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# ECONOMIC INDICATORS FOR SOUTH AND CENTRAL ASIA INPUT-OUTPUT TABLES

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DECEMBER 2018



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DECEMBER 2018





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# FOREWORD

Catalyzed by advancements in production, transportation, and information and communication technologies, as well as diminishing physical and policy barriers to trade, the global economy has been evolving rapidly in recent decades. The resulting need to understand the ever-changing dynamics of trade and production structures has increased the demand for better and more timely statistics. In this context, supply and use tables and input-output tables have received much attention as a response to the emerging need for more systematic and comprehensive approaches to data management, economic analysis, and policy research. The input-output analysis framework is designed to illustrate a system of trading activities and production-sharing arrangements at the local, regional, and global levels.

To facilitate research and to inform policy, the Asian Development Bank (ADB) produces an ongoing compilation of a multiregional input-output (MRIO) database by augmenting the World Input-Output Database with economies from across Asia and the Pacific. The MRIO database depicts input-output details for 62 economies, 43 of which are based on the 2016 release of the World Input-Output Database, with the remaining 19 compiled from supply and use tables resulting from ADB's statistical capacity-building initiatives in the Asia and Pacific region since 2008. The MRIO database aptly serves the increasing demand for structured, relevant, timely, and accurate data, especially with the onset of various economic research projects on global value chains (GVCs).

This publication is one of three that focus on particular regions: (i) *South and Central Asia*, covering Bangladesh, Bhutan, India, Kazakhstan, the Kyrgyz Republic, Maldives, Nepal, Pakistan, and Sri Lanka; (ii) *Southeastern Asia and the Pacific*, encompassing Brunei Darussalam, Cambodia, Fiji, Indonesia, the Lao People's Democratic Republic, Malaysia, the Philippines, Singapore, Thailand, and Viet Nam; and (iii) *Eastern Asia*, including the People's Republic of China; Hong Kong, China; Japan; the Republic of Korea; Mongolia; and Taipei, China. Economy-specific time series of input-output tables, aggregated into 35 industrial sectors and 5 final demand sectors, are provided for 2010 and 2017. The publications also present data visualization of statistics relevant to the analysis of cross-border production arrangements such as value-added exports, revealed comparative advantages, trade in value-added, GVC income, and GVC participation computed from the MRIO.

I would like to thank all those who contributed to the production of these three publications—the consultants; the industry experts; ADB staff; and the national implementing agencies and other government organizations in the economies participating in ADB’s statistical and analytical capacity-building initiatives—for their dedication, cooperation, and hard work. The funding for the data development and analysis activities that led to this publication was provided under RCDTA-8838: *Updating and Constructing the Supply and Use Tables for Selected Developing Member Economies*, and RETA-9244: *Key Indicators for Asia and the Pacific 2018*. We hope that this report will be a valuable resource for economic research and policy analysis.



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This set of three publications cover South and Central Asia, Eastern Asia, and Southeastern Asia and the Pacific. It was produced by the Development Economics and Indicators Division of the Economic Research and Regional Cooperation Department of ADB, under the overall coordination of Mahinthan Joseph Mariasingham; with technical assistance from Kristina Baris, John Arvin Bernabe, Donald Jay Bertulfo, Nina Ashley Dela Cruz, Paul Neilmer Feliciano, Dianne Lara Monis, Julieta Magallanes, Sarah Mae Manuel, Irene Talam, Jonarie Vergara, and Resi Olivares. Eric Suan provided overall administrative support. Paul Dent edited the publications. Joe Mark Ganaban led the typesetting process while Maria Denise Pena designed the covers. These volumes were published with the support of ADB's Department of Communications and Printing Unit.



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# ABBREVIATIONS

ERDI	Development Economics and Indicators Division
GDP	gross domestic product
GFCF	gross fixed capital formation
GVA	gross value added
GVC	global value chains
ICT	information and communication technology
IOT	input-output tables
MRIO	multiregional input-output
NBL	normalized backward linkages
NFL	normalized forward linkages
NPISH	nonprofit organizations and institutions serving households
NRCA	new revealed comparative advantage
RoW	rest of the world
SUT	supply and use tables
TiVA	trade in value added
TRCA	traditional revealed comparative advantage
WIOD	World Input-Output Database



# Technical Note

## Part 1: Overview of Production and Demand Structures

Input-output tables (IOTs) provide a detailed picture of an economy through which mutual interrelationships among the producers and consumers in that economy can be systematically quantified. IOTs have become a widely used tool for national accounting, economic planning, and policy analysis.

This section describes the basic framework of an IOT, consisting of the transaction flows across industries that both produce goods and services (outputs) and consume goods and services (inputs), as well as outlining the value-added by industry and final demand. This also includes a description of different baseline multipliers, which are central indicators of IOTs for impact analysis.

A two-region (home and foreign) IOT is used throughout the analysis, spanning 2010–2017.<sup>1</sup> All values are expressed either in millions of United States (US) dollars or as percentage shares. The data presented here are not official statistics and could differ from relevant official statistics.

### Input-Output Tables

Consider an economy with a given number ( $n$ ) of sectors. An IOT depicting transactions between industries within that economy, and with the rest of the world (RoW), is summarized in the table below.

**Table 1: Example of an Input-Output Table**

		Intermediate Uses				Final Uses						Gross Output
		Industry 1	Industry 2	...	Industry $n$	Households	NPISH	Government	GFCF	CIIs	Export	
Domestic	1	$Z_{11}$	$Z_{12}$	...	$Z_{1n}$	$f_{11}$	$f_{11}$	$f_{11}$	$f_{11}$	$f_{11}$	$e_1$	$x_1$
	2	$Z_{21}$	$Z_{22}$	...	$Z_{2n}$	$f_{21}$	$f_{21}$	$f_{21}$	$f_{21}$	$f_{21}$	$e_2$	$x_2$
	...	...	...	...	...	...	...	...	...	...	...	...
	$n$	$Z_{n1}$	$Z_{n2}$	...	$Z_{nn}$	$f_{n1}$	$f_{n2}$	$f_{n3}$	$f_{n4}$	$f_{n5}$	$e_n$	$x_n$
Imports		$Zm_1$	$Zm_2$	...	$Zm_n$	$fm_1$	$fm_2$	$fm_3$	$fm_4$	$fm_5$		
Value-Added		$v_1$	$v_2$	...	$v_n$							
Total Inputs		$x_1$	$x_2$	...	$x_n$							

CIIs = changes in inventories, GFCF = gross fixed capital formation, NPISHs = nonprofit organizations and institutions serving households.  
Source: Adapted from Miller and Blair (2009).

<sup>1</sup> The data presented in this publication are not official statistics. Production and trade data from various sources are integrated into the input-output economic analysis framework and adjusted as required to conform to specific macroeconomic concepts. As such, data and statistics presented herein could differ from relevant official statistics.



The Intermediate Uses section of Table 1 depicts consumption ( $Z_{ij}$ ) of goods and services by the  $j$  produced by industry  $i$ . Imported inputs of industry  $j$  are denoted as  $Zm_j$ . Adding intermediate consumption to value-added ( $v_j$ ) is equal to the total inputs  $x_j$ .

The Final Uses section of Table 1 depicts the consumption of households ( $f_{i1}$ ), nonprofit organizations and institutions serving households ( $f_{i2}$ ), government ( $f_{i3}$ ), gross fixed capital formation ( $f_{i4}$ ), changes in inventories ( $f_{i5}$ ), and exports ( $e_i$ ). Imported goods and services, denoted by ( $fm_j$ ), are products consumed ultimately as final products.

The sectors in the columns on the left of Table 1 are the ‘selling’ sectors, while the sectors shown across the top are the ‘buyers’. Thus, each row adds up to the gross output that is equal to its corresponding total input, demonstrating the absorption of the output of each industry, while each column shows the input sources of each industry.

In this publication, the IOTs utilize three sector aggregation schemes.

**Table 2: Sector Aggregation Used in Input–Output Tables**

Sectors at the Level Used by World Input–Output Database	ERDI Aggregation Level 1 (13 sectors)	ERDI Aggregation Level 2 (5 sectors)
Agriculture, hunting, forestry, and fishing	Primary	Primary
Mining and quarrying	Primary	Primary
Food, beverages, and tobacco	Low tech	Low tech
Textiles and textile products	Low tech	Low tech
Leather, leather products, and footwear	Low tech	Low tech
Wood and products of wood and cork	Low tech	Low tech
Pulp, paper, paper products, printing, and publishing	Low tech	Low tech
Coke, refined petroleum, and nuclear fuel	High and medium tech	High and medium tech
Chemicals and chemical products	High and medium tech	High and medium tech
Rubber and plastics	Low tech	Low tech
Other nonmetallic minerals	High and medium tech	High and medium tech
Basic metals and fabricated metal	High and medium tech	High and medium tech
Machinery, nec	High and medium tech	High and medium tech
Electrical and optical equipment	High and medium tech	High and medium tech
Transport equipment	High and medium tech	High and medium tech
Manufacturing, nec; recycling	Low tech	Low tech
Electricity, gas, and water supply	Utilities	Low tech
Construction	Construction	Low tech
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	Trade and repair services	Business services
Wholesale trade and commission trade, except of motor vehicles and motorcycles	Trade and repair services	Business services
Retail trade, except of motor vehicles and motorcycles; repair of household goods	Trade and repair services	Business services
Hotels and restaurants	Tourism	Business services
Inland transport	Transport services	Business services
Water transport	Transport services	Business services
Air transport	Transport services	Business services
Other supporting and auxiliary transport activities; activities of travel agencies	Transport services	Business services
Post and telecommunications	ICT services	Business services
Financial intermediation	Finance and insurance services	Business services
Real estate activities	Property services	Business services
Renting of machinery and equipment; other business activities	Property services	Business services
Public administration and defense; compulsory social security	Public and welfare services	Public and welfare services
Education	Public and welfare services	Public and welfare services

*continued on next page*

Table 2 continued

Sectors at the Level Used by World Input–Output Database	ERDI Aggregation Level 1 (13 sectors)	ERDI Aggregation Level 2 (5 sectors)
Health and social work	Public and welfare services	Public and welfare services
Other community, social, and personal services	Public and welfare services	Public and welfare services
Private households with employed persons	Services provided by private households	Public and welfare services

ERDI = Development Economics and Indicators Division, ICT = information and communication technology, nec = not elsewhere classified.

Source: Asian Development Bank. 2015. *Key Indicators for Asia and the Pacific 2015*. <https://www.adb.org/publications/key-indicators-asia-and-pacific-2015>.

**Gross domestic product (GDP)** measures the values of final goods and services produced within an economy over a given period. The charts on GDP show a growth trend, scaled to 2010 levels, for a particular economy in Asia as compared to the RoW and shares by five-sector aggregation (Table 1). Scaling to 2010 levels is the result of dividing the actual GDP by the 2010 GDP values of the economy and the RoW.

**Final consumption expenditure** comprises the major components of domestic demand together with net exports, which is the difference between exports and imports. The components of domestic demand are private consumption, which includes household consumption expenditure and expenditure by nonprofit institutions serving households, and gross capital formation, which is the investment, for instance, in the purchase of machinery and buildings as well as the constitution of stocks (inventories). When stock building, also known as changes in inventories, is excluded, the result is known as gross fixed capital formation. The charts on final consumption expenditure present the total trend and shares by five-sector aggregation over time.

**Intermediate consumption** represents the value of the raw materials, components, and partly manufactured goods going into a given product, as well as other services used in the production of a good or a service (Lequiller and Blades, 2014). When intermediate consumption is deducted from output, one eliminates double counting, and considers gross value added (GVA) as an indicator of output. GVA can also be disaggregated into domestic and imported goods and services. The charts on intermediate consumption present total trend, shares by five-sector aggregation, and ratio to output over time.

**GVA** is the value of output less the value of intermediate consumption; it is a measure of the contribution to GDP made by an individual producer, industry, or sector (Lequiller and Blades, 2014). It can also be referred to as two factors, labor and capital, which are compensated respectively by salaries and profits generated through production. The charts on GVA present total trend, shares by five-sector aggregation, and content in final consumption use.

**Gross output** is the sum of the GVA and the intermediate consumption of an economy **attributed to final demand**. The direct linkage between gross output and final demand refers to the finished deliveries of goods and services to different components of final consumption use. Conversely, the indirect linkage between output and final demand refers to the intermediate outputs used to produce the finished goods and services. These are calculated through matrix multiplication of the *Leontief Inverse* of the production matrix and the final demand vectors comprised of foreign demand (the RoW's final demand vector) and domestic demand (the national economy's final demand vector). The results show the different output levels necessary to satisfy the final demand requirements.

Leontief Inverse is also known as the *total requirements matrix*, and is calculated through the classic input–output model equation:

$$x = (I - A)^{-1}f = Lf \quad (1)$$

Where,

$$(I - A)^{-1} = L = [l_{ij}]$$

A is the matrix of technical coefficients that can be shown as  $A = Z\hat{x}^{-1}$  or  $A_{ij} = \frac{Z_{ij}}{X_j}$

*Technical coefficients* or input coefficients are the shares of costs for goods, services, and primary inputs in total input, which is equal to total output; usually calculated by dividing each entry of the IOT by the column total.

The **GVA attributed to final demand** is calculated by applying the GVA multipliers and the final demand vectors comprised of foreign demand (the RoW's final demand vector) and domestic demand (the national economy's final demand vector).

The decomposition exercise follows that  $f = f_d + f_e$ , where subscripts *d* and *e* stand for domestic final demand and exports, respectively. From equation (1), it follows that  $x = (I - A)^{-1}f_d + (I - A)^{-1}f_e$ , where *x* is a vector of gross output generated to satisfy both domestic and foreign final demand. Therefore, we can distinguish between

$$x_d = (I - A)^{-1}f_d$$

and

$$x_e = (I - A)^{-1}f_e$$

$x_d$  is the vector of gross output generated to satisfy domestic final demand, and  $x_e$  is the vector of gross output generated to satisfy foreign (export) demand.

Since  $v_{c,j} = v_j / x_j$

GVA attributed to domestic and foreign demand may be decomposed by pre-multiplying both equations 2 and 3 with the diagonalized vector of GVA coefficients,  $\hat{v}_c$ . Formulaically,

$$v_d = \hat{v}_c (I - A)^{-1}f_d \quad (2)$$

$$v_e = \hat{v}_c (I - A)^{-1}f_e \quad (3)$$

Multipliers are values used to estimate the effects of exogenous changes on (i) outputs of the sectors in the economy; (ii) income earned by households in each sector, due to new outputs; (iii) employment (jobs, in physical terms) that is generated by each sector due to new outputs; and (iv) the value-added, which is created by each sector in the economy due to new outputs (Miller and Blair, 2009).

**Output multipliers** refer to the total value of production in all sectors of the economy necessary for all stages of production to produce one unit of product for final demand. An output multiplier for a given sector, for instance, sector  $j$ , is

$$m = (o)j = \sum_{i=1}^n l_{ij} \quad (4)$$

As previously mentioned, **L** or Leontief Inverse is a matrix of sector-to-sector multipliers,  $l_{ij}$ , and output multipliers are the column sums of this matrix. These multipliers represent sector-to-economy multipliers, relating final demand in sector  $j$  to economy-wide output (Miller and Blair, 2009).

**GVA multipliers** quantify the total value-added generated in the economy due to a unit value change of final demand for each sector. To calculate GVA multipliers in matrix form, pre-multiply diagonalized value-added coefficients with the Leontief Inverse, **L**. Value-added coefficients are derived by dividing the GVA of sector  $j$  to the gross output of the same sector  $j$ , or in matrix form:  $-\hat{v}'_c = \hat{v}'\hat{x}^{-1}$ .

**Import multipliers** refer to the total intermediate imports that are required to satisfy one unit change in final demand for each sector. The same approach to GVA multipliers applies, but the share of imported inputs of sector  $j$  to the total output of sector  $j$  should be used in lieu of value-added coefficients.

## Part 2: Domestic Interindustry Linkages

### Patterns of Interindustry Transactions

An IOT is a widely used tool to study the pattern of production and consumption of the various industries operating in an economy. The flow of goods and services from one industry to another within the domestic market are visualized using chord diagrams. These interindustry flows refer to intermediate inputs produced in one industry to be absorbed by another as part of its production processes. The diagram rearranges the domestic economy into 13 differentiated tradable industries and makes explicit their direct mutual dependence based on the intermediate transactions.

The chord diagram has two main features: arcs and connections. Lengths of arcs, which determine sector sizes, are proportional to the output of the industry consumed for the domestic intermediate use to the total output consumed for domestic intermediate use of all industries, plus the proportion of its total consumption of outputs of other industries within the economy. The thickness of a connection shows the relative value of the output of the industry used by another industry. The colors of the connections follow the color of the industry of origin.

### Backward and Forward Linkages by Industry

**Backward linkage** refers to the impact of any change in the output of a sector to the sectors producing its input requirements. This indicates the interdependence of a sector with its suppliers. This term focuses on the causation in the demand-side model. Backward linkage measures the sector's dependence to sectors supplying their input requirements.

For the input-output model  $\mathbf{x} = (\mathbf{I} - \mathbf{A})^{-1}\mathbf{f} = \mathbf{L}\mathbf{f}$ , the backward linkage of the  $j^{\text{th}}$  sector is derived as the sum of the elements of the  $j^{\text{th}}$  column of the Leontief Inverse,  $\mathbf{L}$ . In an  $n$ -sector economy, the total backward linkage of the  $j^{\text{th}}$  sector is computed as:

$$BL_j = \sum_{i=1}^n l_{ij}, \quad (5)$$

where  $\mathbf{L} = [l_{ij}]$ . In this context, backward linkage is similar to the output multiplier.

Conversely, **forward linkage** refers to the impact of any change in the output of a sector to the sectors consuming its output as an input in their own production. This indicates the interconnection of a sector with sectors buying its output. This term focuses on the causation in the supply-side model. Forward linkage measures the sector's dependence to sectors using their output for production.

Forward linkages can be derived using Ghosh's model:

$$\mathbf{x}' = \mathbf{v}'(\mathbf{I} - \mathbf{B})^{-1} = \mathbf{v}'\mathbf{G}, \quad (6)$$

where forward linkage of the  $i^{\text{th}}$  sector is derived as the sum of the elements of the  $i^{\text{th}}$  row of the Ghosh matrix  $\mathbf{G}$ . The total forward linkage of the  $i^{\text{th}}$  sector is computed as:

$$FL_i = \sum_{j=1}^n g_{ij}, \quad (7)$$

where  $\mathbf{G} = [g_{ij}]$ .

Using normalized values helps gauge relative strength of interindustry linkage. This allows the classification of industries as more dependent or less dependent on suppliers of inputs (backward linkage perspective) or users of their output (forward linkage perspective). Both forward and backward linkages were normalized by dividing the sector linkage to the mean linkage of all sectors. Normalized backward linkage (NBL) for sector  $j$  is computed as:

$$\overline{BL}_j = \frac{BL_j}{\frac{1}{n} \sum_{j=1}^n BL_j} \quad (8)$$

and normalized forward linkage (NFL) for sector  $i$  is computed as:

$$\overline{FL}_j = \frac{FL_j}{\frac{1}{n} \sum_{i=1}^n FL_i}. \quad (9)$$

This method gives us unity as the bar between industries considered to be independent of other industries (below average or weaker linkage) with industries that are more dependent on other industries (above average or stronger linkage).

### Scatterplot of Backward and Forward Linkages

In normalized form, sectors considered to have “high” forward and backward linkages are those that score greater than 1 for either NBL or NFL. For 2010 and 2017, sectors may

be distributed over a four-way classification based on their relative backward and forward linkages. Following Miller & Blair (2009), sectors in the first quadrant have high forward and backward linkages ( $NFL > 1$ ,  $NBL > 1$ ) indicating high dependence on both their suppliers and consumers in other sectors. Sectors in the second quadrant are more dependent on sectors using their output ( $NFL > 1$ ) and less dependent on sectors producing their inputs ( $NBL < 1$ ). Sectors in the third quadrant are those that have relatively lower dependence on other sectors ( $NFL < 1$ ,  $NBL < 1$ ). Sectors in the fourth quadrant have high dependence on their suppliers ( $NBL > 1$ ) and less dependence on sectors using their output ( $NFL < 1$ ).

Accompanying tables on normalized backward and forward linkages show results for every sector in the selected domestic economy for 2010–2017.

## Hypothetical Extraction of Select Industries from the Domestic Economy

Hypothetical extraction aims to quantify how much the total output of an economy would change (decrease) if a particular sector were removed from that economy. This is an alternative approach to determining relative importance of an industry by its direct and indirect contributions to the economy. The GVA of a sector may be interpreted as the direct economic contribution, while its production linkages with the rest of the economy underscore its indirect contribution.

### Hypothetical Extraction Results

Hypothetical extraction is modeled in the context of input-output by deleting row and column elements of sector  $j$  in the direct requirements matrix  $\mathbf{A}$  by replacing them with zeros to generate a new matrix  $\tilde{\mathbf{A}}_j$ . This effectively cancels out any mutual interdependence of sector  $j$  with the rest of the sectors in the economy. It also follows that there is no final demand,  $\mathbf{f}_{(j)} = \mathbf{0}$ , and no primary inputs,  $\mathbf{v}_{(j)} = \mathbf{0}$ , from sector  $j$ . Utilizing the standard Leontief model with  $\tilde{\mathbf{A}}_j$  and  $\tilde{\mathbf{f}}$  generates a new vector of gross output,  $\tilde{\mathbf{x}}$ . The difference between the output of the hypothetical and baseline scenarios is known to be an aggregate measure of the economy's loss (decrease in value of gross output) if sector  $j$  disappears. As such, it is a measure of the importance or total linkage of sector  $j$ . It is possible to calculate the economy's loss in terms of GVA by pre-multiplying the vector of gross value added coefficients with sector  $j$  set to null,  $\mathbf{v}_{(j)} = \mathbf{0}$ . The resulting vector shows total GVA generated in a hypothetical scenario where there is no sector  $j$ .

### Comparison of Production Gaps between Actual and Hypothetical Scenarios

Production gaps refer to the difference between the baseline scenario and hypothetical scenario with the extraction of sector  $j$ . Results are presented by decomposing economic loss attributed to two broad categories of final demand: domestic and foreign (exports). Given new direct requirements, matrix  $\tilde{\mathbf{A}}_j$ , hypothetical gross output and GVA levels may be decomposed according to (i) production attributed to domestic final demand given the known vector of domestic final demand,  $\tilde{\mathbf{f}}_d$ , and (ii) production attributed to foreign demand given the vector of exports  $\tilde{\mathbf{f}}_e$ . The gap between the two scenarios in either variant (i.e., production for domestic and foreign demand) may be interpreted as the potential economic loss, accounting for the removal of direct and indirect production linkages of sector  $j$ .

## Part 3: International Trade and Production Linkages

### Exports and Imports as a Percentage of Gross Domestic Product

Exports and imports as a percentage share of GDP, or simply the trade-to-GDP ratio, is an indicator of the relative importance of international trade to a national economy. It is derived by dividing the gross value of exports and imports over a period by the GDP for the same period.

### Total Foreign Trade by Sector

Total foreign trade shows the gross imports and exports by sector measured in millions of US dollars.

### Export Activity by End-Use Category

Trends of export levels from 2010 to 2017 are presented by types of end-use: intermediate use and final use. Complementing this graph are the shares of each aggregate sector in the exports of each end-use category.

### Import Activity by End-Use Category

Trends of import levels from 2010 to 2017 are presented by types of end-use: intermediate use and final use. Complementing this graph are the shares of each aggregate sector in the exports of each end-use category.

### International Buying and Selling Patterns of Domestic Industries

This section shows international sourcing and selling patterns in the domestic industries by calculating the shares of internationally traded inputs (the amount of inputs sourced from the RoW) and internationally traded outputs (the amount of output that was exported to the RoW) in the gross output of each sectoral aggregation.

### Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios

**Imported inputs** are noncompetitive imports used by domestic industries in their respective production processes. In other words, they exclude any imports used by final consumers. Each industry's imported inputs are divided by the total output to derive the imported input-to-output ratio. Conversely, exported output is simply the amount of domestic production that was consumed by nonresidents either for further production processes or for final consumption. Exported output is divided by the total (gross) output of each industry to derive the exported output-to-output ratio.

These ratios are used to rank each sector of the economy and highlight how much internationally traded input and output is involved in the production processes of each sector.



### Total Foreign-Traded Input

Analogous to imported inputs.

### Total Foreign-Traded Output

Analogous to exports, or the amount of goods and services produced by residents in the economy  $r$  and consumed by nonresidents either for intermediate or final use. Measured in gross terms, this statistic is often cited as having limitations for isolating double-counted terms from multiple border crossings.

### Domestic Production and International Linkages

For this indicator, the computational exercise takes place in the context of a two-region interregional model, where we assume region  $r$  to refer to the domestic economy, and  $s$  as being the RoW. A salient feature of a two-region IOT is that it provides the mechanism for detailing the direct and indirect linkages between production and trade in a systematic manner. The total requirements matrix,  $\mathbf{L}$ , can therefore be decomposed into three components based on the intrinsic cause (demand) driving the production of the output: intraregional effect ( $\mathbf{M}_1$ ), interregional spillover effect ( $\mathbf{M}_2$ ), and interregional feedback effect ( $\mathbf{M}_3$ ), where:

$$\mathbf{L} = \mathbf{M}_3 * \mathbf{M}_2 * \mathbf{M}_1$$

Formulaically, in a two-economy model, it is expressed as:

$$\mathbf{M}_1 = \begin{bmatrix} (\mathbf{I} - \mathbf{A}^{rr})^{-1} & \mathbf{0} \\ \mathbf{0} & (\mathbf{I} - \mathbf{A}^{ss})^{-1} \end{bmatrix} \quad (10)$$

$$\mathbf{M}_2 = \begin{bmatrix} \mathbf{I} & (\mathbf{I} - \mathbf{A}^{rr})^{-1} \mathbf{A}^{rs} \\ (\mathbf{I} - \mathbf{A}^{ss})^{-1} \mathbf{A}^{sr} & \mathbf{I} \end{bmatrix} \quad (11)$$

$$\mathbf{M}_3 = \begin{bmatrix} [\mathbf{I} - (\mathbf{I} - \mathbf{A}^{rr})^{-1} \mathbf{A}^{rs} (\mathbf{I} - \mathbf{A}^{ss})^{-1} \mathbf{A}^{rs}]^{-1} & \mathbf{0} \\ \mathbf{0} & [\mathbf{I} - (\mathbf{I} - \mathbf{A}^{ss})^{-1} \mathbf{A}^{sr} (\mathbf{I} - \mathbf{A}^{rr})^{-1} \mathbf{A}^{sr}]^{-1} \end{bmatrix} \quad (12)$$

Where  $\mathbf{I}$  is the identity matrix and  $\mathbf{0}$  is the zero matrix, both with the same dimension as the relevant technical coefficient matrix  $\mathbf{A}$ .  $\mathbf{A}^{rr}$  and  $\mathbf{A}^{ss}$  are the technical coefficient matrices of transactions within economies  $r$  and  $s$ , respectively. The coefficients related to interregional transactions are captured in matrixes  $\mathbf{A}^{rs}$  and  $\mathbf{A}^{sr}$ .

$\mathbf{M}_1$ , or intraregional effect, captures the total output that a sector must produce to meet the total domestic (intraregional) requirement arising from a unit value increase in final demand for any given commodity in any given location.

$\mathbf{M}_2$ , or interregional spillover effect, measures the pure interregional direct and indirect demand for the sector's product.

$\mathbf{M}_3$ , or interregional feedback effect, shows the demand of a sector or an economy for its own product(s), resulting from its product(s) being used in the production of commodities that are themselves demanded by the sector or economy in question for its production process.



### Decomposition of Total Production Attributable to Domestic and Interregional Demand

In terms of additive decomposition,  $L$  can also be expressed as follows:

$$L = I + (M_1 - I) + (M_2 * M_1 - M_1) + (M_3 * M_2 * M_1 - M_2 * M_1) \quad (13)$$

Therefore, gross output,  $x$ , can be expressed as:

$$x = \underbrace{Lf}_{\text{Gross output}} = \underbrace{If}_{\text{Direct intra-regional}} + \underbrace{(M_1 - I)f}_{\text{Indirect intra-regional}} + \underbrace{(M_2 - I)M_1f}_{\text{Net inter-regional}} + \underbrace{(M_3 - I)M_2M_1f}_{\text{Net feedback}} \quad (14)$$

The decomposition isolates the initial, intraregional, interregional, and feedback effects. The last two terms of the above equation capture the effects of interregional trade linkages on an economy's sector-specific production activities. They could also be used as a measure of the level and evolution of integration between two or more economies. The last term could serve as an indicator of an economy's (or one of its sector's) intensity of participation in globally distributed production processes. A high value indicates that the sector under consideration is connected to the relevant international production processes at more than one level.

### Growth Rates of Production Components Based on Interregional Input–Output Tables

This graph depicts year-on-year growth rates of each of the four production components based on the multiplier decomposition described.

#### Production Attributable to Domestic Linkages by Sector

Based on the multiplier decomposition method described, this table shows two components of production that are directly related to production linkages within the domestic region,  $M_1$ . Each gross output component is shown by 5-sector aggregation in terms of millions of US dollars. The first subsection (top) presents the total final demand by sector (direct  $M_1$ ), while the second subsection (bottom) shows the indirect production by sector.

#### Production Attributable to Linkages with the Rest of the World by Sector

Based on the multiplier decomposition method described, this table shows two components of production that are directly related to production linkages with the RoW,  $M_2$  and  $M_3$ . Each gross output component is shown by 5-sector aggregation in terms of millions of US dollars.

**Net intraregional (domestic) multipliers** capture the total output that a sector must produce to meet the indirect intraregional requirement for its output arising from a unit value increase in final demand for any given commodity in any given location. Each value shows the additional million US dollars' worth of domestic production required to satisfy a corresponding million US dollars' worth of final demand for sector  $i$ .

**Net interregional multipliers** measure the pure interregional direct and indirect demand for a sector's product. Each value shows the additional million US dollars' worth of interregional production requirements to satisfy one million US dollars' demand for sector  $j$ .

**Net feedback multipliers** show the demand of a sector or an economy for its own product(s), resulting from its product(s) being used in the production of commodities that are themselves demanded by the sector or economy in question for its production process.

## Gross Trade Decomposition

### Comparison of Exports in Gross versus Value-Added Terms

Exports in gross trade and trade in value-added terms are explored in this set of indicators.

Traditional measures of trade record gross flows of goods and services each time they cross borders. This double counting in trade statistics can, to some extent, overstate the importance of exports to GDP and ignore the relative importance of cross-border production-sharing arrangements. Gross trade value aggregates all three broad components: domestic value-added, foreign value-added, and pure double counted terms. In attempt to disentangle domestic value-added from gross trade statistics, Wang, Wei, and Zhu (2013) advocated the use of domestic value-added absorbed abroad (VAX\_G). VAX\_G includes three components: (i) domestic value-added embodied in economy  $s$ ' (the domestic economy in focus) final exports to economy  $r$  (RoW); (ii) domestic value-added embodied in economy  $s$ ' intermediate exports used by direct importer  $r$  to produce final goods and consumed in  $r$ ; and (iii) domestic value-added in intermediate exports by economy  $s$ , used by direct importer  $r$ , to produce exports ultimately absorbed by all other economies except  $s$ .

As a measure of domestic value-added embodied in exports (excluding domestic value-added first exported then returned home), VAX\_G explicitly excludes foreign-originated value-added and pure double-counted terms. These exclusions account for the difference between traditional gross exports and VAX\_G measures.

### Revealed Comparative Advantage: Traditional versus Value-Added Measures

Revealed comparative advantage (RCA) measures the intensity of trade specialization of a national economy in the context of the RoW. The RCA of a particular sector can be measured in a more traditional way by looking at how an exported product compares with other products using gross terms. It can also be measured by the actual value-added created by an economy and embodied in an export.

Following Bela Balassa (1965), traditional revealed comparative advantage (TRCA) of economy  $r$  is defined as:

$$TRCA_i^r = \frac{\frac{e_i^{r*}}{\sum_i^n e_i^{r*}}}{\frac{\sum_t^G e_i^{t*}}{\sum_i^n \sum_t^G e_i^{t*}}} \quad (15)$$

That is, the TRCA is equal to the export share of an industry to the total exports of an economy,  $\frac{e_i^{r*}}{\sum_i^n e_i^{r*}}$ , divided by the export share of this industry in the world,  $\frac{\sum_t^G e_i^{t*}}{\sum_i^n \sum_t^G e_i^{t*}}$ .

An RCA value of less than 1 implies that the economy is not specialized in exports of this industry. Similarly, an RCA value exceeding 1 implies that the economy is specialized in this industry's exports.

Wang, Wei, and Zhu (2013) proposed a new measure of revealed comparative advantage (NRCA) that excludes foreign value-added and pure double-counted terms in gross exports, but includes indirect exports of an economy-sector's value-added through other sectors of the exporting economy. The authors defined NRCA as the share of an economy-sector's forward-linkage-based measure of domestic value-added in exports,  $dvix\_f$ , in the economy's total domestic value-added in exports relative to the sector's total forward-linkage-based domestic value-added in exports from all economies as a share of global value-added in exports. The NRCA is defined as:

$$NRCA_i^r = \frac{\frac{dvix\_f_i^{r*}}{\sum_{i=1}^n dvix\_f_i^{r*}}}{\frac{\sum_t^G dvix\_f_i^{t*}}{\sum_i^n \sum_t^G dvix\_f_i^{t*}}} \quad (16)$$

NRCA uses the same interpretation as TRCA, except that, instead of using gross exports,  $e$ , NRCA only includes the domestic value-added component of export in each sector.

## Part 4: Global Value Chain Indicators

This section focuses on different indicators for global value chains (GVCs), namely trade in value-added, GVC income, and GVC participation. GVCs refer to how international trade, production, and investments are organized and analyzed through the different stages of production processes, traced across different national economies.

**Trade in value-added** refers to the export, import, and net trade in value-added between one economy and another. The network graph shows the trade in value-added of the economy in focus with its top trading partner economies in 2010 and 2017. The diameter of the nodes or circles represent the GDP of the economy and the width or magnitude of the arrows represent how much trade in value-added comes in and goes out from the economy in focus and its trading partners. In addition, the green shade of the nodes and arrows represents the importing partner economy and import of value-added, respectively, while the blue shade of the nodes and arrows represents the exporting partner economy and export of value-added, respectively. Note that the curved arrows do not have any implication regarding the indicator presented.

Using the notations of Johnson and Noguera (2012) for trade in value-added, consider the following multi-region IOT of  $G$  economies with  $N$  sectors.

**Table 3: Multi-Region Input-Output Table**

		Intermediate Uses				Final Uses				Gross Outputs
		Economy 1	Economy 2	...	Economy G	1	2	...	G	
Intermediate Inputs	1	$Z_{11}$	$Z_{12}$	...	$Z_{1G}$	$f_{11}$	$f_{12}$	...	$f_{1G}$	$x_1$
	2	$Z_{21}$	$Z_{22}$	...	$Z_{2G}$	$f_{21}$	$f_{22}$	...	$f_{2G}$	$x_2$
	...	...	...	...	...	...	...	...	...	...
	G	$Z_{G1}$	$Z_{G2}$	...	$Z_{GG}$	$F_{G1}$	$F_{G2}$	...	$F_{GG}$	$X_G$
Value-Added		$v_1'$	$v_2'$	...	$v_G'$					
Total Inputs		$x_1$	$x_2$	...	$x_G$					

Source: Adapted from Miller and Blair (2009).

The vector  $\mathbf{f}_{st} = [f_{st}(i)]$  contains values of goods or services consumed for final use in economy  $t$ , produced in sector  $i$  in economy  $s$ . Matrix  $\mathbf{Z}_{st} = [z_{st}(i, j)]$  is composed of values of goods or services consumed by sector  $j$  in economy  $s$ , produced in sector  $i$  in economy  $s$ . The vector of outputs of each sector in economy  $s$  is:

$$\mathbf{x}_s = [x_s(i) = \sum_t \mathbf{f}_{st}(i) + \sum_t \sum_j \mathbf{f}_{st}(i, j)]. \quad (17)$$

Then for  $N \times N$  matrix  $\mathbf{A} = [a_{st}(i, j) = f_{st}(i, j)/x_s(j)]$  we express the multi-region output as:

$$\mathbf{x} = \mathbf{Ax} + \sum_t \mathbf{f}_t \rightarrow \mathbf{x} = \sum_t (\mathbf{I} - \mathbf{A})^{-1} \mathbf{f}_t. \quad (18)$$

This parallels the classic input-output model for one region such that  $(\mathbf{I} - \mathbf{A})^{-1}$  is interpreted similarly with the Leontief Inverse.

Exports of value-added produced in sector  $i$  in economy  $s$  and absorbed in economy  $t$  are then computed as:

$$v_{st}(i) = r_s(i) x_{st}(i), \quad (19)$$

where,

$$r_s(i) = 1 - \sum_t \sum_j a_{ts}(j, i) \quad (20)$$

is the ratio of value-added to output for each sector in economy  $s$ . Then the total export of value-added from economy  $s$  to  $t$  is:

$$v_{st} = \sum_i r_s(i) x_{st}(i). \quad (21)$$

The total export of value-added of economy  $s$  to all trading-partner economies is:

$$v_s = \sum_i \sum_t r_s(i) x_{st}(i). \quad (22)$$

and the total import of value-added of economy  $t$  from all trading-partner economies is:

$$v_t = \sum_j \sum_s r_s(i) x_{st}(i). \quad (23)$$

Timmer et al. (2013) used the term GVC income for import of value-added. The difference  $va_s - va_t$ , is the **value-added trade balance** or the net trade in value-added that gives a better picture of the exchange of goods and services from national economy to national economy.

## Global Value Chain Participation Index

This part examines each economy's movements in GVC participation. Following Wang et al. (2017), we can decompose total production activities at the economy- and sector-levels, depending on whether production activities are for pure domestic demand, traditional trade, simple GVC activities, and/or complex GVC activities.

### Decomposing Value-Added and Final Goods Production Activities

GVCs depend on goods that are used as inputs and which cross national borders for production. Therefore, the first steps in measuring GVC participation are to separate final and intermediate use, distinguish between domestic and foreign value-added, and identify which types of production are GVC activities and which are not. To distinguish between domestic and foreign value-added, the domestic and the import input-output coefficient matrix in the MRIO may be used in the national IOT,

$$X = AX + Y \quad (24)$$

Where  $X$  is the gross output vector,  $Y$  is the final demand vector, and  $A$  is the input-output technical coefficient matrix. Using this gross output equation, which splits intermediate and final goods, the production and use balance of production may be written as:

$$X = A^D X + Y^D + A^F X + Y^F = A^D X + Y^D + E \quad (25)$$

which can be rearranged to get:

$$\begin{aligned} X &= (A - A^D)^{-1} Y^D + (I - A^D)^{-1} E = LY^D + LE \\ X &= LY^D + LY^F + LA^F X \end{aligned} \quad (26)$$

where  $A^D$  is the diagonal block matrix of domestic input coefficients,  $A^F$  is the off-diagonal block matrix of imported input coefficients,  $Y^D$  is the vector of final goods production for domestic consumption, and  $Y^F$  is the vector of final goods exports.

Replacing  $L$  with  $B$  as the global Leontief Inverse matrix and replacing  $X$  as  $BY$  obtains the decomposition of value-added and final goods production may be written as follows:

$$\hat{V}\hat{B}\hat{Y} = \hat{V}\hat{L}\hat{Y}^D + \hat{V}\hat{L}\hat{Y}^F + \hat{V}\hat{L}\hat{A}^F\hat{B}\hat{Y} \quad (27)$$

$$\hat{V}\hat{B}\hat{Y} = \hat{V}\hat{L}\hat{Y}^D + \hat{V}\hat{L}\hat{Y}^F + (\hat{V}\hat{L}\hat{A}^F\hat{L}\hat{Y}^D) + \hat{V}\hat{L}\hat{A}^F(\hat{B}\hat{Y} - \hat{L}\hat{Y}^D) \quad (28)$$

The first term refers to pure domestic production or domestic production absorbed by domestic final demand without cross-border trade. The second term refers to traditional trade or the production of final goods or exports absorbed by foreign final demand. In this type of production activity, value-added crosses national borders only once and only for consumption. Both pure domestic production and traditional trade are non-GVC production activities

because there is no domestic value-added that crosses national borders for production purposes. The third and fourth terms refer to GVC production activities. GVC activities are those activities in which value-added crosses national borders for production. It is the sum of value-added embodied in intermediate goods for export or import. GVC production activities can be further decomposed into simple and complex GVC activities. Simple GVCs involve domestic value-added crossing national borders for production only once, while complex GVCs involve domestic value-added crossing national borders for production at least twice.

By decomposing GVC participation indices between participation in non-GVC and GVC production activities, the extent by which domestic value-added in a economy-sector is involved in the GVCs production activities can be measured. Furthermore, the structural change in an economy's different types of value-added creation activities at the sectoral level and its relevance to an economy's GDP growth can be analysed based on this decomposition.

### Measuring Participation Based on Forward and Backward Linkages in Global Value Chains

Based on the decomposition of value-added and final goods production, we can identify which types of production are GVC production activities. Therefore, participation in GVCs can be measured at the economy-sector level in four ways, based on forward and backward linkages through

- (i) exports of domestic value-added embodied in intermediate exports used by direct importers for domestic consumption, labelled as simple GVCs based on forward linkages;
- (ii) exports of domestic value-added in intermediate exports used by direct importers to produce exports to third-party economies, labelled as complex GVCs based on forward linkages;
- (iii) imports of foreign value-added that are used to produce goods for domestic consumption, labelled as simple GVCs based on backward linkages; and
- (iv) imports of foreign value-added that are used to produce exports to other economies, labelled as complex GVCs based on backward linkages.

The sum of Eq. 28 along the rows provides the decomposition of value-added from an economy-sector from upstream activities, which indicates GVC participation based on forward linkages, **GVCpt\_F**. It refers to the sum of each economy-sector's value-added used in all downstream sectors.

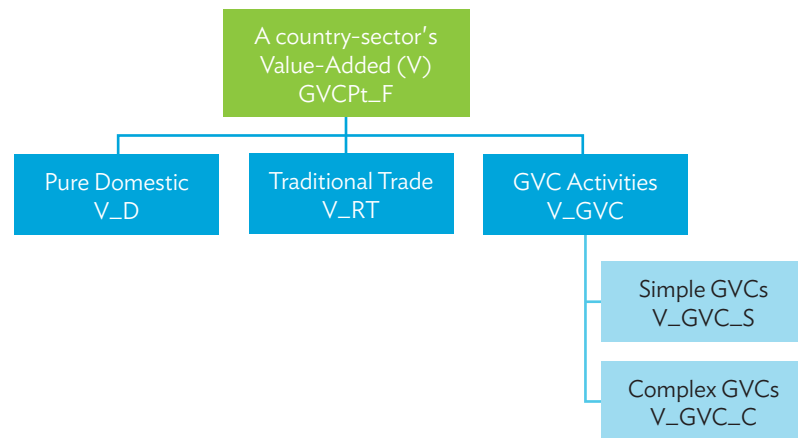
$$\hat{V}\hat{B}\hat{Y} = \underbrace{\hat{V}\hat{L}\hat{Y}^D}_{(1)V-D} + \underbrace{\hat{V}\hat{L}\hat{Y}^F}_{(2)V-RT} + \underbrace{\hat{V}\hat{L}\hat{A}^F\hat{L}\hat{Y}^D}_{(3a)V\_GVC\_S} + \underbrace{\hat{V}\hat{L}\hat{A}^F(\hat{B}\hat{Y} - \hat{L}\hat{Y}^D)}_{(3b)V\_GVC\_C} \quad (29)$$

The sum of Eq. 28 along the columns provides the decomposition of an economy-sector's final goods production, which indicates GVC participation based on backward linkages, **GVCpt\_B**. It refers to the sum of value-added in an economy-sector's final goods production that is involved in GVC activities from all upstream sectors.

$$\hat{V}\hat{B}\hat{Y} = \underbrace{\hat{V}\hat{L}\hat{Y}^D}_{Y-D} + \underbrace{\hat{V}\hat{L}\hat{Y}^F}_{Y-RT} + \underbrace{\hat{V}\hat{L}\hat{A}^F\hat{L}\hat{Y}^D}_{Y\_GVC\_S} + \underbrace{\hat{V}\hat{L}\hat{A}^F(\hat{B}\hat{Y} - \hat{L}\hat{Y}^D)}_{Y\_GVC\_C} \quad (30)$$

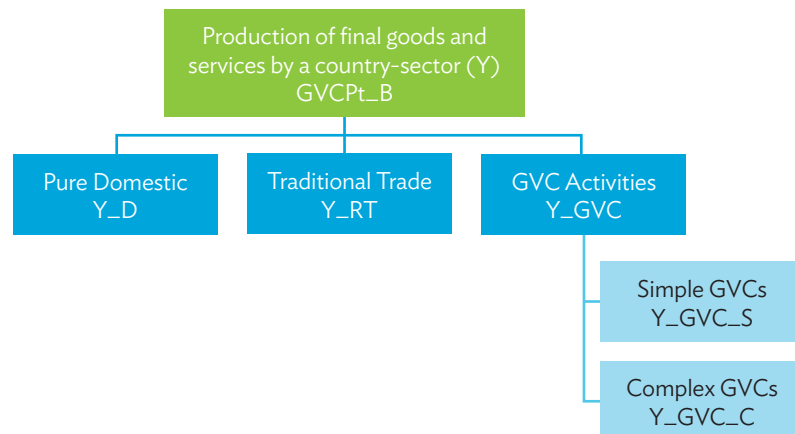
$\hat{V}LY^D$  and  $VL\hat{Y}^D$  are labelled as **V\_D** and **Y\_D** which refers to the value-added that is produced and absorbed domestically.  $\hat{V}LY^F$  and  $VL\hat{Y}^F$  are labelled as **V\_RT** and **Y\_RT** which refers to value-added that is embodied in final goods exports and absorbed by the direct importer for consumption only. At the economy aggregate level, **V\_D** and **V\_RT** are equal to **Y\_D** and **Y\_RT**.  $\hat{V}LY^F LY^D$  and  $VL\hat{Y}^F LY^D$  are labelled as simple GVC activities **V\_GVC\_S** and **Y\_GVC\_S** while  $\hat{V}LA^F (BY - LY^D)$  and  $VLA^F (B\hat{Y} - L\hat{Y}^D)$  are labelled as complex GVC activities **V\_GVC\_C** and **Y\_GVC\_C**. **V\_GVC\_S** is domestic value-added embodied in an economy-sector's intermediate exports that are used by the direct importer to produce domestic final goods that are absorbed by domestic final demand. **Y\_GVC\_S** is foreign value-added in an economy-sector that is imported directly from partner countries and are used to produce domestic final goods consumed domestically. **V\_GVC\_C** is an economy-sector's value-added embodied in its intermediate exports and used by the direct importer to produce intermediate and final exports to other countries. **Y\_GVC\_C** is the returned domestic value-added or foreign value-added embodied in an economy-sector's intermediate imports that are used to produce final goods absorbed at the home economy or exported to other countries. Because **V\_GVC\_C** and **Y\_GVC\_C** involves indirect international trade through third countries, they will only equal each other at the global aggregate level.

**Figure 1: Decomposition of Value-added by Industry (Forward Linkages)**



Source: Wang et al. (2017).

**Figure 2: Decomposition of Final Goods Production by Economy/Sector (Backward Linkages)**



Source: Wang et al. (2017).



### **GVC Participation Based on Backward and Forward Linkages at the Economy/Sector Level**

For each sector, the GVC participation index based on forward and backward linkages, and their decomposition into simple and complex GVC activities, can be measured. Breaking down the decomposition of economic sectors into both forward and backward linkages shows the general pattern in production structures among sectors. In general, services tend to have a low degree of participation in both backward and forward linkages, while manufacturing tends to have a high degree of both backward and forward participation. Major producers and exporters in the primary sector, including agriculture and mining, often have a high degree of forward participation and a low degree of backward participation.

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# **COUNTRY PROFILES**

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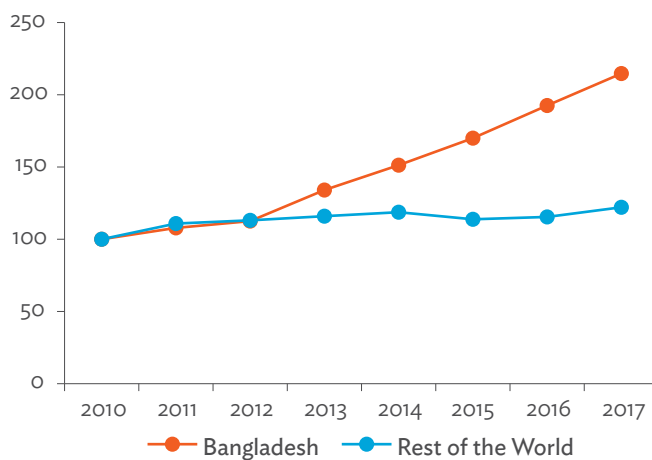
## South and Central Asia

# 1.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Bangladesh

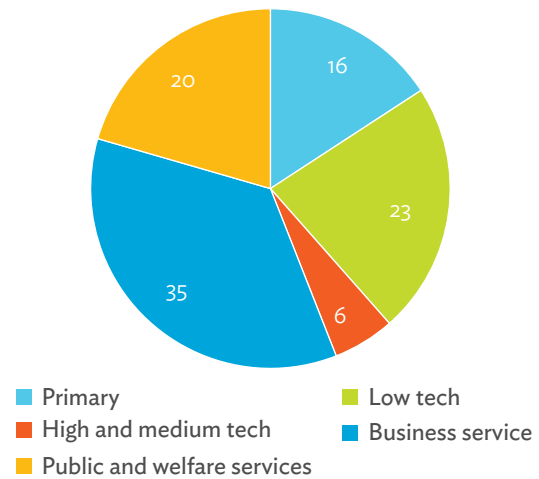
**Figure 1.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

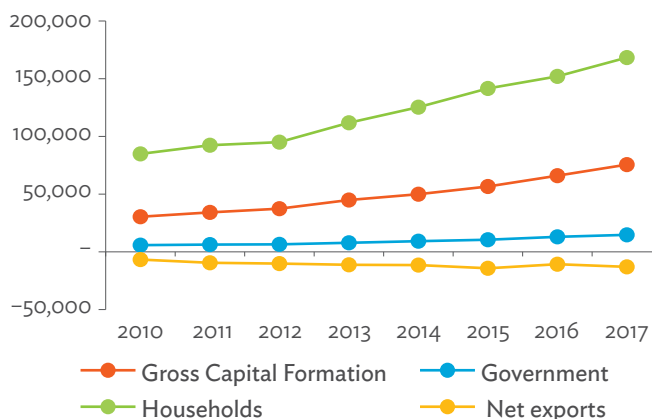
**Figure 1.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

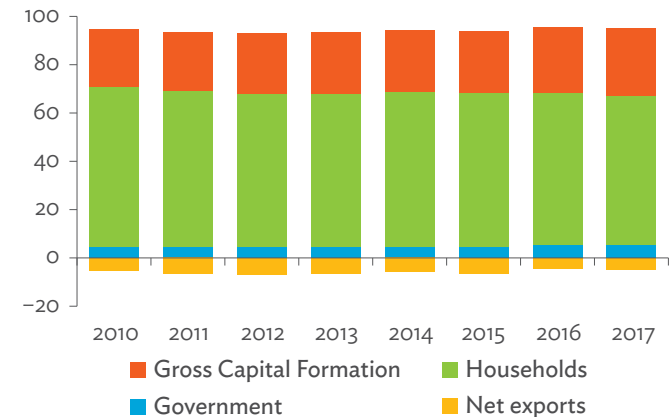


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

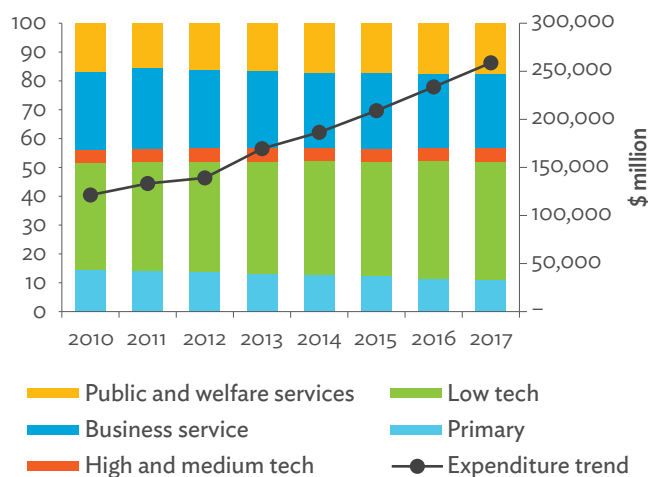
**Figure 1.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

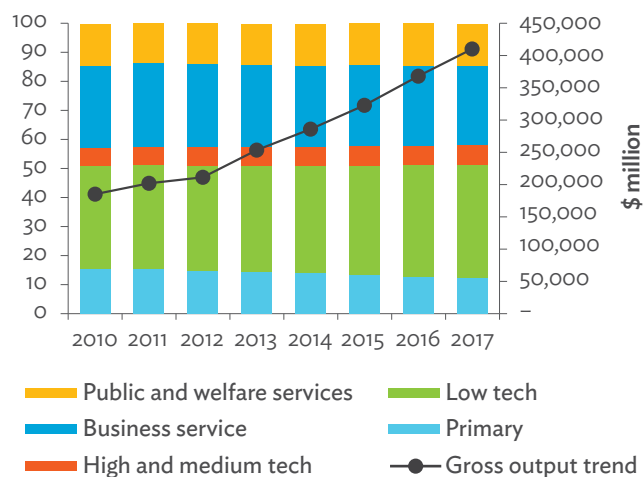


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

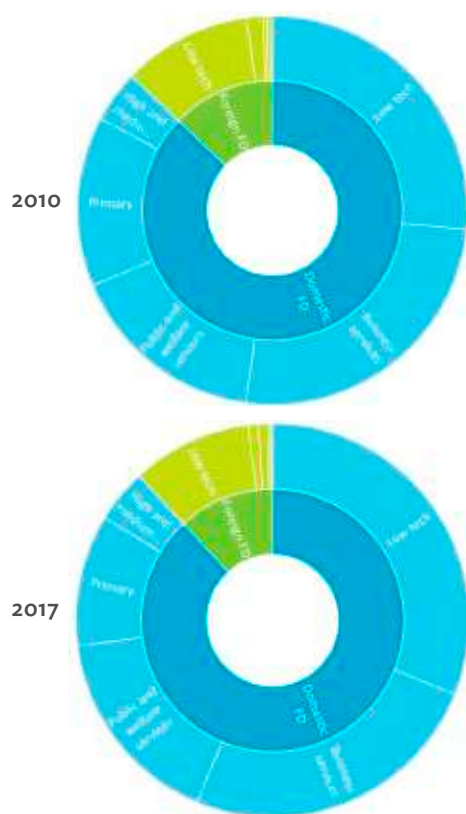


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

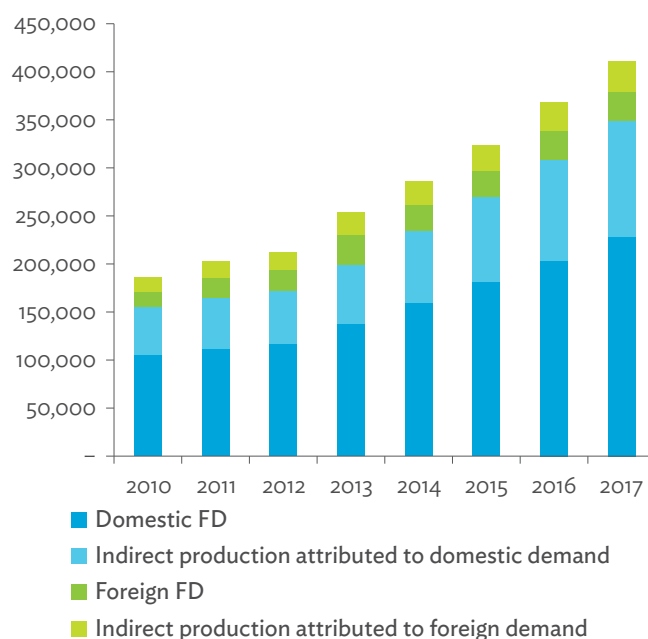


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

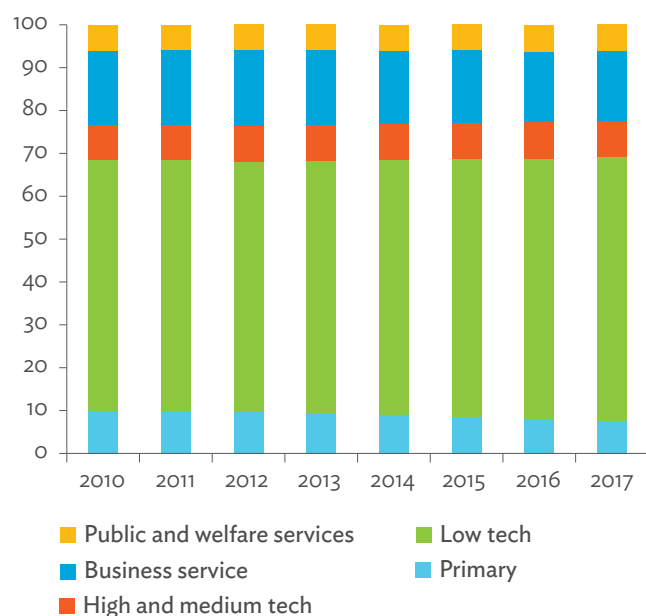


\$ = United States dollar; FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

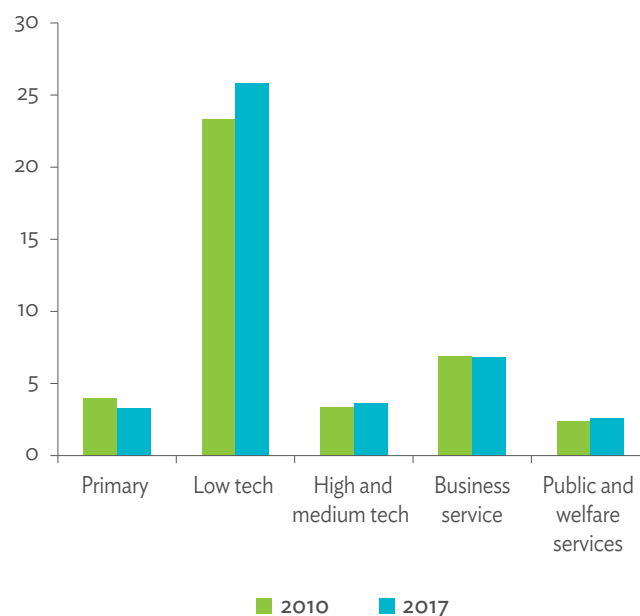
**Figure 1.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

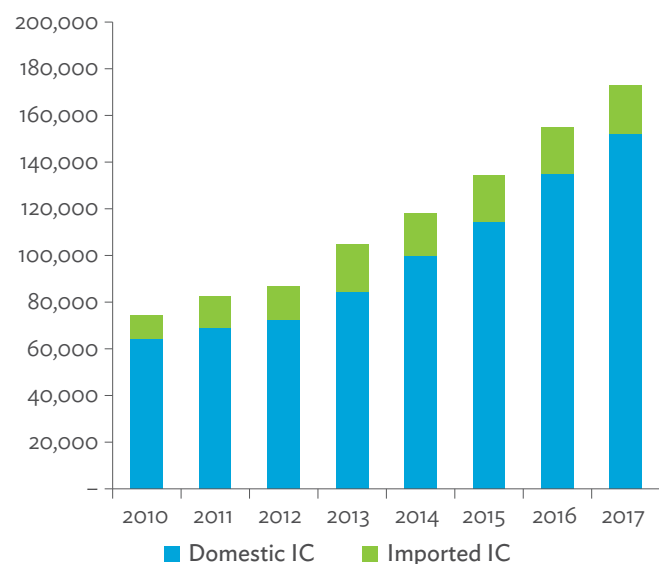
**Figure 1.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

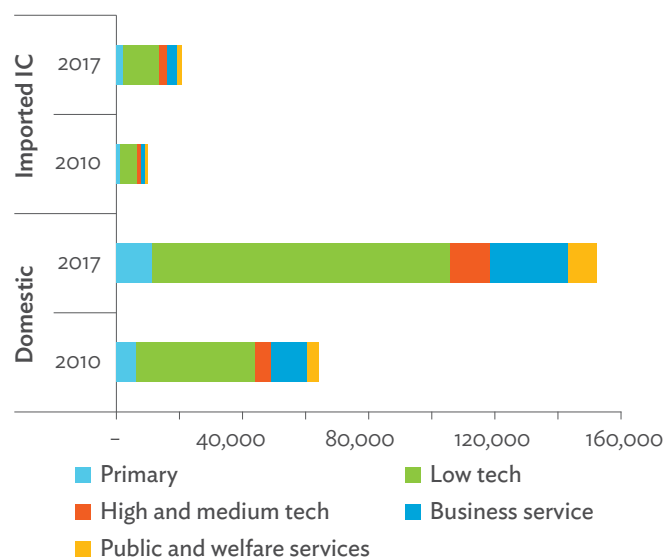


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

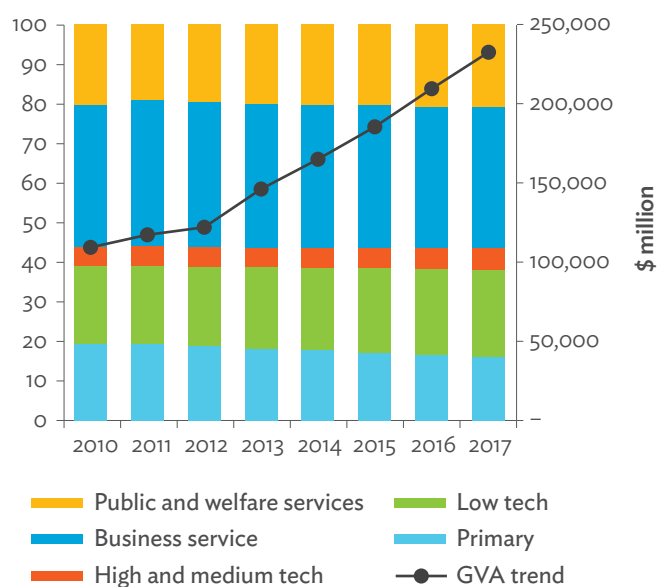


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

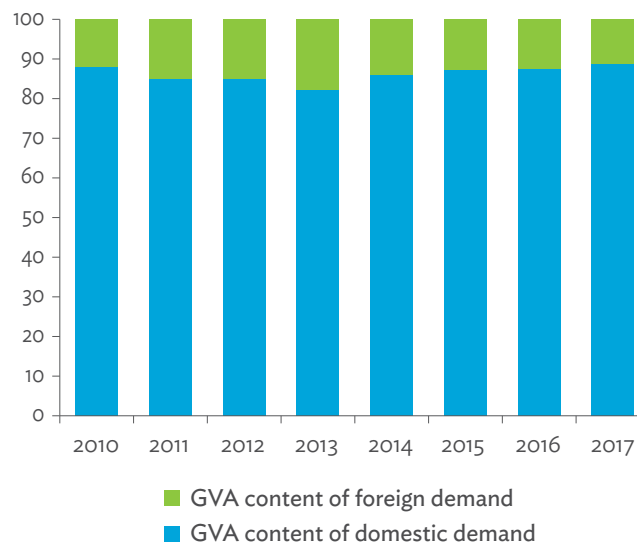
**Figure 1.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**



\$ = United States dollar, GVA = gross value added.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

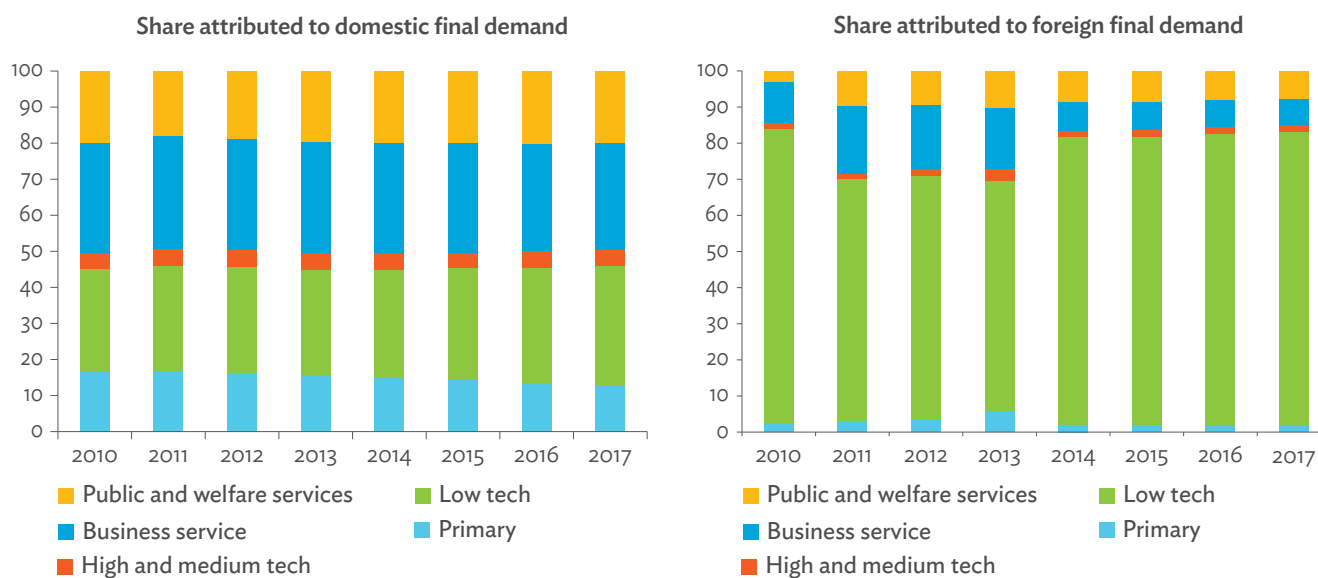
**Figure 1.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**



GVA=gross value added.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Table 1.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.933	0.918	0.914	0.902	0.919	0.922	0.929	0.931
Mining and quarrying	0.968	0.960	0.960	0.955	0.961	0.962	0.964	0.965
Food, beverages, and tobacco	0.854	0.823	0.819	0.794	0.829	0.833	0.849	0.853
Textiles and textile products	0.828	0.792	0.788	0.768	0.811	0.814	0.830	0.832
Leather, leather products, and footwear	0.898	0.874	0.872	0.857	0.885	0.887	0.897	0.899
Wood and products of wood and cork	0.879	0.851	0.850	0.829	0.857	0.861	0.874	0.877
Pulp, paper, paper products, printing, and publishing	0.797	0.759	0.754	0.737	0.785	0.791	0.809	0.813
Coke, refined petroleum, and nuclear fuel	0.783	0.747	0.743	0.699	0.764	0.770	0.785	0.786
Chemicals and chemical products	0.844	0.813	0.810	0.790	0.827	0.832	0.847	0.851
Rubber and plastics	0.853	0.824	0.821	0.804	0.837	0.841	0.854	0.857
Other nonmetallic minerals	0.910	0.892	0.891	0.881	0.901	0.904	0.911	0.913
Basic metals and fabricated metal	0.742	0.697	0.692	0.661	0.716	0.724	0.750	0.757
Machinery, nec	0.771	0.731	0.725	0.690	0.736	0.743	0.768	0.774
Electrical and optical equipment	0.827	0.794	0.792	0.753	0.775	0.781	0.799	0.803
Transport equipment	0.910	0.892	0.889	0.876	0.893	0.896	0.905	0.907
Manufacturing, nec; recycling	0.887	0.863	0.861	0.846	0.873	0.876	0.888	0.890
Electricity, gas, and water supply	0.879	0.872	0.875	0.857	0.880	0.882	0.893	0.895
Construction	0.833	0.799	0.801	0.781	0.818	0.823	0.840	0.844
Sale, maintenance, and repair	0.984	0.980	0.980	0.978	0.981	0.981	0.982	0.981
Wholesale trade and commission trade	0.961	0.950	0.951	0.946	0.955	0.956	0.959	0.960
Retail trade	0.974	0.968	0.968	0.965	0.970	0.971	0.973	0.973
Hotels and restaurants	0.862	0.833	0.833	0.812	0.843	0.848	0.862	0.865
Inland transport	0.920	0.904	0.905	0.888	0.901	0.903	0.912	0.913
Water transport	0.898	0.879	0.881	0.849	0.855	0.859	0.869	0.870
Air transport	0.693	0.648	0.653	0.599	0.640	0.649	0.673	0.670
Other supporting and auxiliary transport activities	0.910	0.895	0.896	0.882	0.893	0.895	0.900	0.899
Post and telecommunications	0.932	0.919	0.917	0.902	0.911	0.913	0.918	0.918
Financial intermediation	0.935	0.923	0.928	0.923	0.935	0.937	0.941	0.942
Real estate activities	0.986	0.984	0.983	0.975	0.975	0.975	0.977	0.977
Renting of M&Eq and other business activities	0.954	0.950	0.942	0.930	0.936	0.937	0.941	0.941
Public administration and defense; compulsory social security	0.947	0.938	0.935	0.929	0.941	0.942	0.948	0.950
Education	0.959	0.952	0.951	0.943	0.949	0.951	0.954	0.956
Health and social work	0.876	0.846	0.846	0.823	0.855	0.860	0.874	0.879
Other community, social, and personal services	0.971	0.933	0.936	0.959	0.966	0.967	0.969	0.969
Private households with employed persons	0.971	0.965	0.965	0.961	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 1.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.059	0.074	0.077	0.090	0.072	0.070	0.062	0.059
Mining and quarrying	0.024	0.030	0.029	0.036	0.030	0.029	0.026	0.025
Food, beverages, and tobacco	0.126	0.156	0.159	0.187	0.152	0.147	0.130	0.124
Textiles and textile products	0.150	0.184	0.186	0.209	0.166	0.163	0.146	0.141
Leather, leather products, and footwear	0.093	0.116	0.118	0.134	0.106	0.104	0.092	0.089
Wood and products of wood and cork	0.101	0.127	0.127	0.151	0.123	0.119	0.105	0.100
Pulp, paper, paper products, printing, and publishing	0.161	0.195	0.198	0.221	0.173	0.167	0.147	0.139
Coke, refined petroleum, and nuclear fuel	0.133	0.162	0.162	0.217	0.152	0.147	0.128	0.121
Chemicals and chemical products	0.128	0.157	0.160	0.183	0.146	0.141	0.124	0.118
Rubber and plastics	0.115	0.141	0.143	0.165	0.131	0.128	0.113	0.107
Other nonmetallic minerals	0.068	0.084	0.084	0.097	0.077	0.074	0.066	0.062
Basic metals and fabricated metal	0.208	0.250	0.252	0.290	0.234	0.226	0.198	0.187
Machinery, nec	0.185	0.222	0.226	0.267	0.220	0.213	0.186	0.176
Electrical and optical equipment	0.116	0.143	0.143	0.191	0.168	0.163	0.142	0.134
Transport equipment	0.067	0.083	0.085	0.101	0.084	0.081	0.072	0.068
Manufacturing, nec; recycling	0.095	0.117	0.119	0.136	0.109	0.106	0.093	0.089
Electricity, gas, and water supply	0.099	0.107	0.104	0.124	0.101	0.098	0.086	0.082
Construction	0.135	0.166	0.163	0.188	0.150	0.147	0.128	0.121
Sale, maintenance, and repair	0.009	0.012	0.012	0.014	0.012	0.011	0.010	0.009
Wholesale trade and commission trade	0.030	0.040	0.039	0.045	0.036	0.035	0.031	0.029
Retail trade	0.018	0.023	0.022	0.026	0.021	0.021	0.018	0.017
Hotels and restaurants	0.116	0.142	0.141	0.166	0.134	0.130	0.115	0.109
Inland transport	0.059	0.073	0.072	0.091	0.078	0.076	0.066	0.062
Water transport	0.069	0.085	0.083	0.118	0.110	0.107	0.094	0.088
Air transport	0.215	0.256	0.250	0.312	0.266	0.258	0.223	0.206
Other supporting and auxiliary transport activities	0.055	0.067	0.065	0.083	0.071	0.069	0.060	0.056
Post and telecommunications	0.049	0.060	0.060	0.078	0.068	0.065	0.057	0.054
Financial intermediation	0.043	0.053	0.050	0.057	0.045	0.044	0.038	0.036
Real estate activities	0.010	0.012	0.013	0.022	0.022	0.021	0.020	0.019
Renting of M&Eq and other business activities	0.031	0.035	0.040	0.055	0.049	0.047	0.043	0.041
Public administration and defense; compulsory social security	0.041	0.050	0.051	0.059	0.047	0.046	0.041	0.038
Education	0.029	0.036	0.036	0.046	0.039	0.038	0.034	0.033
Health and social work	0.120	0.150	0.150	0.174	0.142	0.137	0.121	0.116
Other community, social, and personal services	0.021	0.051	0.048	0.032	0.025	0.025	0.022	0.021
Private households with employed persons	0.021	0.026	0.026	0.031	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 1.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.320	1.314	1.312	1.293	1.318	1.323	1.343	1.347
Mining and quarrying	1.141	1.139	1.139	1.129	1.136	1.138	1.149	1.150
Food, beverages, and tobacco	1.916	1.888	1.885	1.841	1.891	1.905	1.943	1.957
Textiles and textile products	2.076	2.039	2.034	1.981	2.050	2.083	2.140	2.175
Leather, leather products, and footwear	1.889	1.869	1.867	1.834	1.874	1.892	1.930	1.952
Wood and products of wood and cork	1.704	1.681	1.683	1.647	1.685	1.694	1.723	1.732
Pulp, paper, paper products, printing, and publishing	1.728	1.696	1.692	1.660	1.734	1.748	1.784	1.793
Coke, refined petroleum, and nuclear fuel	1.884	1.848	1.844	1.775	1.873	1.886	1.912	1.913
Chemicals and chemical products	1.543	1.522	1.520	1.483	1.537	1.546	1.580	1.588
Rubber and plastics	1.787	1.763	1.760	1.725	1.774	1.789	1.824	1.837
Other nonmetallic minerals	1.575	1.564	1.562	1.544	1.571	1.579	1.600	1.604
Basic metals and fabricated metal	1.978	1.924	1.917	1.866	1.967	1.986	2.030	2.040
Machinery, nec	1.700	1.664	1.658	1.597	1.675	1.690	1.732	1.741
Electrical and optical equipment	1.591	1.566	1.566	1.500	1.532	1.543	1.575	1.580
Transport equipment	1.311	1.303	1.302	1.276	1.301	1.308	1.329	1.333
Manufacturing, nec; recycling	1.790	1.770	1.768	1.739	1.782	1.795	1.824	1.836
Electricity, gas, and water supply	1.496	1.492	1.494	1.466	1.498	1.506	1.531	1.536
Construction	1.813	1.795	1.792	1.761	1.826	1.843	1.873	1.880
Sale, maintenance, and repair	1.186	1.184	1.184	1.182	1.184	1.185	1.187	1.187
Wholesale trade and commission trade	1.220	1.215	1.217	1.207	1.219	1.222	1.229	1.231
Retail trade	1.224	1.221	1.221	1.217	1.224	1.226	1.230	1.231
Hotels and restaurants	1.876	1.855	1.855	1.817	1.862	1.875	1.906	1.917
Inland transport	1.338	1.337	1.337	1.309	1.327	1.334	1.348	1.351
Water transport	1.424	1.415	1.415	1.357	1.367	1.376	1.400	1.401
Air transport	1.826	1.780	1.787	1.693	1.763	1.786	1.827	1.821
Other supporting and auxiliary transport activities	1.320	1.313	1.313	1.291	1.307	1.313	1.325	1.323
Post and telecommunications	1.393	1.386	1.386	1.361	1.375	1.379	1.395	1.395
Financial intermediation	1.365	1.359	1.361	1.350	1.365	1.367	1.376	1.374
Real estate activities	1.121	1.120	1.119	1.106	1.104	1.107	1.117	1.118
Renting of M&Eq and other business activities	1.260	1.257	1.255	1.235	1.243	1.248	1.265	1.271
Public administration and defense; compulsory social security	1.290	1.286	1.285	1.275	1.290	1.294	1.307	1.308
Education	1.183	1.180	1.180	1.165	1.173	1.176	1.190	1.193
Health and social work	1.248	1.238	1.238	1.192	1.238	1.247	1.279	1.289
Other community, social, and personal services	1.171	1.247	1.250	1.166	1.169	1.172	1.183	1.185
Private households with employed persons	1.171	1.162	1.162	1.155	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

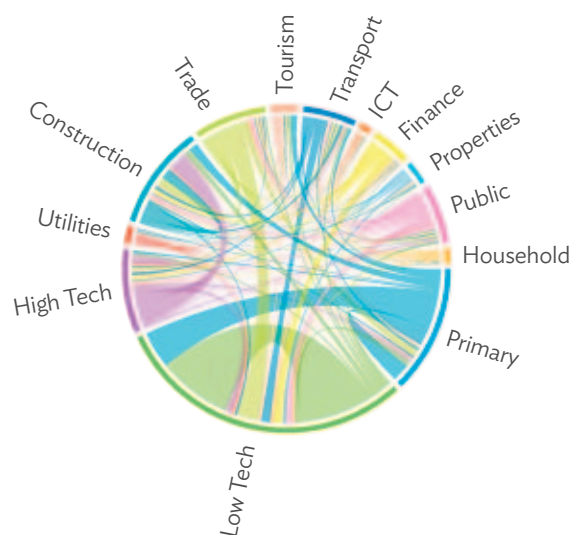
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 1.2

### Bangladesh

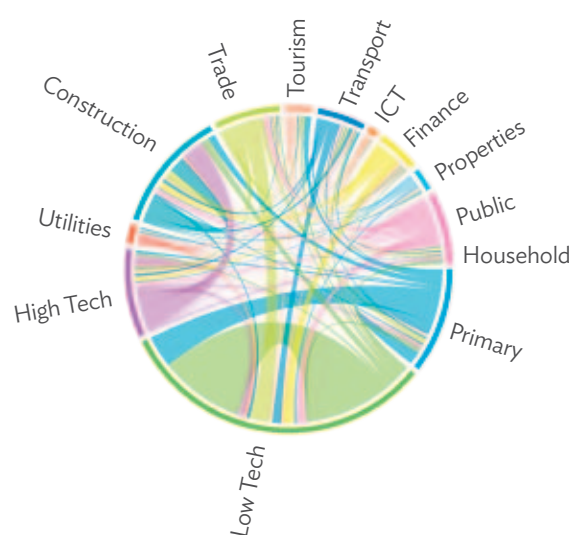
**Figure 1.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

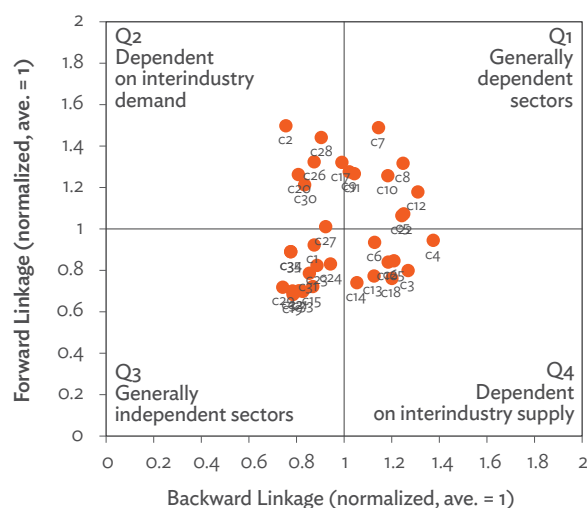
**Figure 1.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

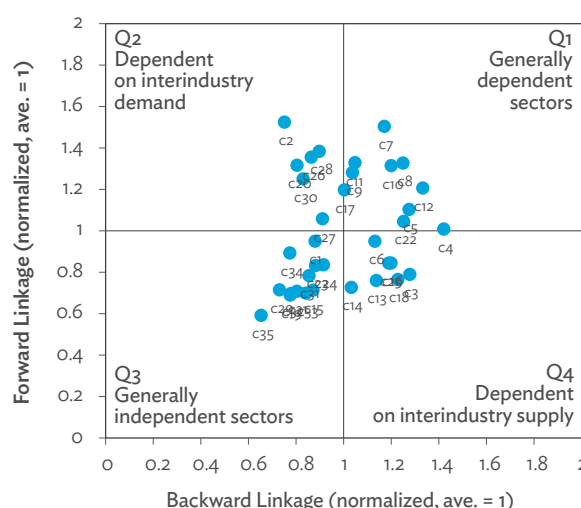
**Figure 1.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

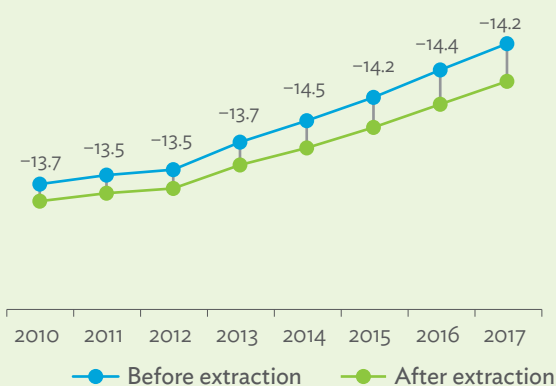
[Click here for figure data](#)

**Figure 1.2.2b: Backward and Forward Linkages by Industry, 2017**

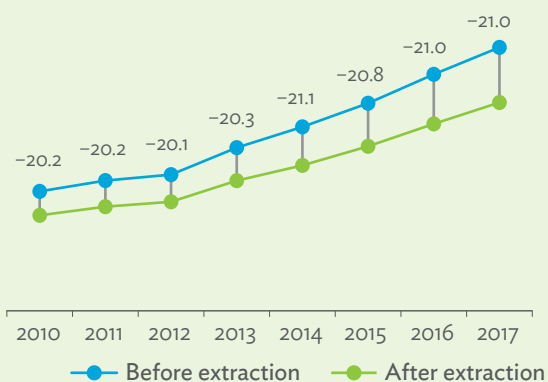


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

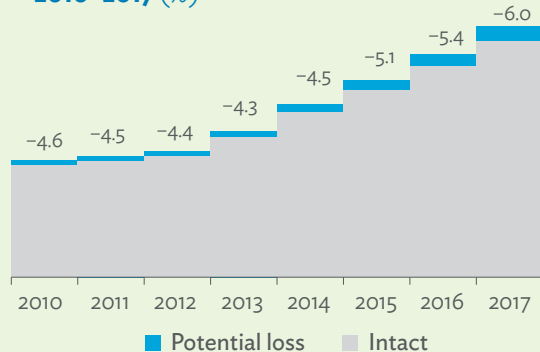
[Click here for figure data](#)

**Box 1: Hypothetical Extraction of Textiles, and Textile Products Industry in Bangladesh****Figure 1.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

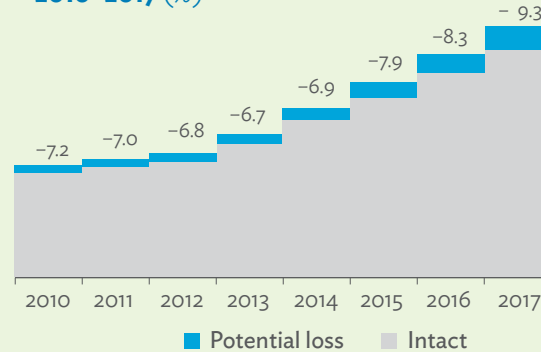
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

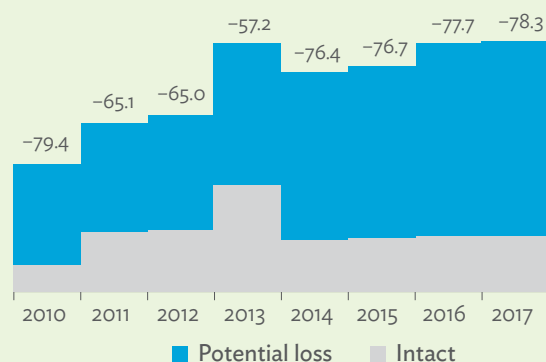
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

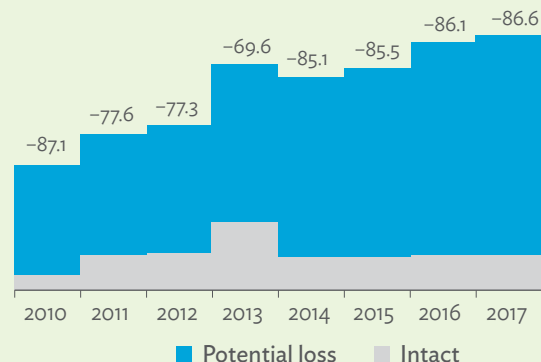
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)**Figure 1.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

Table 1.2.1: Input–Output Backward Linkage

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.874	0.878	0.877	0.884	0.883	0.881	0.881	0.880
Mining and quarrying	0.755	0.761	0.761	0.772	0.761	0.758	0.753	0.751
Food, beverages, and tobacco	1.269	1.261	1.260	1.259	1.267	1.268	1.274	1.278
Textiles and textile products	1.374	1.362	1.360	1.354	1.373	1.387	1.403	1.421
Leather, leather products, and footwear	1.250	1.249	1.248	1.254	1.255	1.260	1.265	1.275
Wood and products of wood and cork	1.128	1.123	1.125	1.126	1.129	1.128	1.130	1.131
Pulp, paper, paper products, printing, and publishing	1.144	1.133	1.131	1.135	1.162	1.164	1.170	1.171
Coke, refined petroleum, and nuclear fuel	1.248	1.235	1.232	1.214	1.255	1.256	1.254	1.249
Chemicals and chemical products	1.022	1.017	1.016	1.014	1.030	1.030	1.036	1.037
Rubber and plastics	1.184	1.178	1.176	1.180	1.189	1.191	1.196	1.200
Other nonmetallic minerals	1.043	1.045	1.044	1.055	1.053	1.051	1.049	1.048
Basic metals and fabricated metal	1.310	1.285	1.281	1.276	1.318	1.322	1.331	1.332
Machinery, nec	1.126	1.112	1.108	1.092	1.122	1.126	1.135	1.137
Electrical and optical equipment	1.054	1.046	1.047	1.026	1.026	1.028	1.033	1.032
Transport equipment	0.868	0.870	0.870	0.872	0.872	0.871	0.871	0.871
Manufacturing, nec; recycling	1.185	1.183	1.182	1.189	1.194	1.195	1.196	1.199
Electricity, gas, and water supply	0.991	0.997	0.998	1.002	1.004	1.003	1.004	1.003
Construction	1.201	1.199	1.198	1.204	1.224	1.227	1.228	1.228
Sale, maintenance, and repair	0.785	0.791	0.791	0.808	0.793	0.789	0.778	0.776
Wholesale trade and commission trade	0.808	0.811	0.813	0.825	0.817	0.814	0.806	0.804
Retail trade	0.810	0.816	0.816	0.832	0.820	0.817	0.806	0.804
Hotels and restaurants	1.242	1.239	1.240	1.242	1.248	1.248	1.250	1.252
Inland transport	0.886	0.893	0.894	0.895	0.889	0.888	0.884	0.882
Water transport	0.943	0.945	0.946	0.928	0.916	0.917	0.918	0.915
Air transport	1.209	1.189	1.195	1.157	1.181	1.190	1.198	1.190
Other supporting and auxiliary transport activities	0.874	0.877	0.878	0.883	0.876	0.874	0.869	0.864
Post and telecommunications	0.922	0.926	0.926	0.930	0.921	0.918	0.914	0.911
Financial intermediation	0.904	0.908	0.910	0.923	0.914	0.910	0.902	0.897
Real estate activities	0.742	0.748	0.748	0.756	0.740	0.737	0.732	0.730
Renting of M&Eq and other business activities	0.834	0.840	0.839	0.845	0.833	0.831	0.829	0.830
Public administration and defense; compulsory social security	0.854	0.859	0.859	0.871	0.865	0.862	0.857	0.855
Education	0.783	0.788	0.789	0.797	0.786	0.783	0.780	0.779
Health and social work	0.826	0.827	0.828	0.815	0.830	0.830	0.838	0.842
Other community, social, and personal services	0.776	0.833	0.836	0.797	0.784	0.780	0.776	0.774
Private households with employed persons	0.776	0.776	0.777	0.790	0.670	0.666	0.656	0.653
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 1.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.922	0.927	0.928	0.938	0.941	0.936	0.949	0.950
Mining and quarrying	1.498	1.497	1.504	1.500	1.542	1.539	1.530	1.525
Food, beverages, and tobacco	0.799	0.801	0.799	0.801	0.791	0.785	0.791	0.790
Textiles and textile products	0.945	0.943	0.940	0.932	0.919	0.950	0.969	1.009
Leather, leather products, and footwear	1.073	1.077	1.081	1.071	1.064	1.075	1.089	1.103
Wood and products of wood and cork	0.935	0.941	0.942	0.943	0.942	0.939	0.950	0.950
Pulp, paper, paper products, printing, and publishing	1.489	1.467	1.476	1.470	1.502	1.498	1.502	1.504
Coke, refined petroleum, and nuclear fuel	1.317	1.303	1.308	1.242	1.288	1.300	1.309	1.327
Chemicals and chemical products	1.276	1.266	1.262	1.242	1.276	1.271	1.281	1.281
Rubber and plastics	1.257	1.266	1.279	1.300	1.333	1.335	1.321	1.315
Other nonmetallic minerals	1.267	1.282	1.297	1.318	1.351	1.353	1.337	1.329
Basic metals and fabricated metal	1.179	1.168	1.170	1.194	1.240	1.257	1.222	1.207
Machinery, nec	0.773	0.774	0.774	0.788	0.785	0.789	0.769	0.760
Electrical and optical equipment	0.741	0.745	0.745	0.756	0.750	0.753	0.735	0.727
Transport equipment	0.722	0.728	0.728	0.742	0.737	0.739	0.721	0.714
Manufacturing, nec; recycling	0.840	0.844	0.848	0.868	0.872	0.877	0.856	0.845
Electricity, gas, and water supply	1.321	1.210	1.178	1.171	1.184	1.182	1.196	1.198
Construction	0.761	0.786	0.774	0.794	0.794	0.801	0.777	0.766
Sale, maintenance, and repair	0.683	0.692	0.690	0.703	0.691	0.690	0.688	0.690
Wholesale trade and commission trade	1.263	1.287	1.279	1.294	1.330	1.339	1.321	1.317
Retail trade	0.702	0.712	0.712	0.724	0.714	0.712	0.710	0.708
Hotels and restaurants	1.064	1.055	1.045	1.041	1.039	1.033	1.046	1.045
Inland transport	0.824	0.824	0.815	0.830	0.832	0.827	0.833	0.832
Water transport	0.831	0.831	0.820	0.833	0.834	0.829	0.836	0.836
Air transport	0.846	0.835	0.829	0.843	0.844	0.838	0.845	0.844
Other supporting and auxiliary transport activities	1.324	1.313	1.282	1.299	1.346	1.341	1.354	1.355
Post and telecommunications	1.011	1.009	1.015	1.028	1.045	1.040	1.056	1.058
Financial intermediation	1.441	1.422	1.379	1.364	1.376	1.376	1.380	1.384
Real estate activities	0.719	0.709	0.731	0.736	0.723	0.718	0.717	0.715
Renting of M&Eq and other business activities	1.213	1.136	1.257	1.235	1.243	1.236	1.251	1.251
Public administration and defense; compulsory social security	0.786	0.785	0.786	0.789	0.776	0.769	0.777	0.784
Education	0.701	0.705	0.700	0.712	0.698	0.692	0.697	0.698
Health and social work	0.699	0.707	0.701	0.713	0.699	0.693	0.699	0.699
Other community, social, and personal services	0.890	1.057	1.039	0.897	0.886	0.881	0.891	0.893
Private households with employed persons	0.890	0.899	0.886	0.892	0.610	0.606	0.595	0.592
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.



# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 1.3

### Bangladesh

**Figure 1.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

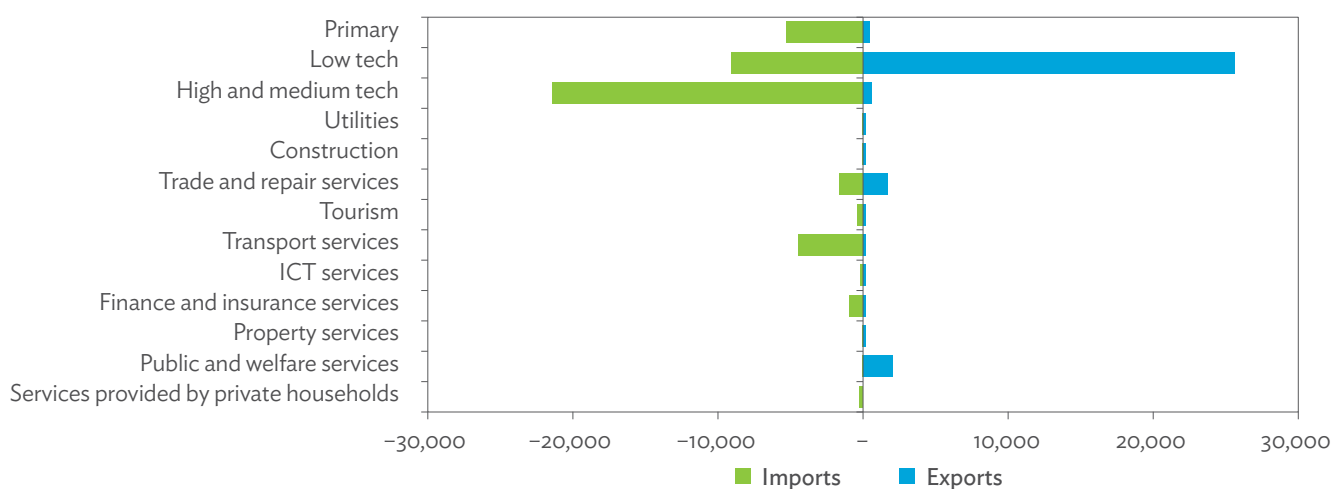


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

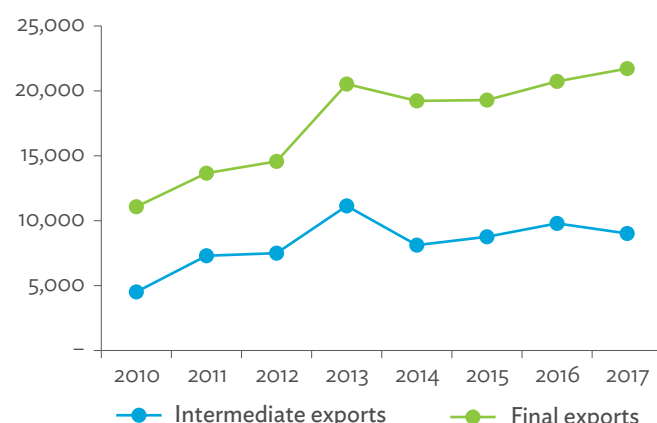


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

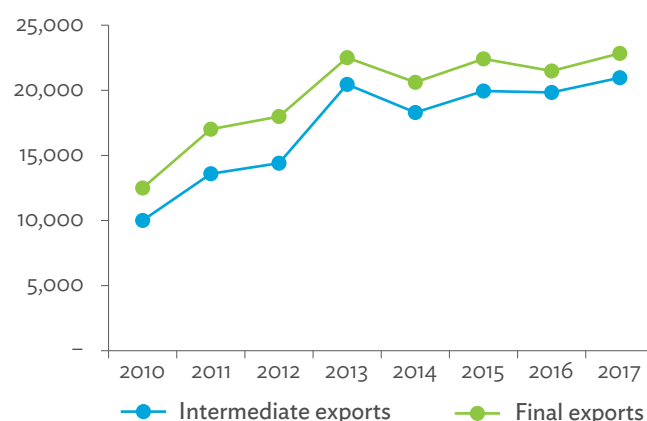


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

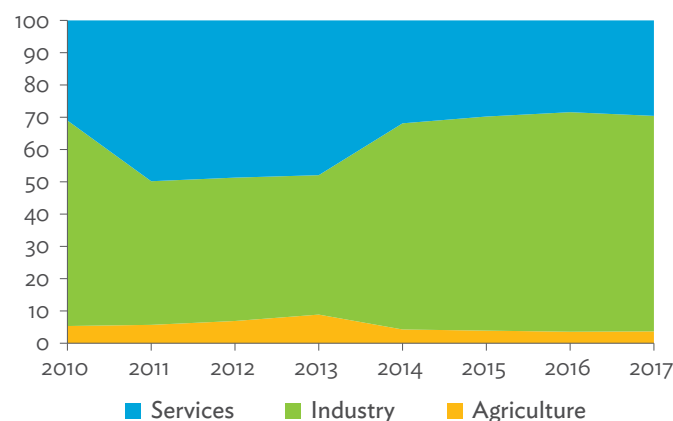


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

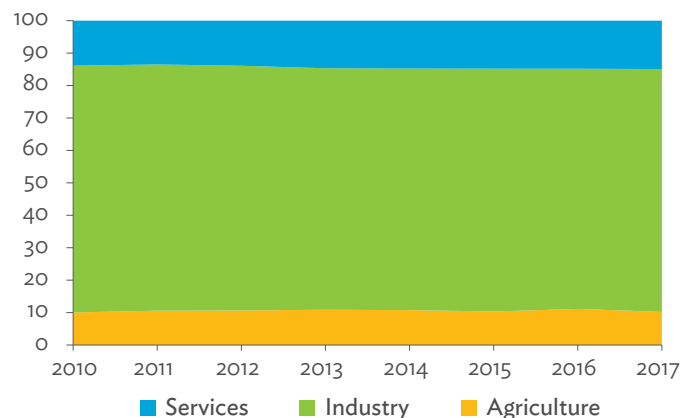
**Figure 1.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

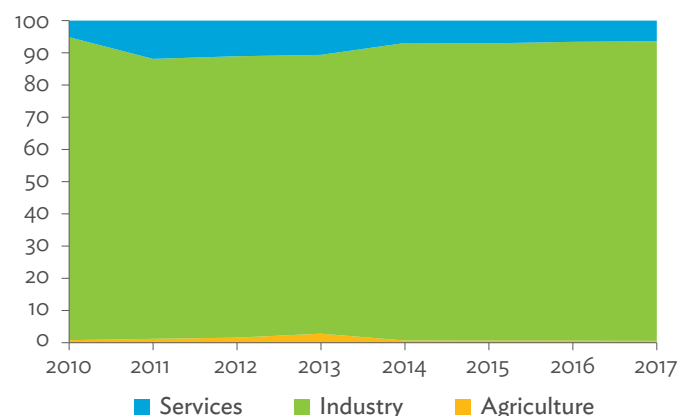
**Figure 1.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

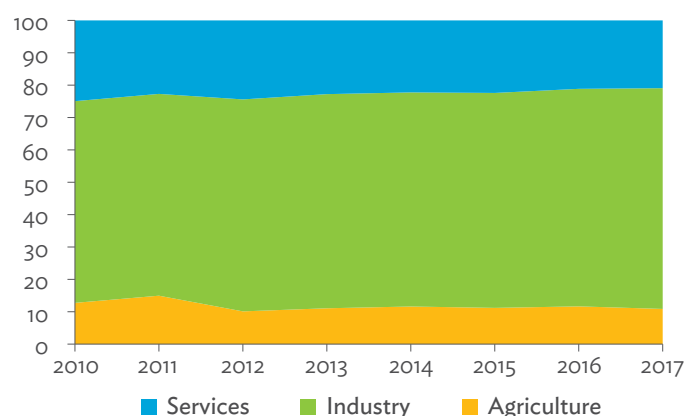
**Figure 1.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

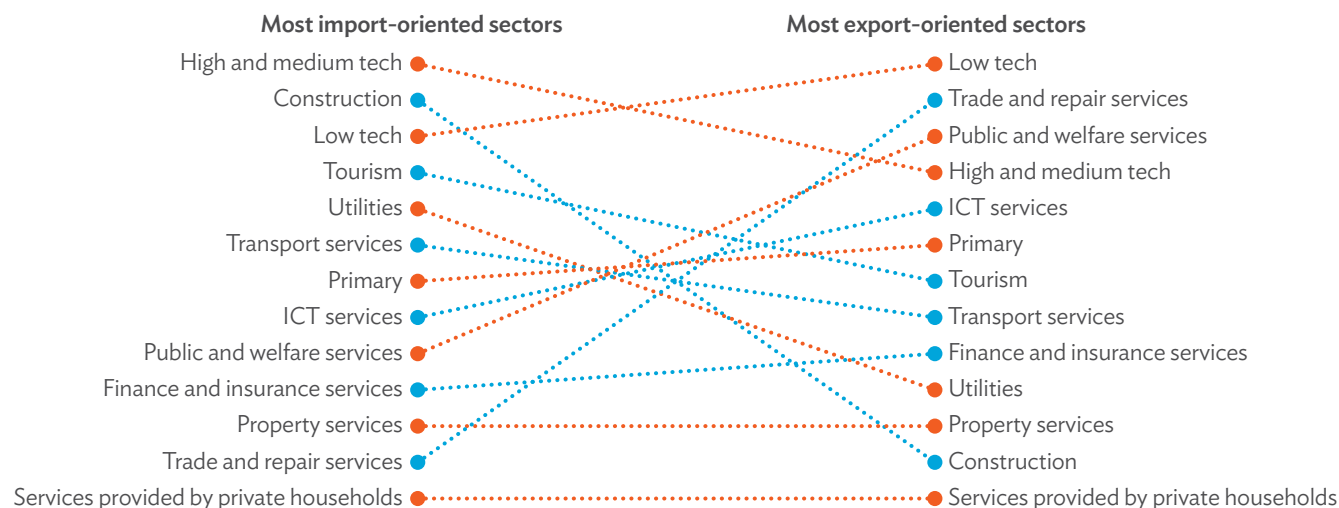
**Figure 1.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

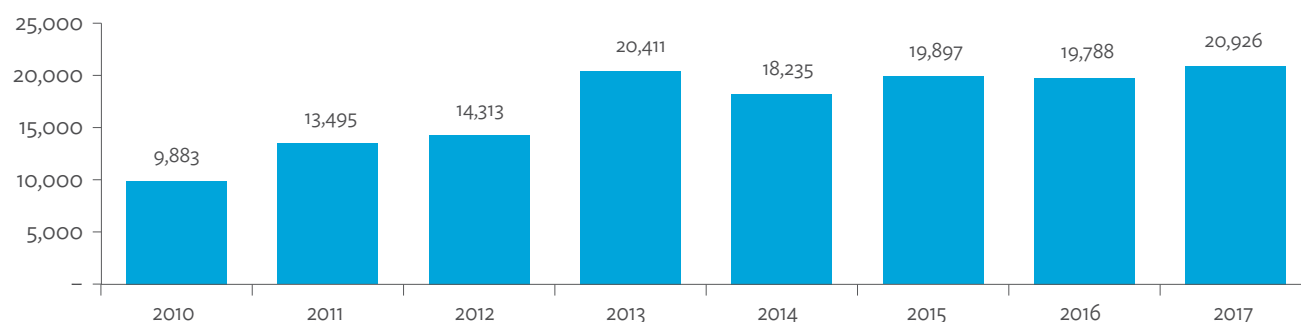


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

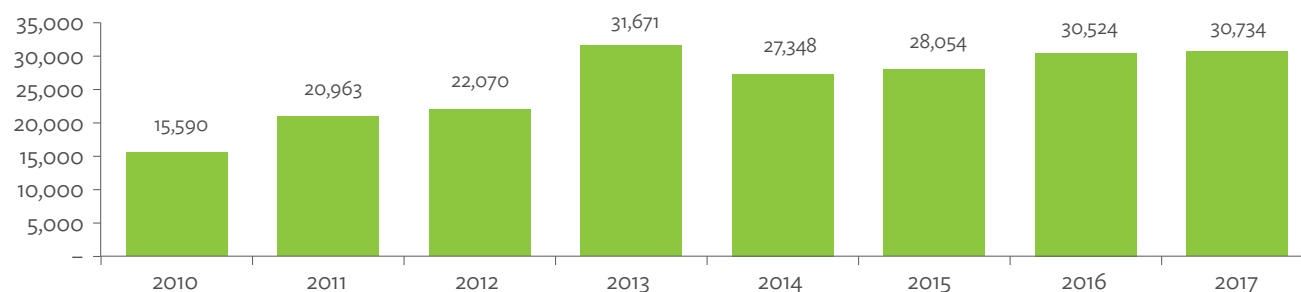


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

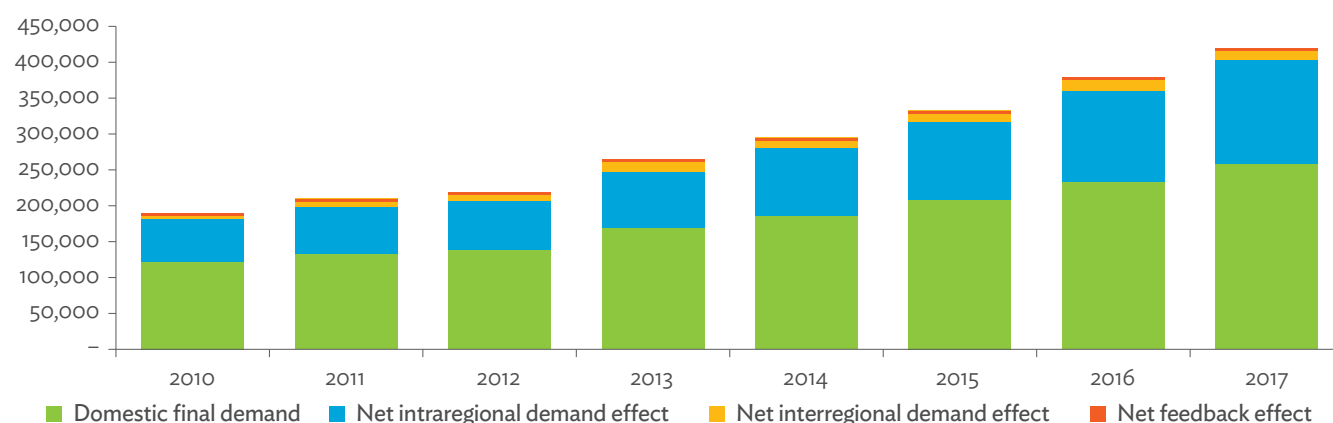


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

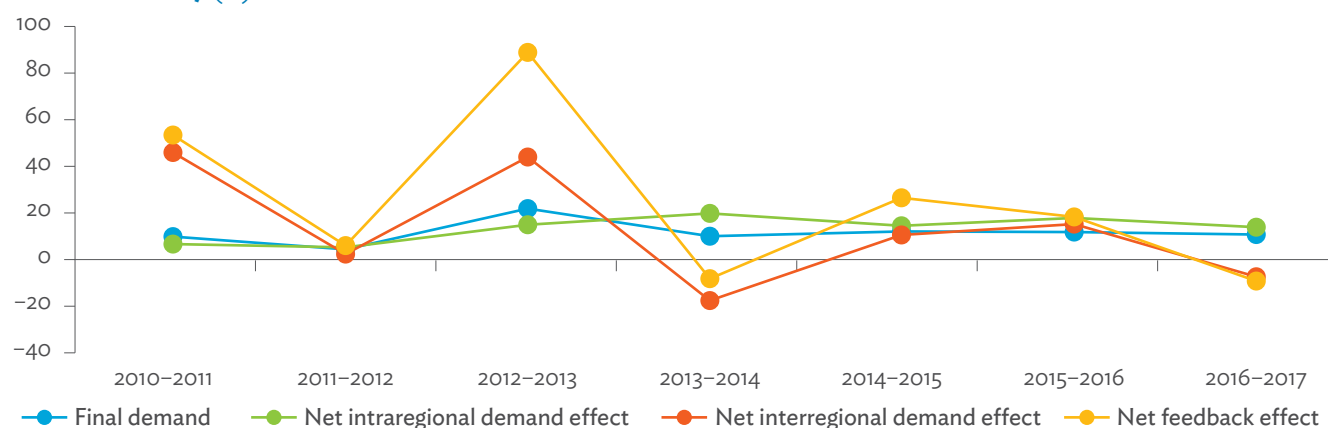


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

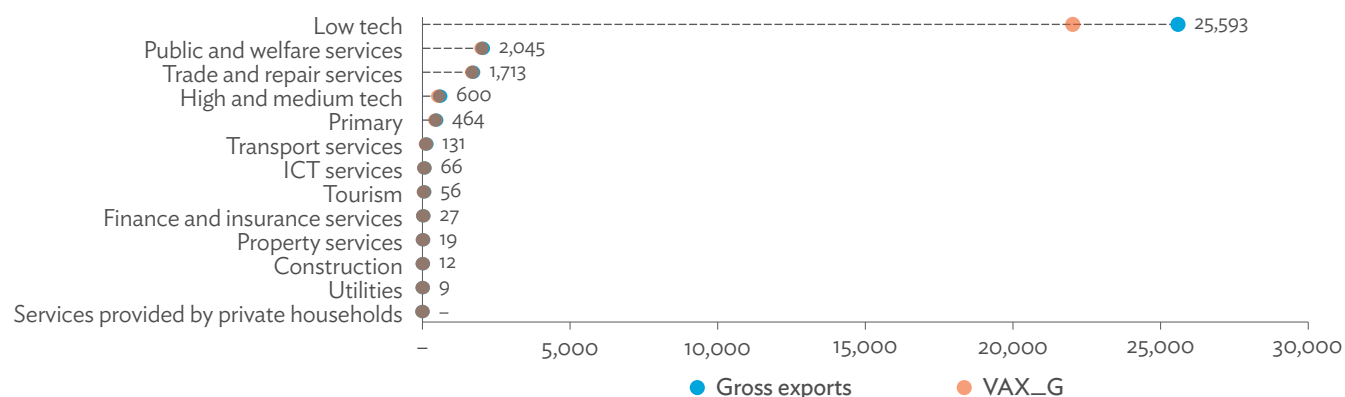
**Figure 1.3.13: Growth Rates of Production Components Based on Two-Region Input-Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**



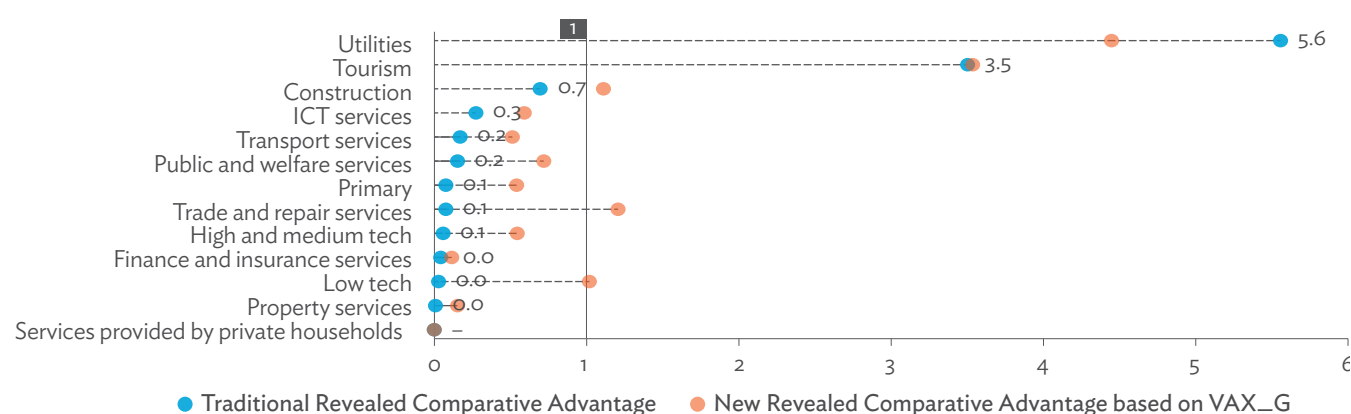
\$ = United States dollar.

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 1.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	17,495	19,004	19,035	22,353	23,636	25,638	26,747	28,379
Low tech	45,253	50,213	53,408	65,967	73,876	83,287	95,105	106,180
High and medium tech	5,512	6,212	6,339	7,854	8,176	9,100	10,494	11,978
Business service	32,637	37,073	37,884	45,400	48,978	55,070	60,574	67,065
Personal service	20,391	20,743	22,425	27,939	31,840	35,918	40,779	45,206
Intraregional effects (M1)								
Primary	10,864	11,513	11,861	13,362	15,756	17,115	19,882	21,874
Low tech	18,759	20,520	21,387	24,792	29,673	35,617	42,473	50,003
High and medium tech	6,222	6,659	7,081	8,393	10,405	12,007	13,915	15,766
Business service	18,873	20,098	21,580	24,717	29,652	33,371	38,617	43,253
Personal service	6,114	6,090	6,379	7,227	8,562	9,573	12,024	13,647

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	695	973	1,061	1,751	1,084	1,116	1,252	1,114
Low tech	4,353	5,040	5,119	7,031	7,764	8,972	10,596	9,864
High and medium tech	219	263	287	537	361	391	435	403
Business service	2,107	3,719	3,753	5,080	3,076	3,240	3,589	3,319
Personal service	571	1,598	1,647	2,690	1,800	1,854	2,073	1,922
Feedback effects (M3)								
Primary	0.51	0.82	0.88	1.72	1.27	1.48	1.70	1.48
Low tech	4.08	5.80	6.10	11.10	11.43	14.81	17.73	16.29
High and medium tech	0.13	0.18	0.20	0.46	0.37	0.46	0.53	0.47
Business service	1.06	1.81	1.95	3.72	2.89	3.52	4.03	3.56
Personal service	0.27	0.68	0.73	1.60	1.12	1.34	1.58	1.42

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 1.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3203	0.3139	0.3125	0.2932	0.3183	0.3229	0.3432	0.3474
Mining and quarrying	0.1406	0.1389	0.1387	0.1291	0.1358	0.1378	0.1489	0.1501
Food, beverages, and tobacco	0.9161	0.8881	0.8847	0.8410	0.8913	0.9046	0.9429	0.9566
Textiles and textile products	1.0756	1.0386	1.0339	0.9812	1.0497	1.0828	1.1397	1.1749
Leather, leather products, and footwear	0.8885	0.8694	0.8672	0.8340	0.8737	0.8920	0.9300	0.9517
Wood and products of wood and cork	0.7037	0.6809	0.6829	0.6467	0.6846	0.6941	0.7234	0.7319
Pulp, paper, paper products, printing, and publishing	0.7285	0.6963	0.6918	0.6600	0.7339	0.7475	0.7839	0.7926
Coke, refined petroleum, and nuclear fuel	0.8842	0.8485	0.8435	0.7755	0.8731	0.8863	0.9124	0.9126
Chemicals and chemical products	0.5428	0.5224	0.5198	0.4830	0.5368	0.5464	0.5797	0.5878
Rubber and plastics	0.7874	0.7630	0.7596	0.7254	0.7742	0.7888	0.8239	0.8369
Other nonmetallic minerals	0.5750	0.5636	0.5623	0.5438	0.5711	0.5787	0.5996	0.6040
Basic metals and fabricated metal	0.9781	0.9237	0.9168	0.8663	0.9673	0.9859	1.0302	1.0401
Machinery, nec	0.7002	0.6641	0.6582	0.5971	0.6747	0.6901	0.7320	0.7414
Electrical and optical equipment	0.5912	0.5664	0.5660	0.5002	0.5316	0.5432	0.5751	0.5803
Transport equipment	0.3112	0.3030	0.3017	0.2757	0.3015	0.3083	0.3287	0.3335
Manufacturing, nec; recycling	0.7897	0.7702	0.7679	0.7389	0.7820	0.7949	0.8245	0.8358
Electricity, gas, and water supply	0.4960	0.4921	0.4935	0.4662	0.4979	0.5056	0.5312	0.5356
Construction	0.8134	0.7949	0.7917	0.7611	0.8264	0.8428	0.8733	0.8801
Sale, maintenance, and repair	0.1859	0.1840	0.1839	0.1822	0.1842	0.1849	0.1872	0.1874
Wholesale trade and commission trade	0.2197	0.2147	0.2167	0.2070	0.2188	0.2217	0.2288	0.2310
Retail trade	0.2239	0.2209	0.2206	0.2169	0.2237	0.2262	0.2297	0.2306
Hotels and restaurants	0.8764	0.8547	0.8554	0.8166	0.8620	0.8746	0.9061	0.9169
Inland transport	0.3381	0.3369	0.3370	0.3087	0.3267	0.3338	0.3482	0.3506
Water transport	0.4236	0.4148	0.4153	0.3572	0.3665	0.3765	0.4002	0.4012
Air transport	0.8262	0.7802	0.7871	0.6927	0.7631	0.7865	0.8272	0.8214
Other supporting and auxiliary transport activities	0.3201	0.3134	0.3133	0.2912	0.3075	0.3127	0.3251	0.3226
Post and telecommunications	0.3931	0.3862	0.3856	0.3607	0.3749	0.3789	0.3946	0.3950
Financial intermediation	0.3650	0.3592	0.3608	0.3500	0.3647	0.3667	0.3759	0.3741
Real estate activities	0.1208	0.1197	0.1194	0.1057	0.1042	0.1065	0.1168	0.1182
Renting of M&Eq and other business activities	0.2597	0.2572	0.2548	0.2354	0.2427	0.2479	0.2652	0.2706
Public administration and defense; compulsory social security	0.2896	0.2859	0.2849	0.2746	0.2903	0.2937	0.3070	0.3084
Education	0.1827	0.1802	0.1799	0.1652	0.1731	0.1761	0.1900	0.1928
Health and social work	0.2481	0.2383	0.2382	0.1924	0.2384	0.2468	0.2789	0.2885
Other community, social, and personal services	0.1715	0.2472	0.2499	0.1658	0.1694	0.1718	0.1831	0.1847
Private households with employed persons	0.1715	0.1622	0.1622	0.1553	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 1.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.1439	0.1836	0.1928	0.2257	0.1824	0.1770	0.1562	0.1495
Mining and quarrying	0.0597	0.0766	0.0763	0.0945	0.0788	0.0771	0.0701	0.0663
Food, beverages, and tobacco	0.2922	0.3657	0.3754	0.4423	0.3588	0.3491	0.3049	0.2943
Textiles and textile products	0.3856	0.4796	0.4889	0.5565	0.4425	0.4391	0.3904	0.3805
Leather, leather products, and footwear	0.2231	0.2828	0.2897	0.3351	0.2608	0.2570	0.2278	0.2215
Wood and products of wood and cork	0.2370	0.3059	0.3061	0.3645	0.2974	0.2890	0.2514	0.2413
Pulp, paper, paper products, printing, and publishing	0.4090	0.5091	0.5198	0.5794	0.4493	0.4375	0.3828	0.3604
Coke, refined petroleum, and nuclear fuel	0.3466	0.4303	0.4317	0.5584	0.4107	0.4039	0.3521	0.3318
Chemicals and chemical products	0.3289	0.4128	0.4225	0.4829	0.3811	0.3704	0.3254	0.3063
Rubber and plastics	0.2880	0.3617	0.3692	0.4244	0.3362	0.3291	0.2900	0.2755
Other nonmetallic minerals	0.1639	0.2051	0.2084	0.2287	0.1735	0.1693	0.1484	0.1410
Basic metals and fabricated metal	0.5536	0.6708	0.6884	0.7976	0.6443	0.6308	0.5511	0.5211
Machinery, nec	0.4951	0.6038	0.6177	0.7379	0.6096	0.5960	0.5226	0.4946
Electrical and optical equipment	0.3063	0.3883	0.3893	0.5262	0.4650	0.4544	0.3972	0.3752
Transport equipment	0.1803	0.2276	0.2328	0.2814	0.2323	0.2272	0.2010	0.1905
Manufacturing, nec; recycling	0.2388	0.3008	0.3072	0.3551	0.2832	0.2773	0.2434	0.2336
Electricity, gas, and water supply	0.2421	0.2664	0.2608	0.3139	0.2563	0.2515	0.2234	0.2111
Construction	0.3440	0.4310	0.4265	0.4960	0.3961	0.3889	0.3395	0.3225
Sale, maintenance, and repair	0.0199	0.0244	0.0260	0.0317	0.0267	0.0259	0.0223	0.0212
Wholesale trade and commission trade	0.0713	0.0966	0.0937	0.1092	0.0883	0.0856	0.0741	0.0707
Retail trade	0.0431	0.0561	0.0557	0.0650	0.0517	0.0508	0.0438	0.0418
Hotels and restaurants	0.2678	0.3339	0.3350	0.3934	0.3188	0.3106	0.2704	0.2591
Inland transport	0.1440	0.1831	0.1785	0.2268	0.1953	0.1923	0.1670	0.1586
Water transport	0.1757	0.2194	0.2179	0.3097	0.2900	0.2838	0.2491	0.2342
Air transport	0.5290	0.6427	0.6274	0.8022	0.6808	0.6656	0.5710	0.5299
Other supporting and auxiliary transport activities	0.1417	0.1763	0.1714	0.2198	0.1894	0.1844	0.1604	0.1500
Post and telecommunications	0.1164	0.1462	0.1468	0.1908	0.1661	0.1607	0.1406	0.1329
Financial intermediation	0.1039	0.1298	0.1216	0.1414	0.1123	0.1087	0.0945	0.0889
Real estate activities	0.0245	0.0295	0.0315	0.0500	0.0485	0.0478	0.0441	0.0416
Renting of M&Eq and other business activities	0.0748	0.0865	0.0987	0.1361	0.1214	0.1185	0.1060	0.1020
Public administration and defense; compulsory social security	0.1011	0.1269	0.1311	0.1535	0.1231	0.1196	0.1061	0.1004
Education	0.0709	0.0890	0.0894	0.1158	0.0997	0.0969	0.0875	0.0834
Health and social work	0.3138	0.4049	0.4090	0.4816	0.3896	0.3761	0.3335	0.3191
Other community, social, and personal services	0.0522	0.1319	0.1245	0.0836	0.0655	0.0638	0.0575	0.0547
Private households with employed persons	0.0515	0.0670	0.0659	0.0794	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 1.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Textiles and textile products	0.0003	0.0004	0.0004	0.0007	0.0006	0.0006	0.0007	0.0005
Leather, leather products, and footwear	0.0001	0.0001	0.0001	0.0002	0.0001	0.0002	0.0002	0.0001
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0001	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0001	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0001	0.0000	0.0001	0.0001	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 13.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	331	311	581	538	749	691	687	540	483	448	473	440	487	456	464	436
Low tech	13,022	11,092	14,813	12,120	15,656	12,780	21,578	17,350	22,397	18,727	23,050	19,333	25,273	21,641	25,593	22,028
High and medium tech	268	236	292	250	379	323	551	361	525	454	540	470	592	525	600	535
Utilities	1	1	2	2	10	8	11	7	8	8	8	7	9	9	9	8
Construction	1	1	3	1	1	1	13	10	10	9	11	9	12	10	12	11
Trade and repair services	1,221	1,196	2,332	2,272	2,372	2,312	2,717	2,633	1,632	1,597	1,644	1,610	1,721	1,689	1,713	1,683
Tourism	18	16	77	66	75	65	99	66	51	44	53	46	57	50	56	50
Transport services	179	166	194	124	699	634	249	144	128	112	130	114	138	123	131	118
ICT services	145	138	123	106	97	82	106	86	73	68	70	65	70	66	66	62
Finance and insurance services	14	14	22	19	20	17	26	17	24	23	25	24	27	26	27	26
Property services	0	0	5	5	9	8	14	13	17	16	17	17	19	18	19	18
Public and welfare services	393	384	1,738	1,690	1,793	1,745	2,764	2,654	1,998	1,946	2,033	1,981	2,119	2,070	2,045	2,000
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 13.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.20	0.80	0.23	0.66	0.28	0.67	0.21	0.79	0.16	0.72	0.17	0.74	0.17	0.76	0.15	0.72
Low tech	5.79	4.45	4.99	3.86	5.03	3.79	4.46	3.42	5.51	4.11	5.49	4.24	5.55	4.31	5.56	4.45
High and medium tech	0.04	0.10	0.03	0.09	0.04	0.10	0.07	0.14	0.04	0.12	0.04	0.12	0.04	0.12	0.04	0.11
Utilities	0.01	0.58	0.02	0.48	0.20	0.51	0.99	0.59	0.07	0.59	0.06	0.55	0.05	0.58	0.06	0.55
Construction	0.06	0.95	0.07	1.17	0.07	1.11	0.07	2.12	0.07	1.29	0.07	1.42	0.06	1.25	0.08	1.21
Trade and repair services	1.00	1.40	0.99	1.57	0.90	1.52	0.80	1.33	0.76	1.25	0.73	1.20	0.70	1.13	0.70	1.11
Tourism	0.11	0.53	0.20	0.58	0.18	0.57	0.19	0.64	0.17	0.53	0.17	0.51	0.15	0.50	0.17	0.51
Transport services	0.11	0.64	0.11	0.92	0.10	0.85	0.09	0.83	0.08	0.57	0.08	0.55	0.08	0.57	0.08	0.54
ICT services	0.38	1.21	0.37	1.40	0.32	1.31	0.38	1.11	0.38	0.91	0.35	0.82	0.31	0.74	0.27	0.59
Finance and insurance services	0.03	0.95	0.03	0.91	0.03	1.00	0.03	1.03	0.03	1.06	0.03	1.01	0.03	1.00	0.03	1.02
Property services	0.00	0.16	0.00	0.15	0.01	0.15	0.01	0.22	0.01	0.16	0.01	0.15	0.01	0.15	0.01	0.15
Public and welfare services	2.91	2.40	2.60	2.73	2.59	3.02	2.78	3.10	3.84	3.79	3.64	3.59	3.28	3.45	3.50	3.54
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

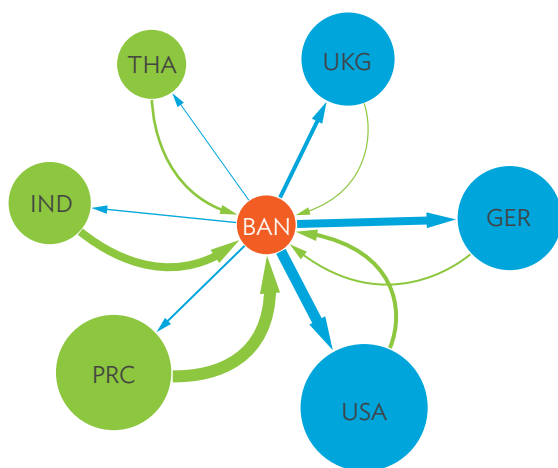
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 1.4

## GLOBAL VALUE CHAIN INDICATORS

### Bangladesh

**Figure 1.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



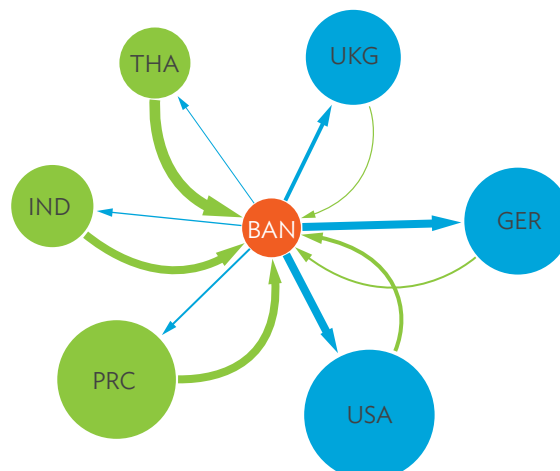
● Economy in focus ● Import partner ● Export partner

BAN = Bangladesh, GER = Germany, IND = India, PRC = People's Republic of China, THA = Thailand, UKG = United Kingdom, USA = United States. Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 1.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



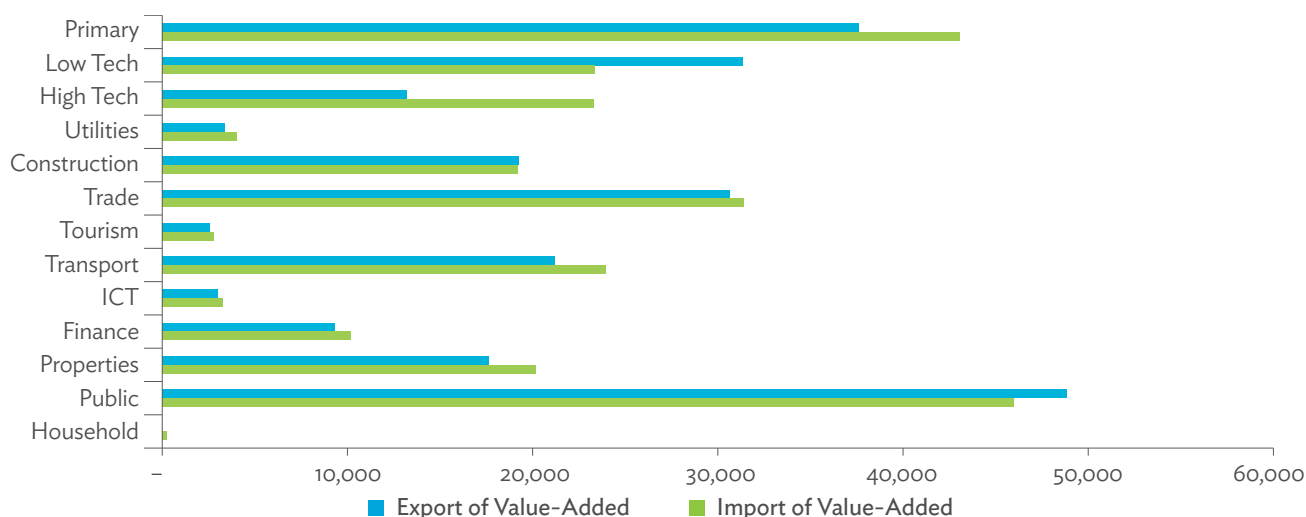
● Economy in focus ● Import partner ● Export partner

BAN = Bangladesh, GER = Germany, IND = India, PRC = People's Republic of China, THA = Thailand, UKG = United Kingdom, USA = United States. Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

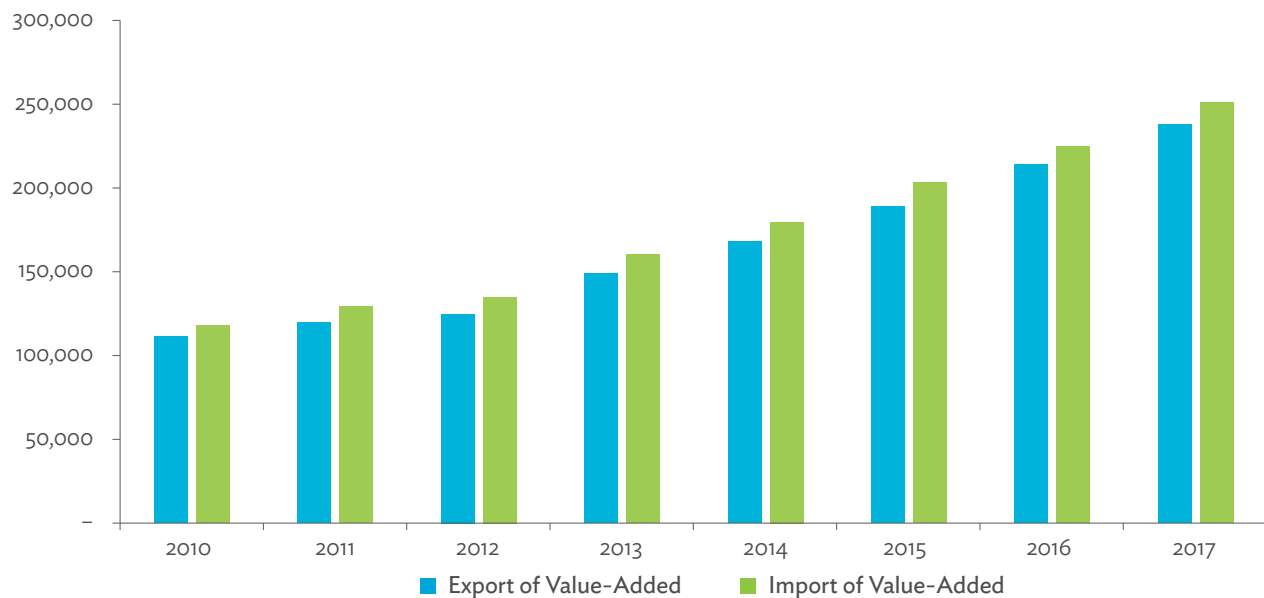
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**Figure 1.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology. Source: Asian Development Bank Multi-Regional Input-Output Database.

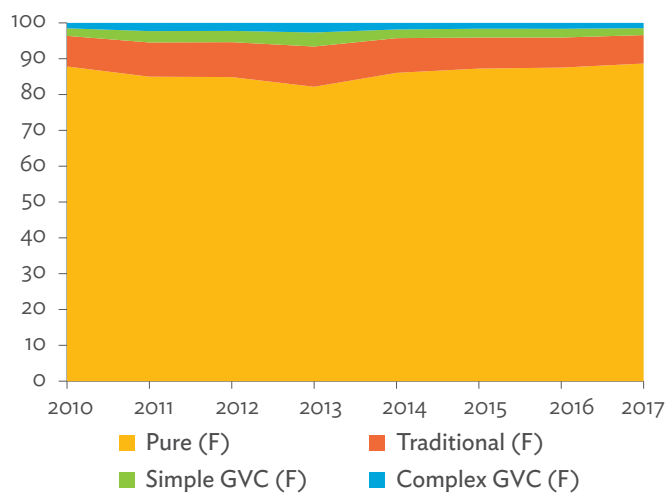
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**Figure 1.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

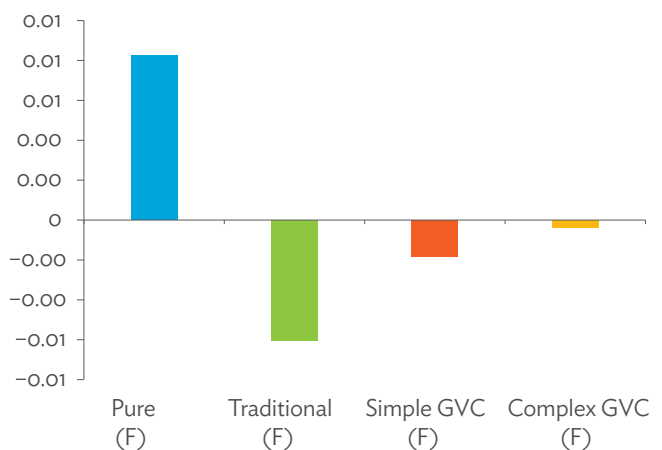
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**Figure 1.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

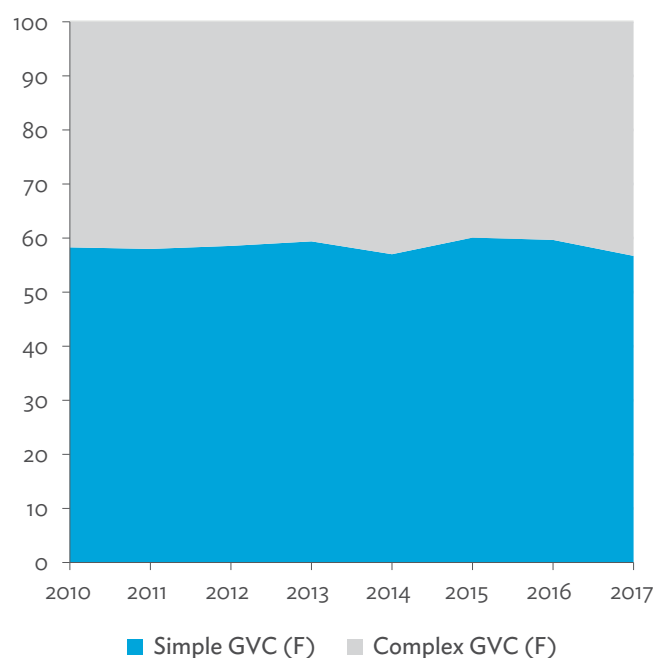
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

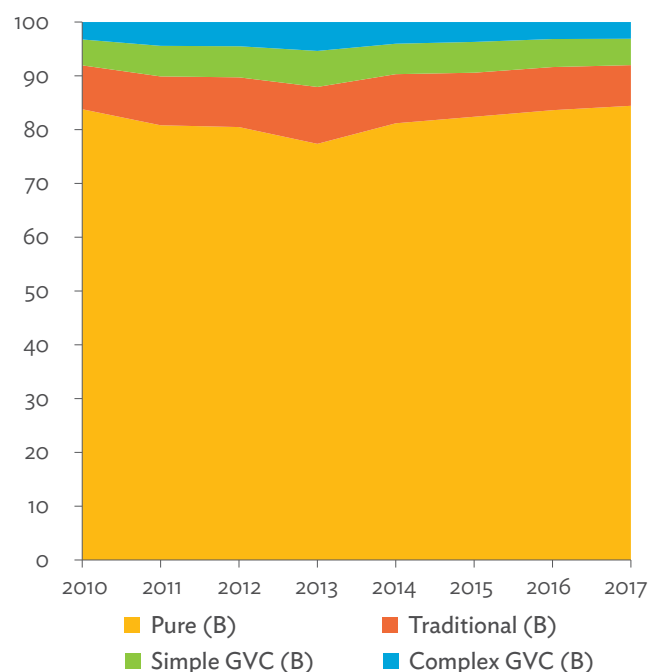


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

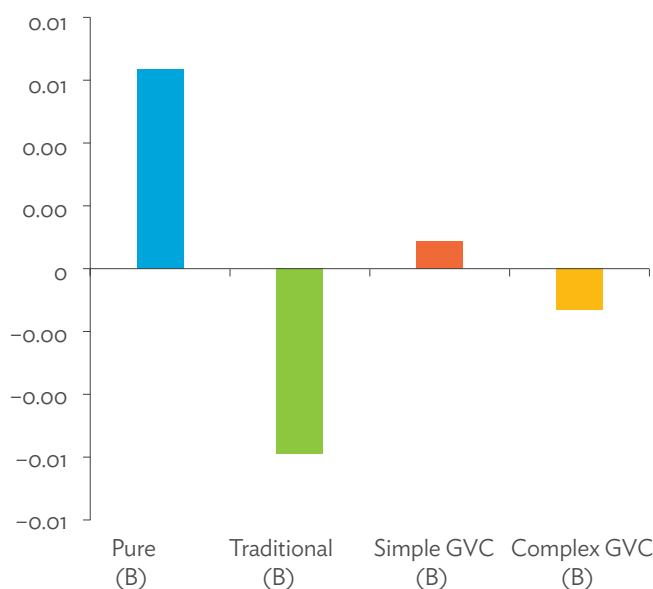


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



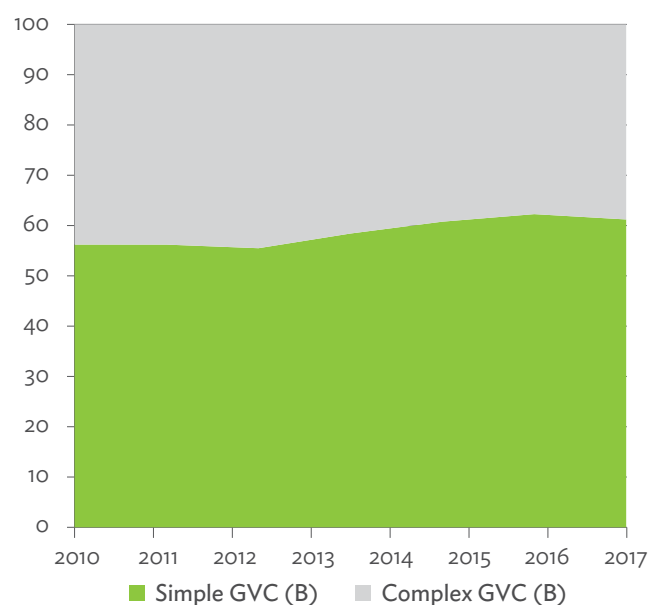
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages, 2010–2017 (%)**

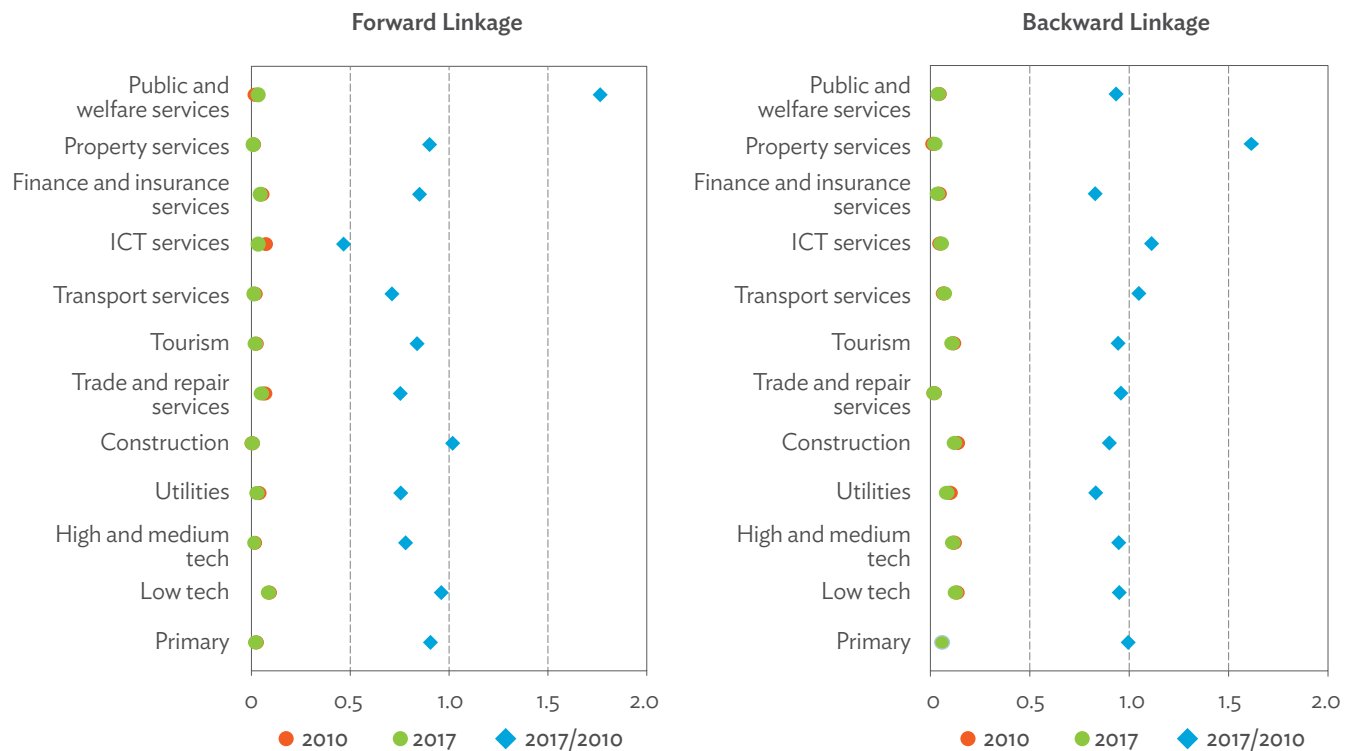


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

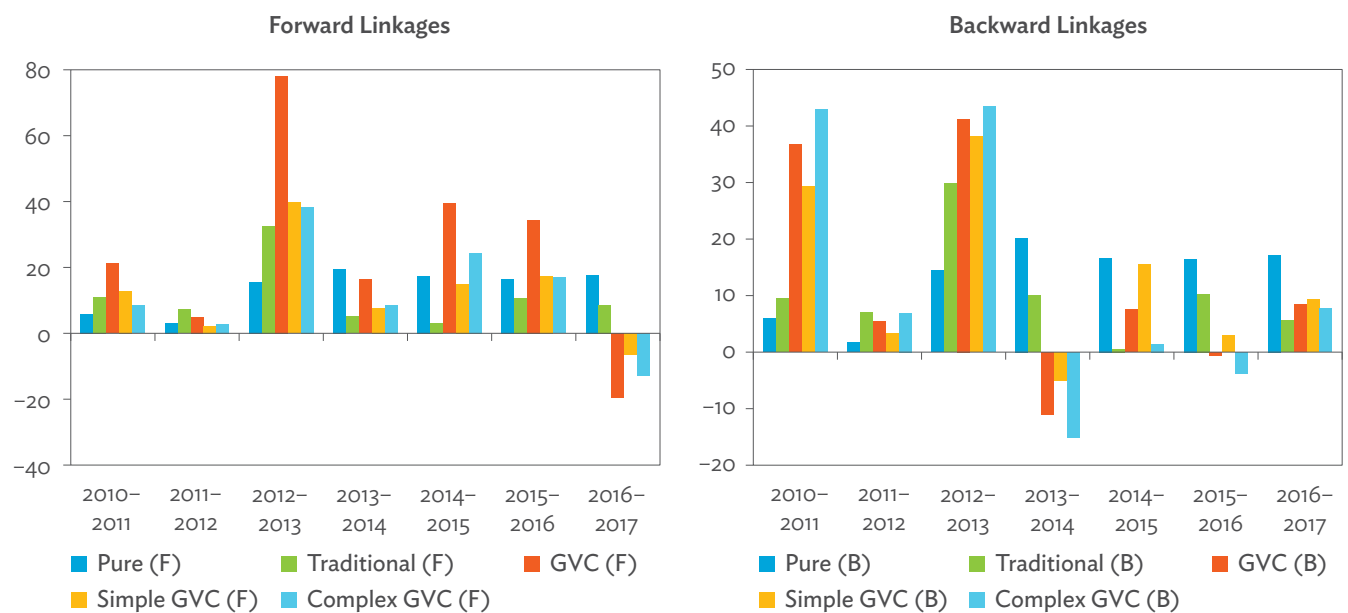


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 1.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

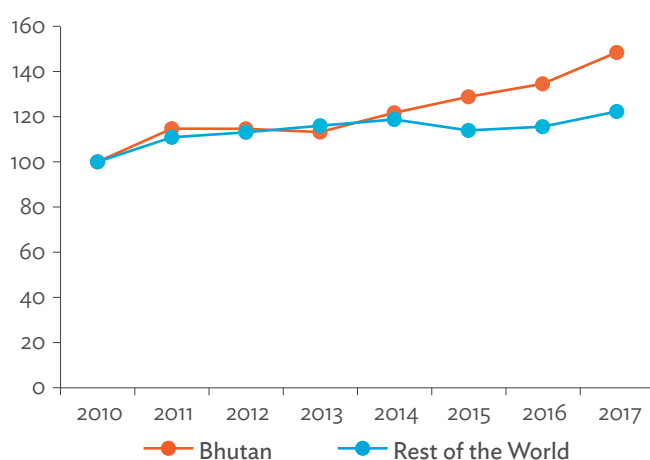
[Click here for figure data](#)

# 2.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Bhutan

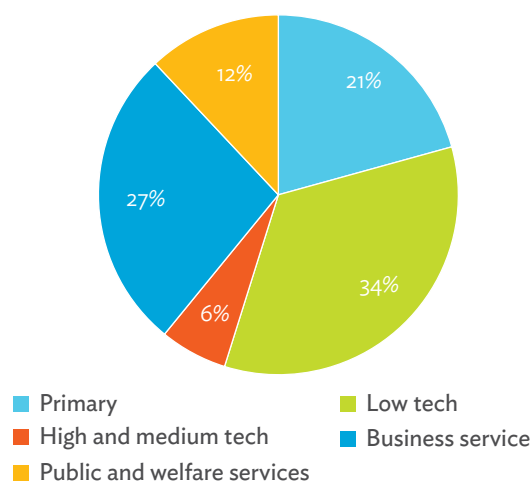
**Figure 2.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

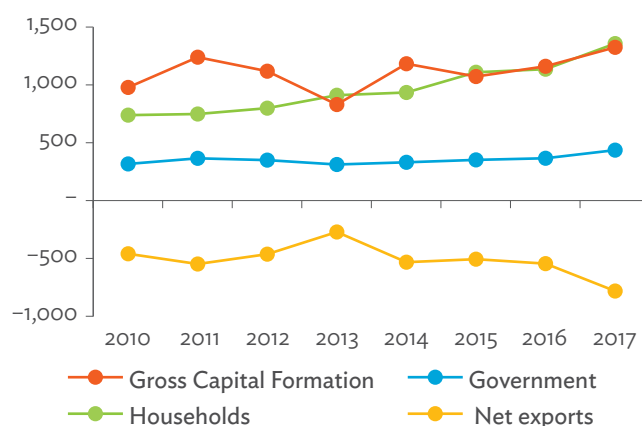
**Figure 2.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

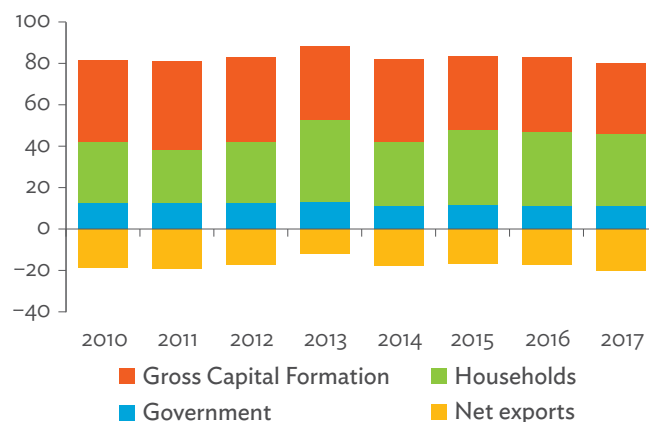


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**

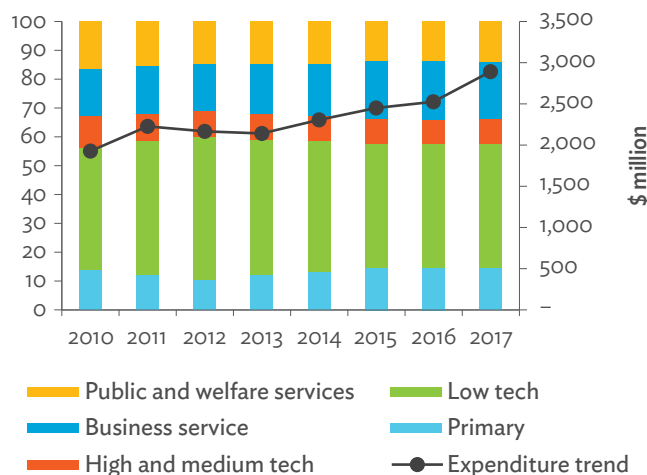


Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 2.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

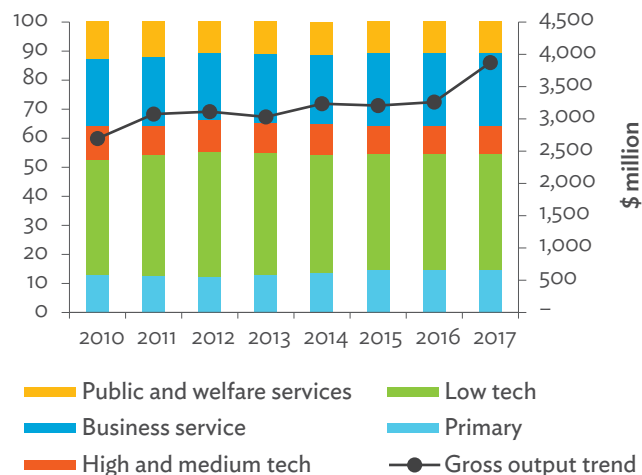


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

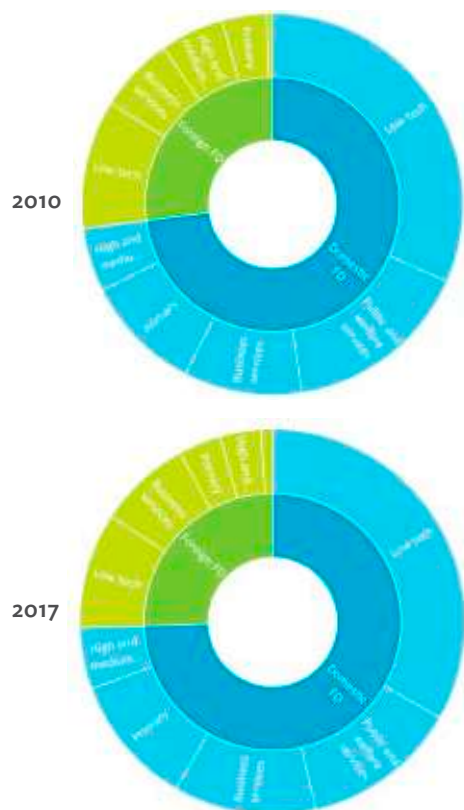


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

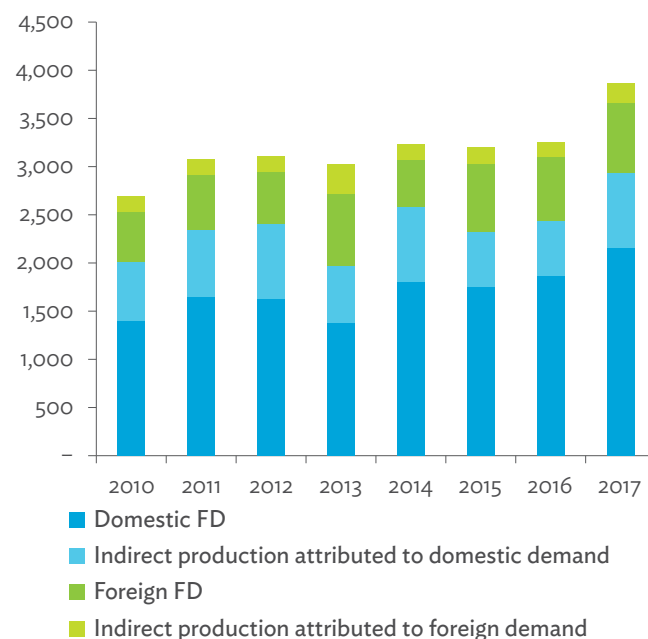


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

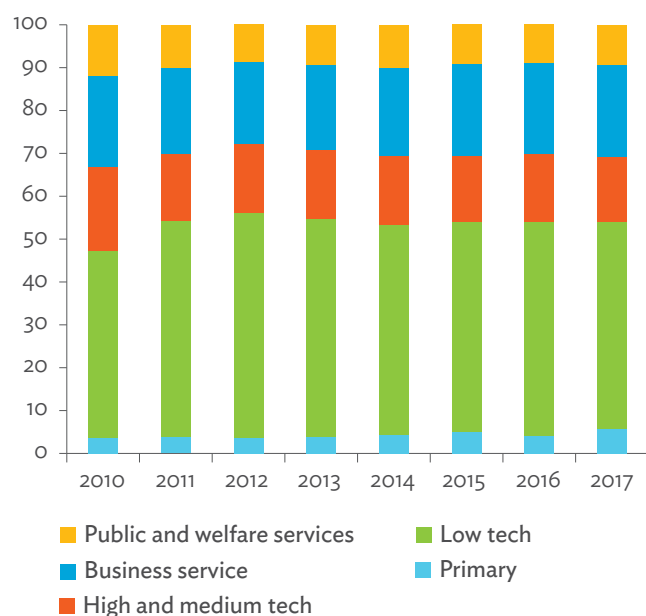


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

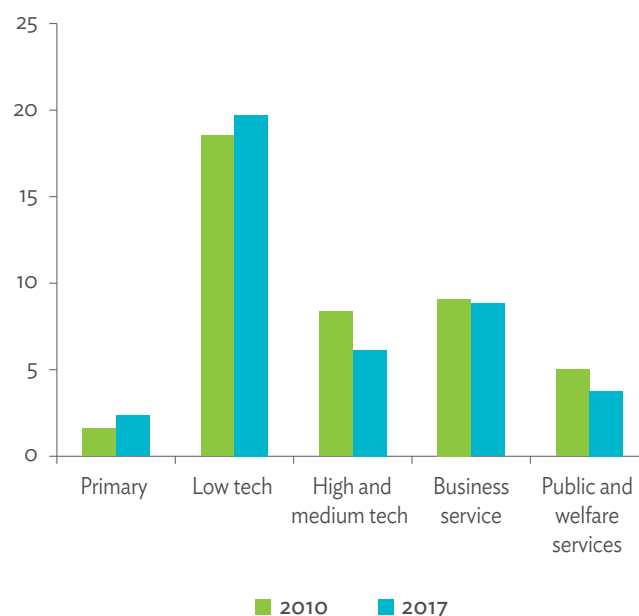
**Figure 2.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

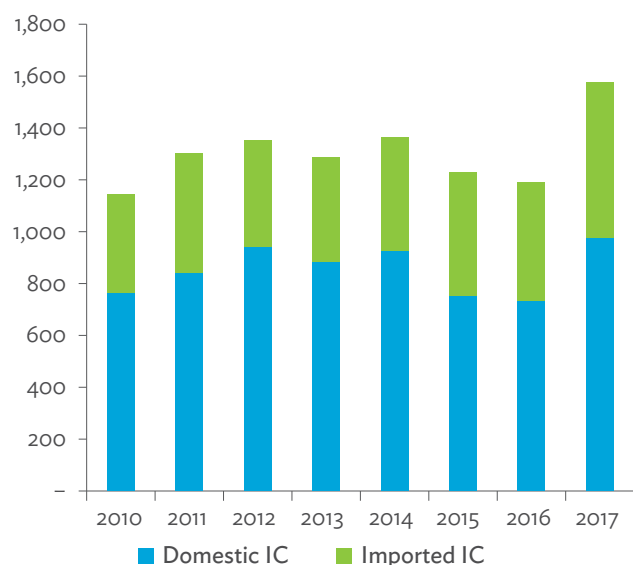
**Figure 2.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

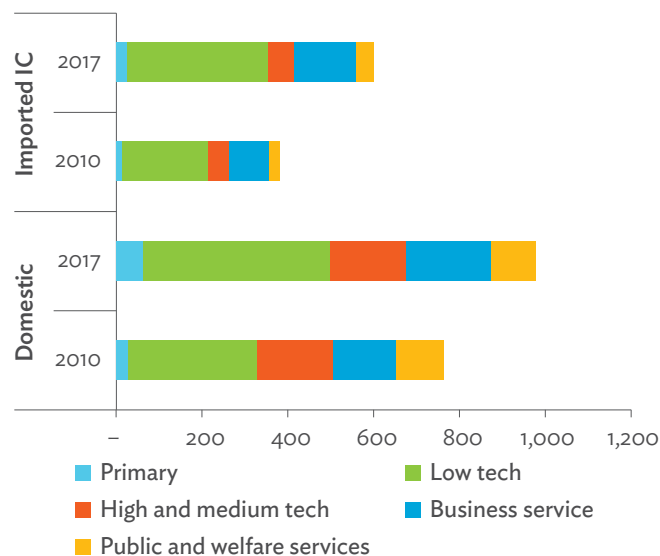


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

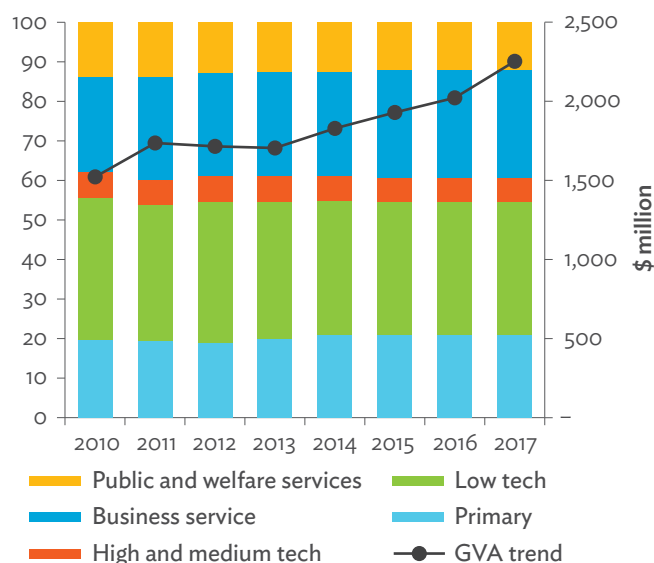


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

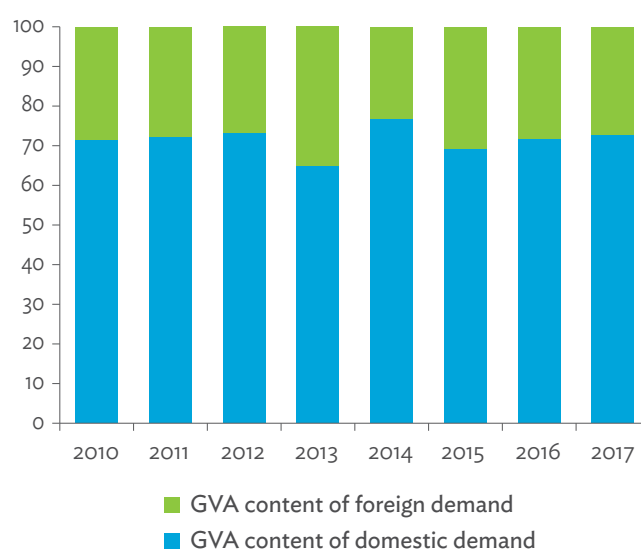


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

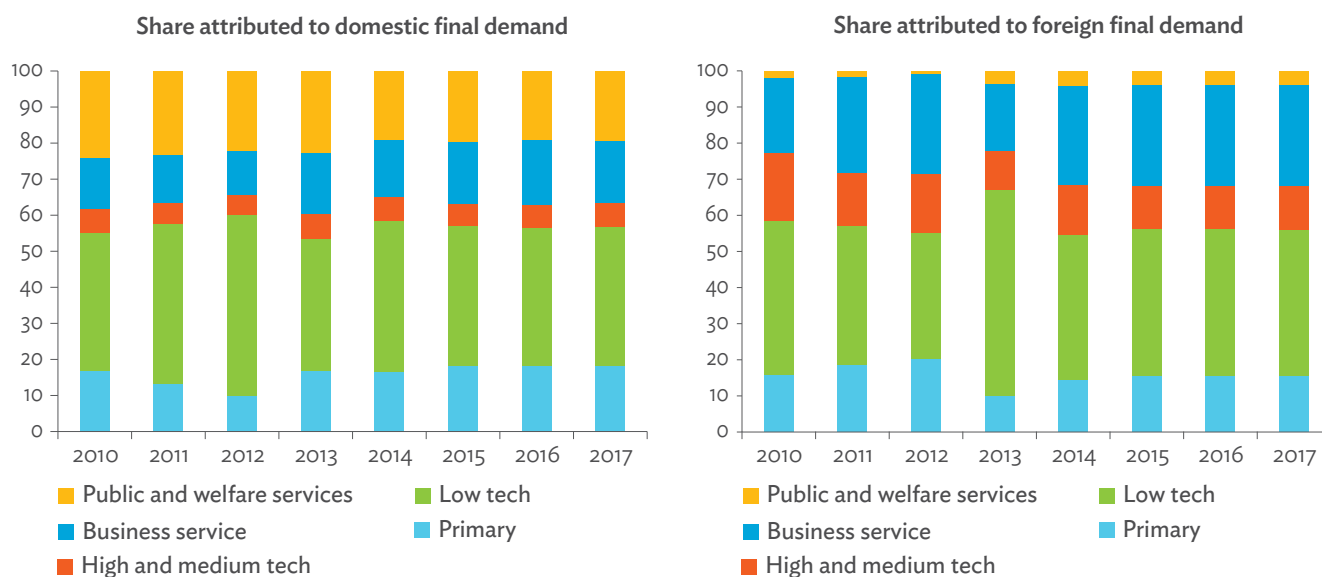


GVA=gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 2.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.954	0.959	0.961	0.964	0.965	0.957	0.969	0.944
Mining and quarrying	0.892	0.861	0.857	0.877	0.886	0.892	0.906	0.884
Food, beverages, and tobacco	0.749	0.742	0.777	0.776	0.769	0.739	0.749	0.729
Textiles and textile products	0.636	0.773	0.797	0.799	0.795	0.782	0.792	0.777
Leather, leather products, and footwear	0.636	0.775	0.797	0.800	0.798	0.784	0.794	0.775
Wood and products of wood and cork	0.819	0.809	0.840	0.827	0.814	0.793	0.802	0.776
Pulp, paper, paper products, printing, and publishing	0.645	0.632	0.673	0.680	0.677	0.635	0.647	0.636
Coke, refined petroleum, and nuclear fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chemicals and chemical products	0.764	0.753	0.772	0.803	0.825	0.806	0.821	0.803
Rubber and plastics	0.586	0.546	0.590	0.603	0.602	0.555	0.568	0.561
Other nonmetallic minerals	0.835	0.877	0.883	0.890	0.891	0.883	0.895	0.878
Basic metals and fabricated metal	0.669	0.653	0.687	0.697	0.697	0.660	0.674	0.665
Machinery, nec	0.669	0.651	0.687	0.698	0.701	0.663	0.677	0.668
Electrical and optical equipment	0.669	0.653	0.687	0.698	0.699	0.661	0.676	0.667
Transport equipment	0.669	0.653	0.687	0.698	0.701	0.663	0.677	0.668
Manufacturing, nec; recycling	0.764	0.753	0.772	0.781	0.784	0.759	0.775	0.759
Electricity, gas, and water supply	0.888	0.933	0.932	0.939	0.940	0.929	0.947	0.913
Construction	0.671	0.653	0.697	0.688	0.666	0.641	0.653	0.640
Sale, maintenance, and repair	0.862	0.901	0.909	0.908	0.902	0.917	0.927	0.903
Wholesale trade and commission trade	0.862	0.899	0.909	0.905	0.897	0.910	0.921	0.896
Retail trade	0.862	0.901	0.909	0.910	0.906	0.916	0.927	0.902
Hotels and restaurants	0.814	0.850	0.881	0.888	0.891	0.895	0.905	0.882
Inland transport	0.718	0.701	0.710	0.719	0.719	0.683	0.697	0.680
Water transport	0.476	0.663	0.710	0.719	0.719	0.683	0.697	0.683
Air transport	0.433	0.431	0.450	0.470	0.475	0.406	0.419	0.420
Other supporting and auxiliary transport activities	0.857	0.929	0.936	0.937	0.939	0.928	0.941	0.927
Post and telecommunications	0.803	0.834	0.837	0.842	0.842	0.827	0.842	0.819
Financial intermediation	0.967	0.957	0.957	0.957	0.953	0.947	0.959	0.933
Real estate activities	0.773	0.973	0.975	0.971	0.964	0.958	0.978	0.938
Renting of M&Eq and other business activities	0.827	0.820	0.827	0.810	0.788	0.780	0.795	0.778
Public administration and defense; compulsory social security	0.864	0.863	0.864	0.857	0.844	0.839	0.854	0.826
Education	0.836	0.920	0.922	0.905	0.884	0.893	0.910	0.881
Health and social work	0.833	0.840	0.840	0.826	0.805	0.806	0.823	0.801
Other community, social, and personal services	0.795	0.799	0.814	0.830	0.838	0.797	0.810	0.793
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.044	0.038	0.035	0.032	0.032	0.039	0.027	0.054
Mining and quarrying	0.101	0.132	0.132	0.115	0.105	0.100	0.086	0.110
Food, beverages, and tobacco	0.241	0.247	0.210	0.212	0.217	0.245	0.236	0.260
Textiles and textile products	0.354	0.212	0.184	0.184	0.187	0.198	0.188	0.209
Leather, leather products, and footwear	0.354	0.210	0.184	0.183	0.184	0.196	0.186	0.211
Wood and products of wood and cork	0.173	0.182	0.150	0.164	0.176	0.195	0.186	0.216
Pulp, paper, paper products, printing, and publishing	0.332	0.344	0.297	0.293	0.294	0.331	0.319	0.340
Coke, refined petroleum, and nuclear fuel	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chemicals and chemical products	0.219	0.229	0.204	0.176	0.153	0.168	0.153	0.179
Rubber and plastics	0.380	0.421	0.368	0.360	0.358	0.398	0.386	0.406
Other nonmetallic minerals	0.157	0.110	0.101	0.096	0.094	0.100	0.088	0.110
Basic metals and fabricated metal	0.312	0.326	0.286	0.279	0.277	0.311	0.297	0.314
Machinery, nec	0.312	0.327	0.286	0.278	0.274	0.308	0.293	0.311
Electrical and optical equipment	0.312	0.326	0.286	0.278	0.276	0.309	0.295	0.312
Transport equipment	0.312	0.326	0.286	0.278	0.274	0.308	0.294	0.311
Manufacturing, nec; recycling	0.219	0.229	0.204	0.198	0.194	0.215	0.200	0.223
Electricity, gas, and water supply	0.109	0.063	0.061	0.056	0.054	0.065	0.048	0.083
Construction	0.306	0.324	0.275	0.287	0.305	0.328	0.316	0.338
Sale, maintenance, and repair	0.133	0.094	0.084	0.086	0.092	0.078	0.067	0.093
Wholesale trade and commission trade	0.133	0.096	0.084	0.090	0.097	0.085	0.074	0.100
Retail trade	0.133	0.094	0.084	0.085	0.088	0.079	0.068	0.094
Hotels and restaurants	0.177	0.143	0.110	0.105	0.102	0.098	0.088	0.113
Inland transport	0.270	0.287	0.273	0.265	0.264	0.299	0.285	0.307
Water transport	0.516	0.324	0.273	0.265	0.264	0.299	0.285	0.304
Air transport	0.545	0.544	0.516	0.500	0.492	0.558	0.546	0.554
Other supporting and auxiliary transport activities	0.135	0.063	0.053	0.054	0.052	0.061	0.049	0.065
Post and telecommunications	0.188	0.155	0.148	0.145	0.144	0.158	0.143	0.170
Financial intermediation	0.031	0.041	0.040	0.040	0.044	0.050	0.037	0.064
Real estate activities	0.222	0.025	0.023	0.028	0.034	0.040	0.020	0.060
Renting of M&Eq and other business activities	0.160	0.166	0.154	0.175	0.196	0.202	0.187	0.209
Public administration and defense; compulsory social security	0.128	0.129	0.125	0.134	0.146	0.149	0.136	0.166
Education	0.158	0.074	0.070	0.088	0.109	0.100	0.083	0.114
Health and social work	0.156	0.147	0.142	0.159	0.178	0.176	0.160	0.186
Other community, social, and personal services	0.192	0.186	0.167	0.155	0.148	0.185	0.172	0.194
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.080	1.070	1.073	1.068	1.081	1.076	1.054	1.104
Mining and quarrying	1.267	1.351	1.360	1.366	1.383	1.281	1.251	1.305
Food, beverages, and tobacco	1.573	1.591	1.626	1.626	1.635	1.562	1.548	1.585
Textiles and textile products	1.684	1.400	1.443	1.440	1.446	1.365	1.344	1.400
Leather, leather products, and footwear	1.684	1.403	1.443	1.439	1.448	1.368	1.347	1.397
Wood and products of wood and cork	1.679	1.701	1.723	1.706	1.706	1.629	1.613	1.648
Pulp, paper, paper products, printing, and publishing	1.548	1.570	1.631	1.636	1.643	1.547	1.535	1.575
Coke, refined petroleum, and nuclear fuel	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Chemicals and chemical products	1.696	1.745	1.781	1.809	1.844	1.759	1.731	1.775
Rubber and plastics	1.554	1.621	1.717	1.731	1.736	1.594	1.586	1.630
Other nonmetallic minerals	1.755	1.564	1.578	1.572	1.578	1.506	1.477	1.531
Basic metals and fabricated metal	1.574	1.610	1.674	1.670	1.669	1.572	1.554	1.597
Machinery, nec	1.574	1.608	1.674	1.670	1.672	1.577	1.559	1.602
Electrical and optical equipment	1.574	1.610	1.674	1.671	1.670	1.574	1.556	1.599
Transport equipment	1.574	1.610	1.674	1.671	1.672	1.577	1.559	1.602
Manufacturing, nec; recycling	1.696	1.745	1.781	1.776	1.781	1.692	1.667	1.712
Electricity, gas, and water supply	1.130	1.076	1.076	1.075	1.092	1.079	1.059	1.106
Construction	1.525	1.512	1.589	1.571	1.551	1.426	1.415	1.461
Sale, maintenance, and repair	1.420	1.318	1.334	1.327	1.333	1.245	1.219	1.272
Wholesale trade and commission trade	1.420	1.315	1.334	1.328	1.336	1.234	1.210	1.261
Retail trade	1.420	1.318	1.334	1.330	1.340	1.244	1.219	1.271
Hotels and restaurants	1.355	1.284	1.322	1.330	1.348	1.265	1.244	1.290
Inland transport	1.258	1.272	1.292	1.301	1.312	1.236	1.228	1.268
Water transport	1.171	1.228	1.292	1.301	1.312	1.236	1.228	1.272
Air transport	1.426	1.423	1.459	1.487	1.502	1.363	1.362	1.409
Other supporting and auxiliary transport activities	1.537	1.239	1.249	1.237	1.248	1.210	1.180	1.250
Post and telecommunications	1.488	1.395	1.416	1.405	1.407	1.341	1.316	1.367
Financial intermediation	1.089	1.121	1.124	1.113	1.120	1.107	1.082	1.135
Real estate activities	1.364	1.038	1.042	1.032	1.043	1.035	1.018	1.057
Renting of M&Eq and other business activities	1.439	1.454	1.464	1.439	1.427	1.323	1.305	1.353
Public administration and defense; compulsory social security	1.479	1.473	1.501	1.480	1.473	1.381	1.355	1.406
Education	1.436	1.207	1.208	1.193	1.194	1.127	1.108	1.154
Health and social work	1.420	1.401	1.403	1.384	1.376	1.273	1.253	1.301
Other community, social, and personal services	1.324	1.313	1.333	1.349	1.372	1.353	1.335	1.382
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

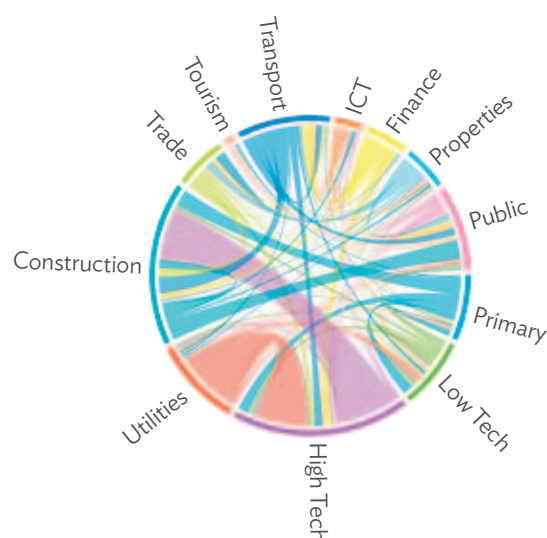
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 2.2

### Bhutan

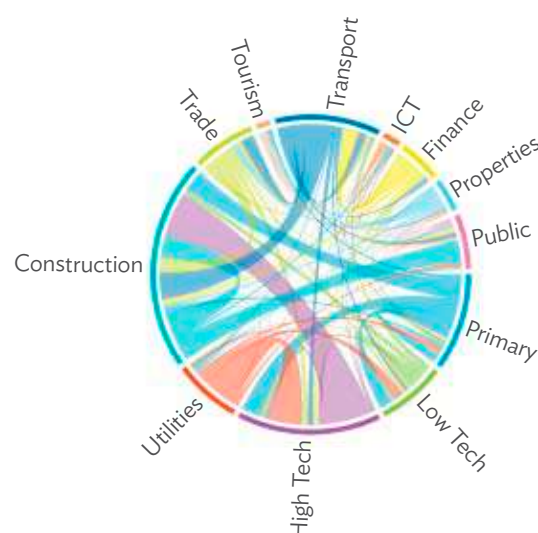
**Figure 2.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT=information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

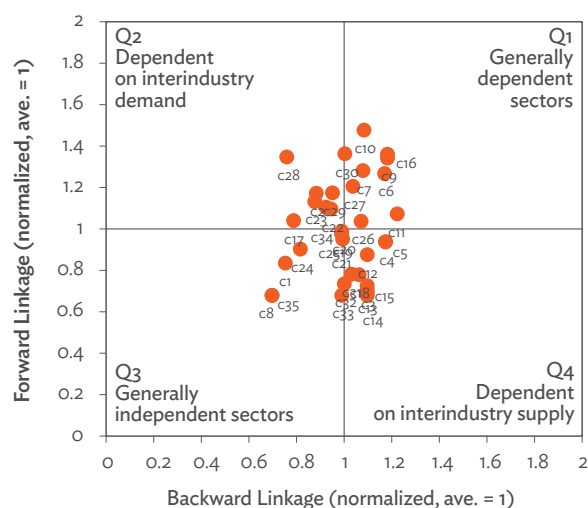
**Figure 2.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT=information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

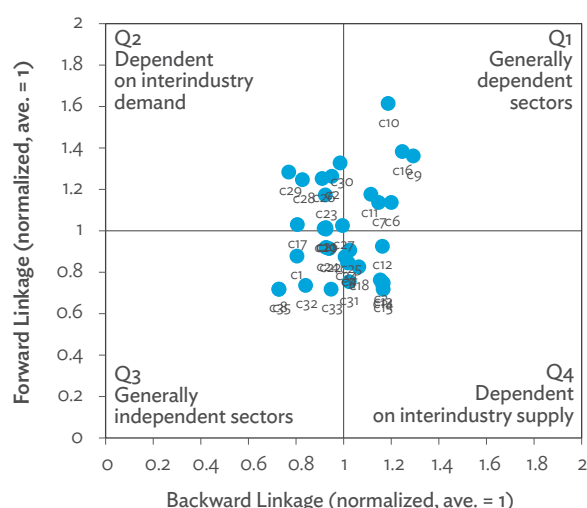
**Figure 2.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.2.2b: Backward and Forward Linkages by Industry, 2017**



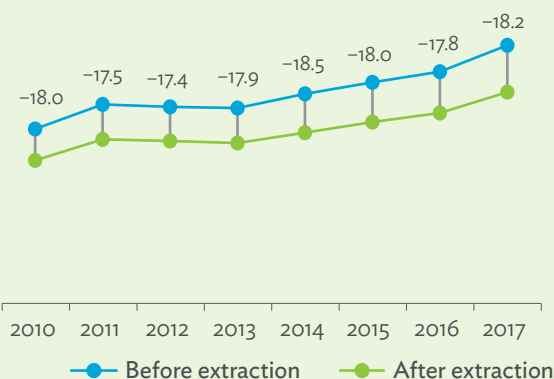
Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



## Box 2: Hypothetical Extraction of Agriculture, Hunting, Forestry, and Fishing Industry in Bhutan

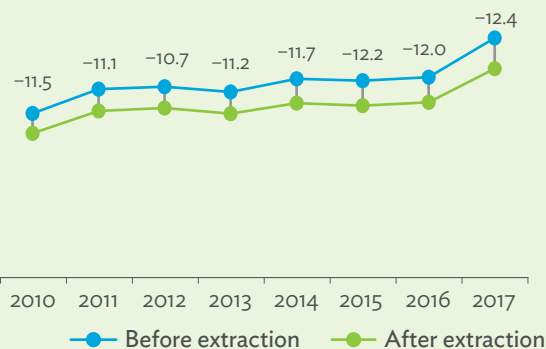
**Figure 2.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

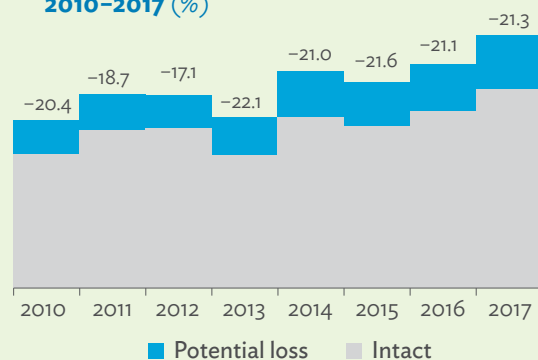
**Figure 2.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

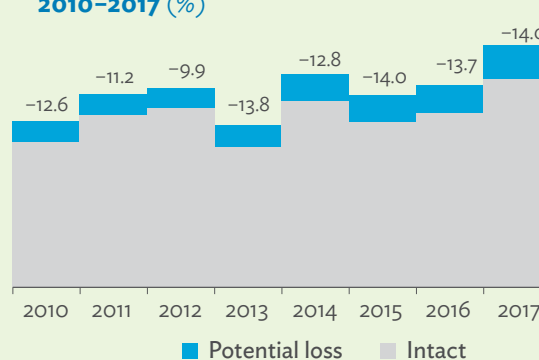
**Figure 2.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

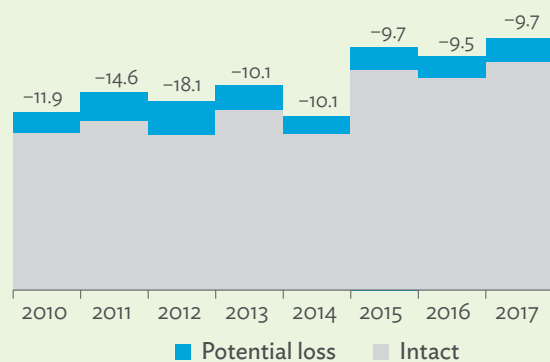
**Figure 2.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

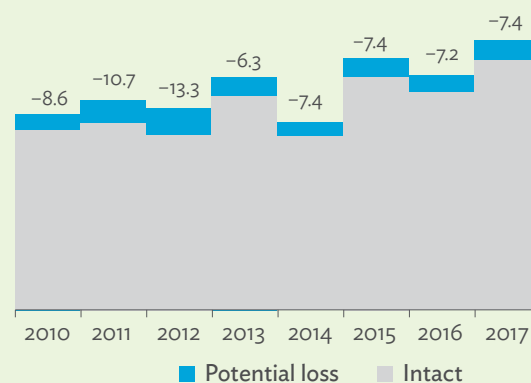
**Figure 2.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 2.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

Table 2.2.1: Input–Output Backward Linkage

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.753	0.771	0.757	0.755	0.760	0.798	0.793	0.804
Mining and quarrying	0.883	0.973	0.959	0.965	0.973	0.950	0.941	0.950
Food, beverages, and tobacco	1.097	1.146	1.147	1.149	1.150	1.159	1.165	1.154
Textiles and textile products	1.174	1.008	1.018	1.017	1.017	1.013	1.011	1.019
Leather, leather products, and footwear	1.174	1.011	1.018	1.017	1.018	1.015	1.014	1.017
Wood and products of wood and cork	1.170	1.225	1.215	1.205	1.200	1.209	1.214	1.200
Pulp, paper, paper products, printing, and publishing	1.079	1.131	1.151	1.156	1.156	1.148	1.155	1.147
Coke, refined petroleum, and nuclear fuel	0.697	0.720	0.705	0.707	0.704	0.742	0.752	0.728
Chemicals and chemical products	1.182	1.257	1.256	1.279	1.297	1.306	1.302	1.292
Rubber and plastics	1.083	1.168	1.211	1.223	1.222	1.183	1.193	1.187
Other nonmetallic minerals	1.223	1.127	1.113	1.111	1.111	1.118	1.112	1.114
Basic metals and fabricated metal	1.097	1.160	1.181	1.180	1.174	1.167	1.169	1.163
Machinery, nec	1.097	1.158	1.181	1.180	1.176	1.171	1.173	1.166
Electrical and optical equipment	1.097	1.160	1.181	1.181	1.175	1.168	1.171	1.164
Transport equipment	1.097	1.160	1.181	1.181	1.176	1.170	1.173	1.166
Manufacturing, nec; recycling	1.182	1.257	1.256	1.255	1.253	1.256	1.254	1.246
Electricity, gas, and water supply	0.788	0.775	0.759	0.760	0.768	0.801	0.797	0.805
Construction	1.063	1.089	1.121	1.110	1.091	1.058	1.065	1.064
Sale, maintenance, and repair	0.990	0.950	0.941	0.938	0.938	0.924	0.918	0.926
Wholesale trade and commission trade	0.990	0.947	0.941	0.938	0.940	0.916	0.911	0.918
Retail trade	0.990	0.950	0.941	0.939	0.942	0.923	0.917	0.925
Hotels and restaurants	0.945	0.925	0.932	0.939	0.949	0.939	0.936	0.939
Inland transport	0.877	0.916	0.911	0.919	0.923	0.918	0.924	0.923
Water transport	0.816	0.885	0.911	0.919	0.923	0.918	0.924	0.926
Air transport	0.994	1.025	1.029	1.051	1.056	1.012	1.025	1.026
Other supporting and auxiliary transport activities	1.071	0.893	0.881	0.874	0.878	0.898	0.888	0.910
Post and telecommunications	1.037	1.005	0.998	0.993	0.990	0.995	0.990	0.995
Financial intermediation	0.759	0.808	0.793	0.787	0.788	0.821	0.814	0.827
Real estate activities	0.951	0.748	0.735	0.729	0.734	0.768	0.766	0.769
Renting of M&Eq and other business activities	1.003	1.047	1.032	1.017	1.004	0.982	0.982	0.985
Public administration and defense; compulsory social security	1.031	1.061	1.059	1.046	1.036	1.025	1.019	1.023
Education	1.001	0.869	0.852	0.843	0.840	0.837	0.834	0.840
Health and social work	0.990	1.009	0.990	0.978	0.968	0.945	0.943	0.947
Other community, social, and personal services	0.923	0.946	0.940	0.953	0.965	1.005	1.005	1.006
Private households with employed persons	0.697	0.720	0.705	0.707	0.704	0.742	0.752	0.728
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.835	0.904	0.957	0.919	0.886	0.889	0.880	0.878
Mining and quarrying	1.172	1.206	1.249	1.283	1.305	1.215	1.266	1.263
Food, beverages, and tobacco	0.726	0.737	0.713	0.722	0.730	0.769	0.772	0.763
Textiles and textile products	0.938	0.898	0.872	0.855	0.836	0.861	0.857	0.845
Leather, leather products, and footwear	0.938	0.898	0.871	0.855	0.836	0.862	0.860	0.846
Wood and products of wood and cork	1.267	1.203	1.125	1.126	1.134	1.143	1.135	1.137
Pulp, paper, paper products, printing, and publishing	1.282	1.203	1.129	1.129	1.135	1.144	1.134	1.137
Coke, refined petroleum, and nuclear fuel	0.679	0.686	0.665	0.678	0.685	0.732	0.743	0.718
Chemicals and chemical products	1.342	1.292	1.338	1.350	1.370	1.359	1.354	1.362
Rubber and plastics	1.477	1.476	1.603	1.624	1.642	1.624	1.595	1.615
Other nonmetallic minerals	1.073	1.156	1.229	1.224	1.205	1.193	1.172	1.176
Basic metals and fabricated metal	0.876	0.850	0.840	0.873	0.904	0.880	0.915	0.925
Machinery, nec	0.706	0.714	0.696	0.707	0.712	0.760	0.769	0.749
Electrical and optical equipment	0.693	0.701	0.687	0.697	0.702	0.754	0.761	0.739
Transport equipment	0.679	0.686	0.665	0.678	0.685	0.732	0.743	0.718
Manufacturing, nec; recycling	1.361	1.302	1.331	1.348	1.372	1.379	1.372	1.383
Electricity, gas, and water supply	1.040	0.981	1.021	1.049	1.071	0.976	1.013	1.030
Construction	0.779	0.783	0.775	0.780	0.779	0.837	0.834	0.826
Sale, maintenance, and repair	0.977	0.993	1.016	1.012	1.002	1.021	1.010	1.008
Wholesale trade and commission trade	0.989	0.994	1.016	1.010	1.002	1.017	1.006	1.012
Retail trade	0.977	0.994	1.016	1.012	1.005	1.021	1.010	1.016
Hotels and restaurants	1.096	0.941	0.922	0.967	1.005	0.840	0.901	0.914
Inland transport	1.132	1.119	1.144	1.154	1.163	1.167	1.156	1.173
Water transport	0.903	0.923	0.911	0.937	0.964	0.930	0.938	0.920
Air transport	0.951	0.927	0.939	0.933	0.925	0.890	0.902	0.907
Other supporting and auxiliary transport activities	1.037	1.211	1.229	1.231	1.221	1.253	1.236	1.253
Post and telecommunications	1.206	1.244	1.235	1.139	1.057	1.023	1.008	1.026
Financial intermediation	1.347	1.322	1.326	1.306	1.288	1.257	1.232	1.247
Real estate activities	1.174	1.360	1.362	1.324	1.312	1.280	1.244	1.284
Renting of M&Eq and other business activities	1.363	1.337	1.342	1.307	1.291	1.328	1.302	1.328
Public administration and defense; compulsory social security	0.782	0.771	0.713	0.751	0.781	0.765	0.763	0.754
Education	0.735	0.733	0.684	0.711	0.734	0.747	0.752	0.737
Health and social work	0.679	0.686	0.665	0.678	0.685	0.732	0.743	0.718
Other community, social, and personal services	1.105	1.086	1.049	0.953	0.888	0.887	0.879	0.875
Private households with employed persons	0.679	0.686	0.665	0.678	0.685	0.732	0.743	0.718
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

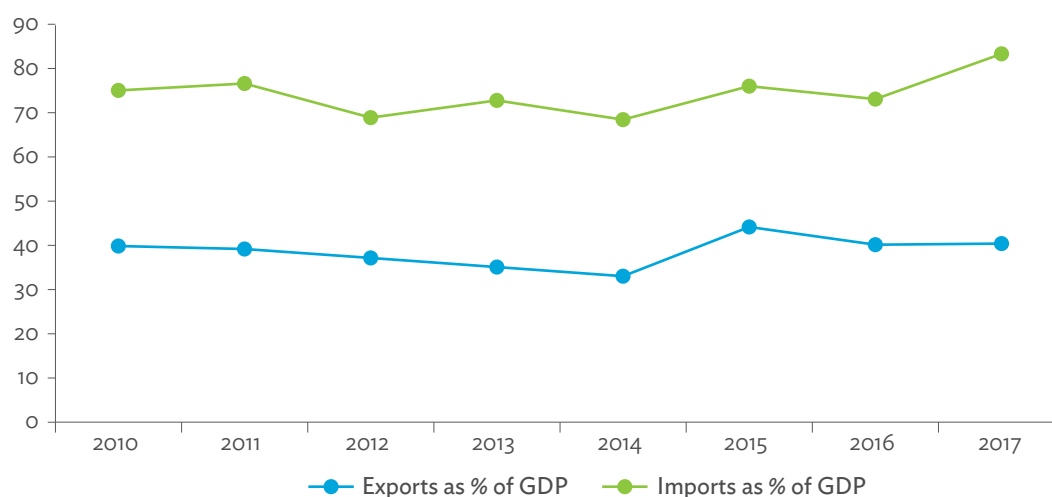
Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 2.3

### Bhutan

**Figure 2.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

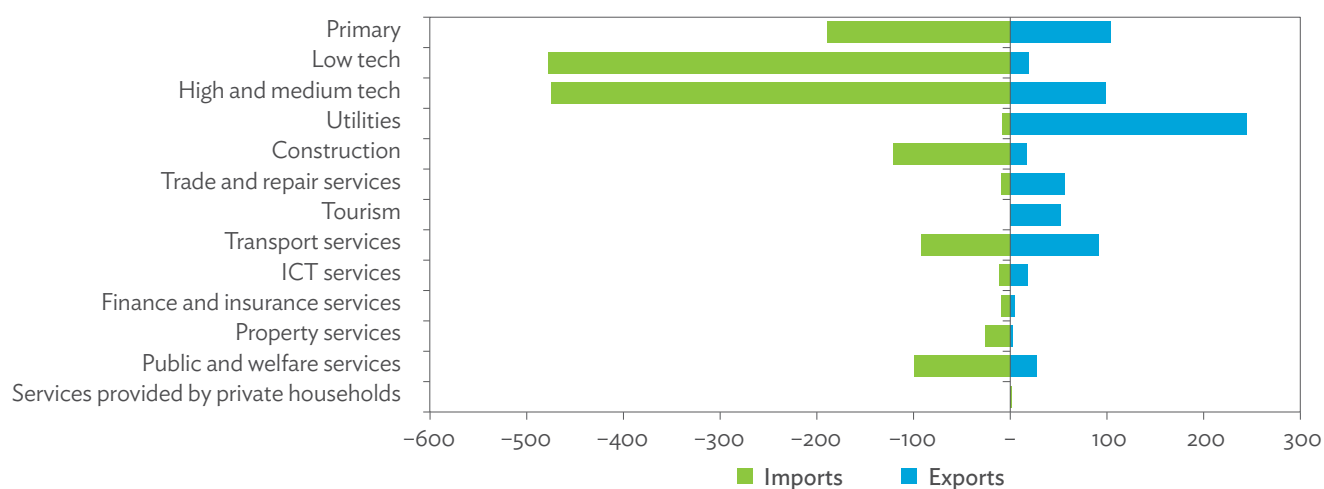


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

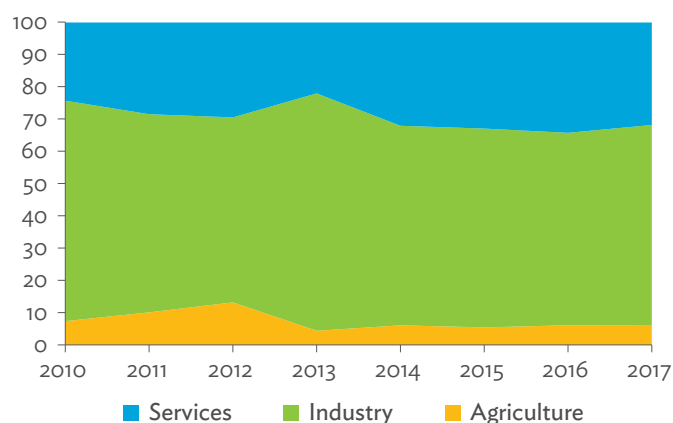


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

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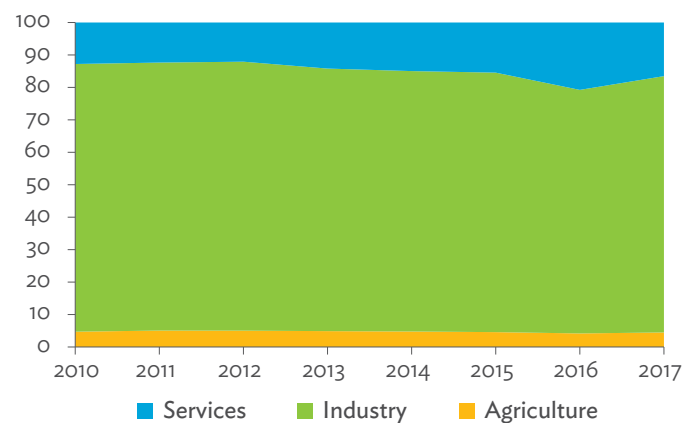
**Figure 2.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

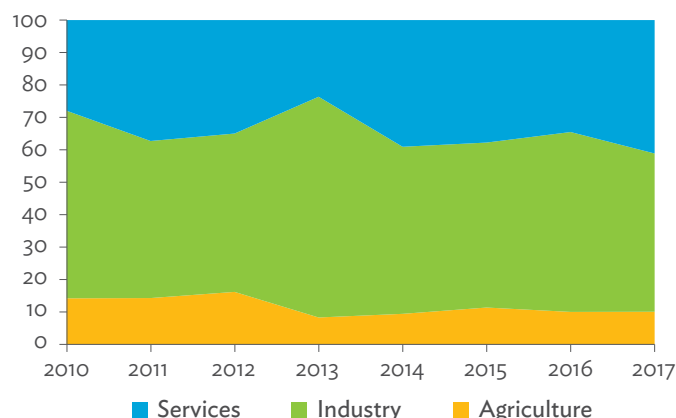
**Figure 2.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

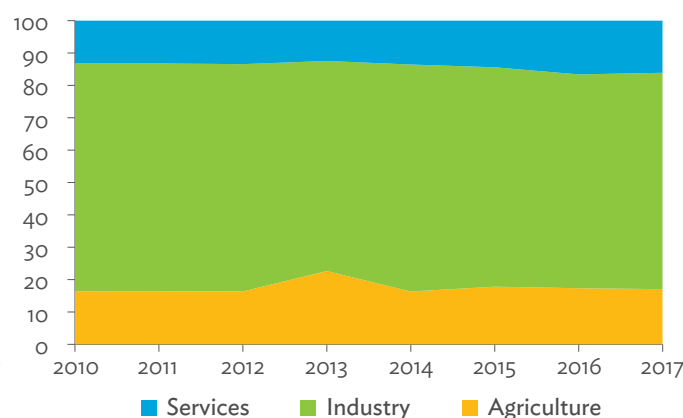
**Figure 2.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

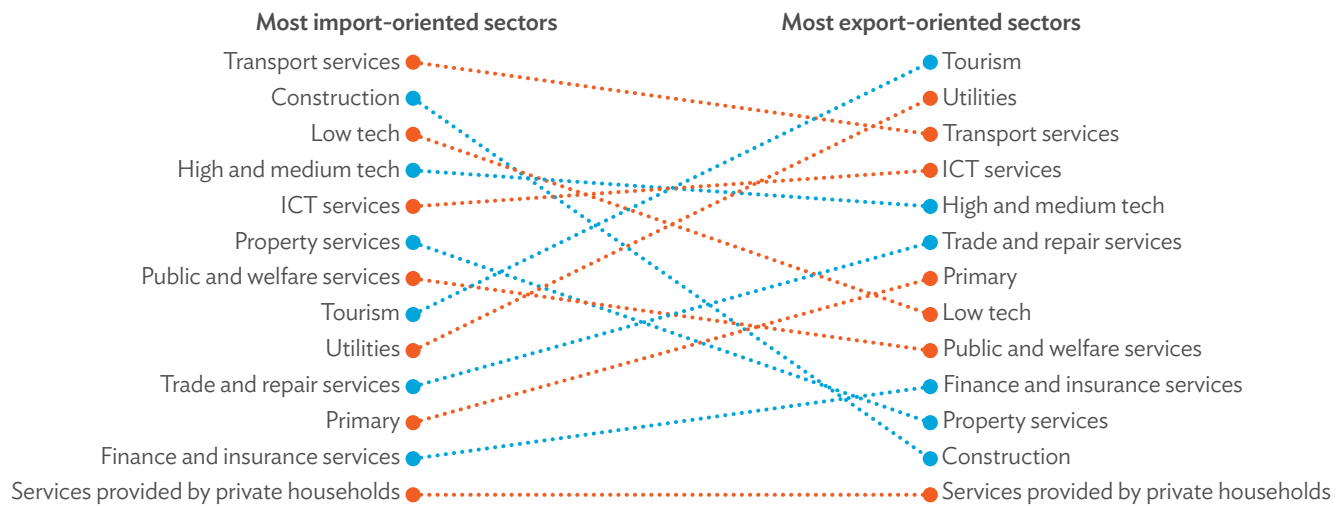
**Figure 2.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

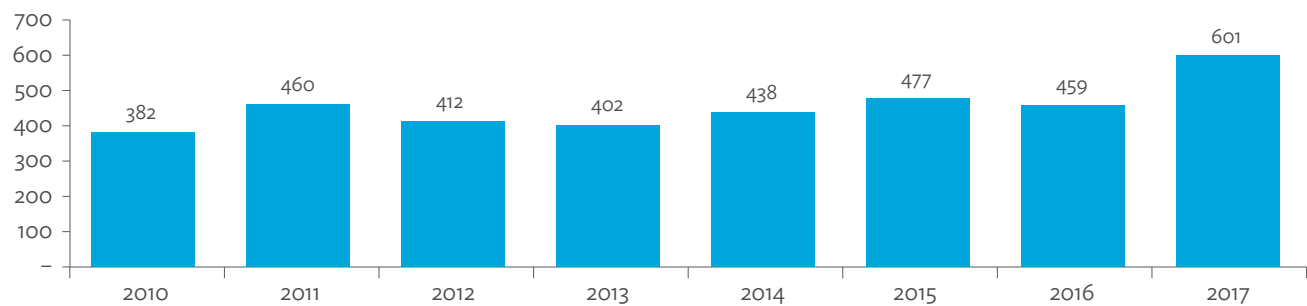


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

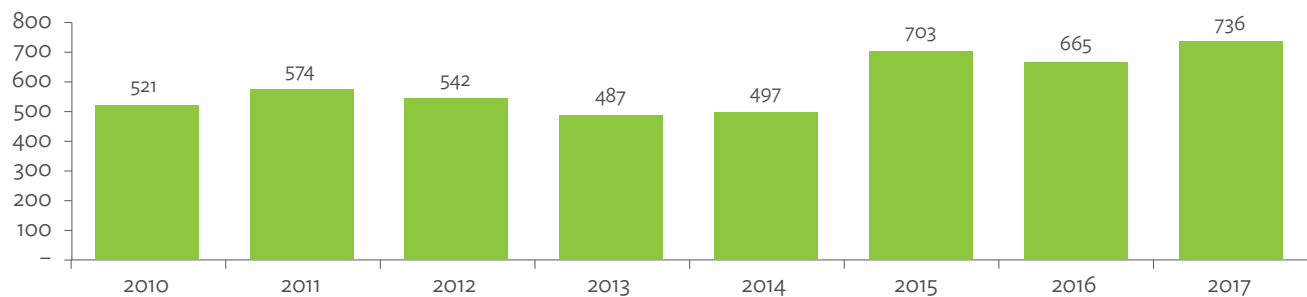


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

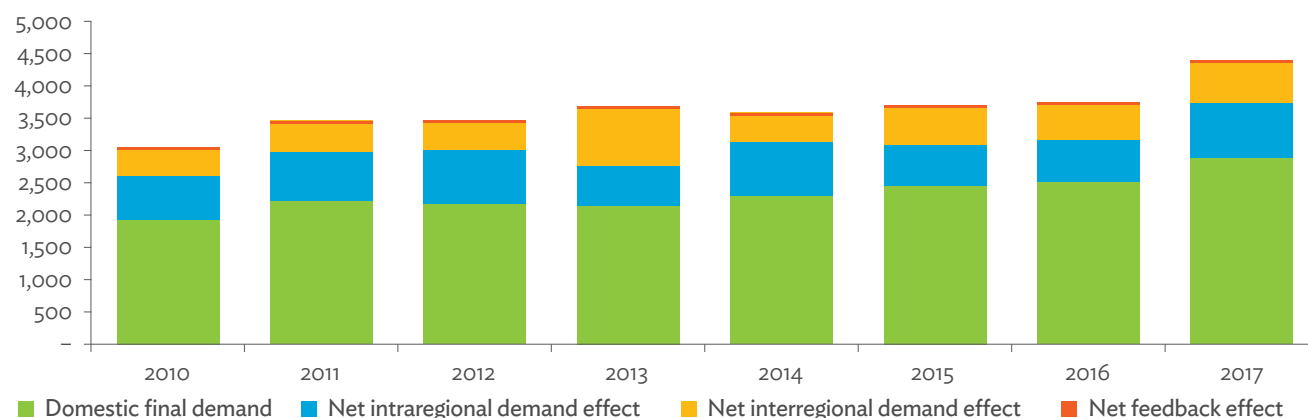


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

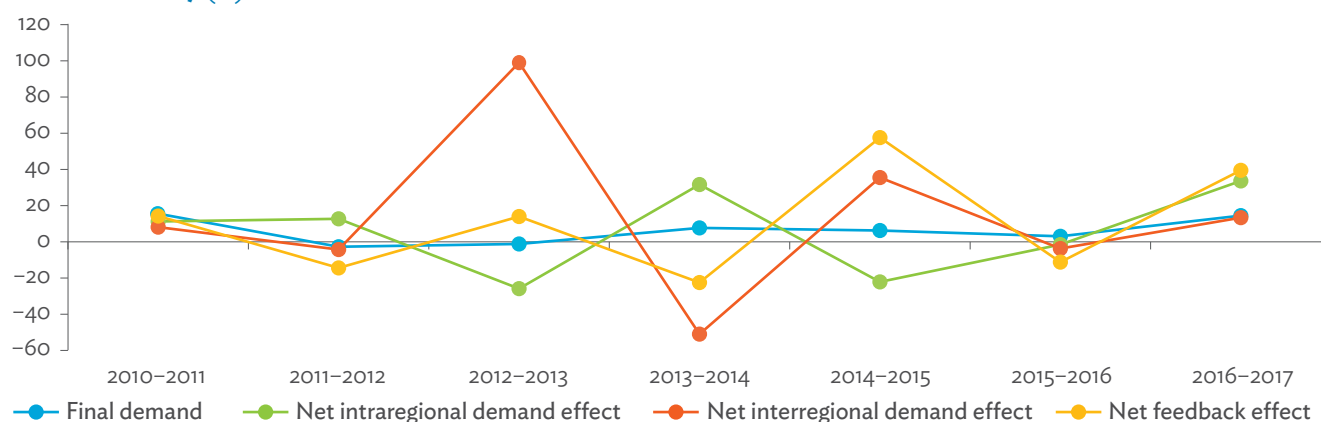


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

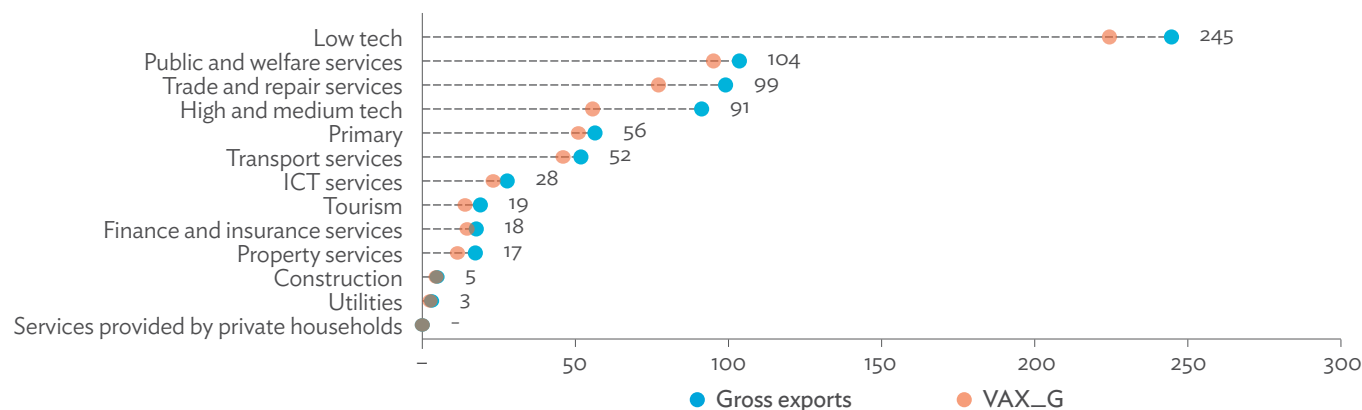
**Figure 2.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**



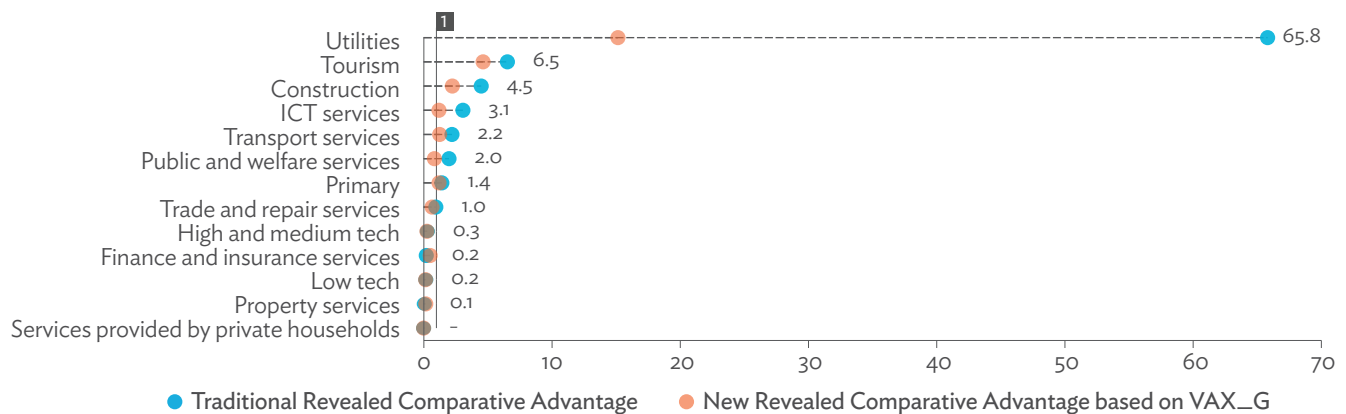
\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 2.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 2.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	266	272	230	258	308	356	368	422
Low tech	819	1,034	1,066	1,007	1,040	1,055	1,080	1,242
High and medium tech	209	205	200	193	205	211	218	248
Business service	317	370	348	366	413	489	512	570
Personal service	315	345	322	315	338	338	347	407
Intraregional effects (M1)								
Primary	73	110	136	97	125	99	96	128
Low tech	211	210	250	191	238	190	190	260
High and medium tech	110	103	130	86	125	91	91	117
Business service	256	307	319	239	316	257	253	333
Personal service	27	23	13	15	24	8	5	11

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	56	78	82	92	63	87	86	98
Low tech	213	199	175	493	189	259	244	286
High and medium tech	43	44	48	78	38	45	43	50
Business service	126	154	153	233	149	207	200	220
Personal service	7	6	3	21	11	11	15	11
Feedback effects (M3)								
Primary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Low tech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
High and medium tech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Business service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personal service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 2.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0804	0.0705	0.0728	0.0682	0.0805	0.0756	0.0541	0.1043
Mining and quarrying	0.2669	0.3508	0.3598	0.3664	0.3830	0.2806	0.2510	0.3054
Food, beverages, and tobacco	0.5735	0.5905	0.6259	0.6261	0.6349	0.5617	0.5484	0.5852
Textiles and textile products	0.6841	0.3997	0.4435	0.4399	0.4462	0.3647	0.3437	0.3998
Leather, leather products, and footwear	0.6841	0.4028	0.4435	0.4393	0.4476	0.3678	0.3472	0.3966
Wood and products of wood and cork	0.6786	0.7010	0.7228	0.7055	0.7060	0.6291	0.6131	0.6485
Pulp, paper, paper products, printing, and publishing	0.5478	0.5696	0.6315	0.6365	0.6429	0.5466	0.5350	0.5755
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.6960	0.7453	0.7814	0.8094	0.8438	0.7589	0.7308	0.7752
Rubber and plastics	0.5544	0.6210	0.7165	0.7306	0.7364	0.5939	0.5855	0.6303
Other nonmetallic minerals	0.7548	0.5641	0.5778	0.5721	0.5785	0.5057	0.4774	0.5308
Basic metals and fabricated metal	0.5740	0.6104	0.6740	0.6700	0.6688	0.5724	0.5542	0.5973
Machinery, nec	0.5740	0.6079	0.6740	0.6702	0.6718	0.5771	0.5588	0.6018
Electrical and optical equipment	0.5740	0.6104	0.6740	0.6709	0.6700	0.5743	0.5561	0.5991
Transport equipment	0.5740	0.6104	0.6740	0.6711	0.6717	0.5769	0.5586	0.6016
Manufacturing, nec; recycling	0.6960	0.7453	0.7814	0.7758	0.7808	0.6922	0.6673	0.7120
Electricity, gas, and water supply	0.1300	0.0756	0.0759	0.0754	0.0923	0.0789	0.0587	0.1063
Construction	0.5248	0.5118	0.5889	0.5715	0.5510	0.4260	0.4155	0.4610
Sale, maintenance, and repair	0.4200	0.3181	0.3339	0.3268	0.3330	0.2446	0.2194	0.2718
Wholesale trade and commission trade	0.4200	0.3146	0.3339	0.3276	0.3362	0.2345	0.2104	0.2613
Retail trade	0.4200	0.3181	0.3339	0.3295	0.3396	0.2436	0.2185	0.2707
Hotels and restaurants	0.3554	0.2840	0.3217	0.3295	0.3483	0.2649	0.2438	0.2895
Inland transport	0.2577	0.2721	0.2921	0.3006	0.3119	0.2364	0.2280	0.2680
Water transport	0.1708	0.2283	0.2921	0.3008	0.3119	0.2364	0.2280	0.2721
Air transport	0.4255	0.4235	0.4590	0.4870	0.5016	0.3634	0.3623	0.4089
Other supporting and auxiliary transport activities	0.5369	0.2390	0.2487	0.2367	0.2476	0.2096	0.1800	0.2495
Post and telecommunications	0.4875	0.3952	0.4156	0.4048	0.4073	0.3409	0.3161	0.3669
Financial intermediation	0.0889	0.1213	0.1238	0.1132	0.1199	0.1066	0.0817	0.1355
Real estate activities	0.3644	0.0383	0.0423	0.0316	0.0433	0.0346	0.0176	0.0568
Renting of M&Eq and other business activities	0.4390	0.4540	0.4638	0.4394	0.4267	0.3235	0.3053	0.3531
Public administration and defense; compulsory social security	0.4787	0.4727	0.5009	0.4801	0.4727	0.3807	0.3549	0.4059
Education	0.4356	0.2070	0.2079	0.1934	0.1944	0.1270	0.1078	0.1540
Health and social work	0.4203	0.4010	0.4031	0.3844	0.3759	0.2733	0.2530	0.3011
Other community, social, and personal services	0.3244	0.3131	0.3332	0.3494	0.3719	0.3534	0.3353	0.3821
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0998	0.0887	0.0811	0.0760	0.0749	0.0923	0.0642	0.1274
Mining and quarrying	0.2454	0.3259	0.3271	0.2866	0.2631	0.2515	0.2091	0.2754
Food, beverages, and tobacco	0.5602	0.5817	0.4966	0.5047	0.5201	0.5896	0.5613	0.6265
Textiles and textile products	0.9132	0.5527	0.4817	0.4893	0.4981	0.5314	0.5039	0.5612
Leather, leather products, and footwear	0.9093	0.5459	0.4797	0.4874	0.4916	0.5267	0.4982	0.5634
Wood and products of wood and cork	0.3604	0.3830	0.3184	0.3492	0.3776	0.4180	0.3926	0.4588
Pulp, paper, paper products, printing, and publishing	0.8282	0.8766	0.7576	0.7586	0.7606	0.8629	0.8116	0.9006
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.5475	0.5856	0.5184	0.4495	0.3859	0.4265	0.3906	0.4597
Rubber and plastics	0.9489	1.0790	0.9444	0.9337	0.9257	1.0361	0.9948	1.0676
Other nonmetallic minerals	0.3728	0.2655	0.2442	0.2345	0.2301	0.2439	0.2164	0.2719
Basic metals and fabricated metal	0.7787	0.8286	0.7249	0.7169	0.7128	0.8024	0.7574	0.8097
Machinery, nec	0.7765	0.8323	0.7260	0.7146	0.7037	0.7942	0.7521	0.8011
Electrical and optical equipment	0.7759	0.8277	0.7243	0.7141	0.7080	0.7970	0.7481	0.8043
Transport equipment	0.7784	0.8295	0.7276	0.7152	0.7054	0.7952	0.7496	0.8030
Manufacturing, nec; recycling	0.5479	0.5850	0.5215	0.5120	0.5020	0.5594	0.5136	0.5777
Electricity, gas, and water supply	0.2784	0.1643	0.1607	0.1477	0.1432	0.1729	0.1240	0.2188
Construction	0.7539	0.8154	0.6927	0.7290	0.7755	0.8345	0.7842	0.8595
Sale, maintenance, and repair	0.3050	0.2140	0.1952	0.1997	0.2119	0.1831	0.1552	0.2153
Wholesale trade and commission trade	0.3036	0.2183	0.1939	0.2059	0.2224	0.1944	0.1674	0.2287
Retail trade	0.3062	0.2165	0.1962	0.1977	0.2061	0.1840	0.1581	0.2190
Hotels and restaurants	0.3772	0.3005	0.2349	0.2251	0.2205	0.2120	0.1890	0.2441
Inland transport	0.6787	0.7379	0.6982	0.6852	0.6837	0.7796	0.7404	0.8010
Water transport	1.1217	0.8297	0.6985	0.6738	0.6841	0.7800	0.7398	0.7950
Air transport	1.3343	1.3620	1.2853	1.2436	1.2361	1.4143	1.3756	1.4084
Other supporting and auxiliary transport activities	0.3031	0.1453	0.1222	0.1217	0.1177	0.1416	0.1104	0.1495
Post and telecommunications	0.4495	0.3763	0.3585	0.3530	0.3541	0.3887	0.3458	0.4190
Financial intermediation	0.0707	0.0931	0.0911	0.0921	0.1000	0.1142	0.0839	0.1468
Real estate activities	0.5612	0.0629	0.0593	0.0694	0.0836	0.0999	0.0500	0.1506
Renting of M&Eq and other business activities	0.3686	0.3895	0.3609	0.4054	0.4506	0.4675	0.4133	0.4780
Public administration and defense; compulsory social security	0.3008	0.3111	0.2999	0.3197	0.3510	0.3600	0.3249	0.3988
Education	0.3770	0.1804	0.1709	0.2135	0.2631	0.2415	0.1962	0.2721
Health and social work	0.3671	0.3553	0.3429	0.3799	0.4220	0.4192	0.3617	0.4375
Other community, social, and personal services	0.4570	0.4478	0.4045	0.3772	0.3579	0.4491	0.4023	0.4693
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	74	69	96	90	99	94	64	59	66	61	99	92	94	88	104	95
Low tech	14	11	24	18	23	18	13	10	14	11	18	14	18	13	19	14
High and medium tech	104	82	93	72	97	78	87	68	74	59	94	74	89	71	99	77
Utilities	196	175	181	169	154	144	156	147	161	152	233	218	220	210	245	224
Construction	0	0	0	0	1	0	9	192	13	9	17	12	16	11	17	11
Trade and repair services	37	32	44	40	47	43	39	35	34	31	54	50	51	47	56	51
Tourism	12	10	23	20	28	25	25	22	33	29	49	44	46	42	52	46
Transport services	68	44	94	61	83	55	69	45	64	42	87	53	82	52	91	56
ICT services	1	1	1	1	1	1	7	6	13	11	17	14	16	14	18	15
Finance and insurance services	5	5	7	7	6	6	2	2	3	3	5	4	4	4	5	5
Property services	0	0	0	0	0	0	3	3	2	2	3	2	3	2	3	3
Public and welfare services	9	8	9	8	4	3	23	20	21	18	27	23	26	22	28	23
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 2.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	1.303	1.083	1.381	1.117	1.507	1.282	0.729	0.866	1.217	1.039	1.456	1.186	1.490	1.223	1.426	1.205
Low tech	0.189	0.193	0.292	0.224	0.299	0.229	0.120	0.161	0.196	0.170	0.173	0.163	0.176	0.159	0.172	0.158
High and medium tech	0.428	0.300	0.348	0.285	0.384	0.318	0.250	0.300	0.322	0.269	0.289	0.266	0.293	0.267	0.293	0.262
Utilities	84.111	17.747	70.440	14.362	62.228	13.386	65.625	14.727	69.022	16.069	68.253	15.293	54.724	15.525	65.843	15.163
Construction	0.024	0.844	0.123	0.749	0.254	0.789	2.650	1.442	5.046	2.094	4.594	2.371	4.016	2.076	4.496	2.243
Trade and repair services	0.906	0.536	0.996	0.617	1.085	0.688	0.652	0.554	0.865	0.560	0.956	0.670	0.949	0.658	0.956	0.662
Tourism	2.189	1.467	3.853	2.709	4.960	3.354	3.064	2.409	6.033	4.247	6.419	4.602	5.612	4.412	6.539	4.640
Transport services	2.187	1.457	2.929	1.678	2.711	1.604	1.638	1.328	2.312	1.350	2.191	1.273	2.217	1.269	2.215	1.251
ICT services	0.281	0.614	0.358	0.755	0.311	0.743	1.392	1.055	3.675	1.665	3.468	1.524	3.304	1.407	3.068	1.199
Finance and insurance services	0.337	0.827	0.445	0.953	0.381	0.868	0.100	0.687	0.217	0.604	0.212	0.511	0.204	0.475	0.209	0.514
Property services	0.007	0.139	0.008	0.178	0.009	0.178	0.066	0.178	0.064	0.186	0.056	0.166	0.055	0.151	0.054	0.169
Public and welfare services	0.901	0.578	0.900	0.554	0.399	0.273	1.605	0.871	2.200	1.050	1.903	0.844	1.811	0.803	1.984	0.843
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

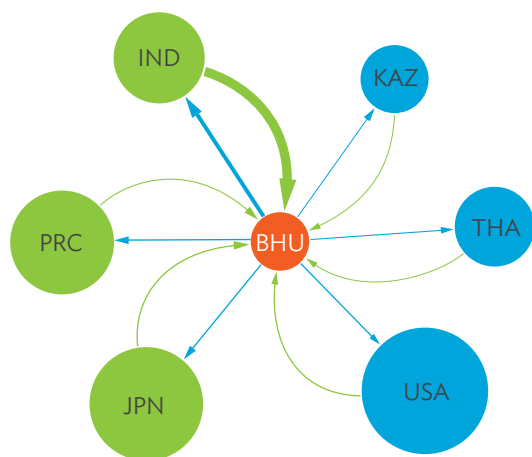
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 2.4

## GLOBAL VALUE CHAIN INDICATORS

### Bhutan

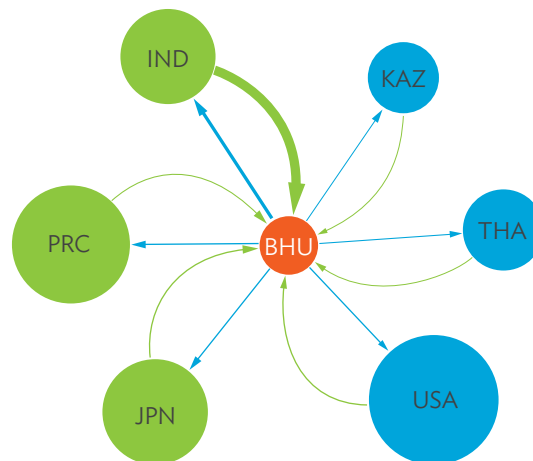
**Figure 2.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



BHU = Bhutan, IND = India, JPN = Japan, KAZ = Kazakhstan, PRC = People's Republic of China, THA = Thailand, USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

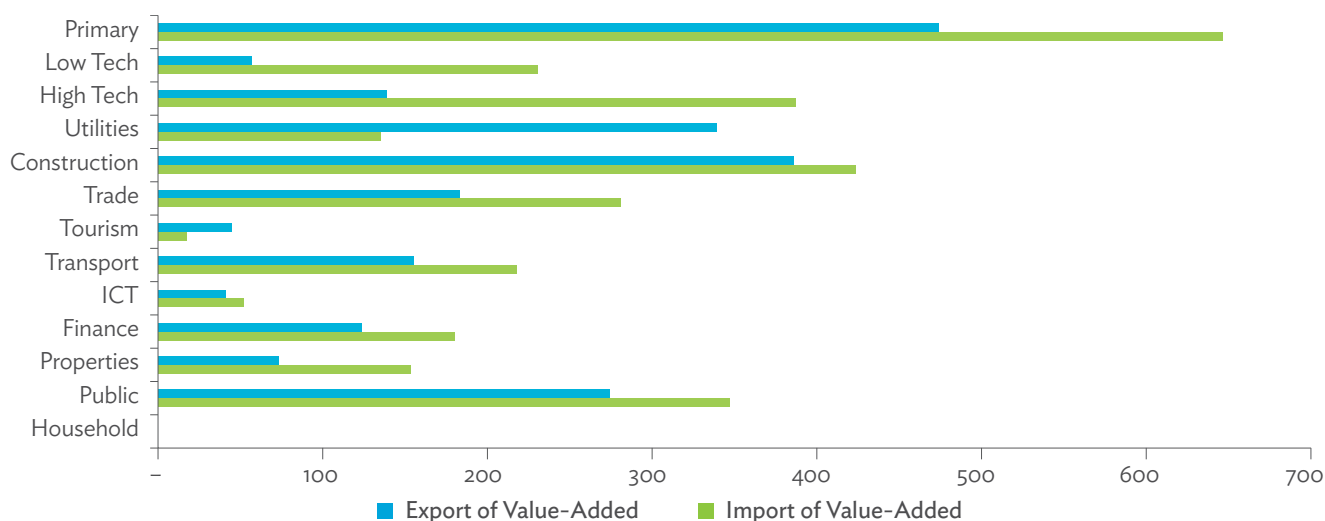
**Figure 2.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



BHU = Bhutan, IND = India, JPN = Japan, KAZ = Kazakhstan, PRC = People's Republic of China, THA = Thailand, USA = United States.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 2.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**

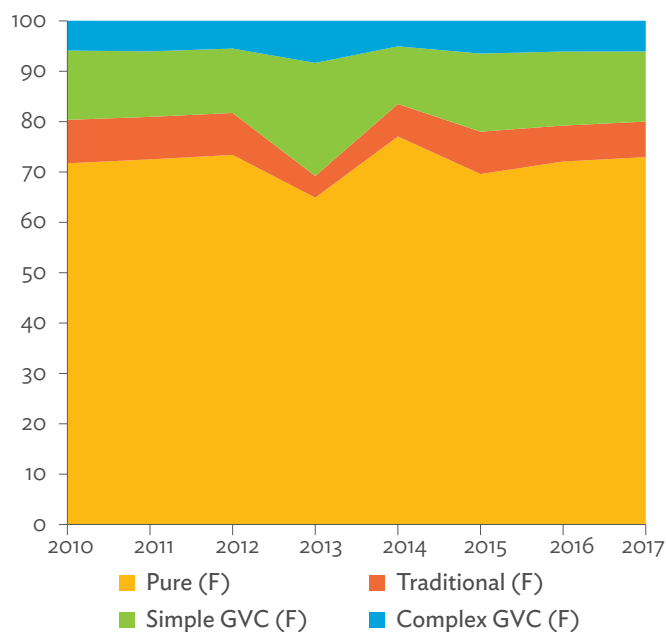


ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

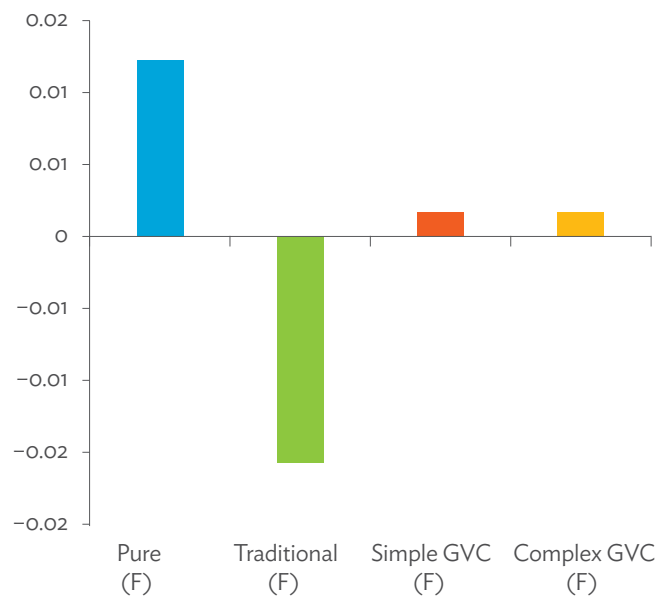
**Figure 2.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 2.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 2.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

GVC = global value chain.

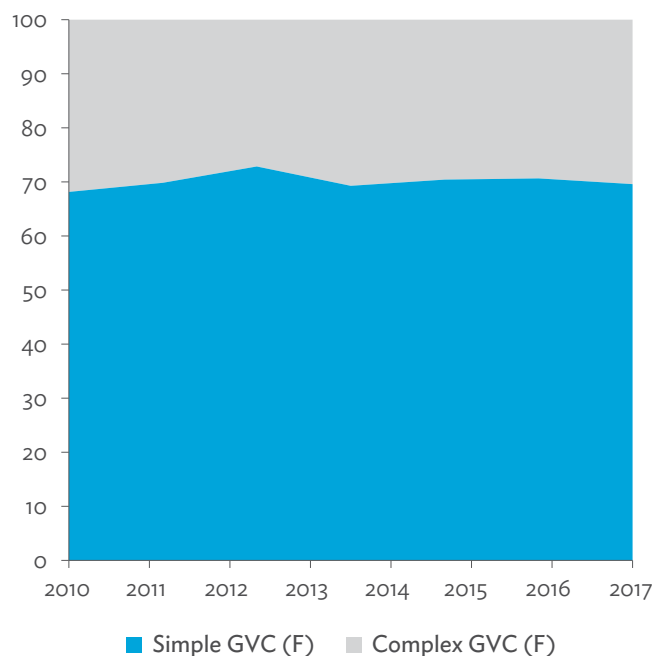
Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 2.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

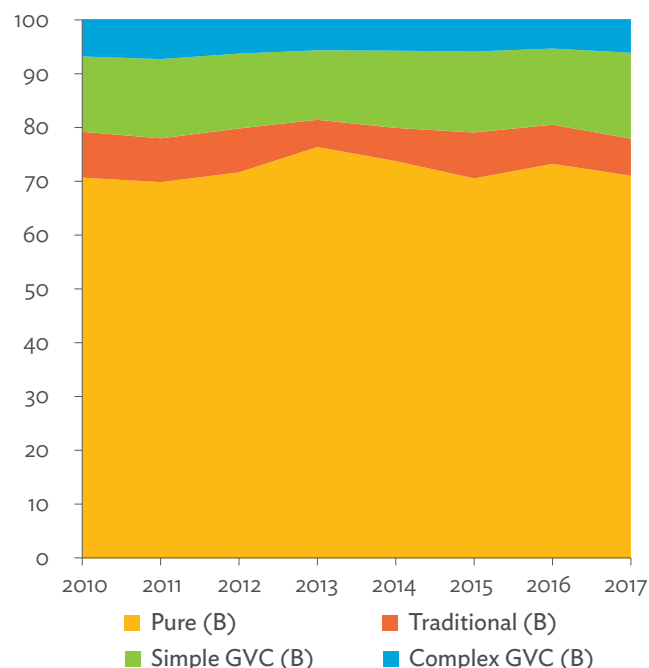


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

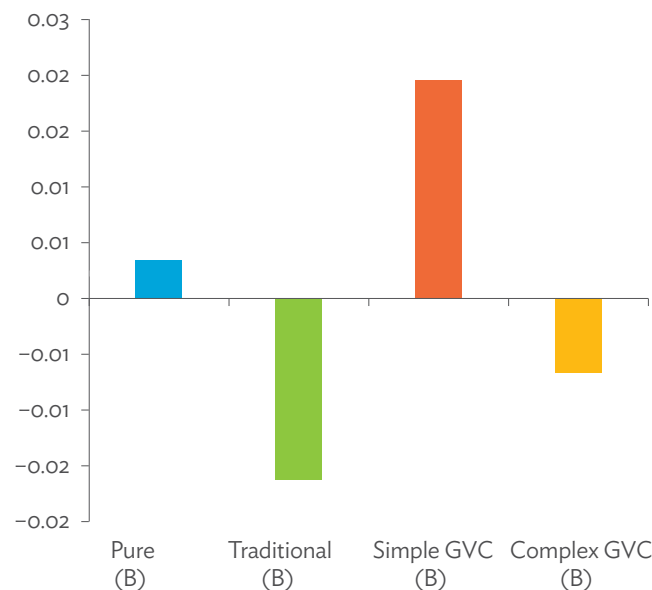


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



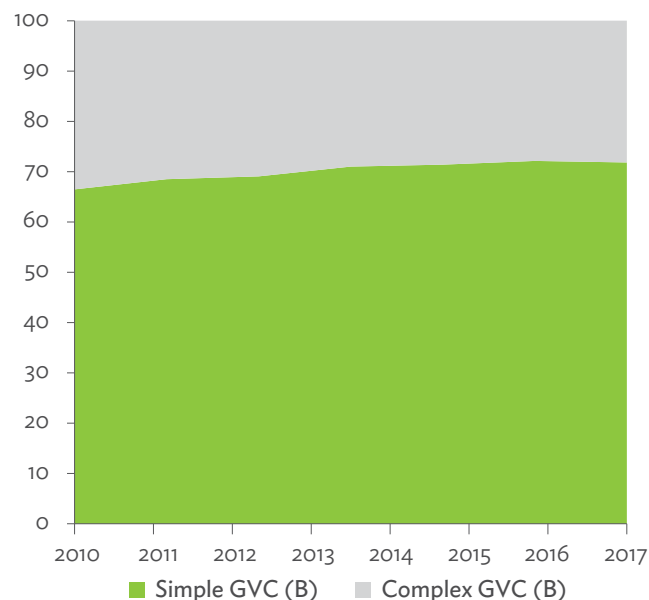
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

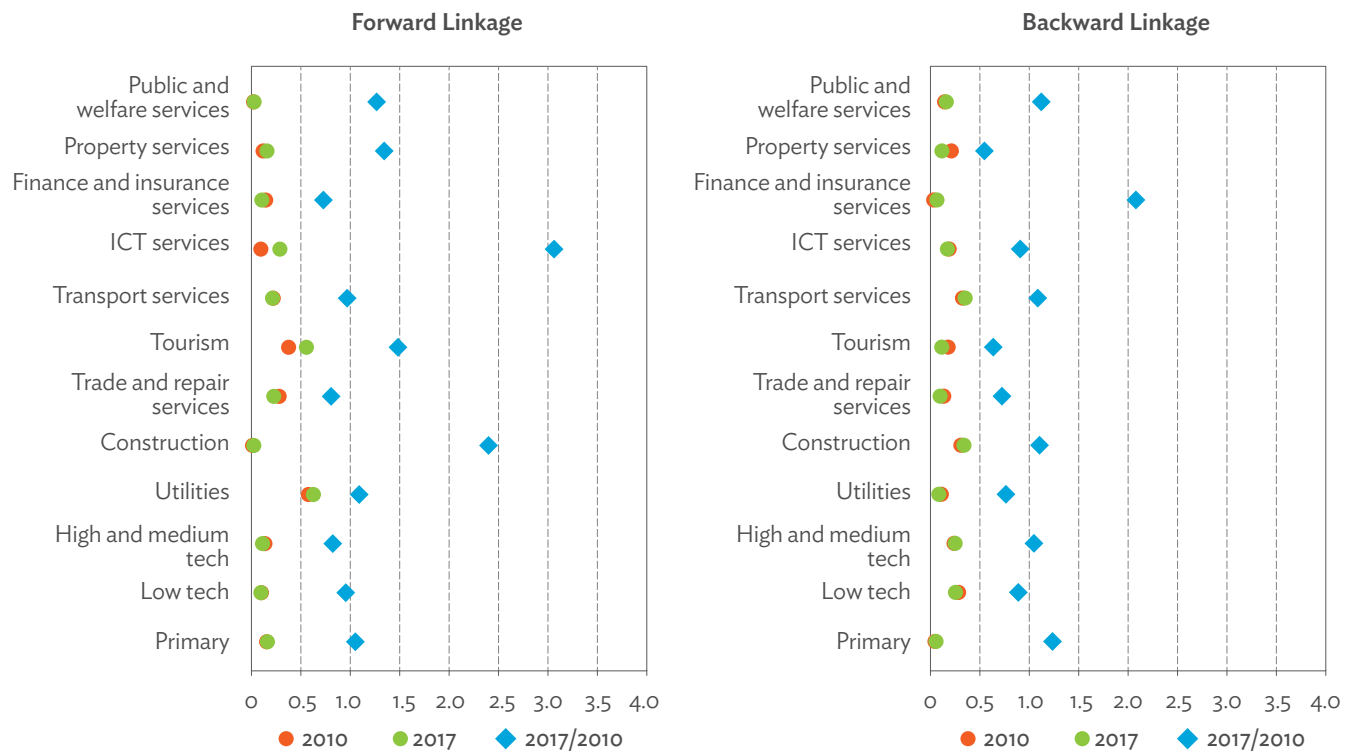


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

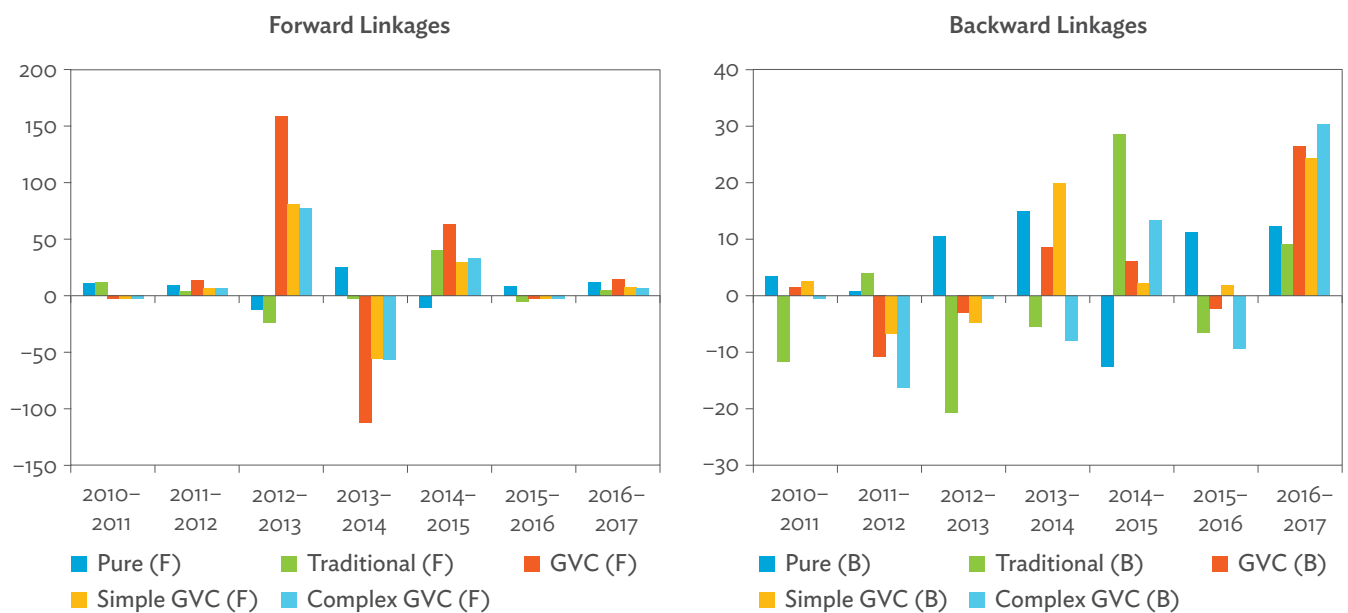


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 2.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

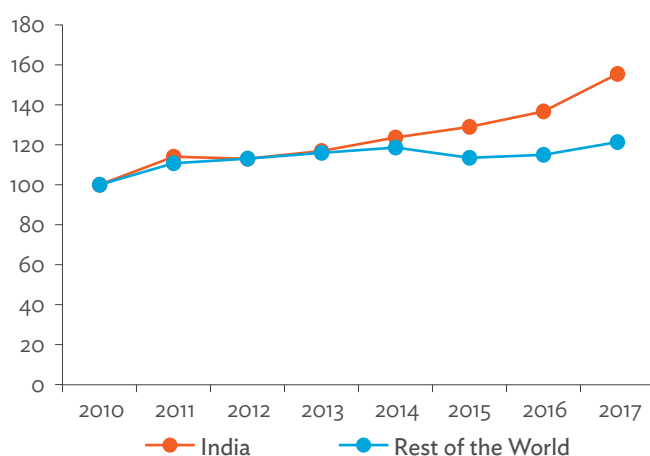
[Click here for figure data](#)

# 3.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### India

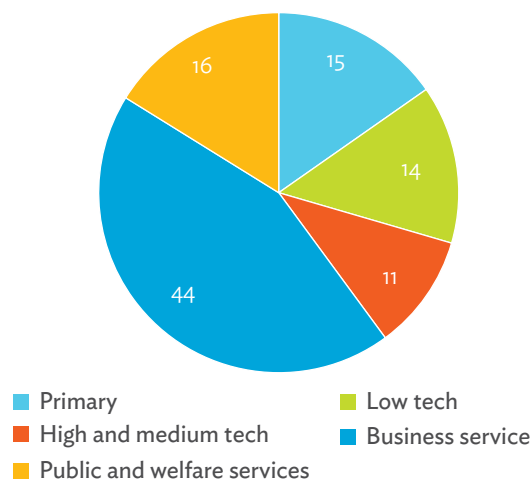
**Figure 3.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

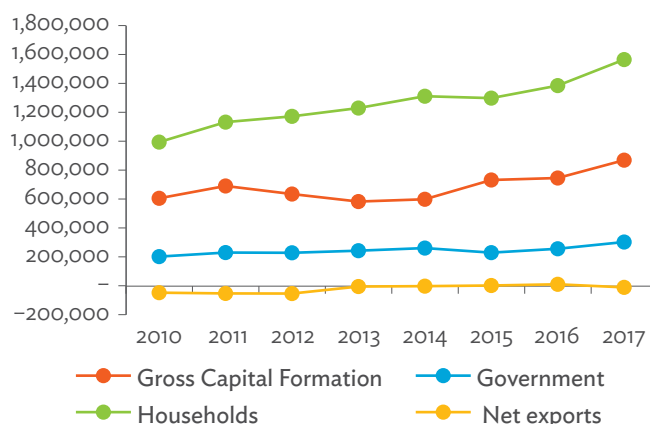
**Figure 3.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

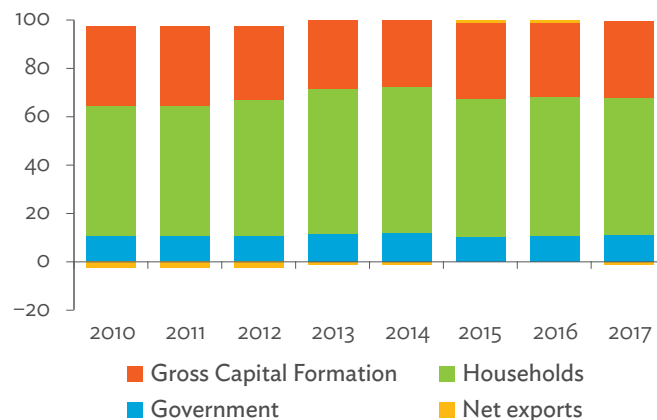


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

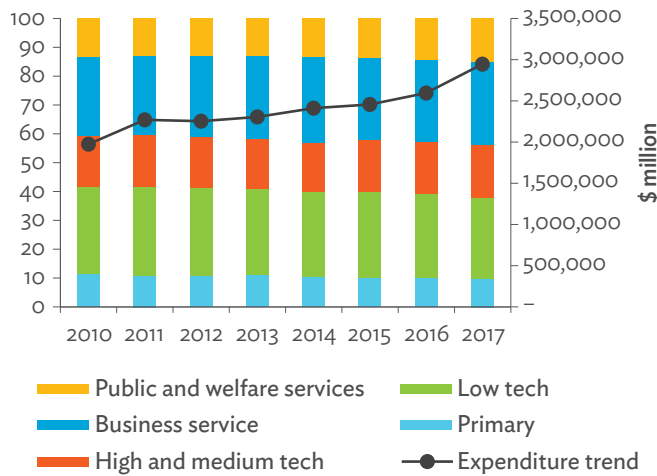
**Figure 3.1.2b: Share to Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

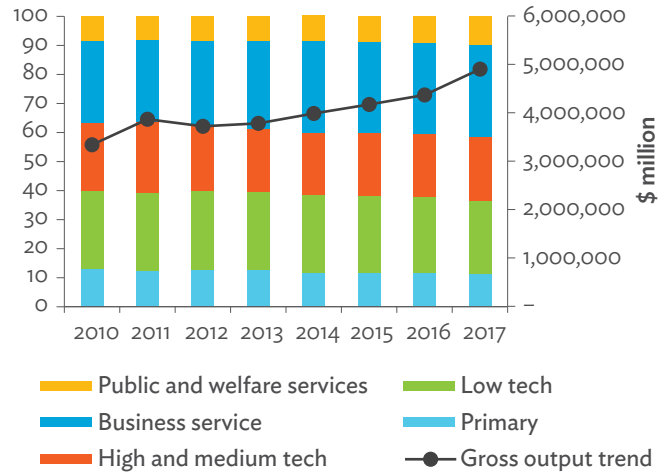


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

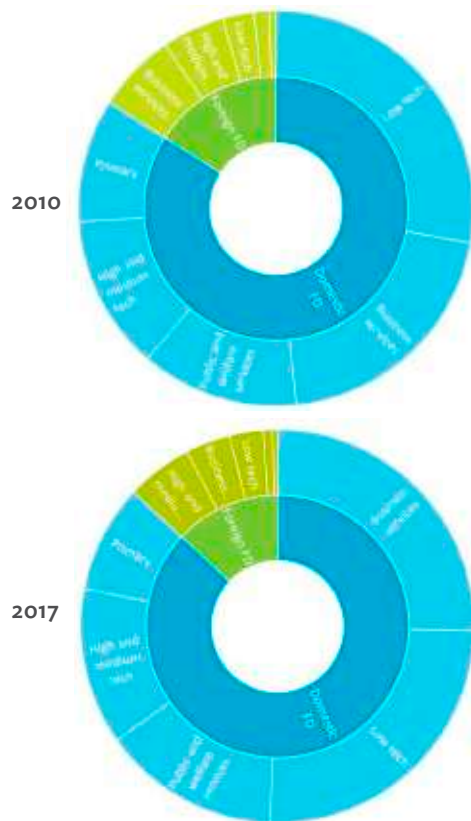


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

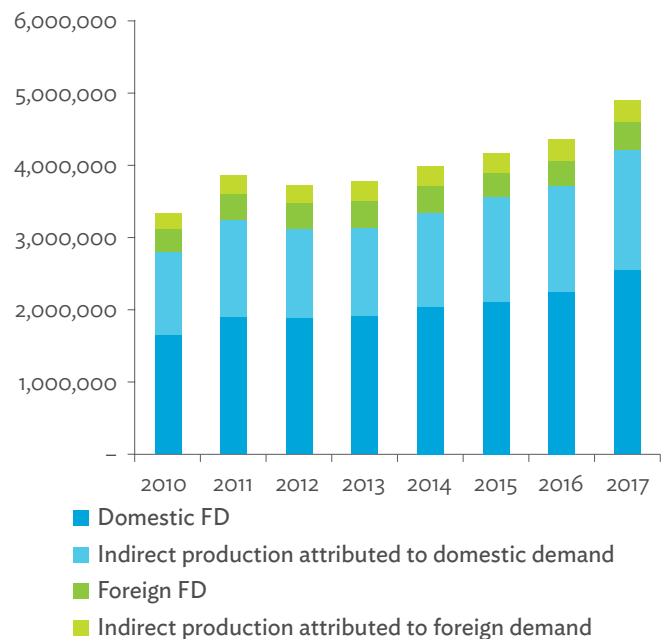


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

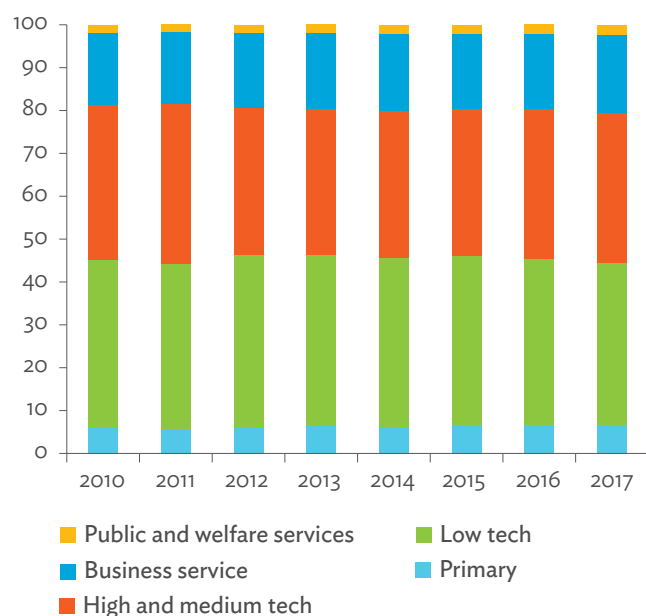


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

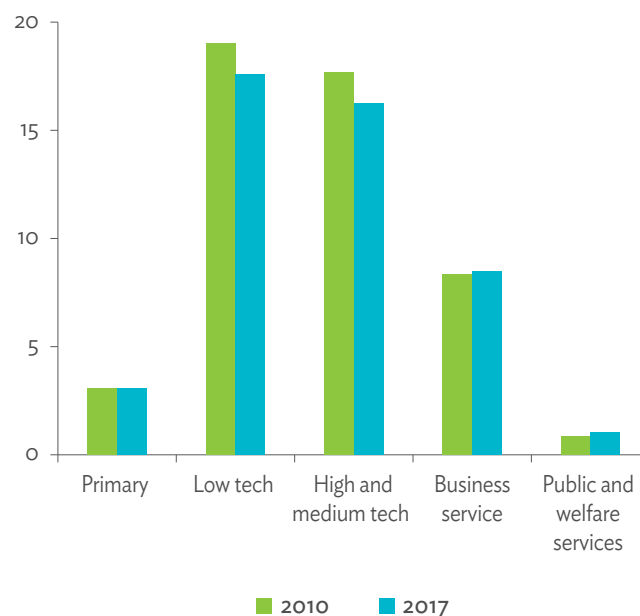
**Figure 3.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

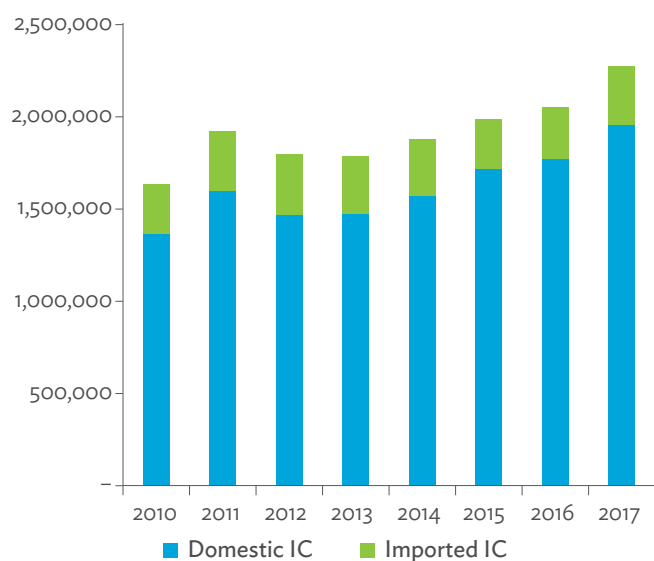
**Figure 3.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

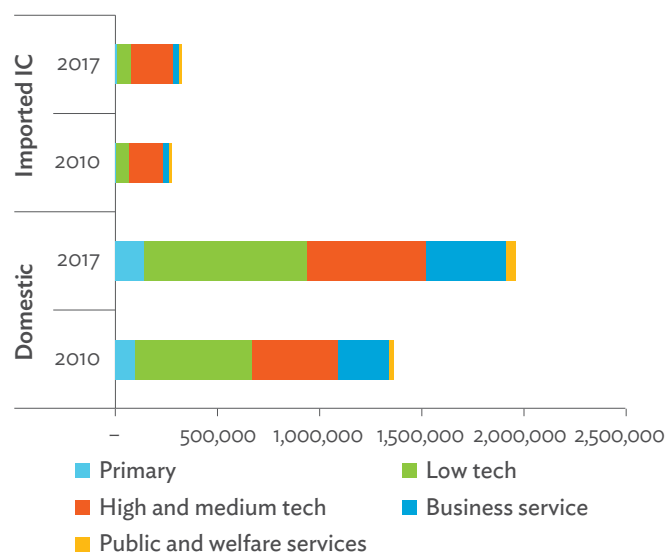


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

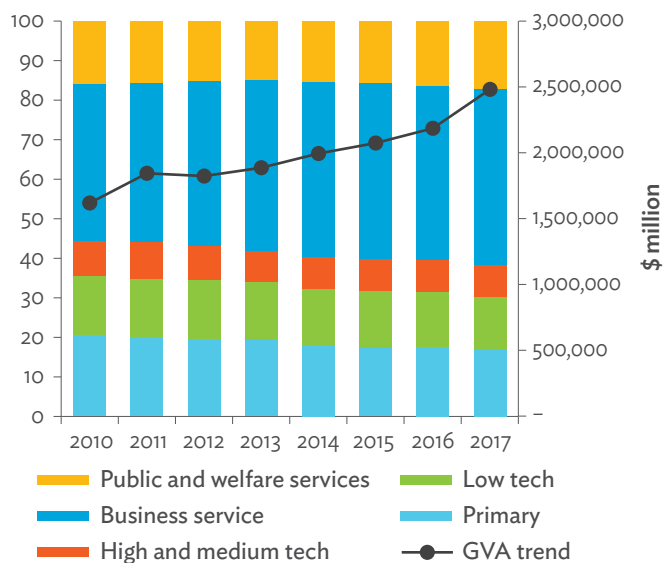


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

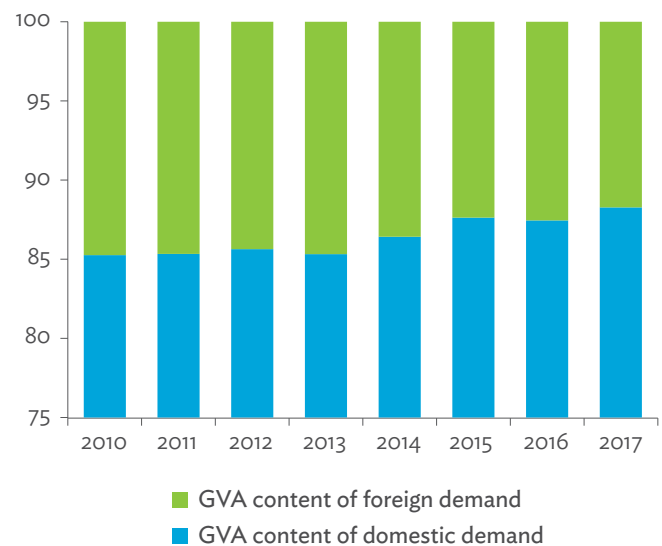


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

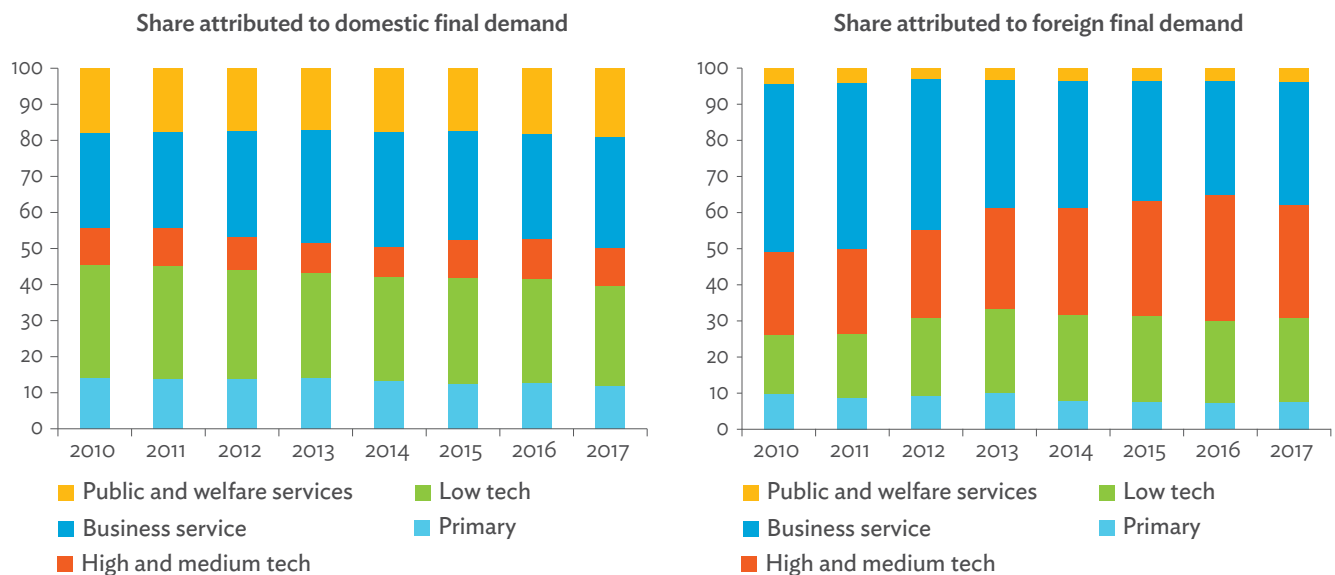


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 3.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.985	0.983	0.982	0.985	0.986	0.999	1.003	1.002
Mining and quarrying	0.909	0.910	0.895	0.896	0.898	0.860	0.872	0.855
Food, beverages, and tobacco	0.911	0.908	0.900	0.908	0.911	0.934	0.936	0.935
Textiles and textile products	0.830	0.826	0.831	0.839	0.845	0.870	0.871	0.867
Leather, leather products, and footwear	0.846	0.813	0.824	0.834	0.831	0.856	0.857	0.854
Wood and products of wood and cork	0.881	0.879	0.880	0.879	0.883	0.901	0.918	0.899
Pulp, paper, paper products, printing, and publishing	0.728	0.713	0.697	0.698	0.702	0.729	0.737	0.722
Coke, refined petroleum, and nuclear fuel	0.386	0.330	0.305	0.301	0.305	0.391	0.590	0.385
Chemicals and chemical products	0.666	0.673	0.636	0.645	0.653	0.695	0.753	0.688
Rubber and plastics	0.682	0.665	0.644	0.652	0.654	0.689	0.715	0.681
Other nonmetallic minerals	0.710	0.701	0.644	0.651	0.669	0.698	0.730	0.690
Basic metals and fabricated metal	0.569	0.568	0.490	0.506	0.536	0.581	0.560	0.570
Machinery, nec	0.592	0.595	0.580	0.606	0.629	0.677	0.688	0.669
Electrical and optical equipment	0.624	0.611	0.599	0.616	0.637	0.686	0.705	0.678
Transport equipment	0.605	0.598	0.579	0.599	0.615	0.667	0.687	0.659
Manufacturing, nec; recycling	0.582	0.594	0.674	0.670	0.701	0.739	0.742	0.733
Electricity, gas, and water supply	0.778	0.770	0.716	0.722	0.742	0.775	0.770	0.769
Construction	0.758	0.753	0.731	0.743	0.756	0.778	0.769	0.770
Sale, maintenance, and repair	0.951	0.952	0.955	0.956	0.959	0.961	0.956	0.960
Wholesale trade and commission trade	0.951	0.952	0.955	0.957	0.959	0.961	0.956	0.960
Retail trade	0.951	0.952	0.955	0.957	0.959	0.961	0.956	0.960
Hotels and restaurants	0.904	0.902	0.894	0.901	0.901	0.920	0.777	0.920
Inland transport	0.727	0.715	0.726	0.732	0.734	0.746	0.577	0.736
Water transport	0.815	0.834	0.803	0.810	0.851	0.869	0.880	0.866
Air transport	0.755	0.761	0.904	0.841	0.849	0.869	0.883	0.864
Other supporting and auxiliary transport activities	0.883	0.888	0.894	0.893	0.899	0.906	0.888	0.903
Post and telecommunications	0.881	0.875	0.881	0.916	0.921	0.930	0.940	0.928
Financial intermediation	0.954	0.955	0.956	0.960	0.961	0.964	0.956	0.962
Real estate activities	0.981	0.980	0.981	0.981	0.982	0.985	0.984	0.985
Renting of M&Eq and other business activities	0.865	0.883	0.898	0.925	0.931	0.939	0.941	0.938
Public administration and defense; compulsory social security	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Education	0.972	0.973	0.975	0.976	0.976	0.978	0.973	0.977
Health and social work	0.850	0.851	0.846	0.849	0.851	0.869	0.854	0.866
Other community, social, and personal services	0.918	0.921	0.932	0.934	0.938	0.943	0.947	0.943
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 3.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.029	0.030	0.032	0.030	0.031	0.027	0.024	0.027
Mining and quarrying	0.062	0.062	0.072	0.069	0.066	0.095	0.078	0.097
Food, beverages, and tobacco	0.090	0.091	0.098	0.091	0.089	0.076	0.076	0.077
Textiles and textile products	0.141	0.143	0.138	0.130	0.124	0.106	0.103	0.106
Leather, leather products, and footwear	0.135	0.159	0.148	0.138	0.141	0.121	0.119	0.121
Wood and products of wood and cork	0.095	0.097	0.095	0.094	0.090	0.076	0.058	0.076
Pulp, paper, paper products, printing, and publishing	0.192	0.203	0.213	0.209	0.204	0.174	0.160	0.174
Coke, refined petroleum, and nuclear fuel	0.507	0.556	0.583	0.577	0.577	0.538	0.319	0.538
Chemicals and chemical products	0.262	0.255	0.285	0.276	0.267	0.234	0.168	0.236
Rubber and plastics	0.228	0.239	0.253	0.244	0.239	0.203	0.169	0.203
Other nonmetallic minerals	0.203	0.211	0.261	0.251	0.233	0.204	0.164	0.205
Basic metals and fabricated metal	0.316	0.320	0.387	0.366	0.336	0.272	0.280	0.266
Machinery, nec	0.292	0.292	0.303	0.274	0.250	0.201	0.178	0.197
Electrical and optical equipment	0.267	0.280	0.288	0.267	0.244	0.200	0.170	0.197
Transport equipment	0.286	0.294	0.308	0.286	0.269	0.222	0.190	0.218
Manufacturing, nec; recycling	0.330	0.320	0.242	0.243	0.210	0.177	0.168	0.176
Electricity, gas, and water supply	0.172	0.180	0.229	0.221	0.202	0.182	0.183	0.183
Construction	0.165	0.171	0.188	0.173	0.158	0.129	0.127	0.122
Sale, maintenance, and repair	0.034	0.033	0.030	0.029	0.025	0.021	0.026	0.022
Wholesale trade and commission trade	0.034	0.033	0.030	0.027	0.025	0.021	0.026	0.021
Retail trade	0.034	0.033	0.030	0.027	0.025	0.021	0.026	0.021
Hotels and restaurants	0.085	0.086	0.092	0.085	0.085	0.072	0.216	0.072
Inland transport	0.178	0.189	0.176	0.165	0.160	0.139	0.310	0.139
Water transport	0.156	0.138	0.168	0.162	0.118	0.102	0.086	0.101
Air transport	0.177	0.170	0.068	0.106	0.097	0.086	0.065	0.086
Other supporting and auxiliary transport activities	0.086	0.080	0.074	0.072	0.066	0.056	0.072	0.056
Post and telecommunications	0.087	0.093	0.087	0.060	0.055	0.046	0.033	0.046
Financial intermediation	0.032	0.031	0.029	0.026	0.024	0.020	0.027	0.020
Real estate activities	0.012	0.013	0.012	0.011	0.010	0.007	0.008	0.006
Renting of M&Eq and other business activities	0.115	0.097	0.081	0.058	0.052	0.042	0.039	0.042
Public administration and defense; compulsory social security	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Education	0.020	0.019	0.018	0.016	0.016	0.013	0.018	0.013
Health and social work	0.113	0.111	0.114	0.111	0.108	0.092	0.105	0.093
Other community, social, and personal services	0.060	0.057	0.045	0.042	0.038	0.030	0.025	0.030
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 3.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.350	1.344	1.344	1.349	1.353	1.375	1.370	1.369
Mining and quarrying	1.310	1.314	1.322	1.332	1.339	1.592	1.641	1.592
Food, beverages, and tobacco	2.322	2.338	2.278	2.269	2.277	2.321	2.310	2.309
Textiles and textile products	2.291	2.315	2.216	2.196	2.208	2.259	2.258	2.243
Leather, leather products, and footwear	2.266	2.315	2.227	2.205	2.203	2.262	2.262	2.246
Wood and products of wood and cork	1.873	1.854	1.783	1.777	1.787	1.810	1.830	1.804
Pulp, paper, paper products, printing, and publishing	2.185	2.244	2.181	2.155	2.163	2.219	2.250	2.200
Coke, refined petroleum, and nuclear fuel	1.463	1.486	1.320	1.312	1.327	1.558	2.014	1.547
Chemicals and chemical products	2.147	2.146	2.076	2.063	2.089	2.185	2.338	2.170
Rubber and plastics	2.268	2.347	2.287	2.271	2.281	2.340	2.413	2.319
Other nonmetallic minerals	1.962	1.977	1.815	1.806	1.855	1.923	2.012	1.903
Basic metals and fabricated metal	1.979	1.956	1.785	1.810	1.884	1.933	1.895	1.897
Machinery, nec	2.092	2.063	1.950	1.990	2.036	2.082	2.113	2.047
Electrical and optical equipment	2.148	2.115	2.038	2.055	2.102	2.158	2.205	2.124
Transport equipment	2.205	2.213	2.105	2.126	2.151	2.225	2.281	2.189
Manufacturing, nec; recycling	1.991	2.057	2.136	2.102	2.179	2.239	2.268	2.221
Electricity, gas, and water supply	1.798	1.802	1.682	1.674	1.724	1.804	1.807	1.791
Construction	2.006	2.011	1.934	1.940	1.969	1.972	1.957	1.900
Sale, maintenance, and repair	1.236	1.241	1.232	1.222	1.228	1.231	1.222	1.228
Wholesale trade and commission trade	1.236	1.241	1.232	1.226	1.228	1.231	1.222	1.228
Retail trade	1.236	1.241	1.232	1.226	1.228	1.231	1.222	1.228
Hotels and restaurants	2.093	2.108	2.058	2.053	2.058	2.094	1.822	2.078
Inland transport	1.805	1.820	1.774	1.773	1.774	1.797	1.409	1.773
Water transport	1.445	1.465	1.429	1.371	1.453	1.487	1.515	1.475
Air transport	1.682	1.711	1.293	1.498	1.525	1.557	1.596	1.543
Other supporting and auxiliary transport activities	1.638	1.653	1.597	1.616	1.625	1.634	1.601	1.625
Post and telecommunications	1.340	1.320	1.297	1.215	1.228	1.242	1.268	1.234
Financial intermediation	1.259	1.263	1.251	1.240	1.242	1.245	1.232	1.240
Real estate activities	1.152	1.156	1.137	1.143	1.144	1.137	1.134	1.130
Renting of M&Eq and other business activities	1.359	1.388	1.390	1.315	1.322	1.326	1.329	1.320
Public administration and defense; compulsory social security	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Education	1.157	1.161	1.160	1.155	1.156	1.157	1.147	1.155
Health and social work	1.578	1.589	1.569	1.560	1.568	1.602	1.573	1.596
Other community, social, and personal services	1.217	1.228	1.258	1.249	1.258	1.259	1.269	1.255
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

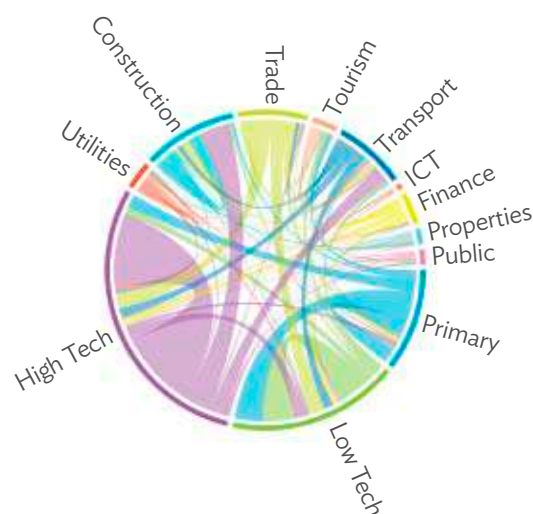
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 3.2

### India

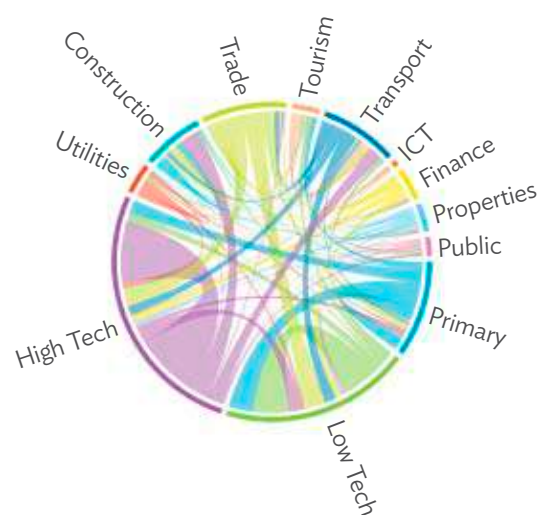
**Figure 3.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

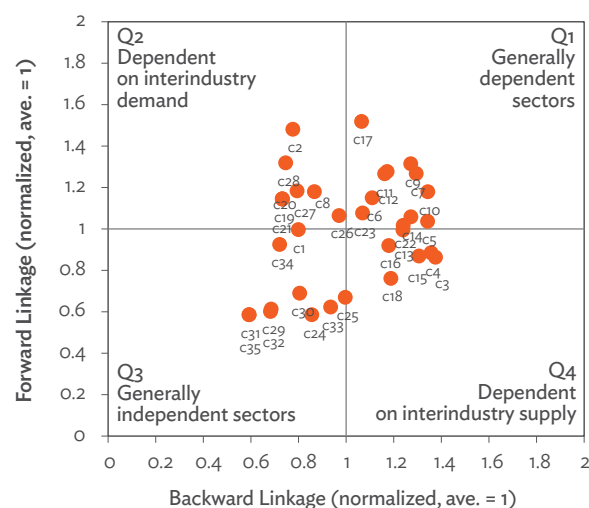
**Figure 3.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

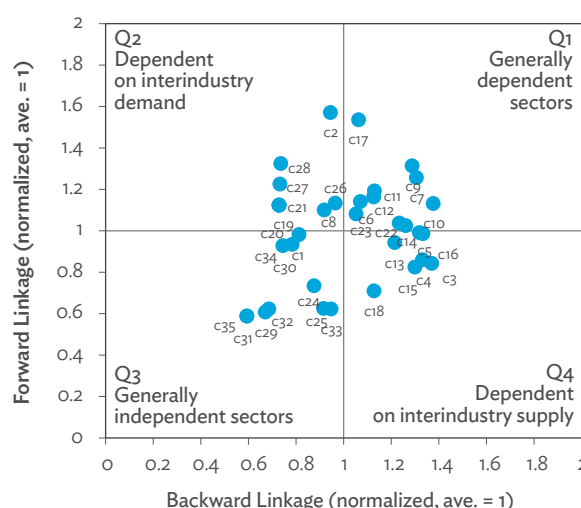
**Figure 3.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

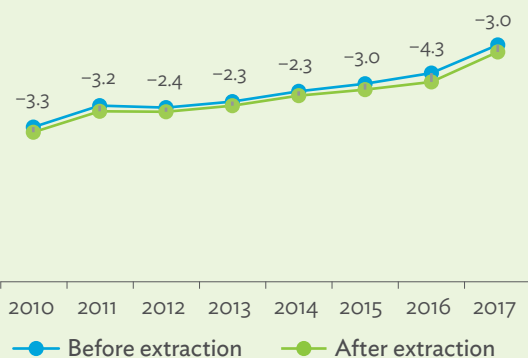
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**Figure 3.2.2b: Backward and Forward Linkages by Industry, 2017**

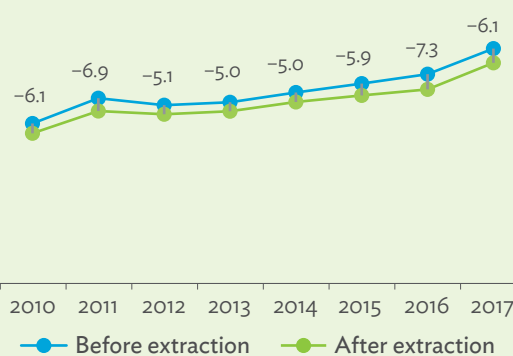


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

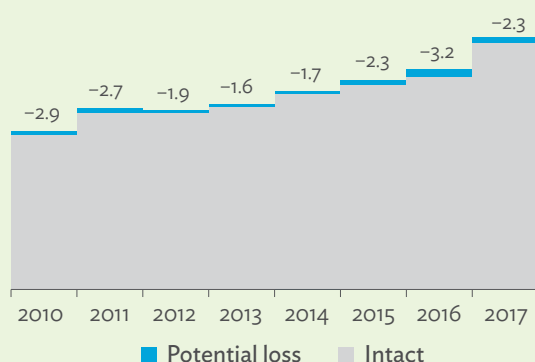
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**Box 3: Hypothetical Extraction of Coke, Refined Petroleum, and Nuclear Fuel Industry in India****Figure 3.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**

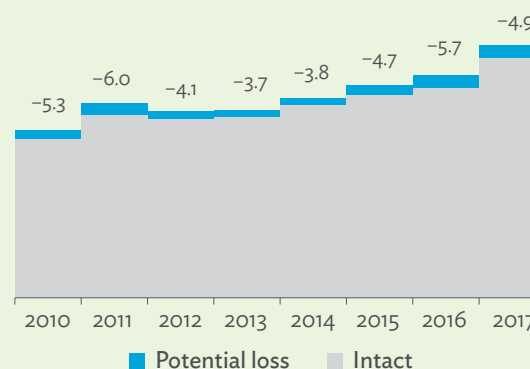
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 3.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**

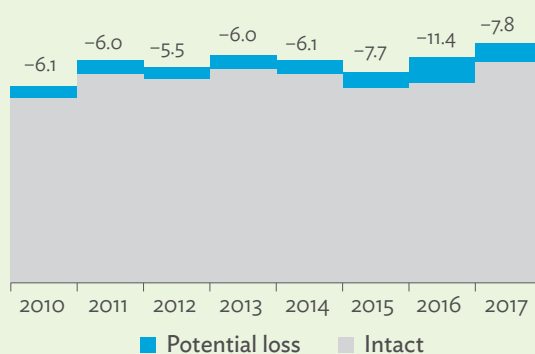
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 3.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**

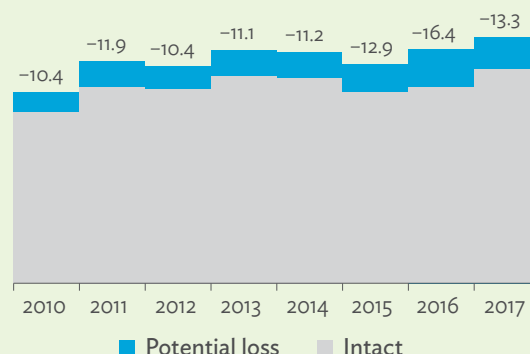
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 3.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 3.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**


Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 3.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 3.2.1: Input–Output Backward Linkage**



	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.799	0.791	0.820	0.824	0.817	0.809	0.802	0.812
Mining and quarrying	0.776	0.773	0.806	0.813	0.808	0.936	0.961	0.944
Food, beverages, and tobacco	1.376	1.375	1.390	1.386	1.375	1.365	1.352	1.370
Textiles and textile products	1.357	1.362	1.351	1.341	1.333	1.329	1.322	1.331
Leather, leather products, and footwear	1.342	1.362	1.358	1.347	1.330	1.331	1.324	1.333
Wood and products of wood and cork	1.110	1.091	1.087	1.086	1.079	1.065	1.071	1.070
Pulp, paper, paper products, printing, and publishing	1.294	1.320	1.330	1.316	1.306	1.305	1.317	1.306
Coke, refined petroleum, and nuclear fuel	0.867	0.875	0.805	0.801	0.801	0.917	1.179	0.918
Chemicals and chemical products	1.272	1.263	1.266	1.260	1.262	1.286	1.369	1.287
Rubber and plastics	1.343	1.381	1.395	1.387	1.377	1.377	1.413	1.376
Other nonmetallic minerals	1.162	1.163	1.107	1.103	1.120	1.132	1.178	1.129
Basic metals and fabricated metal	1.172	1.151	1.089	1.106	1.138	1.137	1.109	1.126
Machinery, nec	1.239	1.214	1.189	1.216	1.230	1.225	1.237	1.215
Electrical and optical equipment	1.272	1.244	1.243	1.255	1.269	1.270	1.291	1.261
Transport equipment	1.306	1.302	1.284	1.299	1.299	1.309	1.336	1.299
Manufacturing, nec; recycling	1.179	1.211	1.303	1.284	1.316	1.318	1.328	1.318
Electricity, gas, and water supply	1.065	1.060	1.026	1.023	1.041	1.062	1.058	1.063
Construction	1.188	1.183	1.180	1.185	1.189	1.160	1.146	1.128
Sale, maintenance, and repair	0.732	0.730	0.751	0.747	0.742	0.724	0.715	0.729
Wholesale trade and commission trade	0.732	0.730	0.751	0.749	0.742	0.724	0.715	0.729
Retail trade	0.732	0.730	0.751	0.749	0.742	0.724	0.715	0.729
Hotels and restaurants	1.240	1.241	1.255	1.254	1.242	1.232	1.067	1.233
Inland transport	1.069	1.071	1.082	1.083	1.071	1.058	0.825	1.052
Water transport	0.856	0.862	0.871	0.838	0.877	0.875	0.887	0.876
Air transport	0.996	1.007	0.788	0.915	0.921	0.916	0.934	0.916
Other supporting and auxiliary transport activities	0.970	0.973	0.974	0.987	0.981	0.962	0.937	0.965
Post and telecommunications	0.794	0.777	0.791	0.742	0.741	0.731	0.742	0.732
Financial intermediation	0.746	0.743	0.763	0.757	0.750	0.732	0.721	0.736
Real estate activities	0.682	0.680	0.694	0.698	0.691	0.669	0.664	0.671
Renting of M&Eq and other business activities	0.805	0.817	0.848	0.803	0.798	0.780	0.778	0.783
Public administration and defense; compulsory social security	0.592	0.588	0.610	0.611	0.604	0.588	0.585	0.593
Education	0.685	0.683	0.707	0.706	0.698	0.681	0.672	0.685
Health and social work	0.935	0.935	0.957	0.953	0.947	0.942	0.921	0.947
Other community, social, and personal services	0.721	0.723	0.767	0.763	0.760	0.740	0.743	0.745
Private households with employed persons	0.592	0.588	0.610	0.611	0.604	0.588	0.585	0.593
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 3.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.997	0.994	0.982	0.970	0.967	0.980	0.959	0.982
Mining and quarrying	1.481	1.549	1.527	1.521	1.554	1.550	1.558	1.571
Food, beverages, and tobacco	0.863	0.869	0.835	0.828	0.828	0.835	0.820	0.843
Textiles and textile products	0.885	0.862	0.859	0.844	0.840	0.855	0.853	0.860
Leather, leather products, and footwear	1.037	0.981	0.978	0.951	0.950	0.983	0.963	0.986
Wood and products of wood and cork	1.150	1.141	1.188	1.180	1.181	1.142	1.169	1.141
Pulp, paper, paper products, printing, and publishing	1.268	1.269	1.242	1.216	1.216	1.250	1.268	1.257
Coke, refined petroleum, and nuclear fuel	1.180	1.185	1.079	1.048	1.066	1.088	1.099	1.100
Chemicals and chemical products	1.315	1.328	1.275	1.254	1.287	1.294	1.357	1.314
Rubber and plastics	1.180	1.170	1.172	1.174	1.181	1.141	1.136	1.132
Other nonmetallic minerals	1.266	1.261	1.281	1.295	1.279	1.205	1.212	1.193
Basic metals and fabricated metal	1.277	1.287	1.253	1.272	1.284	1.189	1.191	1.163
Machinery, nec	0.995	0.984	0.990	1.014	1.008	0.963	0.958	0.943
Electrical and optical equipment	1.059	1.018	1.032	1.051	1.074	1.053	1.042	1.025
Transport equipment	0.869	0.858	0.877	0.880	0.852	0.840	0.815	0.825
Manufacturing, nec; recycling	0.920	0.905	1.041	1.023	1.036	0.989	1.025	0.991
Electricity, gas, and water supply	1.519	1.514	1.481	1.468	1.477	1.537	1.551	1.536
Construction	0.761	0.763	0.781	0.799	0.794	0.728	0.713	0.710
Sale, maintenance, and repair	1.145	1.143	1.118	1.121	1.124	1.133	1.122	1.124
Wholesale trade and commission trade	1.145	1.143	1.118	1.121	1.124	1.133	1.122	1.124
Retail trade	1.145	1.143	1.118	1.121	1.124	1.133	1.122	1.124
Hotels and restaurants	1.017	1.013	1.016	1.015	1.015	1.033	0.946	1.037
Inland transport	1.077	1.078	1.062	1.059	1.061	1.086	1.094	1.082
Water transport	0.586	0.584	0.599	0.624	0.659	0.716	0.723	0.735
Air transport	0.670	0.722	0.757	0.785	0.624	0.617	0.626	0.625
Other supporting and auxiliary transport activities	1.065	1.086	1.099	1.122	1.128	1.138	1.140	1.134
Post and telecommunications	1.184	1.184	1.177	1.156	1.165	1.229	1.223	1.226
Financial intermediation	1.319	1.317	1.297	1.290	1.293	1.324	1.334	1.325
Real estate activities	0.602	0.601	0.614	0.617	0.614	0.598	0.600	0.608
Renting of M&Eq and other business activities	0.690	0.735	0.792	0.849	0.883	0.929	0.931	0.934
Public administration and defense; compulsory social security	0.586	0.584	0.599	0.603	0.598	0.579	0.581	0.588
Education	0.613	0.617	0.630	0.626	0.620	0.612	0.616	0.623
Health and social work	0.623	0.623	0.635	0.632	0.628	0.614	0.611	0.623
Other community, social, and personal services	0.925	0.906	0.898	0.872	0.869	0.925	0.936	0.928
Private households with employed persons	0.586	0.584	0.599	0.603	0.598	0.579	0.581	0.588
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

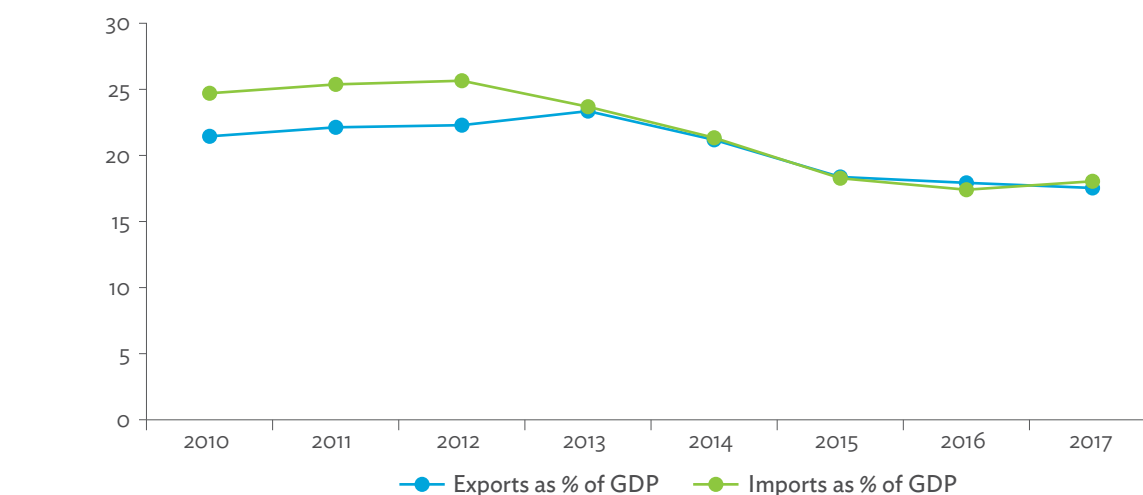
Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 3.3

### India

**Figure 3.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

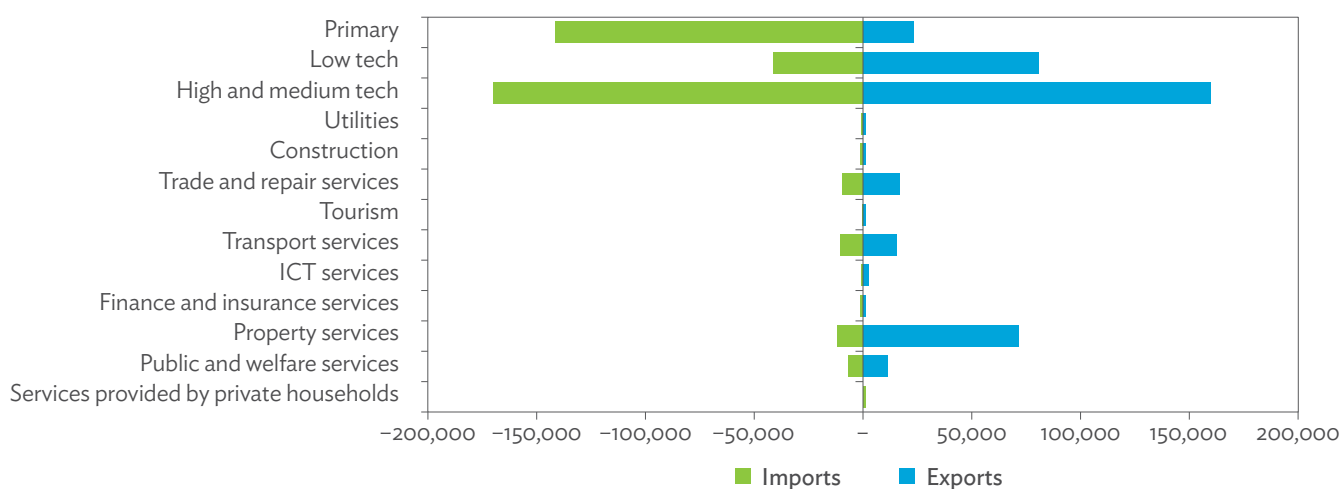


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



**Figure 3.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

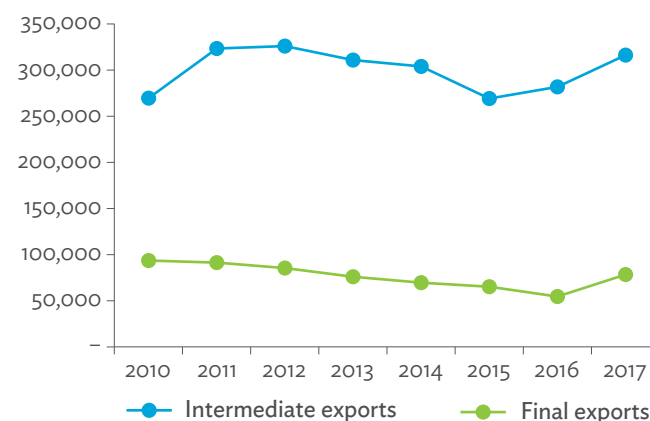


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

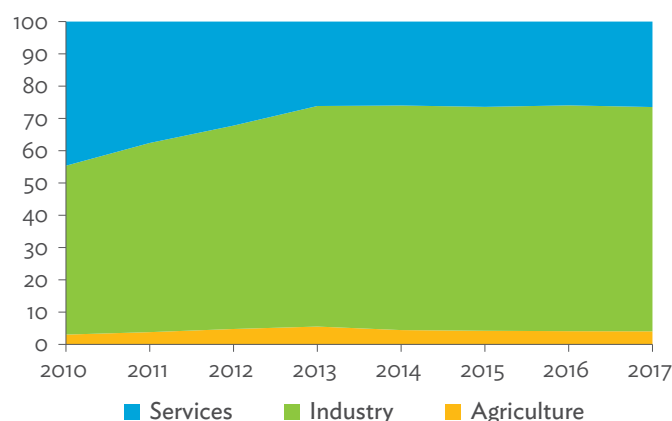


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

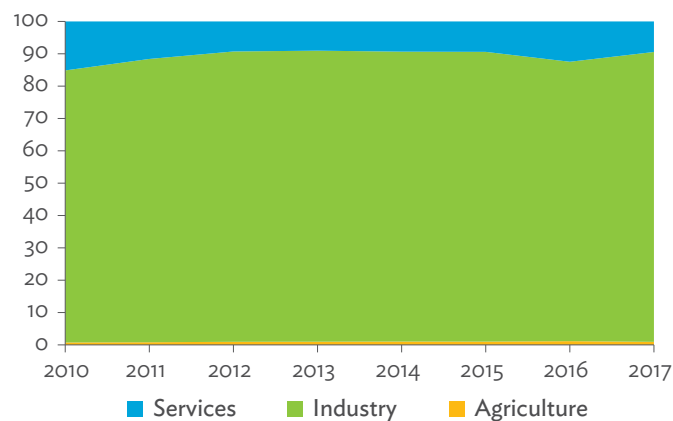
**Figure 3.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

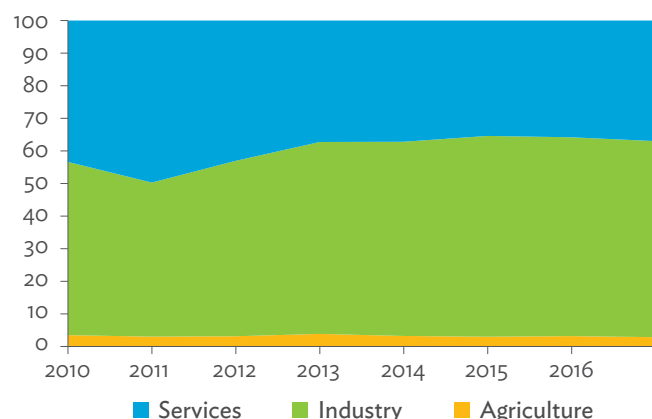
**Figure 3.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

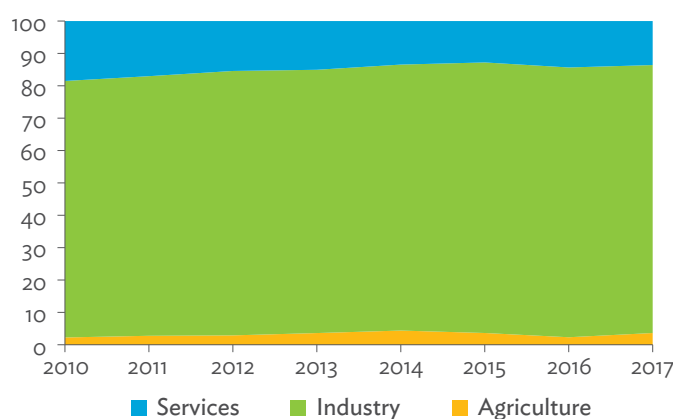
**Figure 3.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

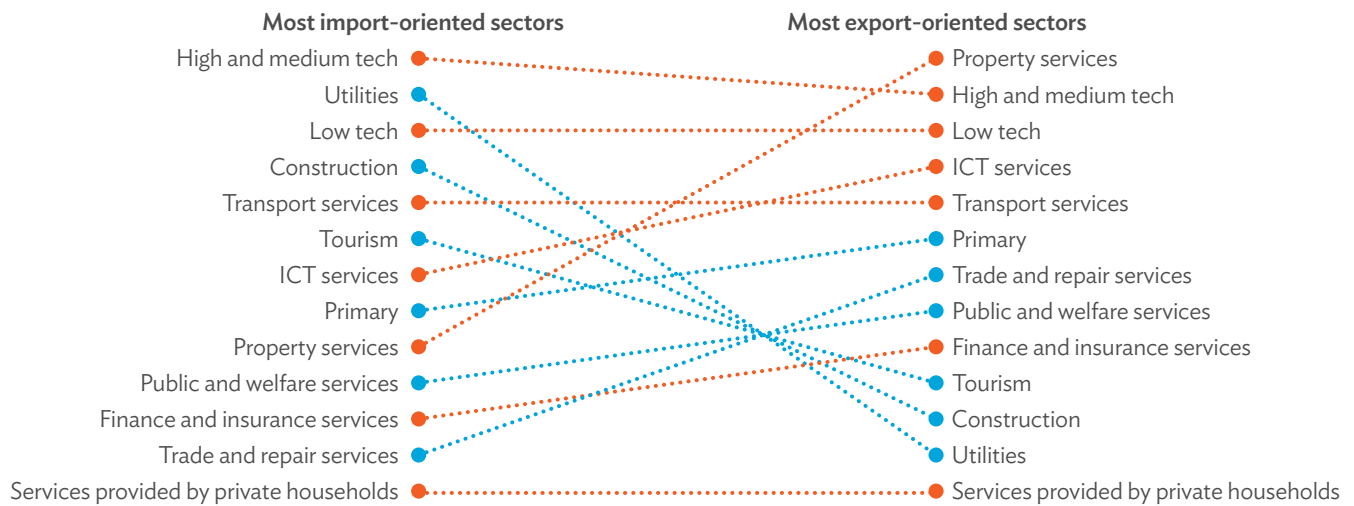
**Figure 3.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

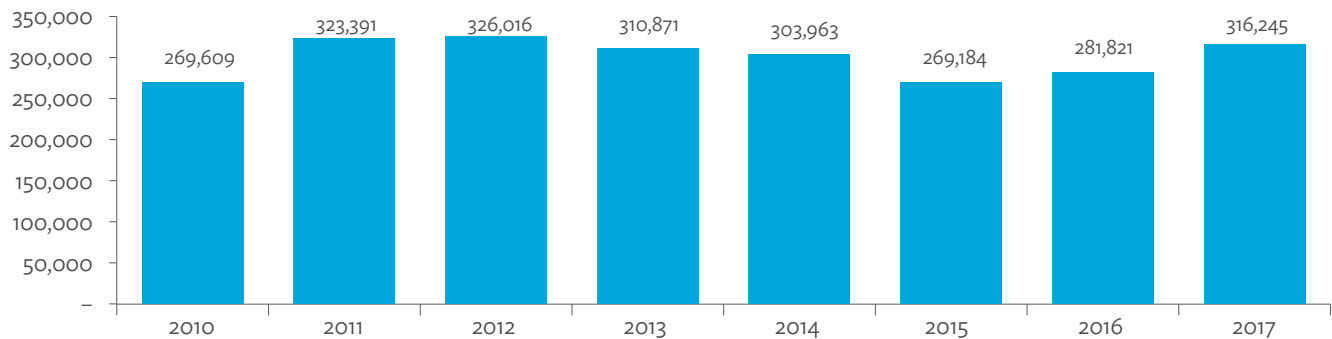


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

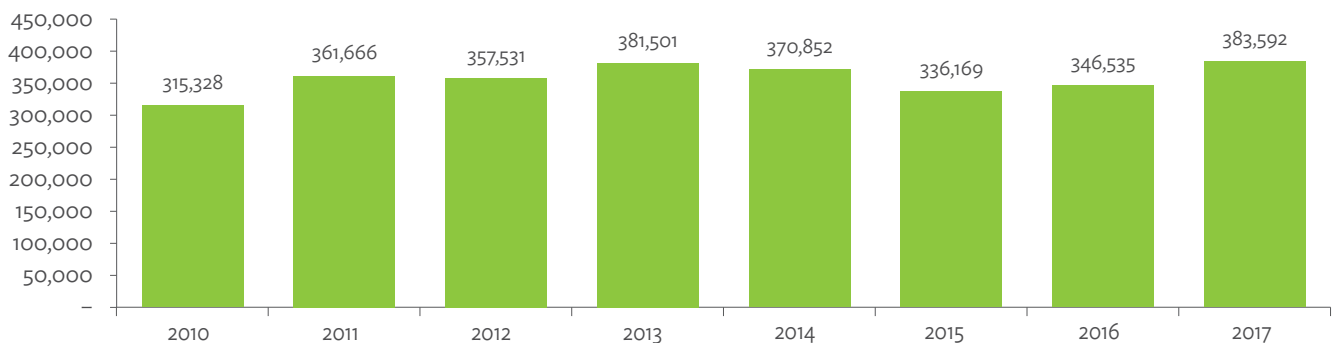


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

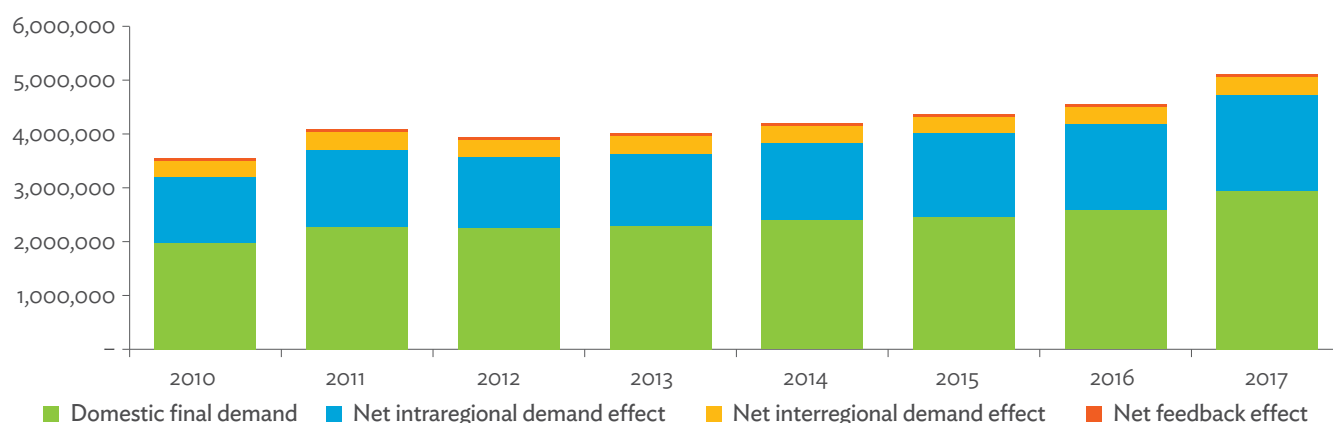


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

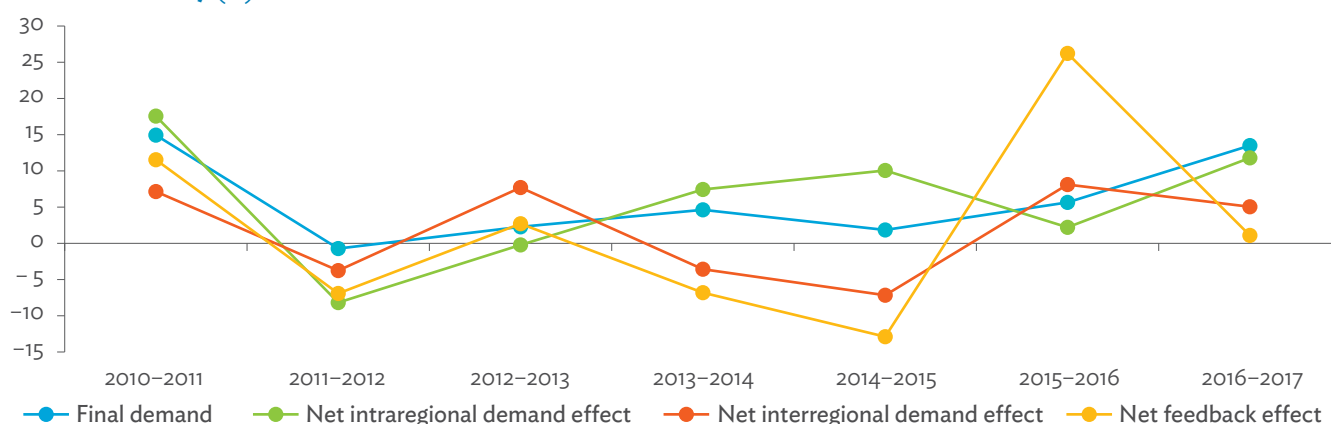


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

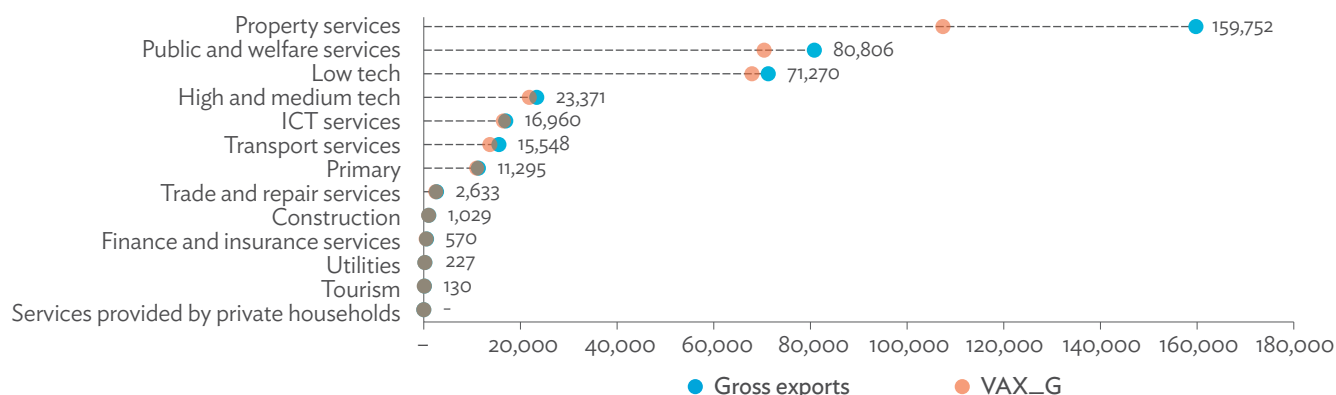
**Figure 3.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

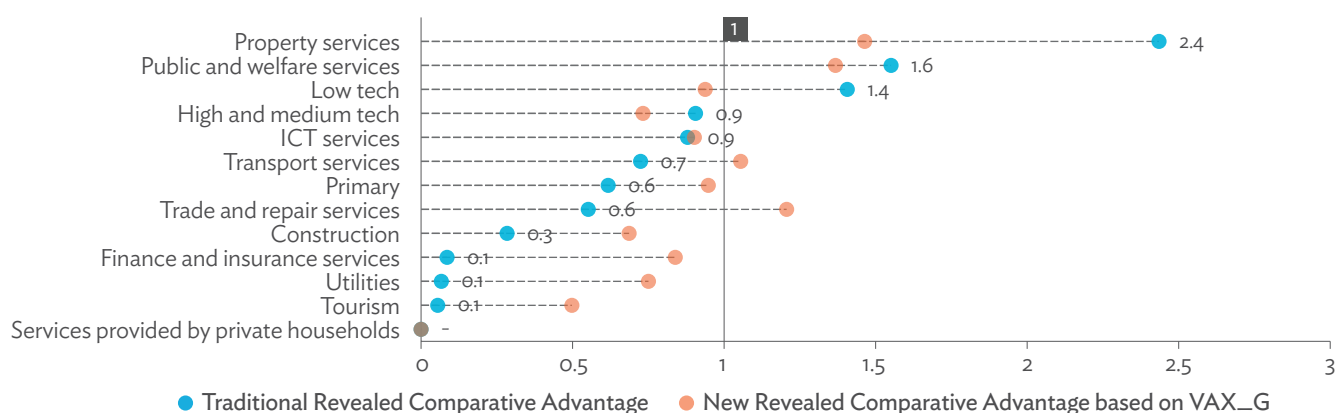


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 3.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	224,460	244,084	247,237	260,502	256,979	245,973	267,164	285,677
Low tech	598,224	697,264	682,469	680,929	703,848	733,322	748,688	825,083
High and medium tech	350,314	416,200	397,381	399,660	411,743	444,469	467,047	538,909
Business service	535,046	613,897	635,065	665,630	714,429	694,413	738,556	853,833
Personal service	265,981	297,444	290,413	297,148	323,456	336,788	372,264	440,306
Intraregional effects (M1)								
Primary	190,148	212,596	195,621	192,262	191,477	215,427	219,627	245,291
Low tech	269,041	310,837	311,176	304,400	324,921	347,907	351,299	378,252
High and medium tech	390,222	475,138	385,172	372,124	400,163	416,087	437,244	477,466
Business service	364,121	428,941	418,516	439,651	488,837	562,105	565,492	657,004
Personal service	16,158	18,162	16,933	16,071	17,599	24,632	27,101	31,629

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	35,763	37,378	38,589	41,540	33,825	33,362	36,406	38,333
Low tech	48,112	55,559	59,165	64,151	61,700	59,200	63,008	65,522
High and medium tech	118,420	141,380	138,103	161,473	160,397	140,651	153,534	160,307
Business service	133,689	126,232	111,511	107,414	105,185	101,132	108,250	115,228
Personal service	3,925	3,657	3,137	2,923	2,910	3,596	4,166	4,415
Feedback effects (M3)								
Primary	275.09	276.63	267.46	268.58	213.43	205.45	262.61	266.52
Low tech	267.76	314.00	311.64	322.37	300.26	275.22	353.44	341.04
High and medium tech	864.98	1,061.49	1,018.52	1,124.08	1,073.95	872.81	1,102.01	1,118.04
Business service	731.05	736.73	627.92	572.97	544.25	498.06	617.28	635.02
Personal service	22.31	21.75	18.26	16.51	15.64	19.17	25.88	26.44

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 3.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3496	0.3443	0.3443	0.3492	0.3528	0.3748	0.3702	0.3689
Mining and quarrying	0.3104	0.3139	0.3216	0.3315	0.3388	0.5916	0.6414	0.5915
Food, beverages, and tobacco	1.3224	1.3376	1.2784	1.2691	1.2771	1.3205	1.3095	1.3089
Textiles and textile products	1.2911	1.3147	1.2157	1.1957	1.2082	1.2594	1.2583	1.2433
Leather, leather products, and footwear	1.2662	1.3149	1.2268	1.2052	1.2031	1.2618	1.2617	1.2459
Wood and products of wood and cork	0.8733	0.8535	0.7829	0.7773	0.7868	0.8104	0.8300	0.8036
Pulp, paper, paper products, printing, and publishing	1.1854	1.2440	1.1813	1.1551	1.1631	1.2187	1.2496	1.2001
Coke, refined petroleum, and nuclear fuel	0.4633	0.4864	0.3202	0.3117	0.3269	0.5583	1.0141	0.5475
Chemicals and chemical products	1.1467	1.1458	1.0762	1.0633	1.0893	1.1849	1.3377	1.1696
Rubber and plastics	1.2677	1.3469	1.2871	1.2706	1.2812	1.3404	1.4130	1.3189
Other nonmetallic minerals	0.9615	0.9769	0.8149	0.8064	0.8550	0.9231	1.0117	0.9031
Basic metals and fabricated metal	0.9792	0.9558	0.7852	0.8102	0.8842	0.9326	0.8948	0.8975
Machinery, nec	1.0917	1.0630	0.9499	0.9899	1.0364	1.0817	1.1131	1.0469
Electrical and optical equipment	1.1479	1.1150	1.0377	1.0550	1.1022	1.1577	1.2053	1.1243
Transport equipment	1.2050	1.2127	1.1049	1.1265	1.1507	1.2250	1.2814	1.1893
Manufacturing, nec; recycling	0.9909	1.0573	1.1363	1.1020	1.1789	1.2394	1.2679	1.2210
Electricity, gas, and water supply	0.7979	0.8016	0.6824	0.6745	0.7239	0.8043	0.8075	0.7908
Construction	1.0057	1.0105	0.9341	0.9404	0.9694	0.9716	0.9573	0.9000
Sale, maintenance, and repair	0.2358	0.2415	0.2320	0.2224	0.2281	0.2306	0.2218	0.2278
Wholesale trade and commission trade	0.2358	0.2415	0.2320	0.2261	0.2281	0.2306	0.2218	0.2278
Retail trade	0.2358	0.2415	0.2320	0.2261	0.2281	0.2306	0.2218	0.2278
Hotels and restaurants	1.0932	1.1083	1.0579	1.0530	1.0575	1.0935	0.8219	1.0784
Inland transport	0.8049	0.8200	0.7737	0.7732	0.7744	0.7973	0.4086	0.7728
Water transport	0.4448	0.4647	0.4287	0.3712	0.4530	0.4873	0.5148	0.4755
Air transport	0.6822	0.7111	0.2926	0.4984	0.5245	0.5571	0.5959	0.5430
Other supporting and auxiliary transport activities	0.6383	0.6533	0.5975	0.6165	0.6255	0.6343	0.6009	0.6255
Post and telecommunications	0.3405	0.3197	0.2973	0.2145	0.2277	0.2416	0.2678	0.2340
Financial intermediation	0.2594	0.2632	0.2509	0.2397	0.2419	0.2445	0.2324	0.2400
Real estate activities	0.1518	0.1557	0.1374	0.1427	0.1439	0.1369	0.1335	0.1302
Renting of M&Eq and other business activities	0.3588	0.3884	0.3903	0.3147	0.3219	0.3265	0.3293	0.3203
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.1565	0.1607	0.1598	0.1551	0.1557	0.1571	0.1471	0.1551
Health and social work	0.5784	0.5892	0.5693	0.5596	0.5678	0.6018	0.5731	0.5962
Other community, social, and personal services	0.2167	0.2283	0.2581	0.2494	0.2582	0.2585	0.2688	0.2547
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 3.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0676	0.0706	0.0769	0.0747	0.0756	0.0671	0.0611	0.0674
Mining and quarrying	0.1427	0.1461	0.1687	0.1651	0.1590	0.2293	0.1925	0.2317
Food, beverages, and tobacco	0.2086	0.2151	0.2337	0.2213	0.2160	0.1860	0.1920	0.1871
Textiles and textile products	0.3308	0.3426	0.3326	0.3215	0.3074	0.2641	0.2652	0.2638
Leather, leather products, and footwear	0.3292	0.4035	0.3764	0.3605	0.3740	0.3214	0.3173	0.3237
Wood and products of wood and cork	0.2129	0.2200	0.2151	0.2158	0.2084	0.1763	0.1433	0.1770
Pulp, paper, paper products, printing, and publishing	0.4443	0.4786	0.5005	0.5008	0.4901	0.4190	0.3944	0.4185
Coke, refined petroleum, and nuclear fuel	0.9925	1.0938	1.1467	1.1616	1.1730	1.1247	0.6878	1.1269
Chemicals and chemical products	0.6300	0.6276	0.6975	0.6906	0.6747	0.5926	0.4285	0.5958
Rubber and plastics	0.5627	0.6026	0.6426	0.6308	0.6203	0.5269	0.4438	0.5284
Other nonmetallic minerals	0.4405	0.4626	0.5574	0.5467	0.5134	0.4586	0.3858	0.4591
Basic metals and fabricated metal	0.7513	0.7795	0.9071	0.8614	0.7956	0.6532	0.6915	0.6496
Machinery, nec	0.7325	0.7527	0.7824	0.7094	0.6478	0.5306	0.4706	0.5220
Electrical and optical equipment	0.6720	0.7293	0.7481	0.7017	0.6414	0.5324	0.4518	0.5257
Transport equipment	0.7416	0.7779	0.8150	0.7622	0.7201	0.6043	0.5133	0.5974
Manufacturing, nec; recycling	0.7861	0.7780	0.5659	0.5771	0.5033	0.4300	0.4231	0.4271
Electricity, gas, and water supply	0.3686	0.3905	0.4814	0.4732	0.4378	0.4014	0.4145	0.4029
Construction	0.3859	0.4085	0.4427	0.4135	0.3795	0.3112	0.3183	0.2969
Sale, maintenance, and repair	0.0742	0.0747	0.0678	0.0675	0.0584	0.0495	0.0651	0.0499
Wholesale trade and commission trade	0.0742	0.0744	0.0677	0.0625	0.0582	0.0493	0.0650	0.0497
Retail trade	0.0742	0.0745	0.0676	0.0625	0.0583	0.0494	0.0651	0.0498
Hotels and restaurants	0.2020	0.2068	0.2227	0.2104	0.2112	0.1792	0.5510	0.1789
Inland transport	0.3908	0.4177	0.3994	0.3846	0.3732	0.3266	0.8202	0.3258
Water transport	0.3740	0.3405	0.4094	0.4045	0.3092	0.2672	0.2260	0.2659
Air transport	0.4149	0.4023	0.1587	0.2556	0.2355	0.2090	0.1627	0.2086
Other supporting and auxiliary transport activities	0.1924	0.1844	0.1731	0.1717	0.1572	0.1332	0.1826	0.1326
Post and telecommunications	0.2173	0.2417	0.2243	0.1582	0.1444	0.1232	0.0853	0.1218
Financial intermediation	0.0732	0.0741	0.0697	0.0634	0.0591	0.0497	0.0669	0.0491
Real estate activities	0.0280	0.0298	0.0281	0.0272	0.0242	0.0174	0.0190	0.0156
Renting of M&Eq and other business activities	0.2405	0.2112	0.1807	0.1313	0.1174	0.0965	0.0928	0.0953
Public administration and defense; compulsory social security	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0439	0.0429	0.0399	0.0376	0.0369	0.0309	0.0465	0.0309
Health and social work	0.2768	0.2803	0.2884	0.2861	0.2792	0.2385	0.2773	0.2410
Other community, social, and personal services	0.1396	0.1365	0.1069	0.1041	0.0922	0.0750	0.0617	0.0747
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 3.3-5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0003	0.0003	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003
Mining and quarrying	0.0006	0.0006	0.0007	0.0007	0.0007	0.0009	0.0008	0.0010
Food, beverages, and tobacco	0.0009	0.0009	0.0009	0.0009	0.0008	0.0007	0.0007	0.0007
Textiles and textile products	0.0016	0.0017	0.0016	0.0016	0.0015	0.0012	0.0012	0.0013
Leather, leather products, and footwear	0.0017	0.0020	0.0018	0.0019	0.0019	0.0015	0.0015	0.0016
Wood and products of wood and cork	0.0009	0.0009	0.0009	0.0010	0.0009	0.0007	0.0006	0.0007
Pulp, paper, paper products, printing, and publishing	0.0019	0.0020	0.0020	0.0022	0.0020	0.0016	0.0016	0.0017
Coke, refined petroleum, and nuclear fuel	0.0039	0.0039	0.0038	0.0041	0.0040	0.0037	0.0025	0.0041
Chemicals and chemical products	0.0031	0.0031	0.0034	0.0036	0.0032	0.0027	0.0020	0.0029
Rubber and plastics	0.0029	0.0031	0.0033	0.0035	0.0031	0.0025	0.0022	0.0027
Other nonmetallic minerals	0.0019	0.0019	0.0021	0.0022	0.0020	0.0017	0.0016	0.0018
Basic metals and fabricated metal	0.0034	0.0032	0.0034	0.0035	0.0031	0.0023	0.0027	0.0025
Machinery, nec	0.0034	0.0031	0.0031	0.0031	0.0027	0.0019	0.0019	0.0021
Electrical and optical equipment	0.0031	0.0030	0.0030	0.0030	0.0026	0.0019	0.0018	0.0021
Transport equipment	0.0034	0.0033	0.0033	0.0034	0.0030	0.0023	0.0021	0.0025
Manufacturing, nec; recycling	0.0037	0.0036	0.0024	0.0026	0.0021	0.0017	0.0018	0.0018
Electricity, gas, and water supply	0.0015	0.0015	0.0017	0.0018	0.0016	0.0014	0.0016	0.0015
Construction	0.0017	0.0017	0.0017	0.0017	0.0015	0.0011	0.0013	0.0012
Sale, maintenance, and repair	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0002
Wholesale trade and commission trade	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0002
Retail trade	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0002
Hotels and restaurants	0.0008	0.0008	0.0009	0.0009	0.0008	0.0006	0.0018	0.0007
Inland transport	0.0017	0.0017	0.0016	0.0016	0.0015	0.0012	0.0035	0.0013
Water transport	0.0017	0.0015	0.0017	0.0018	0.0014	0.0011	0.0010	0.0012
Air transport	0.0020	0.0018	0.0007	0.0012	0.0010	0.0009	0.0007	0.0009
Other supporting and auxiliary transport activities	0.0008	0.0007	0.0007	0.0007	0.0006	0.0005	0.0007	0.0005
Post and telecommunications	0.0009	0.0010	0.0009	0.0006	0.0005	0.0004	0.0003	0.0004
Financial intermediation	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0003	0.0002
Real estate activities	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Renting of M&Eq and other business activities	0.0009	0.0008	0.0006	0.0005	0.0004	0.0003	0.0003	0.0003
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0002	0.0001
Health and social work	0.0014	0.0014	0.0014	0.0015	0.0014	0.0011	0.0013	0.0012
Other community, social, and personal services	0.0006	0.0006	0.0004	0.0004	0.0004	0.0003	0.0002	0.0003
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 3.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	24,905	23,496	24,773	23,462	25,851	24,387	29,373	27,810	22,852	21,666	20,529	19,255	21,339	20,178	23,371	21,829
Low tech	49,020	39,719	61,641	49,850	70,578	58,744	80,192	67,450	78,131	66,640	72,844	63,644	73,766	64,806	80,806	70,423
High and medium tech	100,794	65,355	120,579	75,530	129,423	77,271	154,179	94,170	155,147	97,304	140,166	94,408	145,834	110,831	159,752	107,406
Utilities	3	2	3	2	4	3	72	56	124	99	117	95	118	96	130	105
Construction	1,187	982	958	788	788	635	764	627	706	590	571	495	553	480	570	497
Trade and repair services	20,538	19,623	23,611	22,594	20,279	19,484	17,206	16,609	16,671	16,147	14,404	14,018	14,924	14,455	16,960	16,473
Tourism	0	0	205	188	202	183	189	172	220	201	193	179	200	157	227	210
Transport services	21,611	17,886	22,185	18,358	18,268	15,458	15,489	13,120	15,335	13,219	14,090	12,425	13,681	11,014	15,548	13,675
ICT services	2,903	2,634	2,716	2,440	2,263	2,045	2,507	2,333	2,498	2,339	2,352	2,222	2,317	2,217	2,633	2,487
Finance and insurance services	1,652	1,580	1,563	1,497	1,347	1,294	1,160	1,120	1,088	1,053	956	929	912	882	1,029	999
Property services	81,877	71,664	91,934	82,468	80,554	73,560	70,610	66,175	68,118	64,279	60,876	58,036	63,158	60,407	71,270	67,900
Public and welfare services	10,837	10,193	11,498	10,848	7,973	7,618	9,759	9,346	9,964	9,591	9,070	8,796	9,732	9,492	11,295	10,957
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 3.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.726	0.983	0.564	0.846	0.594	0.916	0.668	0.992	0.568	0.917	0.631	0.949	0.652	0.980	0.617	0.948
Low tech	1.078	0.716	1.203	0.744	1.401	0.957	1.441	0.973	1.416	0.946	1.448	0.966	1.426	0.947	1.406	0.938
High and medium tech	0.683	0.604	0.713	0.635	0.780	0.674	0.878	0.752	0.909	0.768	0.899	0.722	0.919	0.739	0.906	0.732
Utilities	0.002	0.682	0.002	0.634	0.002	0.635	0.041	0.634	0.071	0.692	0.072	0.802	0.056	0.840	0.067	0.750
Construction	0.958	1.294	0.691	1.334	0.543	1.222	0.372	1.102	0.370	1.107	0.319	0.856	0.261	0.727	0.284	0.687
Trade and repair services	0.832	1.177	0.844	1.202	0.712	1.161	0.576	1.169	0.572	1.210	0.534	1.195	0.534	1.217	0.552	1.206
Tourism	0.000	0.630	0.054	0.671	0.055	0.567	0.047	0.459	0.055	0.465	0.053	0.501	0.047	0.425	0.055	0.498
Transport services	1.149	1.153	1.100	1.162	0.903	1.115	0.734	0.986	0.742	1.012	0.741	1.074	0.707	1.082	0.724	1.055
ICT services	1.372	1.112	1.193	1.072	0.915	0.961	0.958	1.005	0.970	1.043	0.996	1.158	0.908	1.041	0.879	0.902
Finance and insurance services	0.170	0.872	0.148	0.933	0.130	0.871	0.101	0.815	0.096	0.841	0.091	0.886	0.081	0.873	0.086	0.839
Property services	3.972	1.763	3.973	1.828	3.527	1.698	2.728	1.509	2.601	1.493	2.460	1.431	2.406	1.380	2.435	1.464
Public and welfare services	1.840	1.524	1.823	1.496	1.239	1.161	1.333	1.155	1.413	1.175	1.355	1.240	1.326	1.230	1.551	1.367
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

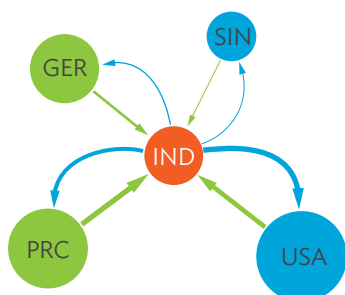
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 3.4

## GLOBAL VALUE CHAIN INDICATORS

### India

**Figure 3.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

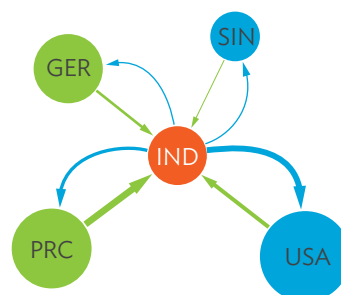
GER = Germany, IND = India, PRC = People's Republic of China, SIN = Singapore, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

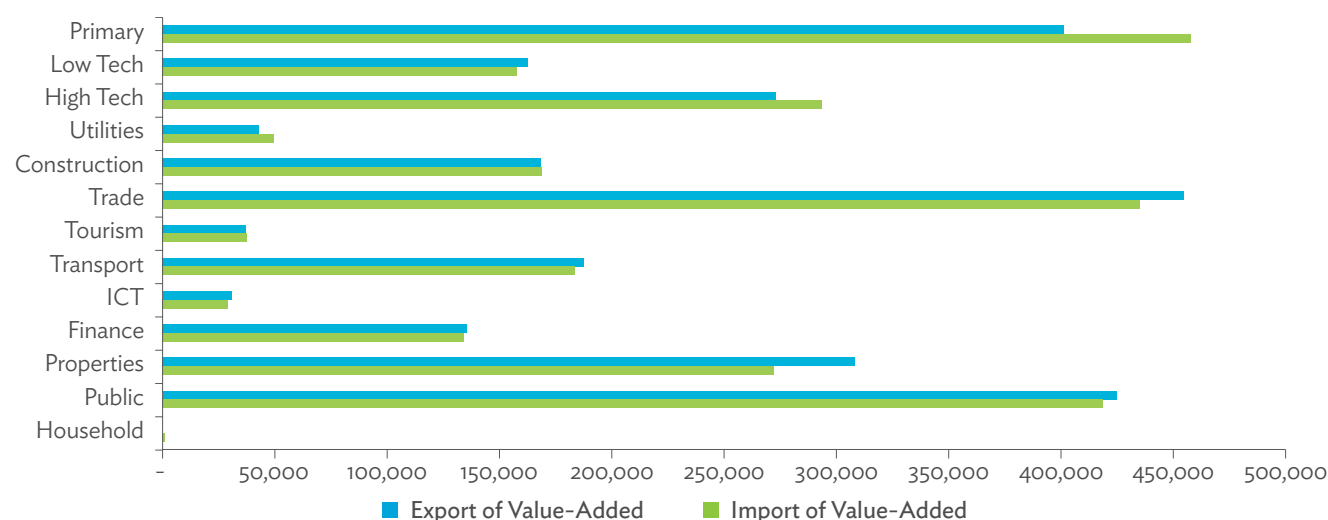
GER = Germany, IND = India, PRC = People's Republic of China, SIN = Singapore, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

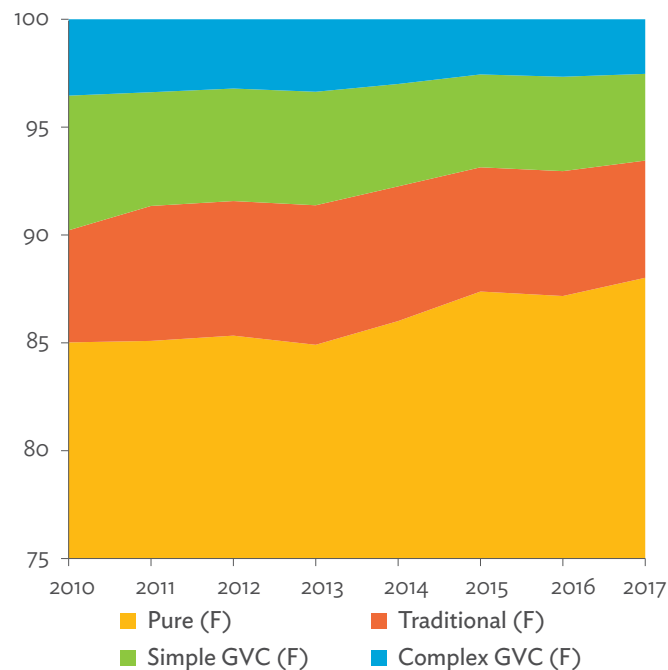
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**Figure 3.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

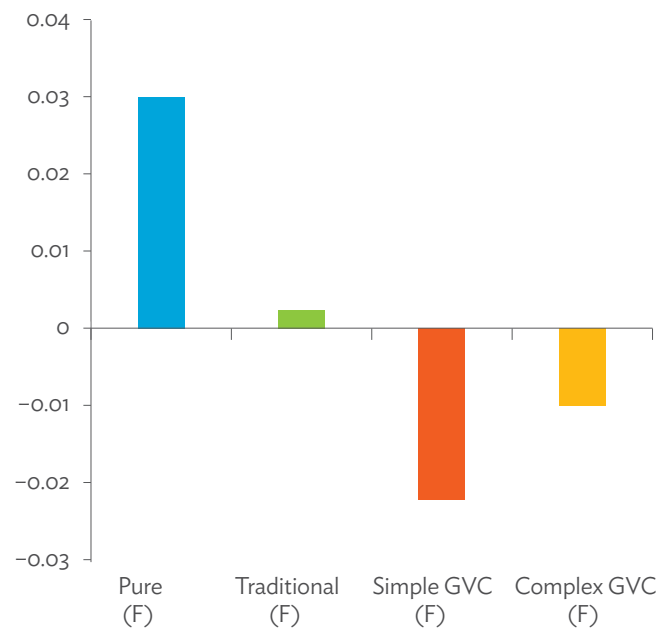
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**Figure 3.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

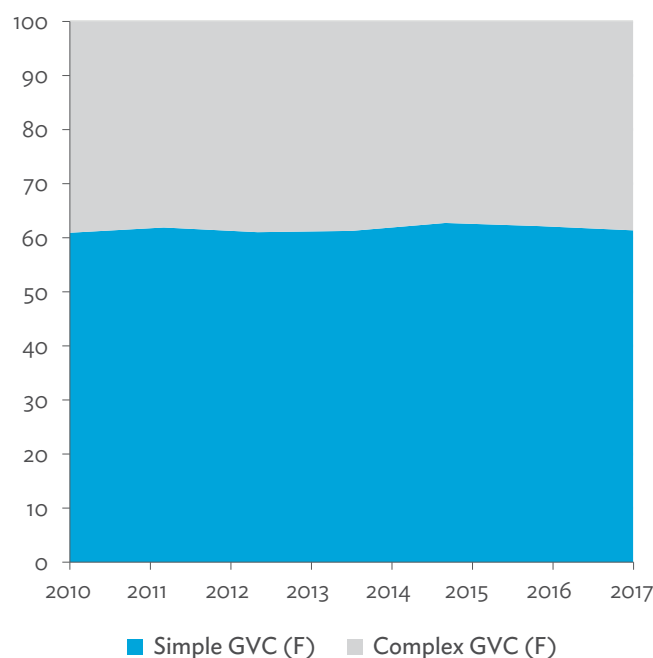
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

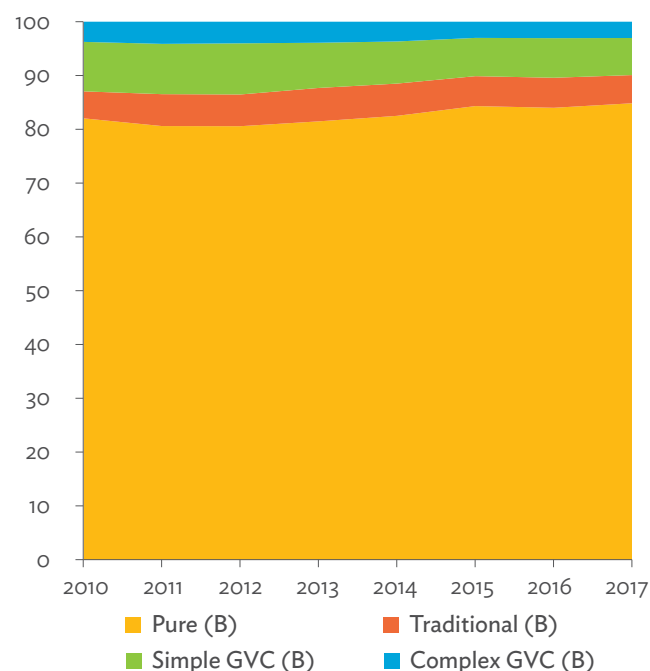


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

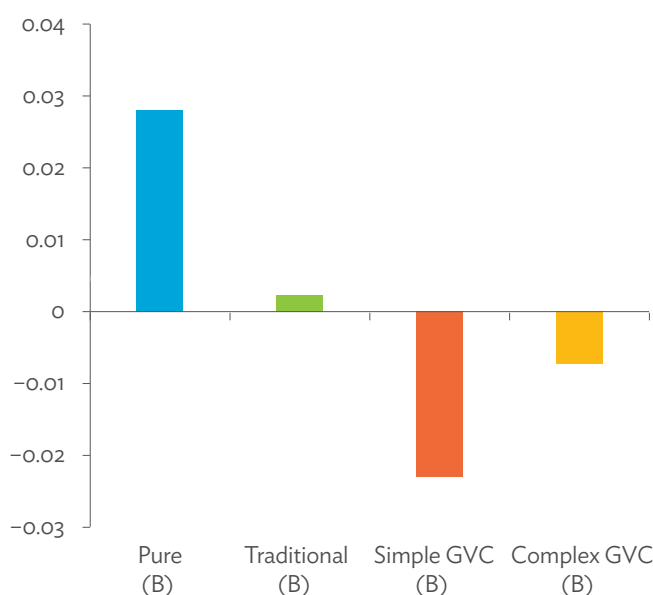


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



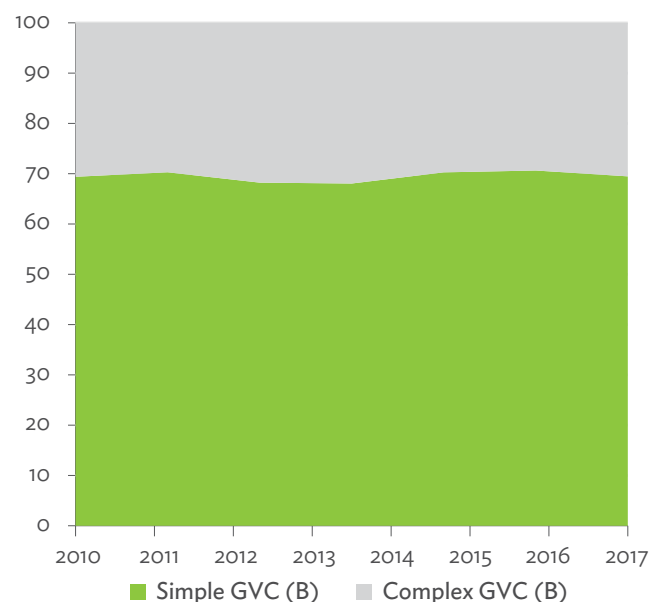
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

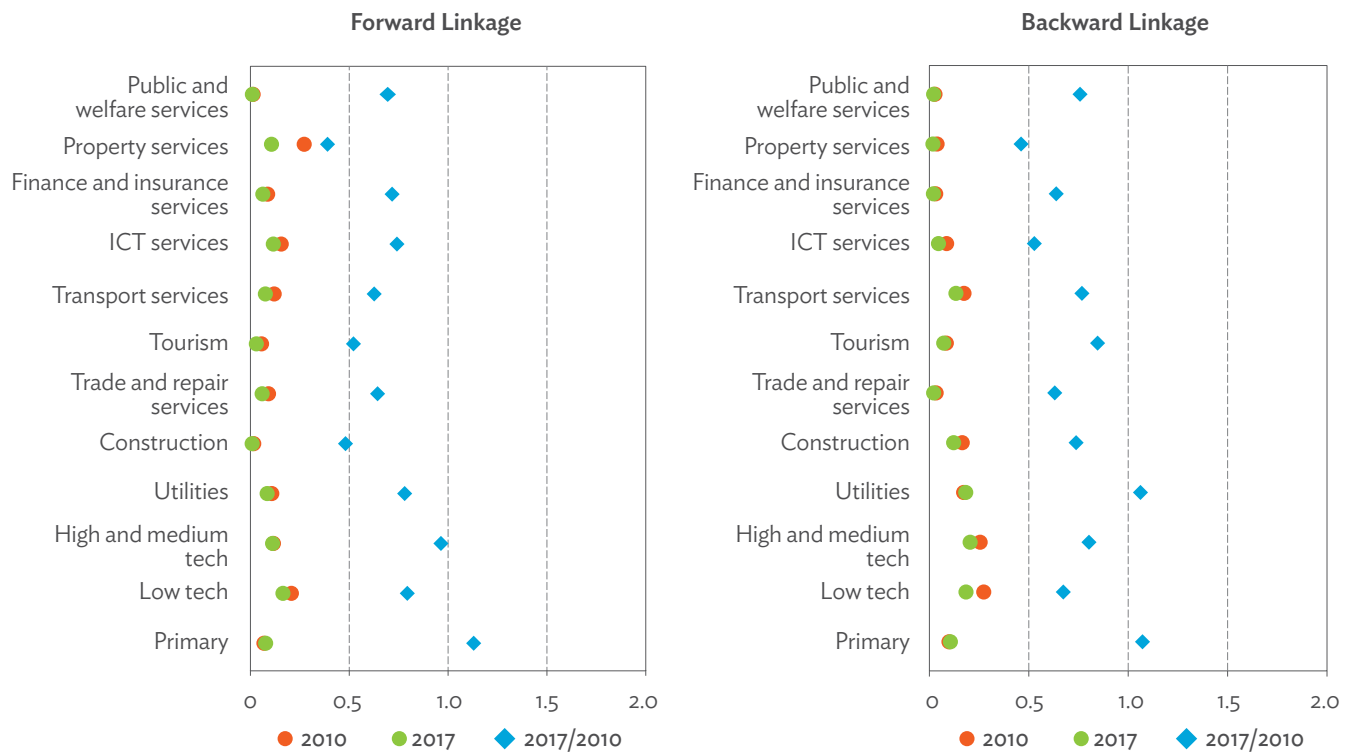


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 3.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

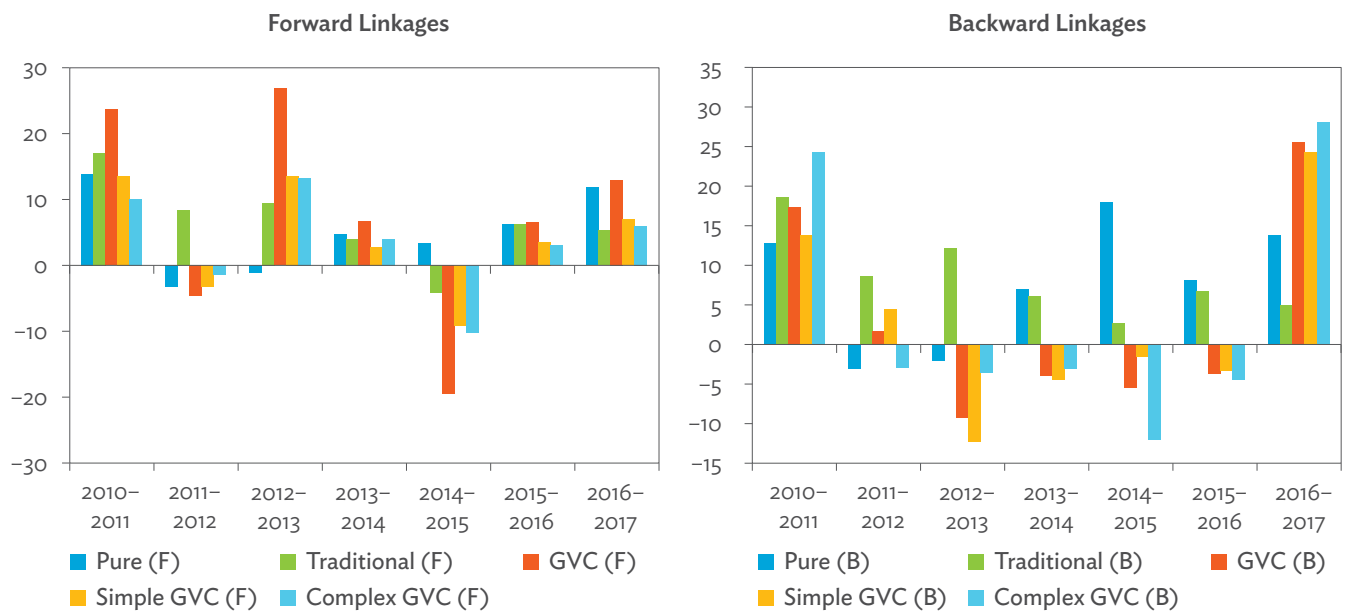


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 3.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

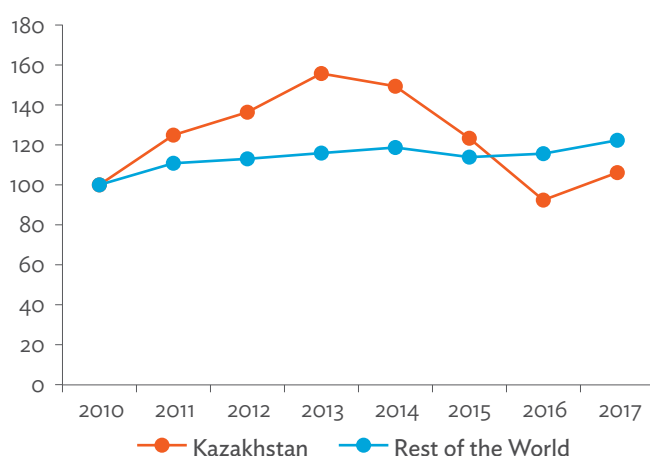
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# 4.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Kazakhstan

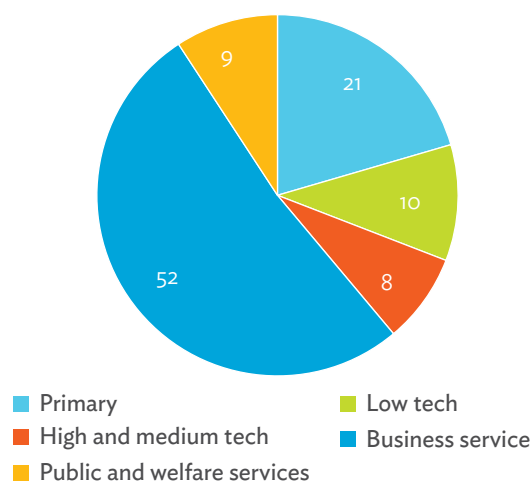
**Figure 4.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

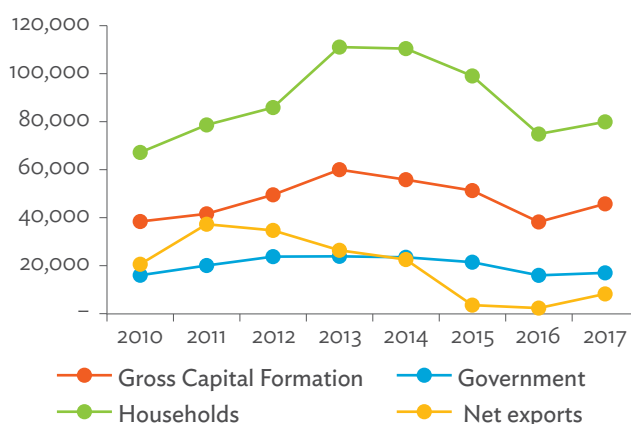
**Figure 4.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

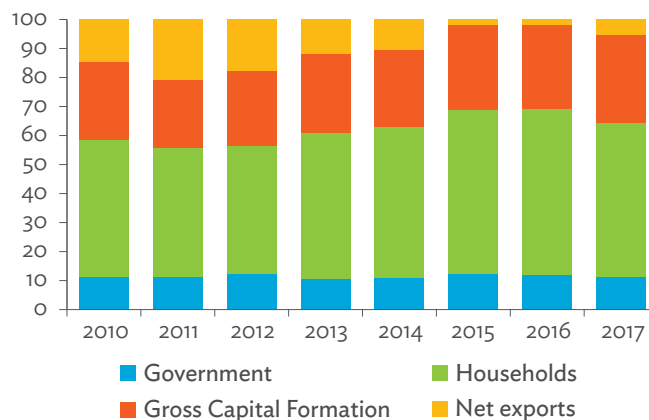


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

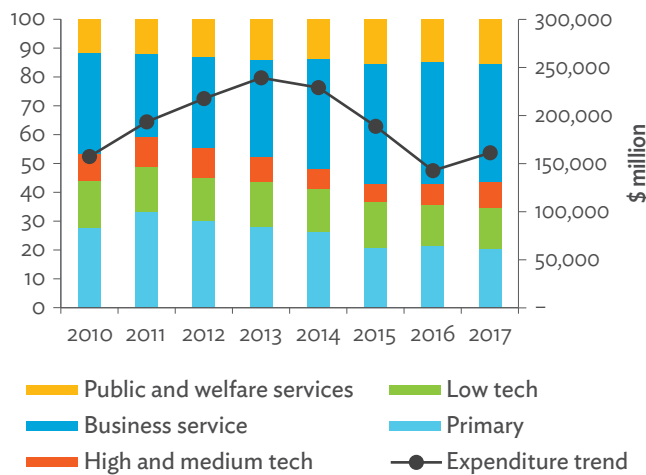
**Figure 4.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

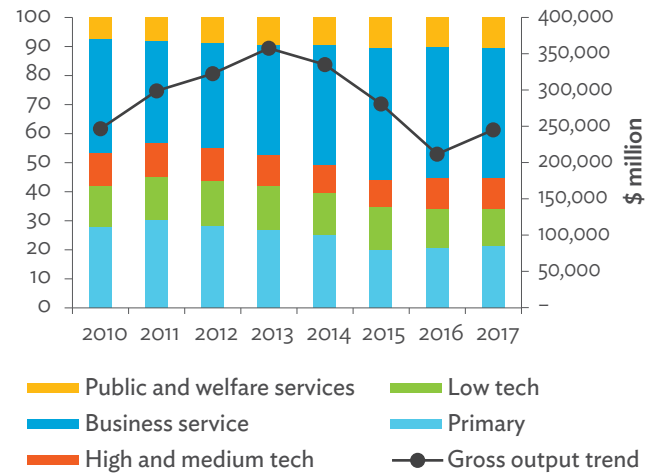


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

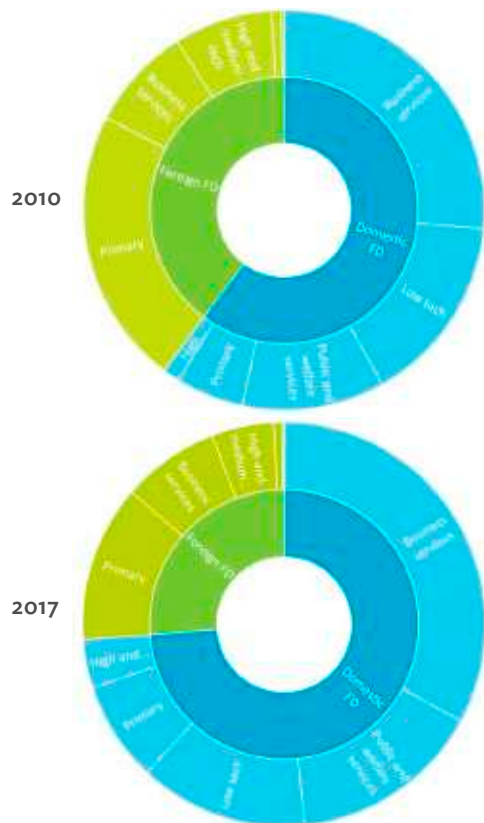


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

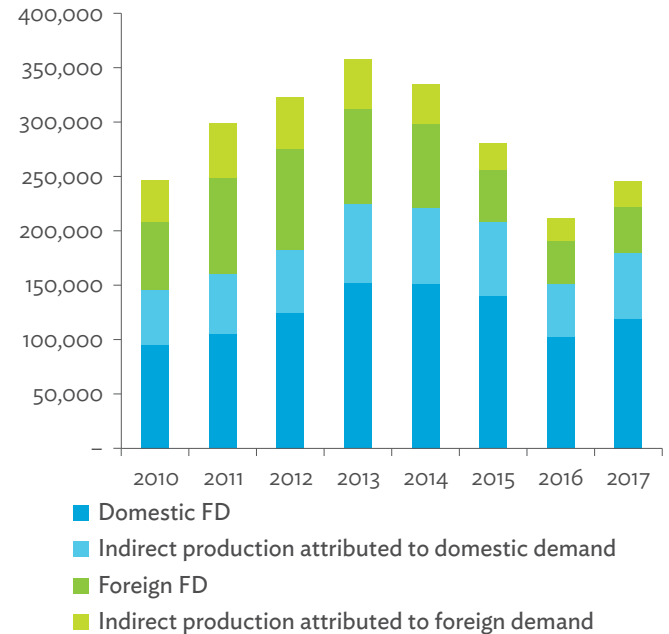


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**



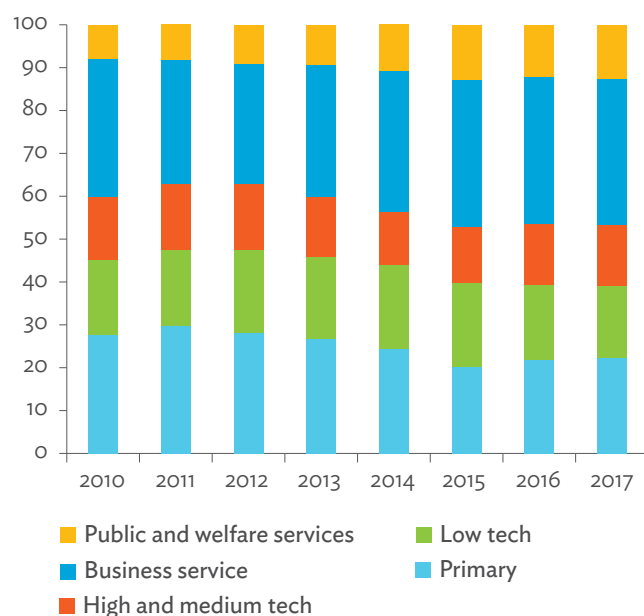
\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



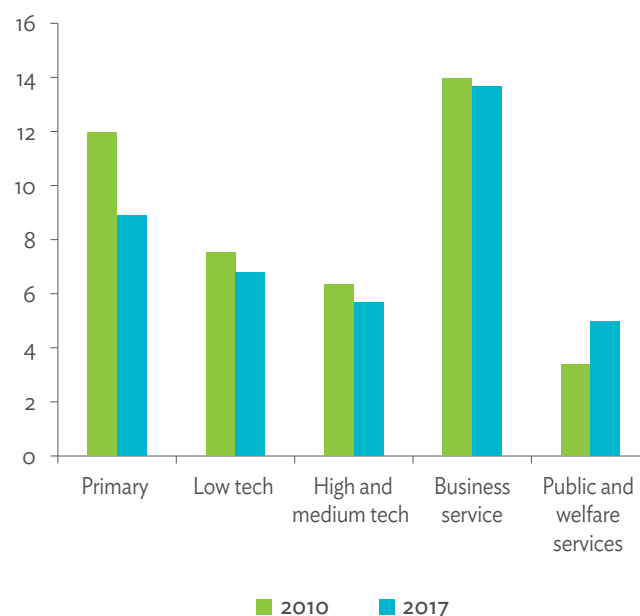
**Figure 4.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

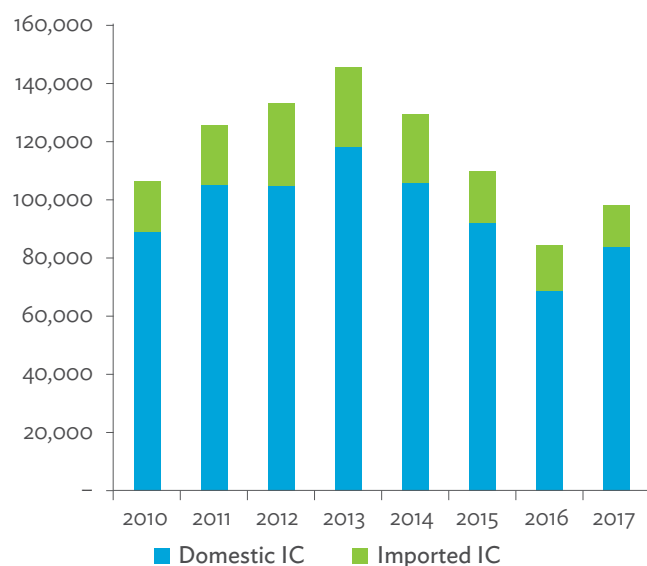
**Figure 4.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

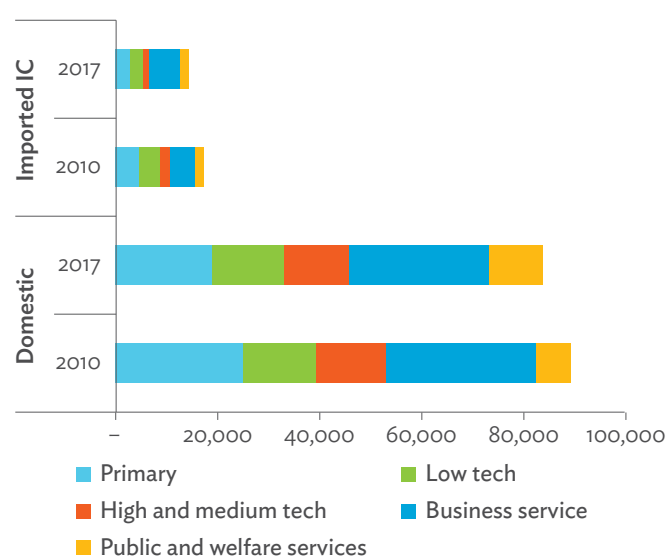


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

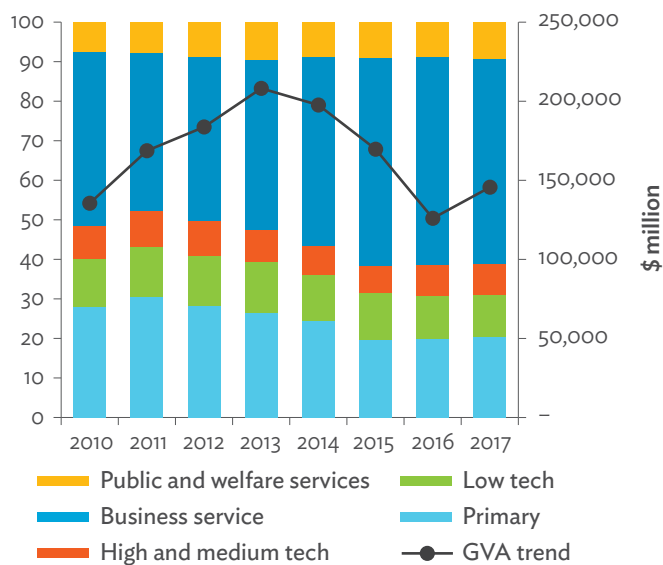


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

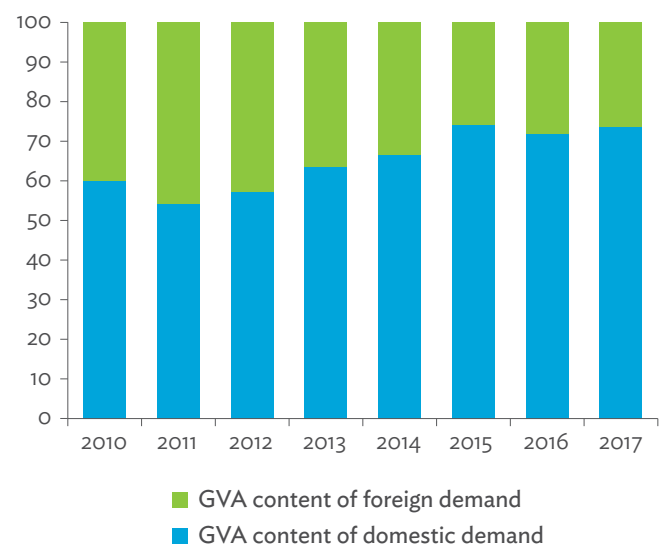


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

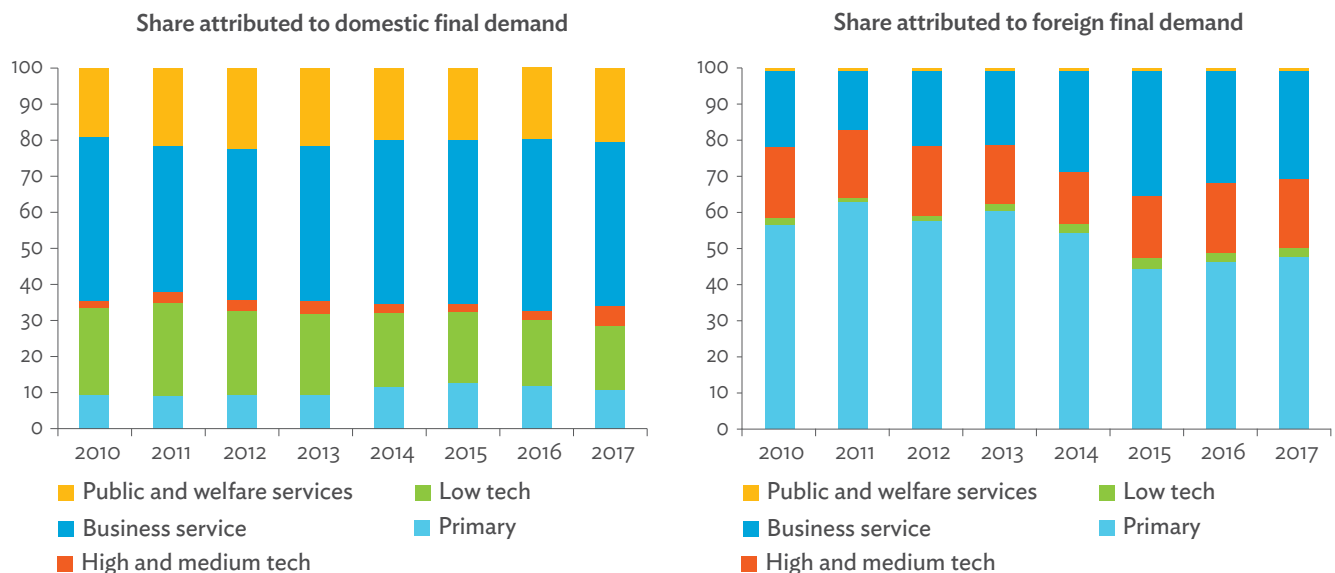


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 4.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.909	0.912	0.837	0.889	0.883	0.903	0.877	0.898
Mining and quarrying	0.867	0.876	0.847	0.871	0.839	0.904	0.888	0.908
Food, beverages, and tobacco	0.851	0.848	0.785	0.812	0.849	0.877	0.856	0.884
Textiles and textile products	0.892	0.837	0.762	0.756	0.824	0.838	0.808	0.843
Leather, leather products, and footwear	0.755	0.787	0.735	0.704	0.714	0.750	0.712	0.762
Wood and products of wood and cork	0.697	0.776	0.796	0.768	0.779	0.822	0.789	0.827
Pulp, paper, paper products, printing, and publishing	0.658	0.699	0.694	0.759	0.745	0.784	0.744	0.791
Coke, refined petroleum, and nuclear fuel	0.836	0.886	0.789	0.798	0.737	0.914	0.884	0.897
Chemicals and chemical products	0.718	0.654	0.784	0.772	0.816	0.880	0.860	0.884
Rubber and plastics	0.568	0.530	0.685	0.720	0.679	0.756	0.717	0.769
Other nonmetallic minerals	0.785	0.821	0.802	0.824	0.810	0.858	0.835	0.865
Basic metals and fabricated metal	0.866	0.890	0.830	0.882	0.875	0.921	0.908	0.924
Machinery, nec	0.797	0.773	0.746	0.779	0.794	0.828	0.805	0.840
Electrical and optical equipment	0.780	0.743	0.819	0.859	0.851	0.874	0.858	0.882
Transport equipment	0.733	0.707	0.770	0.806	0.754	0.788	0.759	0.803
Manufacturing, nec; recycling	0.646	0.713	0.619	0.623	0.703	0.745	0.704	0.758
Electricity, gas, and water supply	0.835	0.839	0.814	0.852	0.841	0.877	0.860	0.885
Construction	0.783	0.815	0.781	0.829	0.825	0.862	0.840	0.868
Sale, maintenance, and repair	0.886	0.888	0.903	0.888	0.856	0.879	0.858	0.884
Wholesale trade and commission trade	0.901	0.929	0.914	0.936	0.913	0.931	0.918	0.933
Retail trade	0.891	0.927	0.880	0.927	0.910	0.927	0.915	0.930
Hotels and restaurants	0.840	0.869	0.835	0.867	0.866	0.888	0.867	0.892
Inland transport	0.840	0.850	0.810	0.849	0.815	0.859	0.839	0.866
Water transport	0.774	0.753	0.764	0.721	0.819	0.862	0.834	0.863
Air transport	0.738	0.706	0.833	0.844	0.843	0.873	0.853	0.880
Other supporting and auxiliary transport activities	0.887	0.903	0.887	0.905	0.900	0.920	0.907	0.923
Post and telecommunications	0.887	0.873	0.905	0.894	0.896	0.912	0.893	0.912
Financial intermediation	0.929	0.929	0.937	0.905	0.896	0.909	0.893	0.905
Real estate activities	0.914	0.924	0.926	0.914	0.942	0.956	0.950	0.958
Renting of M&Eq and other business activities	0.887	0.883	0.854	0.869	0.852	0.877	0.856	0.883
Public administration and defense; compulsory social security	0.866	0.878	0.812	0.842	0.824	0.853	0.834	0.862
Education	0.872	0.895	0.890	0.836	0.874	0.900	0.893	0.912
Health and social work	0.777	0.766	0.783	0.798	0.752	0.780	0.740	0.784
Other community, social, and personal services	0.861	0.865	0.877	0.901	0.911	0.932	0.918	0.931
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.085	0.087	0.147	0.117	0.104	0.089	0.114	0.091
Mining and quarrying	0.106	0.098	0.128	0.107	0.088	0.088	0.105	0.084
Food, beverages, and tobacco	0.126	0.136	0.201	0.177	0.140	0.122	0.146	0.118
Textiles and textile products	0.092	0.150	0.225	0.229	0.167	0.157	0.185	0.150
Leather, leather products, and footwear	0.226	0.195	0.250	0.282	0.275	0.242	0.277	0.226
Wood and products of wood and cork	0.283	0.201	0.189	0.220	0.191	0.173	0.203	0.163
Pulp, paper, paper products, printing, and publishing	0.311	0.272	0.290	0.228	0.240	0.212	0.249	0.202
Coke, refined petroleum, and nuclear fuel	0.156	0.090	0.149	0.145	0.049	0.065	0.075	0.061
Chemicals and chemical products	0.249	0.317	0.175	0.209	0.117	0.113	0.129	0.104
Rubber and plastics	0.407	0.443	0.291	0.247	0.232	0.233	0.271	0.218
Other nonmetallic minerals	0.167	0.146	0.175	0.154	0.148	0.136	0.159	0.129
Basic metals and fabricated metal	0.084	0.078	0.138	0.096	0.077	0.074	0.086	0.070
Machinery, nec	0.170	0.202	0.230	0.203	0.188	0.165	0.190	0.154
Electrical and optical equipment	0.186	0.229	0.147	0.121	0.128	0.115	0.134	0.108
Transport equipment	0.232	0.267	0.196	0.174	0.227	0.202	0.235	0.190
Manufacturing, nec; recycling	0.331	0.264	0.359	0.359	0.273	0.244	0.283	0.228
Electricity, gas, and water supply	0.137	0.136	0.164	0.137	0.131	0.119	0.133	0.108
Construction	0.182	0.153	0.195	0.156	0.151	0.133	0.154	0.125
Sale, maintenance, and repair	0.082	0.092	0.085	0.105	0.134	0.116	0.136	0.109
Wholesale trade and commission trade	0.047	0.047	0.044	0.060	0.080	0.066	0.079	0.063
Retail trade	0.038	0.044	0.044	0.067	0.082	0.070	0.081	0.065
Hotels and restaurants	0.126	0.109	0.150	0.124	0.124	0.108	0.129	0.104
Inland transport	0.136	0.136	0.166	0.142	0.141	0.128	0.145	0.117
Water transport	0.204	0.222	0.201	0.261	0.146	0.129	0.154	0.124
Air transport	0.243	0.274	0.147	0.152	0.132	0.119	0.137	0.110
Other supporting and auxiliary transport activities	0.075	0.074	0.102	0.086	0.088	0.075	0.089	0.071
Post and telecommunications	0.083	0.112	0.089	0.104	0.096	0.084	0.104	0.084
Financial intermediation	0.047	0.054	0.044	0.068	0.068	0.056	0.070	0.055
Real estate activities	0.075	0.062	0.065	0.074	0.049	0.039	0.046	0.036
Renting of M&Eq and other business activities	0.095	0.099	0.135	0.123	0.136	0.120	0.141	0.113
Public administration and defense; compulsory social security	0.119	0.109	0.162	0.121	0.135	0.132	0.151	0.121
Education	0.098	0.084	0.081	0.132	0.098	0.090	0.097	0.077
Health and social work	0.179	0.209	0.176	0.161	0.202	0.203	0.242	0.195
Other community, social, and personal services	0.124	0.117	0.105	0.087	0.072	0.064	0.074	0.059
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.554	1.534	1.432	1.477	1.455	1.452	1.483	1.516
Mining and quarrying	1.577	1.536	1.487	1.515	1.463	1.531	1.538	1.569
Food, beverages, and tobacco	1.688	1.664	1.574	1.591	1.593	1.600	1.602	1.647
Textiles and textile products	1.740	1.623	1.495	1.469	1.538	1.594	1.581	1.636
Leather, leather products, and footwear	1.464	1.504	1.399	1.318	1.310	1.348	1.301	1.384
Wood and products of wood and cork	1.332	1.465	1.483	1.427	1.417	1.460	1.437	1.503
Pulp, paper, paper products, printing, and publishing	1.326	1.374	1.380	1.478	1.434	1.467	1.432	1.512
Coke, refined petroleum, and nuclear fuel	1.885	1.942	1.745	1.704	1.612	1.877	1.863	1.891
Chemicals and chemical products	1.584	1.478	1.679	1.626	1.566	1.623	1.600	1.646
Rubber and plastics	1.275	1.224	1.525	1.524	1.417	1.509	1.470	1.555
Other nonmetallic minerals	1.653	1.664	1.640	1.651	1.600	1.643	1.638	1.680
Basic metals and fabricated metal	1.832	1.796	1.672	1.727	1.702	1.762	1.759	1.779
Machinery, nec	1.608	1.534	1.520	1.540	1.535	1.563	1.541	1.587
Electrical and optical equipment	1.712	1.569	1.741	1.783	1.722	1.752	1.754	1.770
Transport equipment	1.586	1.504	1.652	1.676	1.552	1.598	1.577	1.638
Manufacturing, nec; recycling	1.419	1.495	1.339	1.326	1.415	1.462	1.425	1.501
Electricity, gas, and water supply	1.675	1.639	1.581	1.635	1.620	1.657	1.629	1.661
Construction	1.628	1.610	1.586	1.599	1.670	1.686	1.678	1.712
Sale, maintenance, and repair	1.408	1.392	1.411	1.350	1.299	1.311	1.297	1.335
Wholesale trade and commission trade	1.431	1.415	1.373	1.377	1.335	1.320	1.319	1.341
Retail trade	1.432	1.446	1.361	1.412	1.361	1.356	1.347	1.369
Hotels and restaurants	1.497	1.514	1.489	1.512	1.473	1.478	1.476	1.516
Inland transport	1.514	1.489	1.413	1.427	1.407	1.446	1.418	1.461
Water transport	1.574	1.528	1.666	1.435	1.636	1.660	1.669	1.706
Air transport	1.538	1.453	1.588	1.568	1.541	1.570	1.553	1.594
Other supporting and auxiliary transport activities	1.405	1.414	1.367	1.385	1.365	1.366	1.361	1.385
Post and telecommunications	1.429	1.365	1.398	1.396	1.394	1.404	1.422	1.446
Financial intermediation	1.430	1.400	1.407	1.326	1.297	1.287	1.298	1.312
Real estate activities	1.457	1.399	1.271	1.360	1.229	1.212	1.206	1.218
Renting of M&Eq and other business activities	1.530	1.484	1.442	1.446	1.438	1.453	1.441	1.480
Public administration and defense; compulsory social security	1.680	1.657	1.523	1.554	1.644	1.728	1.698	1.738
Education	1.454	1.440	1.428	1.456	1.535	1.568	1.521	1.540
Health and social work	1.566	1.504	1.538	1.526	1.584	1.689	1.675	1.746
Other community, social, and personal services	1.445	1.441	1.436	1.360	1.398	1.404	1.396	1.417
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

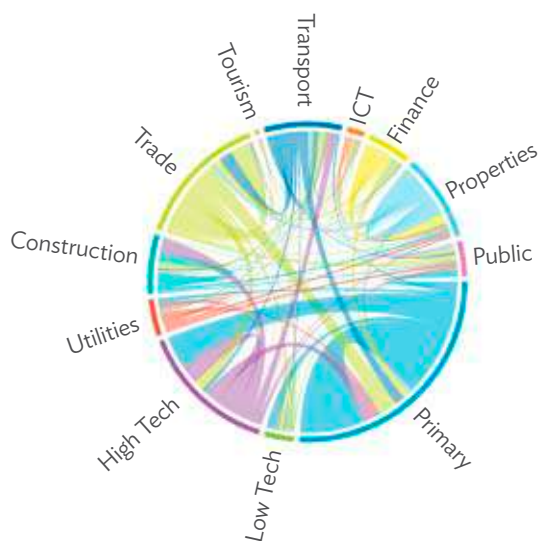
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 4.2

### Kazakhstan

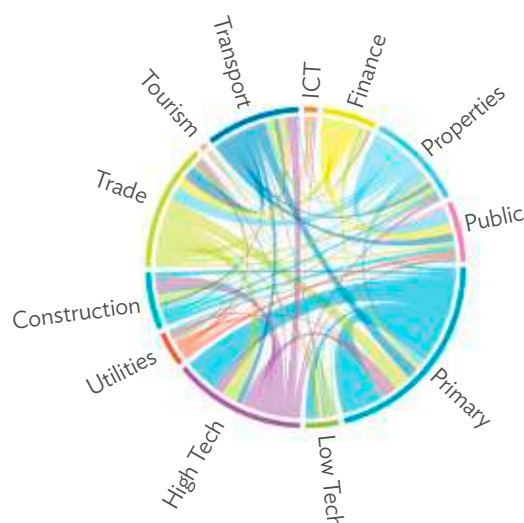
**Figure 4.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

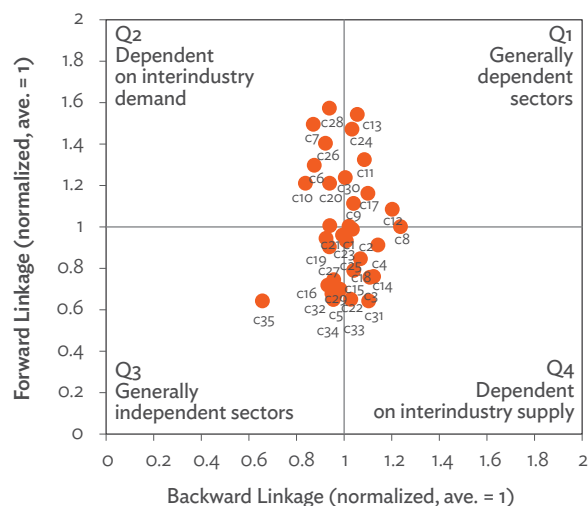
**Figure 4.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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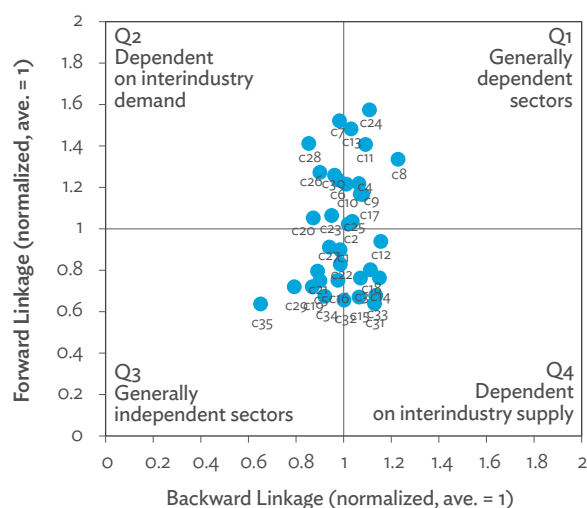
**Figure 4.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.2.2b: Backward and Forward Linkages by Industry, 2017**

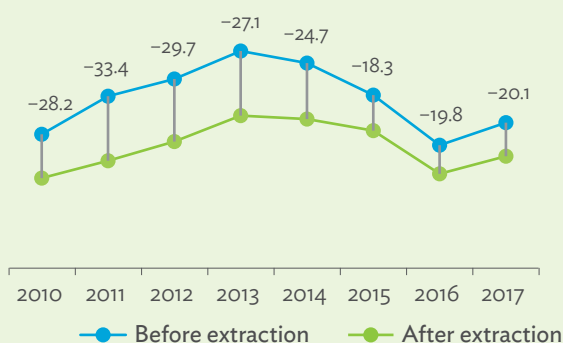


Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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### Box 4: Hypothetical Extraction of Mining and Quarrying Industry in Kazakhstan

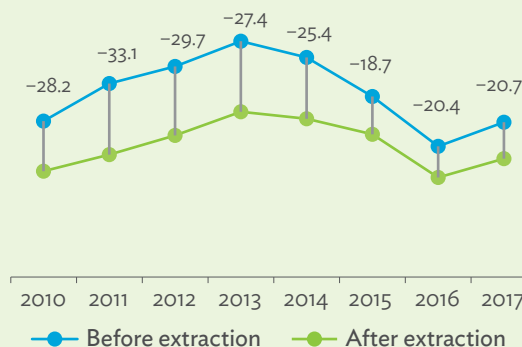
**Figure 4.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

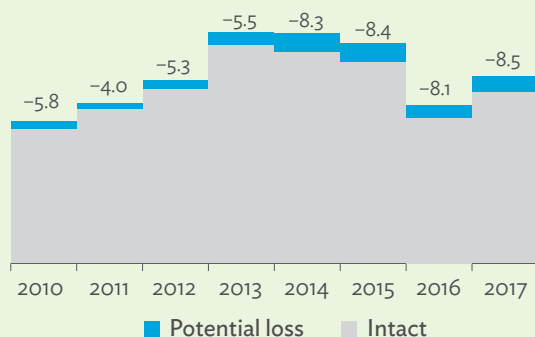
**Figure 4.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

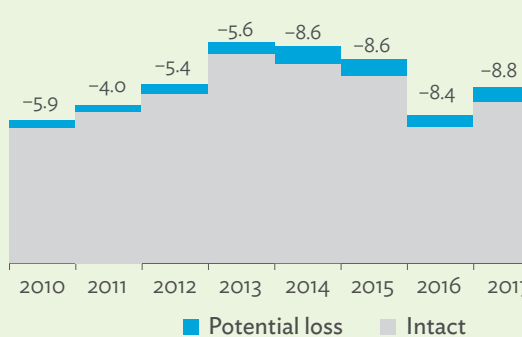
**Figure 4.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

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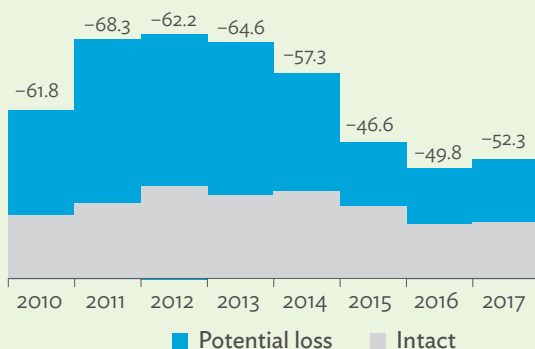
**Figure 4.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

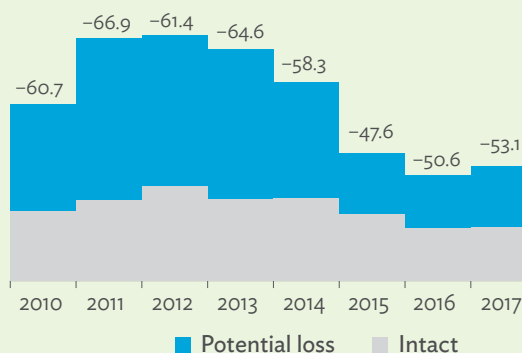
**Figure 4.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Table 4.2.1: Input–Output Backward Linkage**



	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.020	1.023	0.963	0.995	0.988	0.962	0.990	0.986
Mining and quarrying	1.035	1.024	1.000	1.020	0.993	1.014	1.027	1.021
Food, beverages, and tobacco	1.108	1.109	1.059	1.072	1.082	1.060	1.070	1.072
Textiles and textile products	1.142	1.082	1.005	0.990	1.044	1.056	1.056	1.065
Leather, leather products, and footwear	0.961	1.003	0.941	0.888	0.890	0.893	0.869	0.901
Wood and products of wood and cork	0.874	0.977	0.997	0.962	0.962	0.967	0.960	0.978
Pulp, paper, paper products, printing, and publishing	0.870	0.916	0.928	0.995	0.973	0.971	0.956	0.984
Coke, refined petroleum, and nuclear fuel	1.237	1.295	1.174	1.148	1.094	1.244	1.244	1.230
Chemicals and chemical products	1.040	0.985	1.129	1.095	1.063	1.075	1.069	1.071
Rubber and plastics	0.837	0.816	1.025	1.026	0.962	1.000	0.982	1.012
Other nonmetallic minerals	1.085	1.109	1.103	1.112	1.086	1.088	1.094	1.093
Basic metals and fabricated metal	1.202	1.197	1.125	1.164	1.155	1.167	1.175	1.158
Machinery, nec	1.056	1.023	1.023	1.037	1.042	1.035	1.029	1.032
Electrical and optical equipment	1.123	1.046	1.171	1.201	1.169	1.161	1.172	1.152
Transport equipment	1.041	1.003	1.111	1.129	1.053	1.059	1.053	1.066
Manufacturing, nec; recycling	0.931	0.997	0.901	0.894	0.961	0.968	0.952	0.977
Electricity, gas, and water supply	1.100	1.093	1.064	1.101	1.100	1.098	1.088	1.081
Construction	1.068	1.073	1.067	1.077	1.133	1.117	1.121	1.114
Sale, maintenance, and repair	0.924	0.928	0.949	0.910	0.882	0.869	0.866	0.869
Wholesale trade and commission trade	0.939	0.944	0.924	0.928	0.907	0.875	0.881	0.873
Retail trade	0.940	0.964	0.916	0.951	0.924	0.898	0.900	0.891
Hotels and restaurants	0.983	1.009	1.001	1.019	1.000	0.979	0.986	0.986
Inland transport	0.993	0.993	0.950	0.961	0.955	0.958	0.947	0.950
Water transport	1.033	1.019	1.120	0.967	1.111	1.100	1.114	1.110
Air transport	1.009	0.968	1.068	1.056	1.046	1.040	1.037	1.037
Other supporting and auxiliary transport activities	0.922	0.943	0.920	0.933	0.927	0.905	0.909	0.901
Post and telecommunications	0.938	0.910	0.940	0.941	0.947	0.930	0.949	0.941
Financial intermediation	0.938	0.934	0.946	0.893	0.881	0.852	0.867	0.854
Real estate activities	0.956	0.933	0.855	0.916	0.834	0.803	0.806	0.792
Renting of M&Eq and other business activities	1.004	0.990	0.970	0.974	0.976	0.962	0.962	0.963
Public administration and defense; compulsory social security	1.103	1.105	1.025	1.047	1.116	1.145	1.134	1.131
Education	0.954	0.960	0.960	0.981	1.042	1.039	1.016	1.002
Health and social work	1.028	1.002	1.034	1.028	1.075	1.119	1.119	1.136
Other community, social, and personal services	0.949	0.961	0.966	0.916	0.949	0.930	0.932	0.922
Private households with employed persons	0.656	0.667	0.673	0.674	0.679	0.662	0.668	0.651
	lowest linkage	<div><div></div><div></div><div></div></div>				<div><div></div><div></div><div></div></div> highest linkage		

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.003	1.029	0.886	0.931	0.903	0.890	0.906	0.898
Mining and quarrying	0.987	0.862	0.920	0.952	0.931	0.951	0.954	1.022
Food, beverages, and tobacco	0.755	0.721	0.772	0.767	0.761	0.750	0.759	0.761
Textiles and textile products	0.911	0.968	1.170	1.154	1.175	1.182	1.185	1.217
Leather, leather products, and footwear	0.666	0.672	0.897	0.723	0.746	0.746	0.731	0.749
Wood and products of wood and cork	1.297	1.142	0.989	1.056	1.218	1.224	1.221	1.234
Pulp, paper, paper products, printing, and publishing	1.495	1.569	1.576	1.455	1.500	1.519	1.520	1.519
Coke, refined petroleum, and nuclear fuel	1.001	0.982	1.030	1.083	1.265	1.319	1.305	1.334
Chemicals and chemical products	1.112	1.155	1.071	0.921	1.097	1.133	1.137	1.166
Rubber and plastics	1.210	1.258	1.236	1.195	1.232	1.213	1.203	1.214
Other nonmetallic minerals	1.324	1.356	1.445	1.432	1.439	1.419	1.410	1.405
Basic metals and fabricated metal	1.084	1.002	0.964	1.084	1.107	1.120	1.111	0.938
Machinery, nec	1.543	1.537	1.470	1.499	1.482	1.498	1.490	1.480
Electrical and optical equipment	0.760	0.881	0.805	0.790	0.831	0.885	0.840	0.762
Transport equipment	0.788	0.820	0.810	0.686	0.692	0.682	0.689	0.669
Manufacturing, nec; recycling	0.717	0.753	0.728	0.757	0.769	0.760	0.765	0.751
Electricity, gas, and water supply	1.161	1.246	1.281	1.218	1.147	1.137	1.136	1.165
Construction	0.846	0.896	0.942	0.901	0.866	0.825	0.830	0.801
Sale, maintenance, and repair	0.944	0.815	0.874	1.021	0.756	0.735	0.734	0.720
Wholesale trade and commission trade	1.210	1.278	1.151	1.079	1.028	1.061	1.052	1.052
Retail trade	1.005	0.973	0.937	0.835	0.804	0.794	0.796	0.795
Hotels and restaurants	0.698	0.713	0.800	0.829	0.821	0.809	0.817	0.828
Inland transport	0.960	0.948	0.975	1.093	1.040	1.045	1.047	1.063
Water transport	1.472	1.370	1.404	1.529	1.505	1.524	1.536	1.572
Air transport	0.933	0.916	0.852	0.972	1.006	1.007	1.006	1.034
Other supporting and auxiliary transport activities	1.403	1.363	1.280	1.273	1.245	1.238	1.251	1.271
Post and telecommunications	0.903	0.955	0.901	0.936	0.909	0.899	0.898	0.911
Financial intermediation	1.573	1.478	1.468	1.481	1.397	1.388	1.390	1.410
Real estate activities	0.744	0.777	0.796	0.761	0.727	0.716	0.719	0.720
Renting of M&Eq and other business activities	1.238	1.320	1.217	1.263	1.285	1.254	1.261	1.257
Public administration and defense; compulsory social security	0.642	0.633	0.655	0.653	0.653	0.643	0.648	0.639
Education	0.648	0.641	0.659	0.660	0.660	0.652	0.658	0.656
Health and social work	0.649	0.639	0.676	0.675	0.672	0.667	0.671	0.678
Other community, social, and personal services	0.677	0.697	0.706	0.685	0.681	0.673	0.677	0.674
Private households with employed persons	0.642	0.633	0.655	0.653	0.651	0.642	0.646	0.636
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

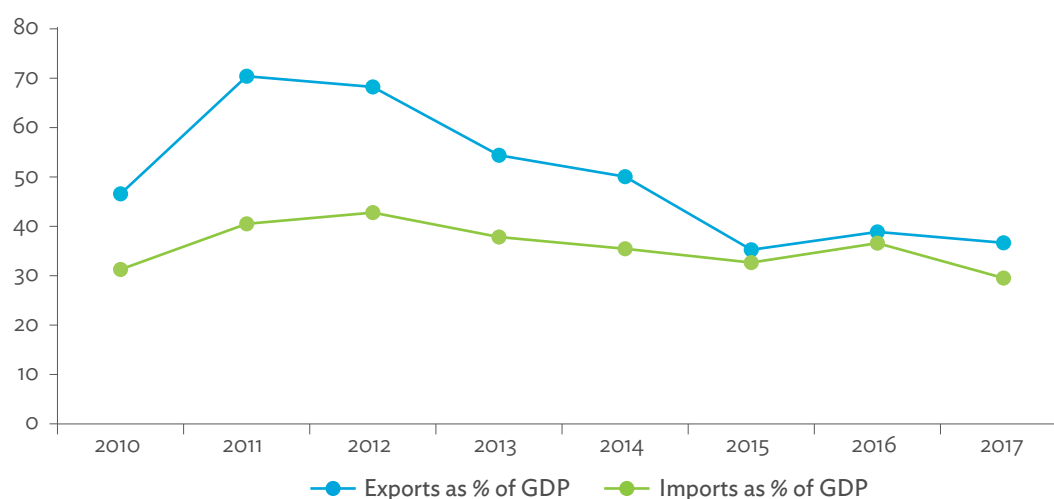
Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 4.3

### Kazakhstan

**Figure 4.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

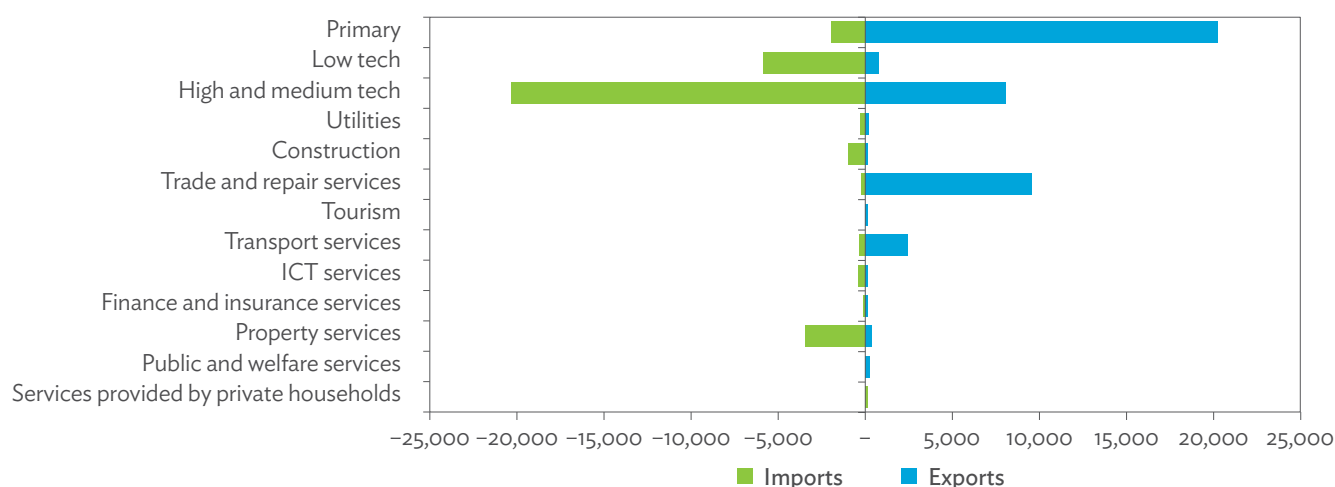


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

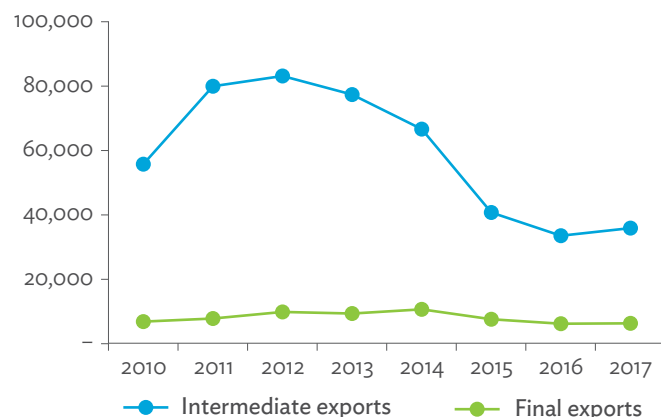


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

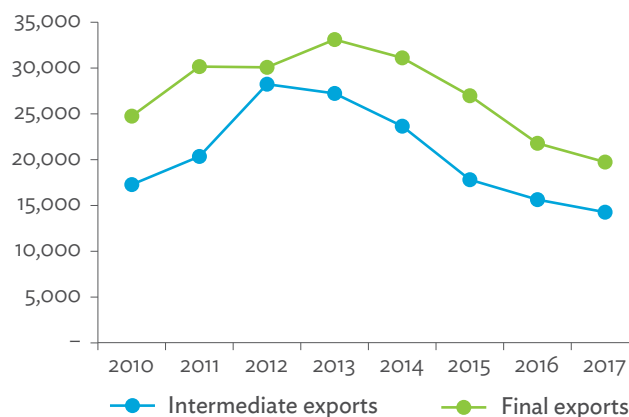


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

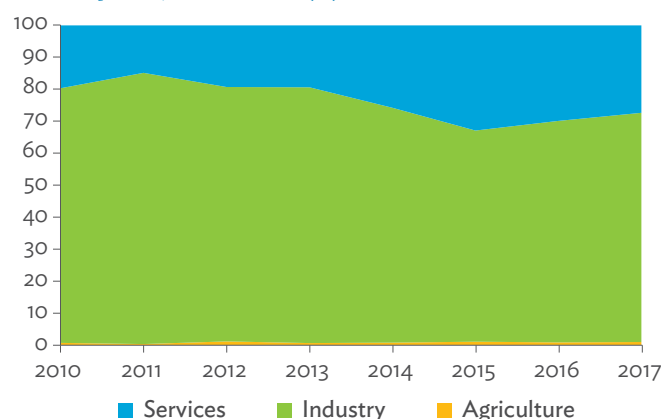


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

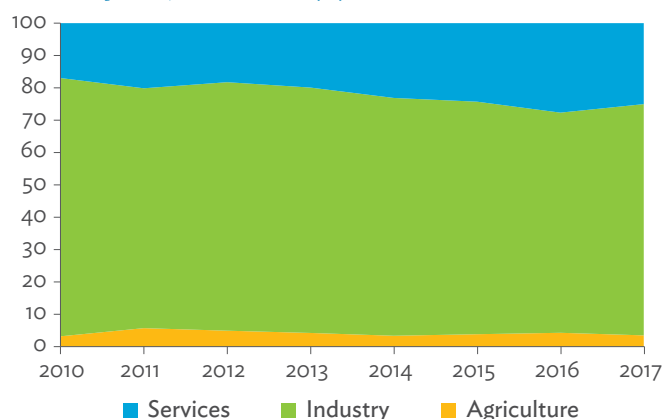
**Figure 4.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

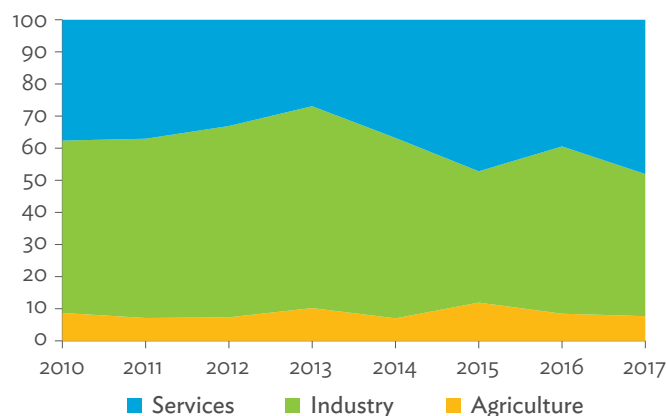
**Figure 4.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

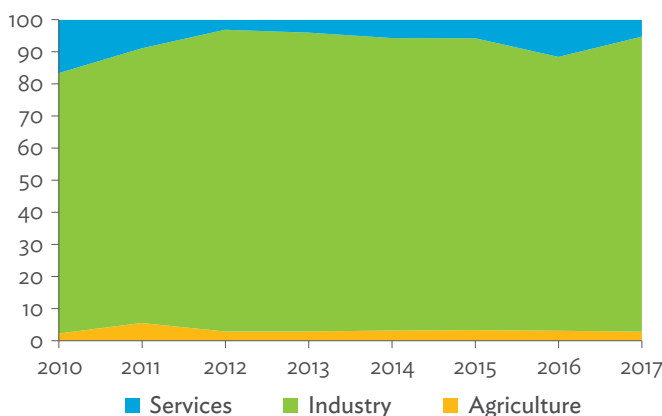
**Figure 4.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

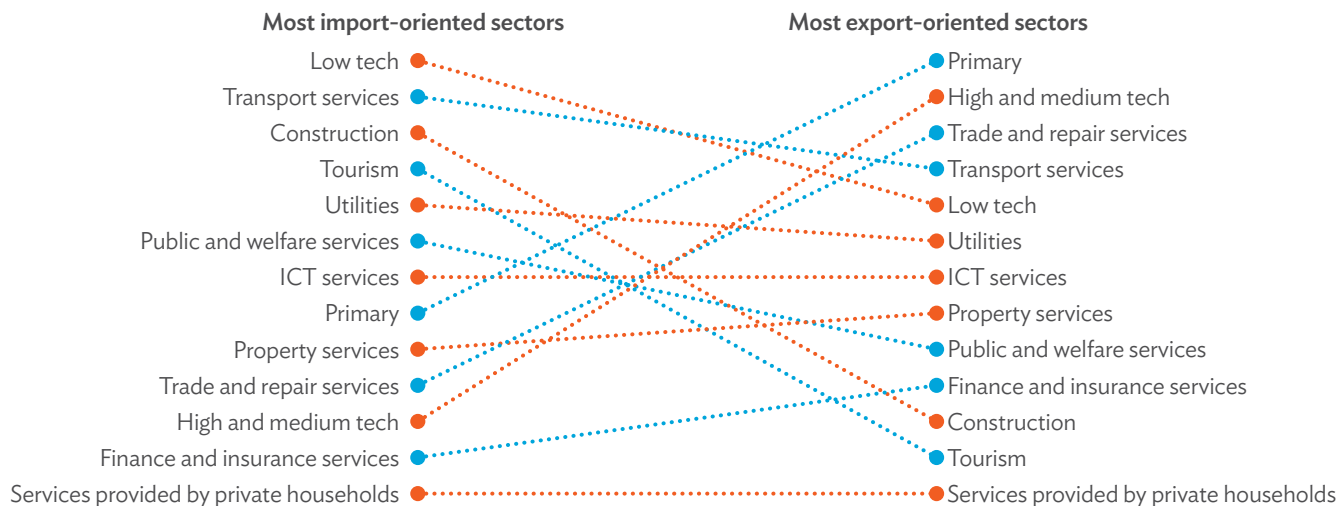
**Figure 4.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

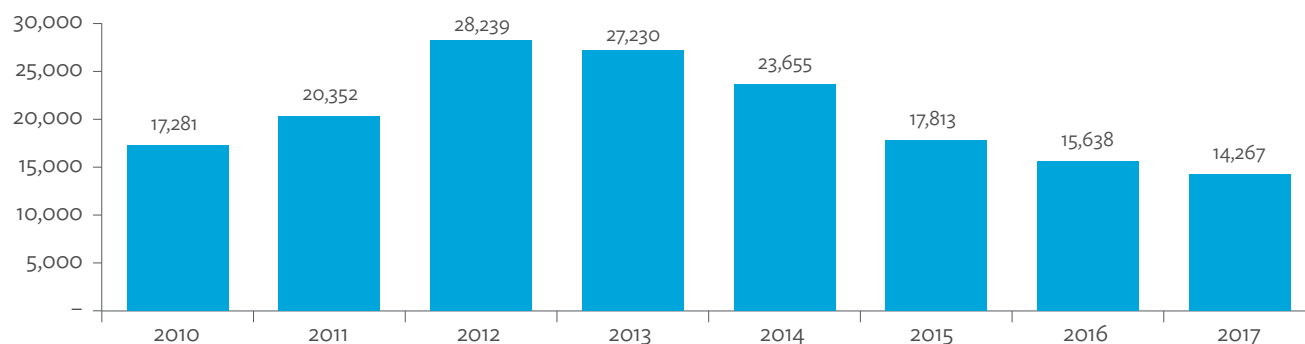
[Click here for figure data](#)

**Figure 4.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**



[Click here for figure data](#)

**Figure 4.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

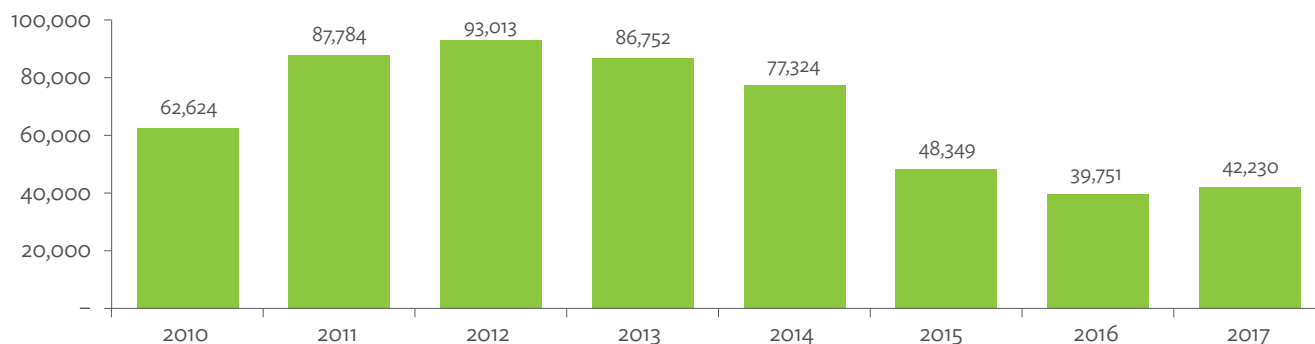


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

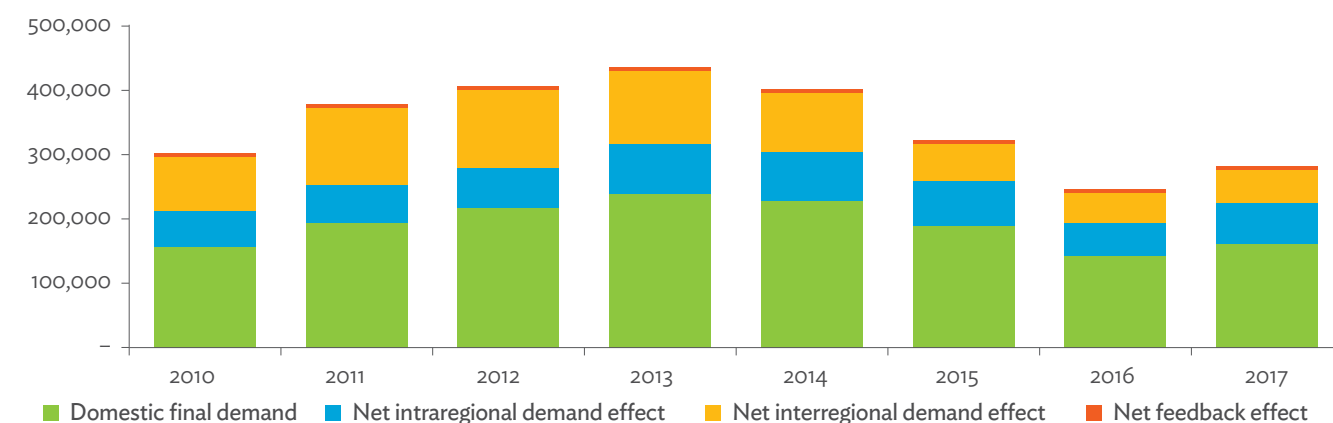


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

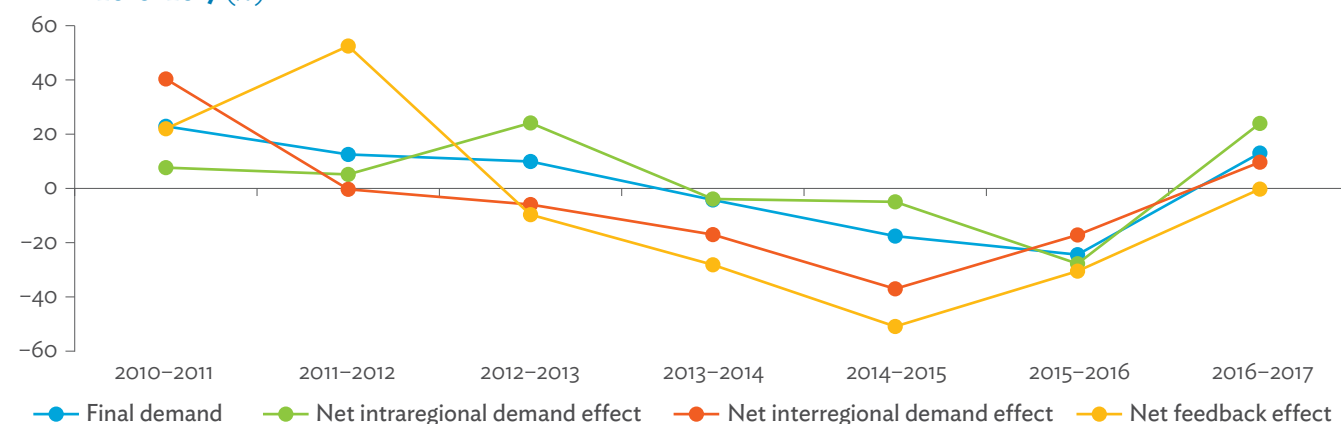


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

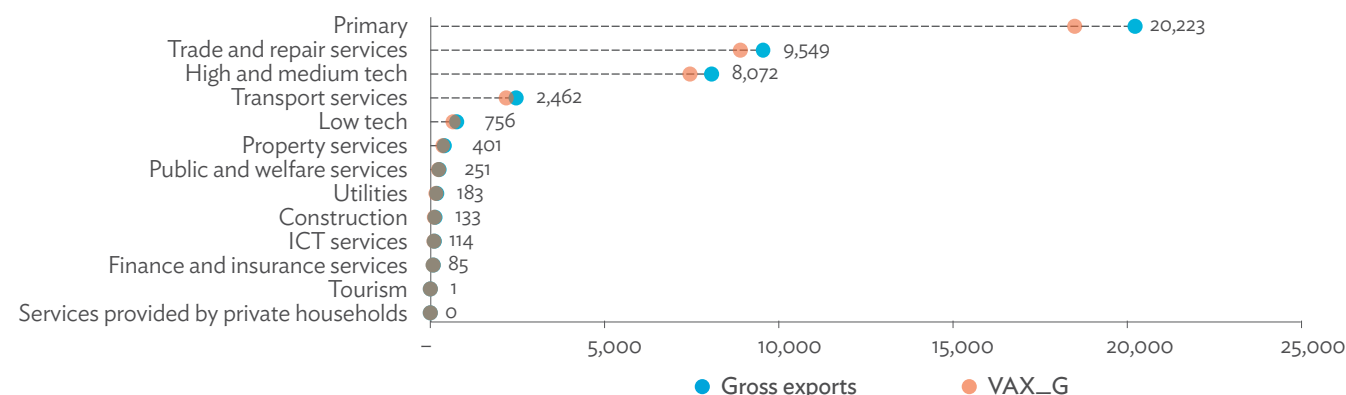
**Figure 4.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

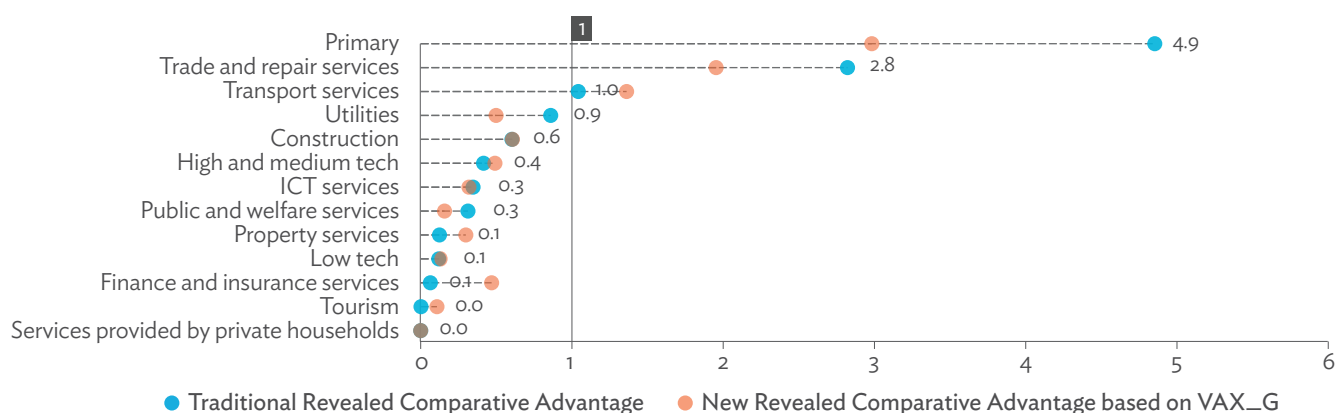


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value-added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 4.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	43,962	64,560	65,598	66,787	60,636	39,416	30,894	33,184
Low tech	25,363	29,799	32,490	37,928	34,405	30,148	20,416	22,953
High and medium tech	14,697	20,005	22,693	20,311	15,187	11,387	10,438	14,288
Business service	54,878	55,605	68,744	80,903	87,648	78,880	59,862	65,708
Personal service	18,483	23,455	28,117	33,314	31,186	28,971	21,082	25,160
Intraregional effects (M1)								
Primary	11,197	12,389	10,234	13,240	12,995	11,049	8,274	11,803
Low tech	8,372	11,046	12,910	14,330	11,888	9,967	6,708	7,728
High and medium tech	7,897	8,396	10,132	12,683	12,950	11,848	9,148	9,048
Business service	27,770	27,528	29,089	37,197	36,590	37,821	26,946	34,603
Personal service	176	299	371	429	420	457	317	528

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 4.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	46,194	65,826	64,776	64,428	49,399	25,017	21,708	25,353
Low tech	2,445	4,351	4,999	3,863	3,377	2,263	1,666	1,752
High and medium tech	16,137	21,709	21,110	17,019	13,674	9,918	8,806	9,418
Business service	24,542	33,446	34,051	32,279	30,950	24,109	18,620	19,170
Personal service	143	233	217	124	269	203	153	187
Feedback effects (M3)								
Primary	30.72	33.90	57.09	55.71	37.60	15.56	10.96	11.80
Low tech	1.25	2.08	3.88	2.69	1.98	1.03	0.64	0.60
High and medium tech	10.97	15.37	18.32	13.25	9.62	5.37	4.10	3.87
Business service	12.14	15.81	23.14	20.87	17.21	10.63	6.96	6.33
Personal service	0.04	0.08	0.12	0.10	0.13	0.08	0.05	0.06

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 4.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.5544	0.5339	0.4315	0.4767	0.4547	0.4517	0.4830	0.5157
Mining and quarrying	0.5765	0.5358	0.4870	0.5145	0.4628	0.5311	0.5377	0.5688
Food, beverages, and tobacco	0.6881	0.6639	0.5742	0.5906	0.5933	0.6000	0.6020	0.6470
Textiles and textile products	0.7396	0.6226	0.4949	0.4694	0.5385	0.5945	0.5814	0.6364
Leather, leather products, and footwear	0.4635	0.5039	0.3992	0.3183	0.3104	0.3481	0.3009	0.3844
Wood and products of wood and cork	0.3324	0.4653	0.4831	0.4273	0.4174	0.4601	0.4368	0.5026
Pulp, paper, paper products, printing, and publishing	0.3258	0.3740	0.3797	0.4777	0.4339	0.4665	0.4321	0.5119
Coke, refined petroleum, and nuclear fuel	0.8846	0.9421	0.7453	0.7043	0.6118	0.8773	0.8626	0.8908
Chemicals and chemical products	0.5842	0.4775	0.6789	0.6259	0.5656	0.6226	0.6005	0.6457
Rubber and plastics	0.2753	0.2236	0.5246	0.5235	0.4166	0.5089	0.4700	0.5554
Other nonmetallic minerals	0.6532	0.6637	0.6402	0.6508	0.5996	0.6429	0.6377	0.6800
Basic metals and fabricated metal	0.8316	0.7957	0.6723	0.7274	0.7019	0.7620	0.7594	0.7791
Machinery, nec	0.6083	0.5341	0.5204	0.5400	0.5345	0.5631	0.5413	0.5868
Electrical and optical equipment	0.7116	0.5688	0.7413	0.7829	0.7221	0.7524	0.7542	0.7698
Transport equipment	0.5855	0.5044	0.6523	0.6762	0.5516	0.5982	0.5774	0.6382
Manufacturing, nec; recycling	0.4191	0.4951	0.3391	0.3264	0.4152	0.4616	0.4254	0.5008
Electricity, gas, and water supply	0.6754	0.6388	0.5814	0.6348	0.6200	0.6572	0.6293	0.6606
Construction	0.6278	0.6095	0.5862	0.5990	0.6695	0.6863	0.6779	0.7121
Sale, maintenance, and repair	0.4084	0.3923	0.4109	0.3504	0.2993	0.3114	0.2972	0.3353
Wholesale trade and commission trade	0.4309	0.4152	0.3734	0.3769	0.3353	0.3205	0.3192	0.3409
Retail trade	0.4318	0.4463	0.3615	0.4116	0.3608	0.3561	0.3474	0.3693
Hotels and restaurants	0.4975	0.5136	0.4886	0.5120	0.4730	0.4783	0.4760	0.5160
Inland transport	0.5135	0.4891	0.4130	0.4267	0.4070	0.4456	0.4178	0.4607
Water transport	0.5742	0.5282	0.6655	0.4355	0.6365	0.6601	0.6686	0.7060
Air transport	0.5378	0.4526	0.5878	0.5676	0.5407	0.5705	0.5533	0.5936
Other supporting and auxiliary transport activities	0.4046	0.4143	0.3674	0.3848	0.3649	0.3656	0.3606	0.3845
Post and telecommunications	0.4291	0.3646	0.3978	0.3961	0.3944	0.4045	0.4217	0.4456
Financial intermediation	0.4297	0.4001	0.4069	0.3259	0.2972	0.2865	0.2978	0.3125
Real estate activities	0.4567	0.3987	0.2710	0.3603	0.2291	0.2123	0.2062	0.2178
Renting of M&Eq and other business activities	0.5305	0.4842	0.4419	0.4463	0.4376	0.4530	0.4411	0.4801
Public administration and defense; compulsory social security	0.6801	0.6575	0.5234	0.5538	0.6438	0.7279	0.6975	0.7381
Education	0.4541	0.4404	0.4275	0.4555	0.5352	0.5683	0.5212	0.5401
Health and social work	0.5657	0.5035	0.5376	0.5258	0.5835	0.6892	0.6751	0.7464
Other community, social, and personal services	0.4452	0.4414	0.4359	0.3598	0.3977	0.4036	0.3960	0.4168
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.1985	0.2085	0.3591	0.2873	0.2526	0.2161	0.2710	0.2231
Mining and quarrying	0.2483	0.2499	0.3122	0.2679	0.2269	0.2280	0.2663	0.2192
Food, beverages, and tobacco	0.2958	0.3093	0.4770	0.4325	0.3547	0.3092	0.3669	0.2993
Textiles and textile products	0.2309	0.3960	0.5788	0.5883	0.4569	0.4327	0.5078	0.4117
Leather, leather products, and footwear	0.6076	0.5285	0.6804	0.7977	0.7844	0.6929	0.7947	0.6519
Wood and products of wood and cork	0.7047	0.5374	0.4682	0.5390	0.4560	0.4120	0.4704	0.3925
Pulp, paper, paper products, printing, and publishing	0.7695	0.6784	0.7162	0.5824	0.6285	0.5522	0.6451	0.5276
Coke, refined petroleum, and nuclear fuel	0.3369	0.2349	0.3200	0.3139	0.1207	0.1608	0.1843	0.1512
Chemicals and chemical products	0.6340	0.8474	0.4277	0.4992	0.3052	0.2920	0.3345	0.2763
Rubber and plastics	1.0703	1.2125	0.7893	0.6788	0.6363	0.6388	0.7418	0.6019
Other nonmetallic minerals	0.4124	0.3702	0.4494	0.4059	0.3979	0.3661	0.4248	0.3506
Basic metals and fabricated metal	0.2015	0.2004	0.3361	0.2442	0.1844	0.1794	0.2081	0.1707
Machinery, nec	0.4491	0.5608	0.6290	0.5698	0.5275	0.4655	0.5349	0.4328
Electrical and optical equipment	0.4946	0.6377	0.3907	0.3315	0.3511	0.3161	0.3674	0.2958
Transport equipment	0.6328	0.7574	0.5357	0.4918	0.6550	0.5858	0.6842	0.5520
Manufacturing, nec; recycling	0.8620	0.6962	0.9811	0.9852	0.7400	0.6631	0.7690	0.6209
Electricity, gas, and water supply	0.3415	0.3642	0.4251	0.3641	0.3553	0.3239	0.3608	0.2948
Construction	0.4808	0.4064	0.5184	0.4144	0.3933	0.3449	0.3904	0.3254
Sale, maintenance, and repair	0.2067	0.2406	0.2168	0.2825	0.3712	0.3234	0.3792	0.3029
Wholesale trade and commission trade	0.1109	0.1112	0.1024	0.1390	0.1820	0.1501	0.1761	0.1429
Retail trade	0.0896	0.1077	0.1074	0.1627	0.1938	0.1658	0.1894	0.1547
Hotels and restaurants	0.2988	0.2609	0.3730	0.3133	0.3137	0.2727	0.3204	0.2637
Inland transport	0.3326	0.3559	0.4442	0.3823	0.3800	0.3477	0.3872	0.3189
Water transport	0.5332	0.6008	0.4976	0.6222	0.3873	0.3446	0.4101	0.3294
Air transport	0.6468	0.7923	0.3755	0.3901	0.3395	0.3079	0.3510	0.2810
Other supporting and auxiliary transport activities	0.1846	0.1862	0.2632	0.2231	0.2246	0.1935	0.2230	0.1834
Post and telecommunications	0.2032	0.2855	0.2167	0.2531	0.2402	0.2112	0.2527	0.2111
Financial intermediation	0.1076	0.1307	0.1008	0.1453	0.1439	0.1197	0.1459	0.1167
Real estate activities	0.1632	0.1411	0.1579	0.1880	0.1277	0.1028	0.1166	0.0951
Renting of M&Eq and other business activities	0.2245	0.2406	0.3320	0.3075	0.3393	0.2995	0.3427	0.2837
Public administration and defense; compulsory social security	0.2670	0.2445	0.3523	0.2723	0.3095	0.3030	0.3399	0.2769
Education	0.2490	0.2145	0.2054	0.3267	0.2425	0.2233	0.2361	0.1916
Health and social work	0.4545	0.5536	0.4629	0.4311	0.5445	0.5472	0.6477	0.5274
Other community, social, and personal services	0.3249	0.3103	0.2726	0.2260	0.1908	0.1694	0.1898	0.1589
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.3-5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0004	0.0003	0.0007	0.0005	0.0003	0.0002	0.0002	0.0002
Mining and quarrying	0.0004	0.0004	0.0005	0.0004	0.0003	0.0002	0.0002	0.0002
Food, beverages, and tobacco	0.0004	0.0004	0.0007	0.0006	0.0004	0.0002	0.0002	0.0002
Textiles and textile products	0.0003	0.0005	0.0008	0.0007	0.0004	0.0003	0.0003	0.0002
Leather, leather products, and footwear	0.0006	0.0008	0.0008	0.0008	0.0007	0.0004	0.0004	0.0003
Wood and products of wood and cork	0.0009	0.0009	0.0008	0.0011	0.0009	0.0005	0.0005	0.0004
Pulp, paper, paper products, printing, and publishing	0.0008	0.0008	0.0008	0.0007	0.0007	0.0004	0.0004	0.0003
Coke, refined petroleum, and nuclear fuel	0.0006	0.0005	0.0005	0.0004	0.0002	0.0001	0.0001	0.0001
Chemicals and chemical products	0.0010	0.0014	0.0008	0.0008	0.0004	0.0002	0.0002	0.0002
Rubber and plastics	0.0014	0.0020	0.0017	0.0013	0.0009	0.0005	0.0005	0.0004
Other nonmetallic minerals	0.0008	0.0007	0.0009	0.0008	0.0006	0.0003	0.0003	0.0003
Basic metals and fabricated metal	0.0004	0.0004	0.0007	0.0005	0.0002	0.0002	0.0002	0.0001
Machinery, nec	0.0006	0.0008	0.0012	0.0009	0.0007	0.0004	0.0004	0.0003
Electrical and optical equipment	0.0007	0.0009	0.0008	0.0006	0.0004	0.0003	0.0003	0.0002
Transport equipment	0.0009	0.0011	0.0012	0.0007	0.0007	0.0004	0.0004	0.0003
Manufacturing, nec; recycling	0.0008	0.0009	0.0013	0.0012	0.0007	0.0004	0.0004	0.0003
Electricity, gas, and water supply	0.0005	0.0006	0.0008	0.0006	0.0005	0.0003	0.0003	0.0002
Construction	0.0008	0.0007	0.0010	0.0007	0.0005	0.0003	0.0003	0.0002
Sale, maintenance, and repair	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002
Wholesale trade and commission trade	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
Retail trade	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
Hotels and restaurants	0.0003	0.0003	0.0005	0.0004	0.0003	0.0002	0.0002	0.0001
Inland transport	0.0006	0.0005	0.0008	0.0008	0.0007	0.0004	0.0004	0.0003
Water transport	0.0010	0.0009	0.0017	0.0012	0.0006	0.0004	0.0004	0.0003
Air transport	0.0019	0.0011	0.0012	0.0009	0.0005	0.0003	0.0003	0.0002
Other supporting and auxiliary transport activities	0.0003	0.0003	0.0010	0.0006	0.0003	0.0002	0.0002	0.0001
Post and telecommunications	0.0002	0.0003	0.0003	0.0003	0.0002	0.0001	0.0001	0.0001
Financial intermediation	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000
Real estate activities	0.0002	0.0001	0.0002	0.0003	0.0002	0.0001	0.0001	0.0001
Renting of M&Eq and other business activities	0.0003	0.0003	0.0005	0.0004	0.0004	0.0002	0.0002	0.0002
Public administration and defense; compulsory social security	0.0005	0.0003	0.0004	0.0003	0.0003	0.0002	0.0002	0.0002
Education	0.0003	0.0003	0.0003	0.0004	0.0003	0.0002	0.0001	0.0001
Health and social work	0.0007	0.0009	0.0008	0.0007	0.0008	0.0005	0.0005	0.0004
Other community, social, and personal services	0.0004	0.0004	0.0005	0.0004	0.0002	0.0001	0.0001	0.0001
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	35,319	31,560	55,296	49,845	53,672	46,671	52,750	47,041	42,837	39,005	21,602	19,678	18,520	16,553	20,223	18,491
Low tech	887	756	963	816	1,157	910	1,224	988	1,241	1,044	1,057	911	724	603	756	653
High and medium tech	12,533	11,182	16,468	14,917	18,621	15,892	14,813	13,010	11,538	10,525	8,181	7,495	7,730	7,008	8,072	7,451
Utilities	312	268	241	207	249	206	373	319	318	274	299	262	171	147	183	163
Construction	23	19	41	35	19	15	81	68	275	233	216	187	133	113	133	117
Trade and repair services	7,659	7,274	8,124	7,689	11,879	11,256	13,737	12,741	16,111	14,664	12,118	11,201	9,344	8,550	9,549	8,898
Tourism	-	-	2	2	1	1	2	2	1	1	1	1	1	1	1	1
Transport services	4,963	4,266	5,574	4,772	6,028	5,040	2,882	2,480	3,713	3,200	3,218	2,816	2,338	2,004	2,462	2,179
ICT services	94	86	154	137	489	445	237	212	243	220	287	262	118	106	114	104
Finance and insurance services	103	98	119	113	141	134	66	61	98	91	137	129	66	61	85	80
Property services	370	335	389	351	394	341	584	517	516	447	914	843	374	322	401	356
Public and welfare services	360	317	412	366	363	305	3	3	431	399	320	299	233	216	251	236
Services provided by private households	0	0	0	0	-	-	0	0	0	0	0	0	0	0	0	0

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 4.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	5.186	3.205	5.183	2.943	4.744	2.927	5.274	3.205	5.108	3.158	4.614	2.627	4.931	2.815	4.853	2.982
Low tech	0.098	0.111	0.077	0.095	0.088	0.102	0.097	0.109	0.108	0.124	0.146	0.162	0.122	0.138	0.119	0.134
High and medium tech	0.427	0.519	0.401	0.509	0.432	0.511	0.371	0.454	0.324	0.445	0.365	0.457	0.424	0.545	0.416	0.491
Utilities	1.112	0.499	0.615	0.593	0.587	0.507	0.929	0.463	0.876	0.488	1.275	0.545	0.709	0.489	0.860	0.498
Construction	0.092	0.509	0.122	0.979	0.050	1.626	0.172	0.986	0.692	0.898	0.840	0.918	0.547	0.703	0.603	0.606
Trade and repair services	1.563	1.453	1.197	1.354	1.603	1.439	2.022	1.503	2.653	1.779	3.125	2.163	2.913	2.074	2.822	1.953
Tourism	0.000	0.019	0.002	0.045	0.001	0.084	0.003	0.110	0.001	0.081	0.002	0.098	0.002	0.096	0.002	0.108
Transport services	1.329	1.388	1.138	1.234	1.145	1.368	0.600	1.140	0.862	1.176	1.176	1.490	1.054	1.397	1.042	1.361
ICT services	0.224	0.363	0.279	0.581	0.760	0.541	0.398	0.433	0.454	0.490	0.844	0.673	0.404	0.402	0.346	0.319
Finance and insurance services	0.054	0.465	0.047	0.389	0.052	0.291	0.025	0.312	0.042	0.318	0.091	0.444	0.051	0.374	0.064	0.469
Property services	0.090	0.198	0.069	0.299	0.066	0.246	0.099	0.258	0.094	0.241	0.257	0.340	0.124	0.302	0.124	0.299
Public and welfare services	0.308	0.092	0.269	0.103	0.217	0.092	0.002	0.031	0.293	0.142	0.332	0.160	0.277	0.141	0.313	0.158
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

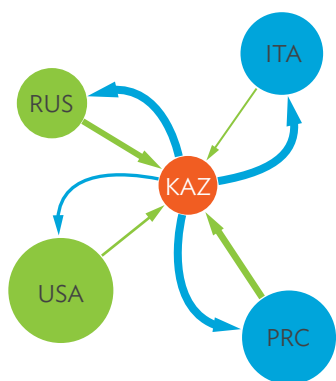
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 4.4

## GLOBAL VALUE CHAIN INDICATORS

### Kazakhstan

**Figure 4.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

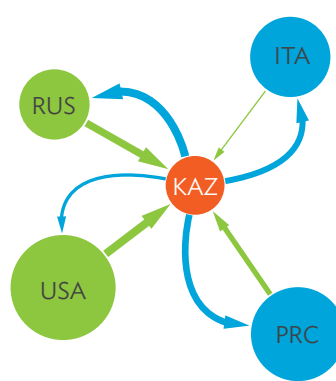
ITA = Italy, KAZ = Kazakhstan, PRC = People's Republic of China, RUS = Russian Federation, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 4.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

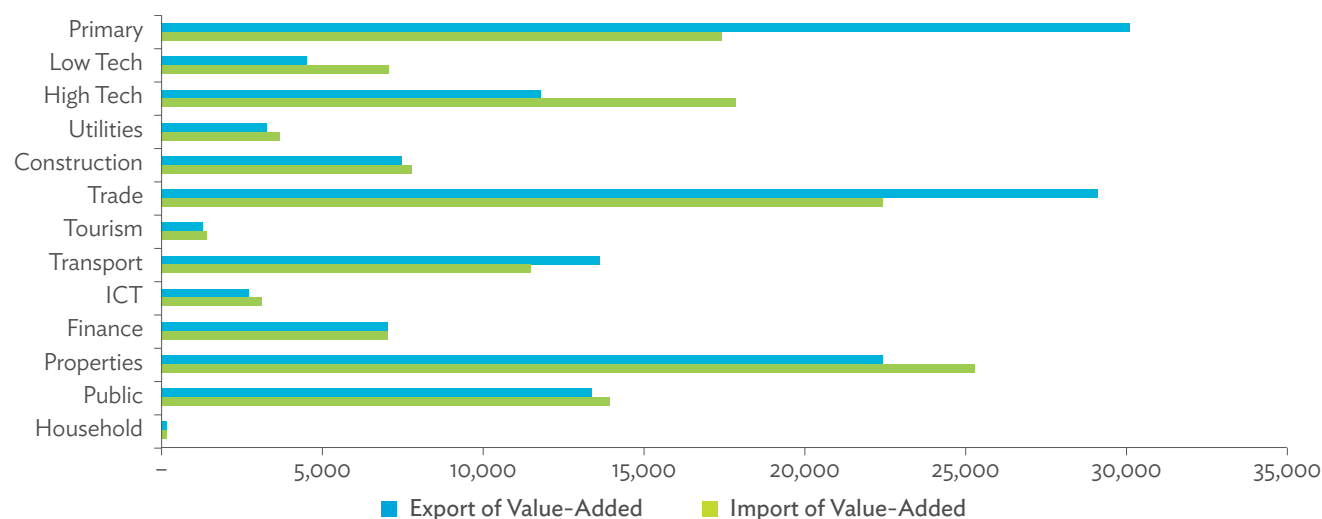
ITA = Italy, KAZ = Kazakhstan, PRC = People's Republic of China, RUS = Russian Federation, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

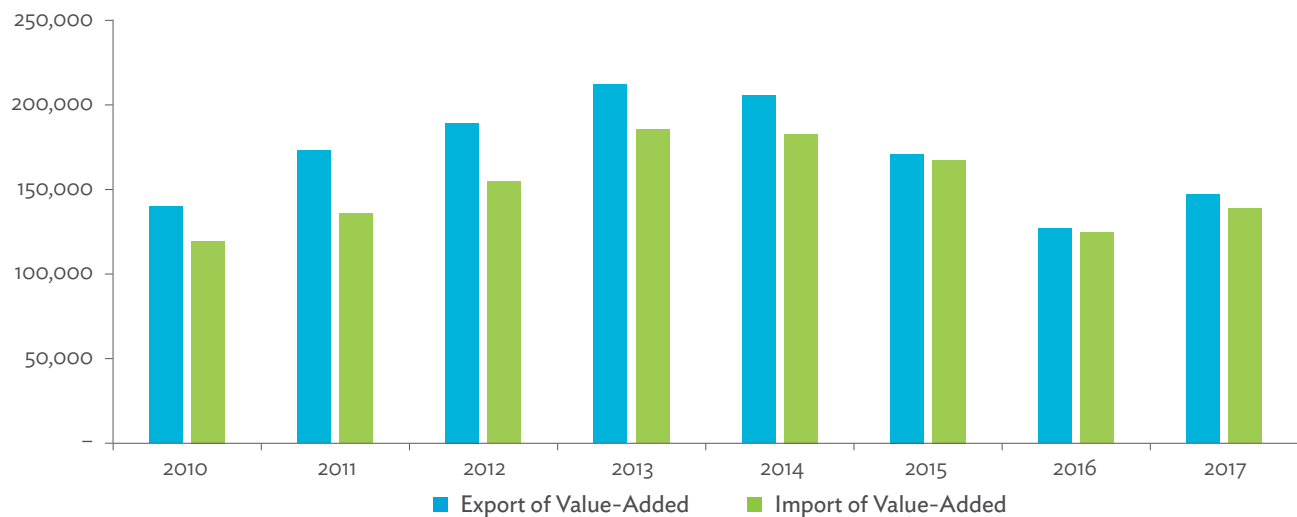
**Figure 4.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

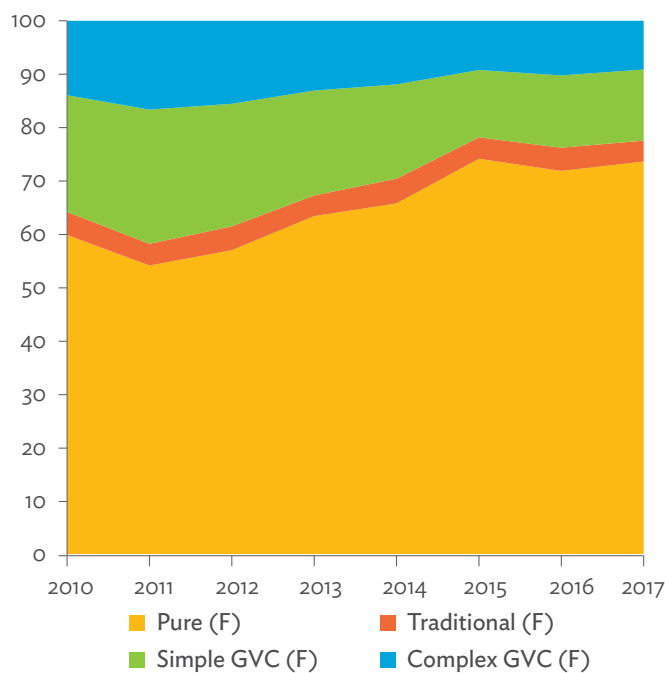
[Click here for figure data](#)

**Figure 4.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

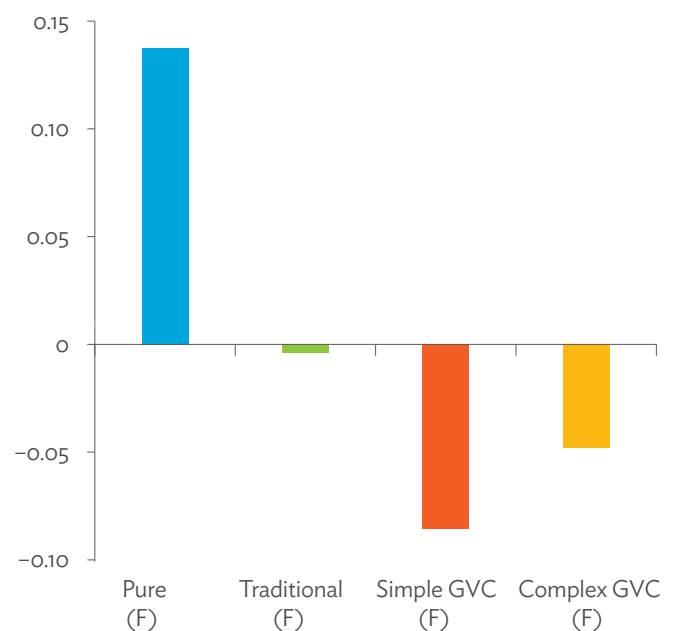
[Click here for figure data](#)

**Figure 4.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

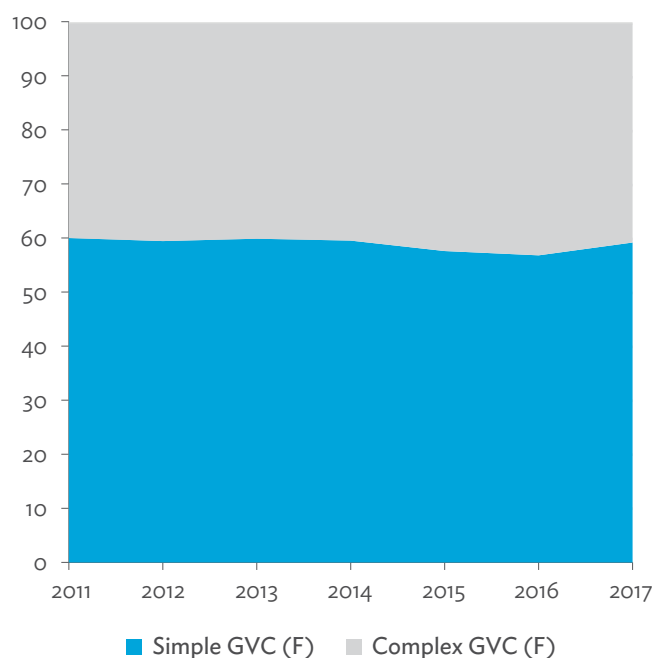
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

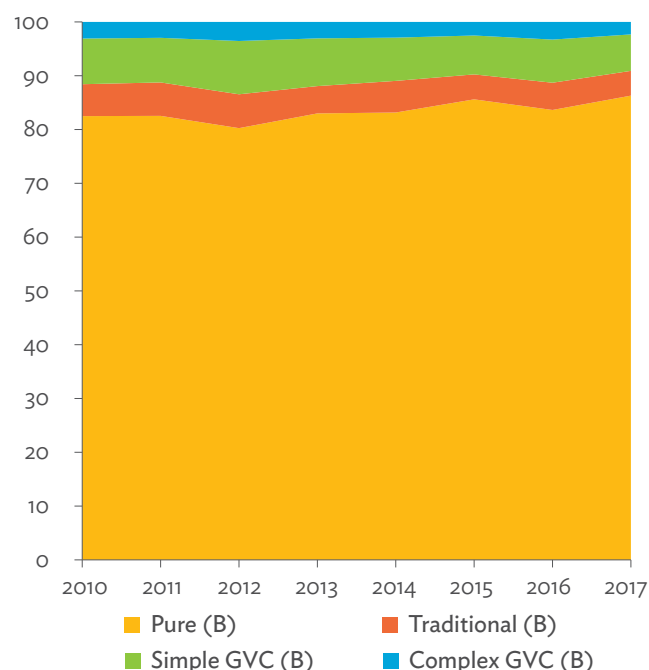


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

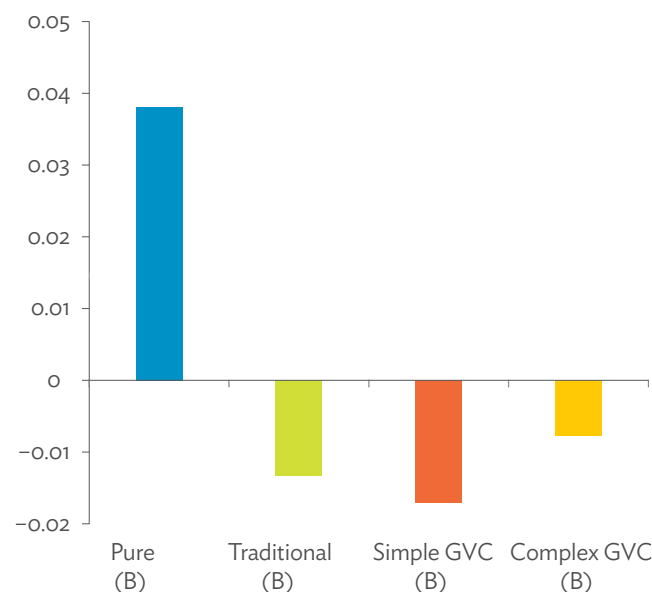


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



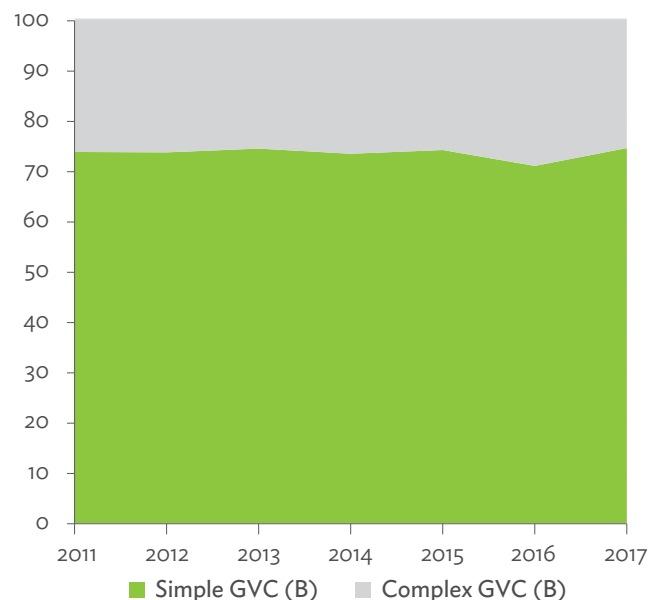
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

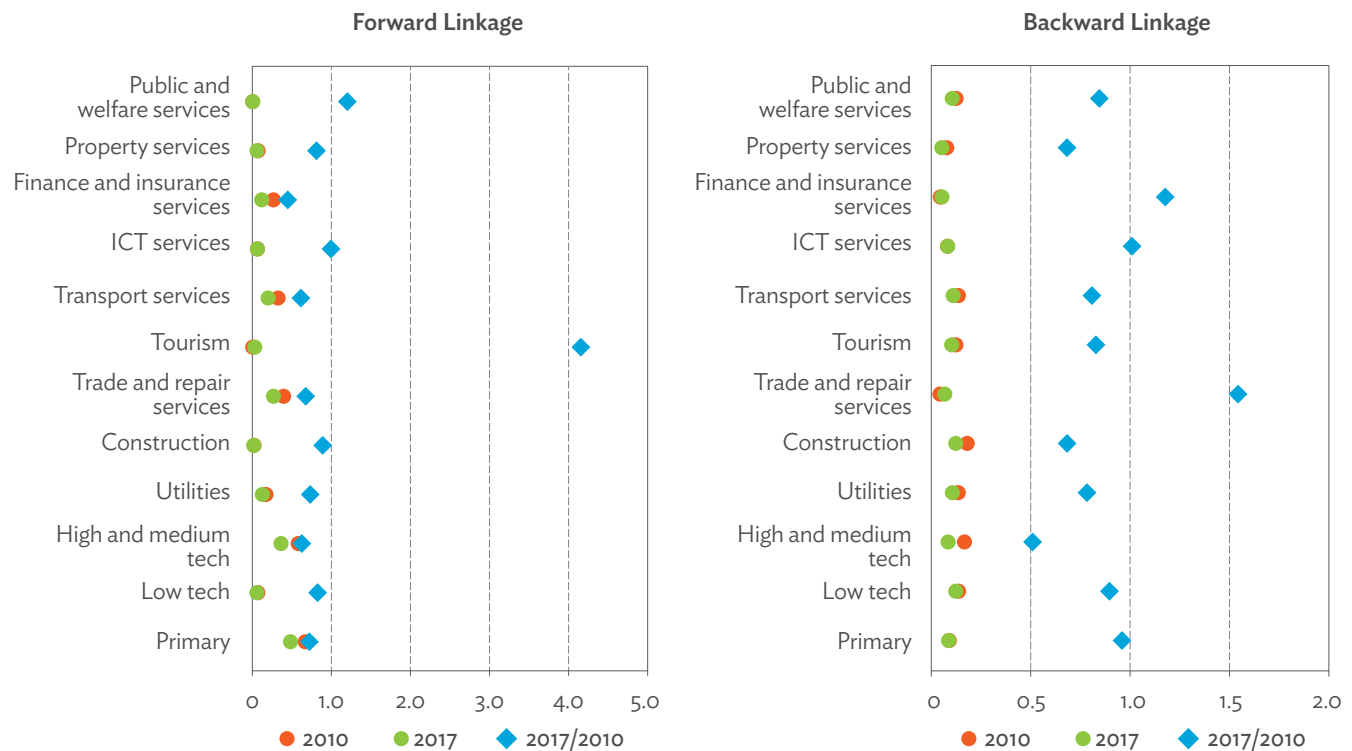


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

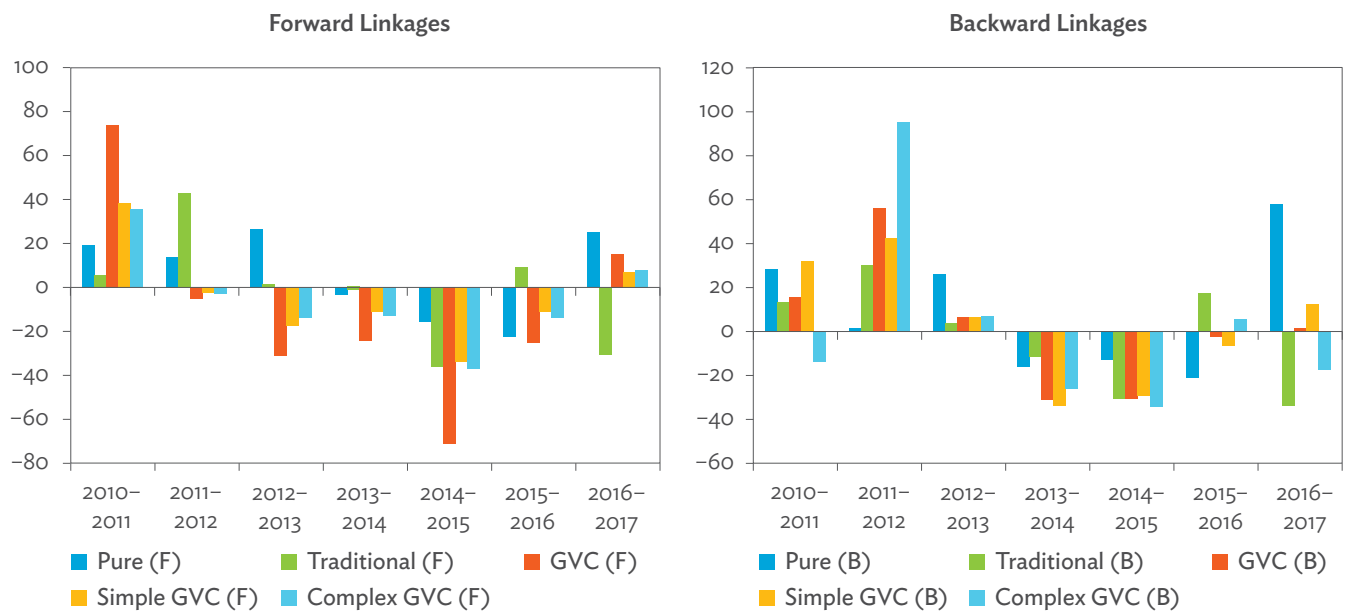


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 4.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

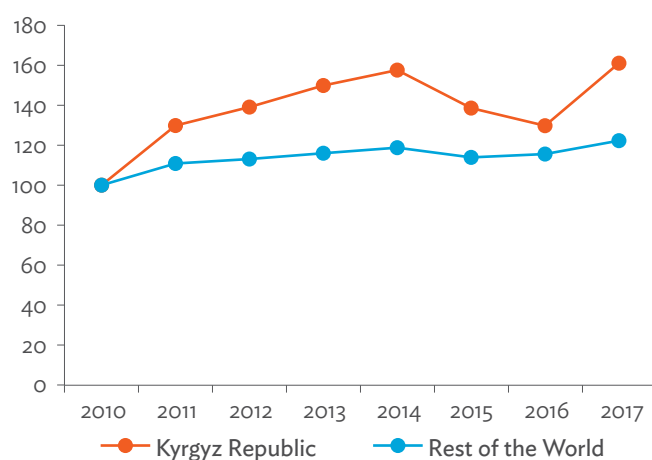


# 5.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Kyrgyz Republic

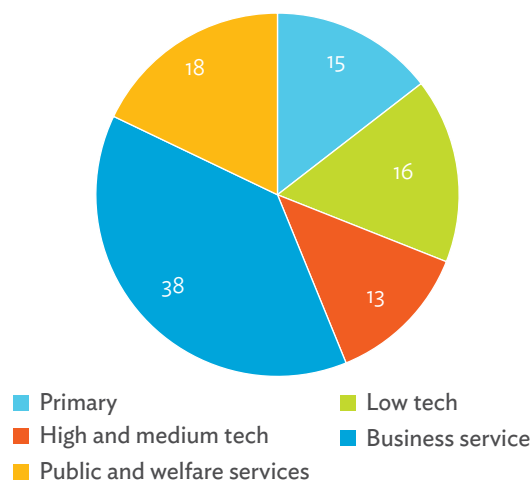
**Figure 5.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

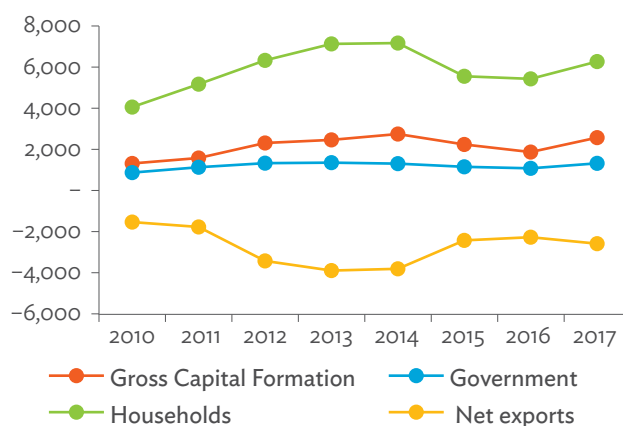
**Figure 5.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

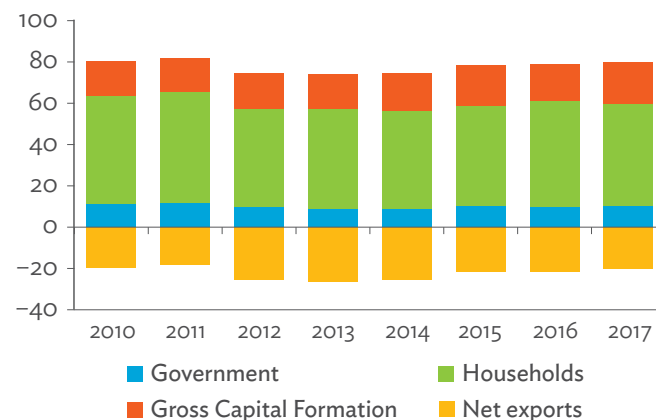


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

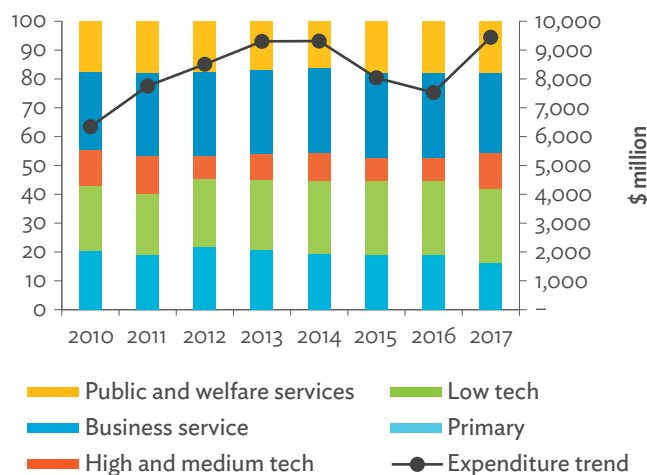
**Figure 5.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

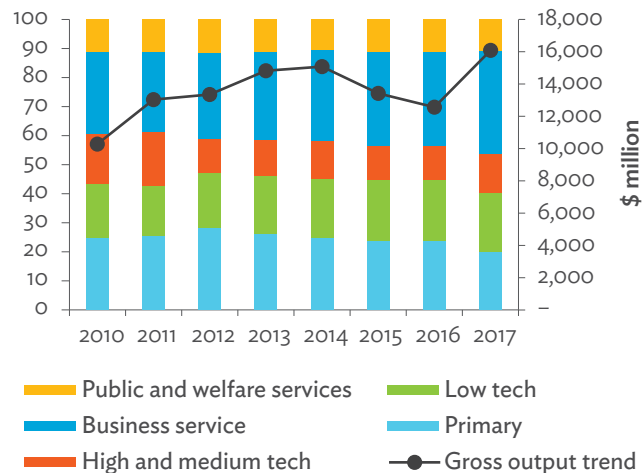


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

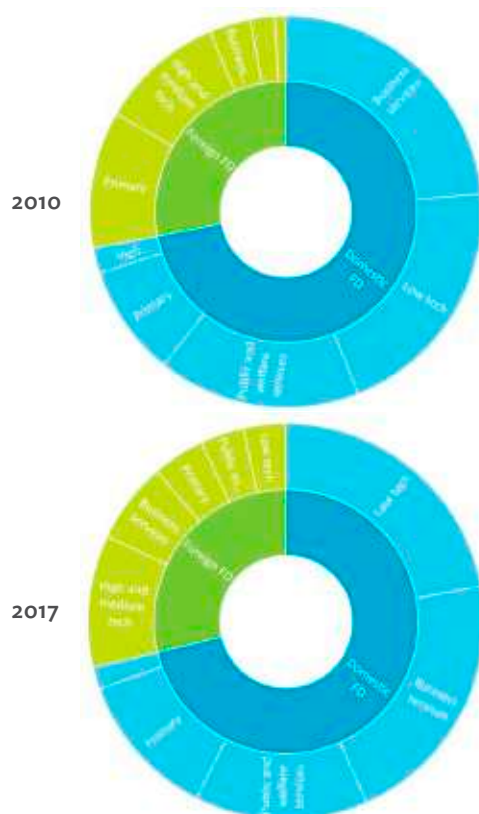


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

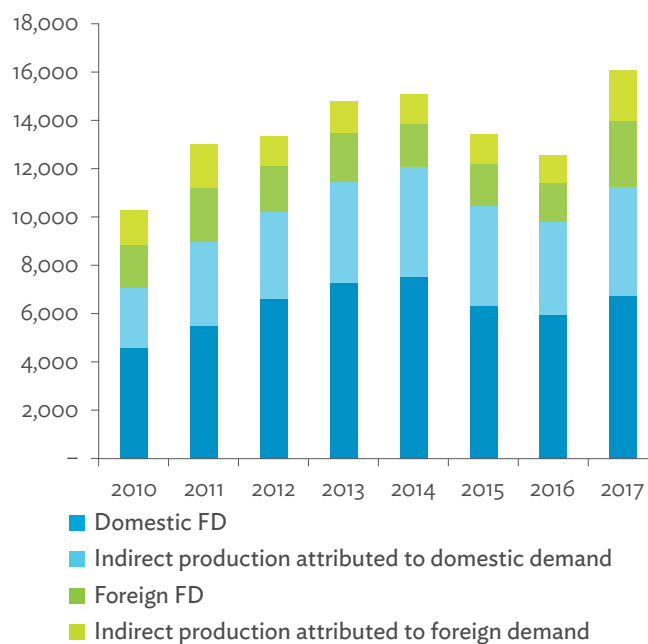


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

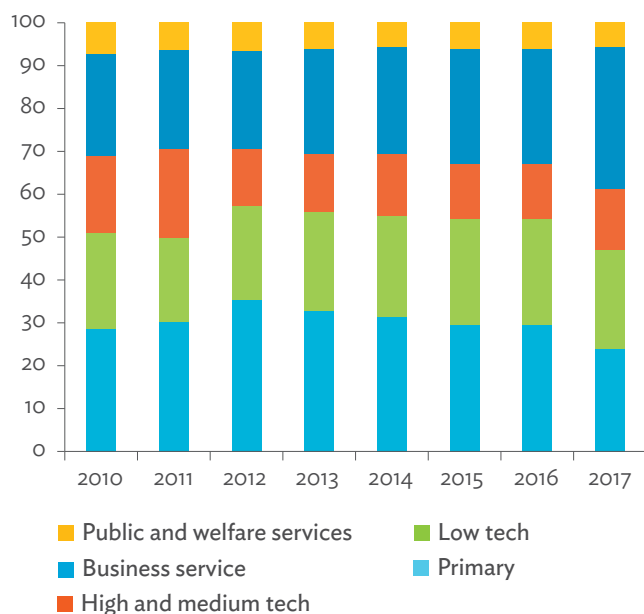


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

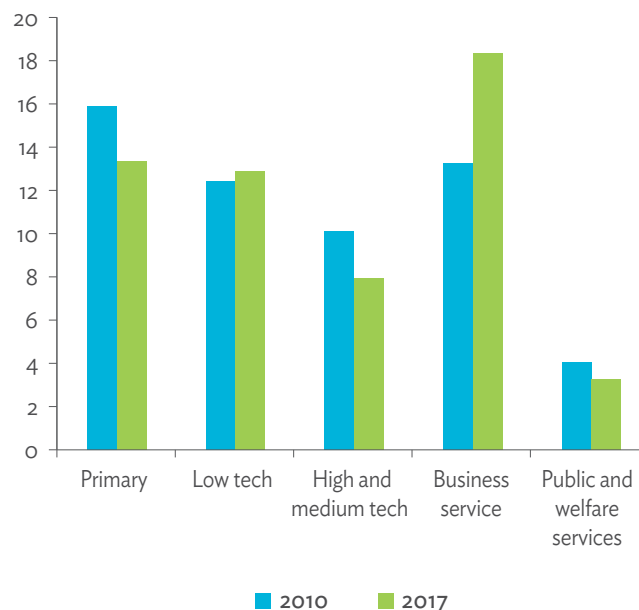
**Figure 5.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

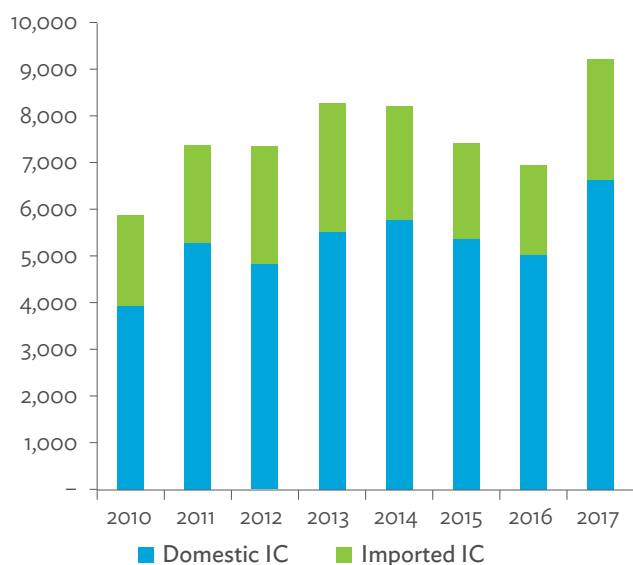
**Figure 5.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

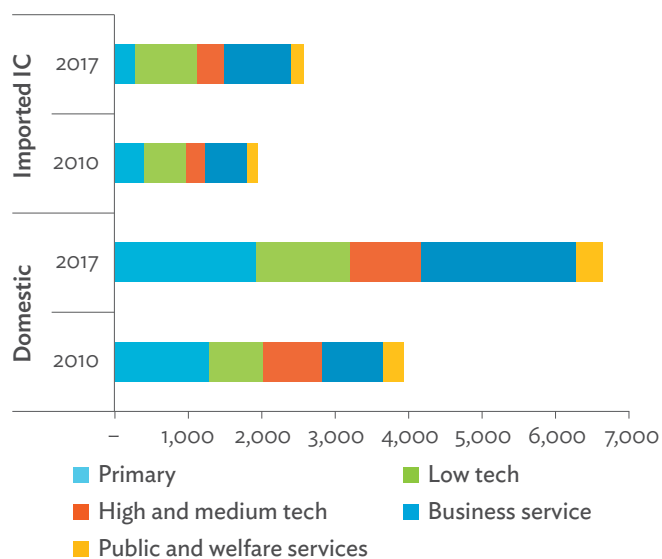


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

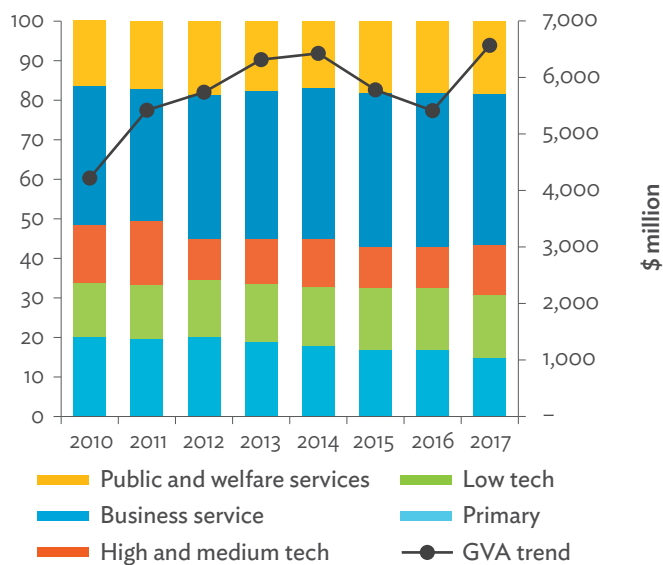


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

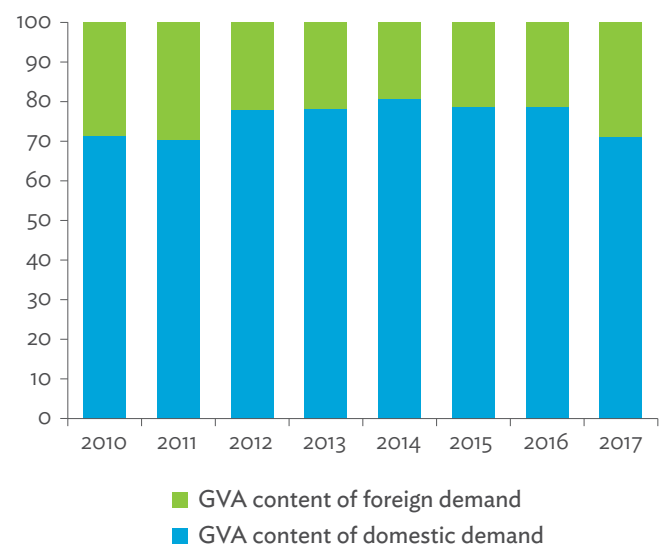


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

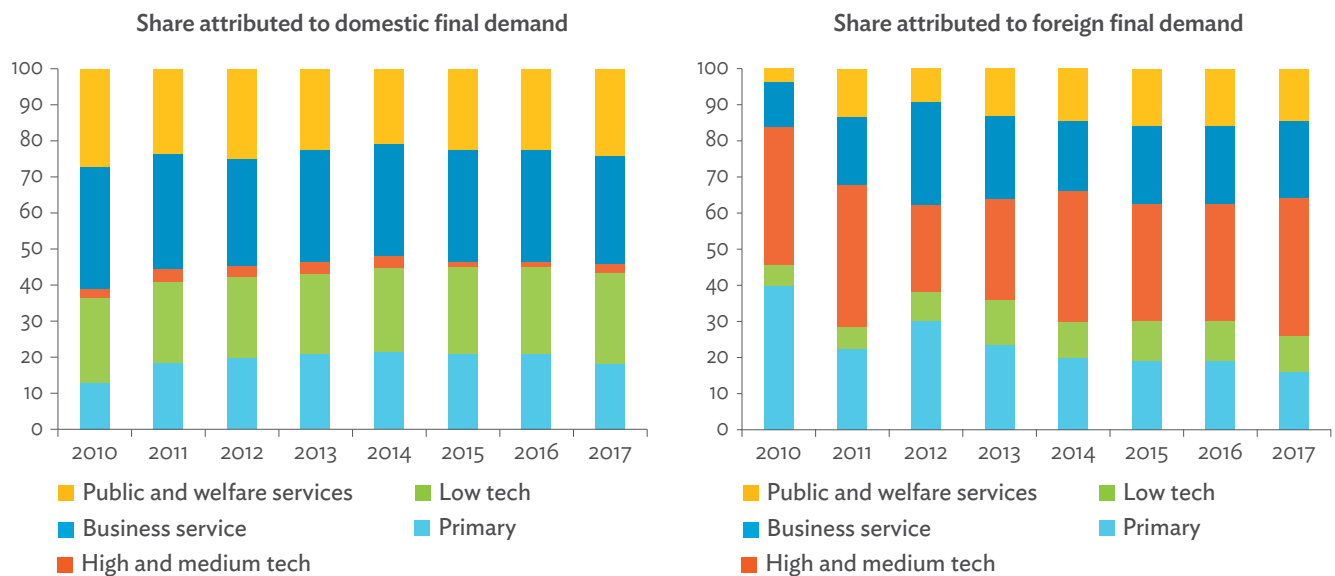


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 5.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.671	0.731	0.681	0.711	0.760	0.783	0.783	0.760
Mining and quarrying	0.666	0.701	0.642	0.656	0.687	0.719	0.719	0.692
Food, beverages, and tobacco	0.546	0.616	0.621	0.640	0.657	0.692	0.692	0.667
Textiles and textile products	0.447	0.571	0.594	0.600	0.615	0.648	0.648	0.619
Leather, leather products, and footwear	0.447	0.599	0.587	0.592	0.608	0.641	0.641	0.611
Wood and products of wood and cork	0.564	0.833	0.799	0.546	0.562	0.556	0.556	0.519
Pulp, paper, paper products, printing, and publishing	0.564	0.560	0.523	0.523	0.535	0.574	0.574	0.532
Coke, refined petroleum, and nuclear fuel	0.378	0.402	0.493	0.547	0.578	0.608	0.608	0.576
Chemicals and chemical products	0.378	0.403	0.493	0.547	0.579	0.608	0.608	0.576
Rubber and plastics	0.549	0.559	0.619	0.606	0.595	0.634	0.634	0.601
Other nonmetallic minerals	0.549	0.559	0.619	0.605	0.592	0.631	0.631	0.598
Basic metals and fabricated metal	0.719	0.767	0.649	0.671	0.703	0.735	0.735	0.710
Machinery, nec	0.598	0.613	0.598	0.609	0.633	0.659	0.659	0.625
Electrical and optical equipment	0.598	0.613	0.598	0.609	0.633	0.659	0.659	0.627
Transport equipment	0.598	0.613	0.598	0.609	0.633	0.659	0.659	0.628
Manufacturing, nec; recycling	0.598	0.582	0.503	0.500	0.514	0.551	0.551	0.513
Electricity, gas, and water supply	0.621	0.668	0.582	0.577	0.583	0.620	0.620	0.587
Construction	0.540	0.552	0.539	0.533	0.532	0.573	0.573	0.536
Sale, maintenance, and repair	0.756	0.706	0.716	0.769	0.800	0.819	0.819	0.826
Wholesale trade and commission trade	0.756	0.749	0.765	0.769	0.776	0.797	0.797	0.779
Retail trade	0.756	0.747	0.758	0.735	0.720	0.746	0.746	0.736
Hotels and restaurants	0.633	0.660	0.654	0.660	0.666	0.700	0.700	0.674
Inland transport	0.576	0.562	0.965	0.659	0.529	0.573	0.573	0.547
Water transport	0.576	0.560	0.965	0.662	0.534	0.578	0.578	0.541
Air transport	0.576	0.560	0.965	0.662	0.534	0.578	0.578	0.556
Other supporting and auxiliary transport activities	0.576	0.562	0.965	0.663	0.535	0.578	0.578	0.556
Post and telecommunications	0.576	0.662	0.441	0.542	0.633	0.663	0.663	0.615
Financial intermediation	0.783	0.762	0.525	0.589	0.544	0.657	0.657	0.758
Real estate activities	0.755	0.749	0.777	0.782	0.786	0.806	0.806	0.786
Renting of M&Eq and other business activities	0.755	0.749	0.777	0.782	0.786	0.810	0.810	0.790
Public administration and defense; compulsory social security	0.759	0.750	0.782	0.796	0.814	0.833	0.833	0.810
Education	0.827	0.860	0.881	0.876	0.877	0.888	0.888	0.879
Health and social work	0.784	0.820	0.836	0.842	0.857	0.869	0.869	0.856
Other community, social, and personal services	0.688	0.718	0.724	0.710	0.704	0.732	0.732	0.708
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.305	0.249	0.311	0.279	0.215	0.203	0.203	0.221
Mining and quarrying	0.312	0.268	0.324	0.319	0.268	0.257	0.257	0.280
Food, beverages, and tobacco	0.428	0.329	0.330	0.326	0.282	0.270	0.270	0.294
Textiles and textile products	0.531	0.410	0.378	0.375	0.333	0.318	0.318	0.346
Leather, leather products, and footwear	0.531	0.380	0.386	0.383	0.340	0.325	0.325	0.354
Wood and products of wood and cork	0.409	0.547	0.593	0.619	0.639	0.416	0.416	0.454
Pulp, paper, paper products, printing, and publishing	0.409	0.381	0.417	0.445	0.421	0.396	0.396	0.439
Coke, refined petroleum, and nuclear fuel	0.604	0.536	0.428	0.418	0.375	0.343	0.343	0.375
Chemicals and chemical products	0.604	0.535	0.428	0.418	0.375	0.343	0.343	0.375
Rubber and plastics	0.403	0.372	0.315	0.349	0.332	0.320	0.320	0.353
Other nonmetallic minerals	0.403	0.372	0.315	0.351	0.335	0.322	0.322	0.355
Basic metals and fabricated metal	0.229	0.221	0.346	0.311	0.248	0.236	0.236	0.262
Machinery, nec	0.370	0.355	0.361	0.370	0.340	0.310	0.310	0.345
Electrical and optical equipment	0.370	0.355	0.361	0.370	0.340	0.310	0.310	0.342
Transport equipment	0.370	0.355	0.361	0.370	0.340	0.310	0.310	0.342
Manufacturing, nec; recycling	0.370	0.384	0.452	0.473	0.444	0.420	0.420	0.460
Electricity, gas, and water supply	0.360	0.305	0.383	0.393	0.356	0.345	0.345	0.370
Construction	0.422	0.409	0.406	0.424	0.391	0.388	0.388	0.418
Sale, maintenance, and repair	0.222	0.261	0.250	0.210	0.166	0.162	0.162	0.150
Wholesale trade and commission trade	0.222	0.223	0.205	0.210	0.189	0.182	0.182	0.196
Retail trade	0.222	0.220	0.210	0.239	0.233	0.229	0.229	0.233
Hotels and restaurants	0.339	0.295	0.300	0.307	0.280	0.268	0.268	0.285
Inland transport	0.406	0.409	0.432	0.422	0.403	0.396	0.396	0.416
Water transport	0.406	0.411	0.432	0.418	0.398	0.391	0.391	0.423
Air transport	0.406	0.411	0.432	0.418	0.398	0.391	0.391	0.407
Other supporting and auxiliary transport activities	0.406	0.409	0.432	0.418	0.397	0.391	0.391	0.407
Post and telecommunications	0.406	0.305	0.338	0.364	0.323	0.308	0.308	0.347
Financial intermediation	0.193	0.212	0.232	0.213	0.118	0.133	0.133	0.168
Real estate activities	0.214	0.216	0.186	0.194	0.177	0.168	0.168	0.180
Renting of M&Eq and other business activities	0.214	0.216	0.186	0.194	0.177	0.172	0.172	0.184
Public administration and defense; compulsory social security	0.209	0.208	0.192	0.185	0.156	0.149	0.149	0.168
Education	0.156	0.108	0.111	0.116	0.105	0.100	0.100	0.108
Health and social work	0.204	0.148	0.151	0.148	0.126	0.118	0.118	0.127
Other community, social, and personal services	0.292	0.266	0.241	0.266	0.256	0.243	0.243	0.261
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.957	2.201	2.029	2.107	2.221	2.264	2.264	2.220
Mining and quarrying	1.238	1.270	1.399	1.390	1.387	1.449	1.449	1.409
Food, beverages, and tobacco	1.860	1.931	1.805	1.895	1.962	2.033	2.033	2.040
Textiles and textile products	1.729	1.750	1.772	1.731	1.701	1.771	1.771	1.713
Leather, leather products, and footwear	1.729	1.767	1.750	1.708	1.679	1.750	1.750	1.691
Wood and products of wood and cork	1.424	1.523	1.430	1.159	1.310	1.292	1.292	1.223
Pulp, paper, paper products, printing, and publishing	1.424	1.552	1.442	1.414	1.409	1.492	1.492	1.463
Coke, refined petroleum, and nuclear fuel	1.371	1.449	1.570	1.506	1.484	1.542	1.542	1.496
Chemicals and chemical products	1.371	1.451	1.570	1.506	1.485	1.542	1.542	1.496
Rubber and plastics	1.659	1.645	1.593	1.564	1.526	1.605	1.605	1.557
Other nonmetallic minerals	1.659	1.645	1.593	1.563	1.524	1.603	1.603	1.553
Basic metals and fabricated metal	1.897	2.028	1.695	1.742	1.802	1.878	1.878	1.794
Machinery, nec	1.485	1.545	1.392	1.382	1.397	1.450	1.450	1.392
Electrical and optical equipment	1.485	1.545	1.392	1.381	1.397	1.450	1.450	1.388
Transport equipment	1.485	1.545	1.392	1.381	1.397	1.450	1.450	1.388
Manufacturing, nec; recycling	1.551	1.626	1.423	1.361	1.348	1.431	1.431	1.371
Electricity, gas, and water supply	1.340	1.322	1.368	1.337	1.315	1.393	1.393	1.347
Construction	1.569	1.602	1.581	1.573	1.566	1.673	1.673	1.578
Sale, maintenance, and repair	1.379	1.364	1.191	1.173	1.158	1.198	1.198	1.188
Wholesale trade and commission trade	1.379	1.413	1.262	1.260	1.250	1.296	1.296	1.295
Retail trade	1.379	1.388	1.244	1.258	1.258	1.317	1.317	1.269
Hotels and restaurants	1.723	1.744	1.678	1.646	1.613	1.683	1.683	1.676
Inland transport	1.263	1.312	1.295	1.177	1.269	1.361	1.361	1.329
Water transport	1.263	1.310	1.295	1.183	1.277	1.369	1.369	1.348
Air transport	1.263	1.310	1.295	1.183	1.276	1.369	1.369	1.335
Other supporting and auxiliary transport activities	1.263	1.314	1.295	1.183	1.277	1.369	1.369	1.336
Post and telecommunications	1.263	1.327	1.242	1.277	1.210	1.275	1.275	1.262
Financial intermediation	6.668	6.165	3.596	3.957	3.959	4.739	4.739	5.593
Real estate activities	1.313	1.353	1.372	1.379	1.369	1.411	1.411	1.412
Renting of M&Eq and other business activities	1.313	1.353	1.372	1.379	1.369	1.420	1.420	1.422
Public administration and defense; compulsory social security	1.422	1.423	1.354	1.341	1.321	1.361	1.361	1.370
Education	1.327	1.265	1.243	1.257	1.267	1.287	1.287	1.287
Health and social work	1.297	1.300	1.274	1.289	1.306	1.327	1.327	1.308
Other community, social, and personal services	1.419	1.515	1.439	1.442	1.442	1.503	1.503	1.558
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

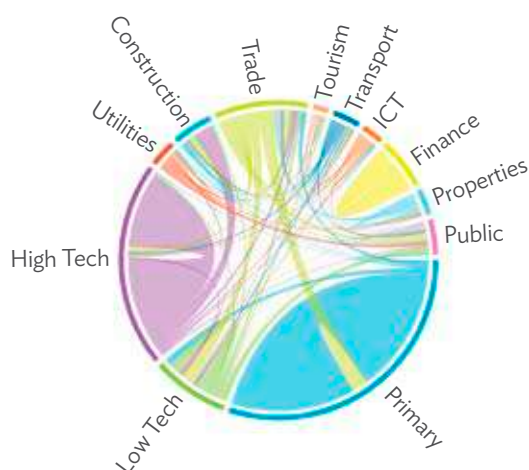
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 5.2

### Kyrgyz Republic

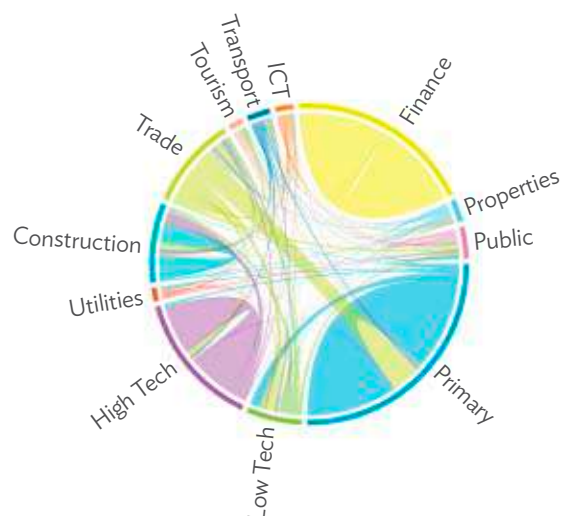
**Figure 5.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

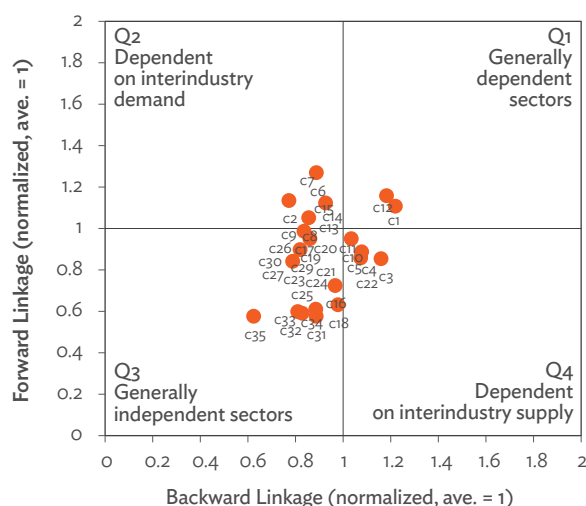
**Figure 5.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

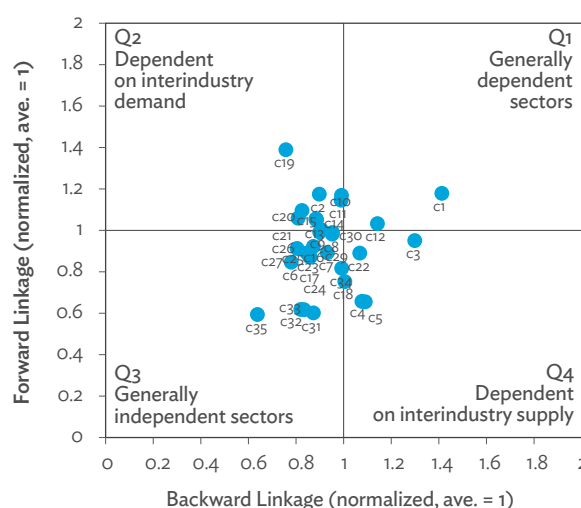
**Figure 5.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.2.2b: Backward and Forward Linkages by Industry, 2017**



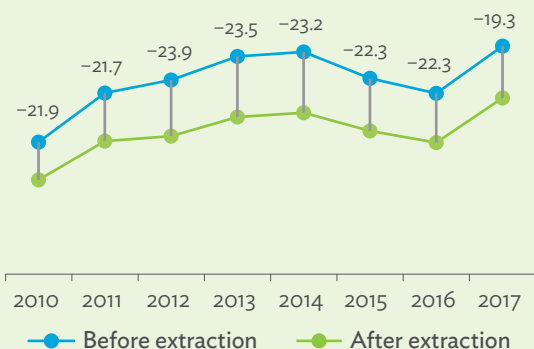
Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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### Box 5: Hypothetical Extraction of Agriculture, Hunting, Forestry, and Fishing Industry in the Kyrgyz Republic

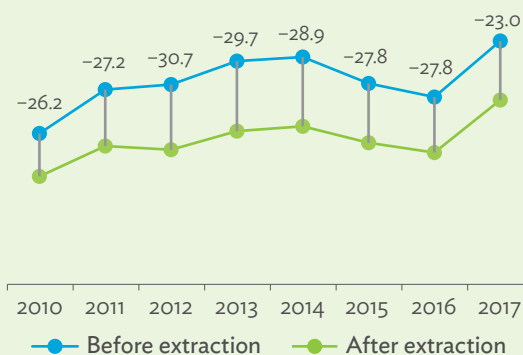
**Figure 5.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

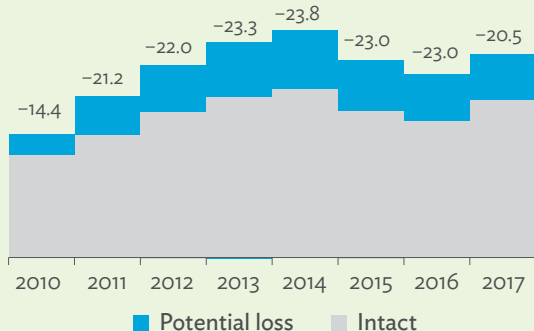
**Figure 5.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

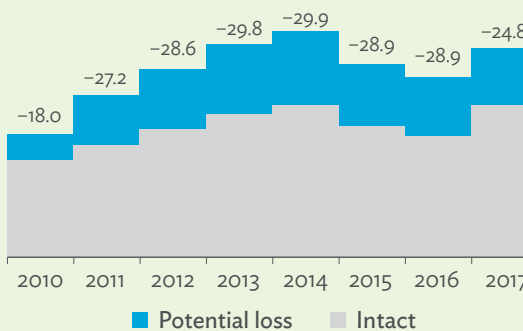
**Figure 5.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

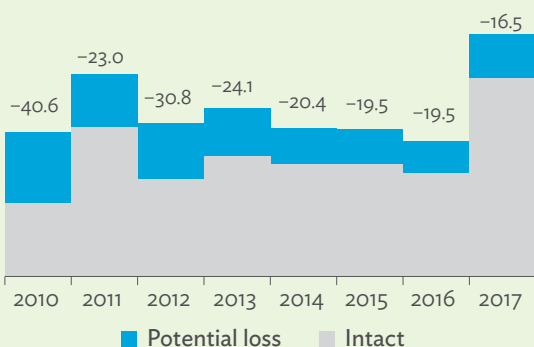
**Figure 5.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

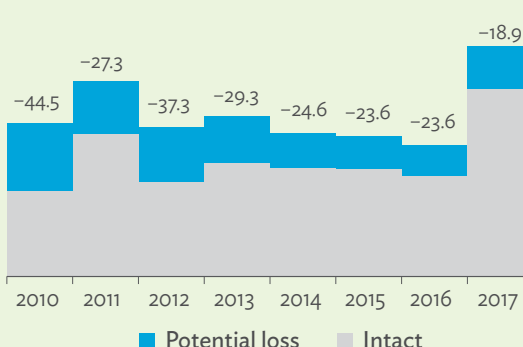
**Figure 5.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 5.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

Table 5.2.1: Input–Output Backward Linkage



Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.220	1.346	1.349	1.416	1.480	1.432	1.432	1.410
Mining and quarrying	0.771	0.777	0.930	0.934	0.924	0.916	0.916	0.895
Food, beverages, and tobacco	1.159	1.180	1.200	1.273	1.307	1.285	1.285	1.296
Textiles and textile products	1.078	1.070	1.178	1.163	1.133	1.120	1.120	1.088
Leather, leather products, and footwear	1.078	1.080	1.164	1.148	1.119	1.107	1.107	1.074
Wood and products of wood and cork	0.887	0.931	0.950	0.779	0.873	0.817	0.817	0.777
Pulp, paper, paper products, printing, and publishing	0.887	0.949	0.958	0.950	0.938	0.944	0.944	0.929
Coke, refined petroleum, and nuclear fuel	0.854	0.886	1.044	1.012	0.989	0.975	0.975	0.950
Chemicals and chemical products	0.854	0.887	1.044	1.012	0.989	0.975	0.975	0.950
Rubber and plastics	1.034	1.006	1.059	1.051	1.017	1.015	1.015	0.989
Other nonmetallic minerals	1.034	1.006	1.059	1.050	1.015	1.014	1.014	0.987
Basic metals and fabricated metal	1.182	1.240	1.127	1.170	1.200	1.188	1.188	1.139
Machinery, nec	0.925	0.944	0.926	0.928	0.931	0.917	0.917	0.884
Electrical and optical equipment	0.925	0.944	0.926	0.928	0.931	0.917	0.917	0.882
Transport equipment	0.925	0.944	0.926	0.928	0.931	0.917	0.917	0.881
Manufacturing, nec; recycling	0.966	0.994	0.946	0.914	0.898	0.905	0.905	0.871
Electricity, gas, and water supply	0.835	0.808	0.909	0.899	0.876	0.881	0.881	0.855
Construction	0.978	0.979	1.051	1.057	1.043	1.058	1.058	1.002
Sale, maintenance, and repair	0.859	0.834	0.791	0.788	0.772	0.758	0.758	0.755
Wholesale trade and commission trade	0.859	0.864	0.839	0.847	0.833	0.820	0.820	0.823
Retail trade	0.859	0.849	0.827	0.845	0.838	0.833	0.833	0.806
Hotels and restaurants	1.074	1.066	1.116	1.106	1.075	1.064	1.064	1.065
Inland transport	0.787	0.802	0.861	0.791	0.845	0.860	0.860	0.844
Water transport	0.787	0.801	0.861	0.795	0.851	0.865	0.865	0.856
Air transport	0.787	0.801	0.861	0.795	0.850	0.865	0.865	0.848
Other supporting and auxiliary transport activities	0.787	0.803	0.861	0.795	0.851	0.866	0.866	0.848
Post and telecommunications	0.787	0.811	0.826	0.858	0.806	0.806	0.806	0.802
Financial intermediation	4.155	3.769	2.391	2.659	2.638	2.996	2.996	3.552
Real estate activities	0.819	0.827	0.912	0.927	0.912	0.892	0.892	0.897
Renting of M&Eq and other business activities	0.819	0.827	0.912	0.927	0.912	0.898	0.898	0.903
Public administration and defense; compulsory social security	0.886	0.870	0.900	0.901	0.880	0.860	0.860	0.870
Education	0.827	0.773	0.826	0.845	0.844	0.814	0.814	0.817
Health and social work	0.808	0.795	0.847	0.866	0.870	0.839	0.839	0.831
Other community, social, and personal services	0.884	0.926	0.956	0.969	0.961	0.950	0.950	0.989
Private households with employed persons	0.623	0.611	0.665	0.672	0.666	0.632	0.632	0.635
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.107	1.279	1.223	1.228	1.240	1.161	1.161	1.178
Mining and quarrying	1.134	1.045	1.100	1.135	1.187	1.156	1.156	1.174
Food, beverages, and tobacco	0.853	0.871	0.947	0.943	0.950	0.963	0.963	0.950
Textiles and textile products	0.886	0.752	0.698	0.686	0.677	0.640	0.640	0.655
Leather, leather products, and footwear	0.886	0.753	0.698	0.684	0.677	0.641	0.641	0.656
Wood and products of wood and cork	1.269	1.171	1.161	0.937	0.853	0.834	0.834	0.845
Pulp, paper, paper products, printing, and publishing	1.269	1.230	1.194	1.030	0.901	0.887	0.887	0.891
Coke, refined petroleum, and nuclear fuel	1.051	1.040	0.958	0.965	0.982	1.022	1.022	0.981
Chemicals and chemical products	1.051	1.040	0.958	0.972	0.991	1.030	1.030	0.989
Rubber and plastics	0.949	1.032	1.229	1.204	1.177	1.192	1.192	1.168
Other nonmetallic minerals	0.949	0.970	1.316	1.230	1.158	1.173	1.173	1.145
Basic metals and fabricated metal	1.158	1.268	1.234	1.254	1.275	1.259	1.259	1.031
Machinery, nec	1.122	1.163	1.136	1.110	1.077	1.058	1.058	1.049
Electrical and optical equipment	1.122	1.113	1.136	1.112	1.083	1.065	1.065	1.055
Transport equipment	1.122	1.046	1.136	1.109	1.079	1.061	1.061	1.052
Manufacturing, nec; recycling	0.724	0.645	0.887	0.869	0.893	1.072	1.072	0.922
Electricity, gas, and water supply	0.985	0.973	0.899	0.900	0.897	0.872	0.872	0.871
Construction	0.631	0.707	0.723	0.740	0.750	0.760	0.760	0.751
Sale, maintenance, and repair	0.949	1.334	1.310	1.399	1.438	1.386	1.386	1.389
Wholesale trade and commission trade	0.949	1.080	1.129	1.121	1.115	1.085	1.085	1.095
Retail trade	0.949	1.001	1.051	1.069	1.084	1.047	1.047	1.058
Hotels and restaurants	0.857	0.865	0.749	0.826	0.893	0.867	0.867	0.889
Inland transport	0.841	0.763	0.895	0.922	0.929	0.908	0.908	0.889
Water transport	0.841	0.761	0.884	0.910	0.931	0.909	0.909	0.870
Air transport	0.841	0.760	0.884	0.910	0.931	0.909	0.909	0.890
Other supporting and auxiliary transport activities	0.841	0.807	0.884	0.910	0.931	0.909	0.909	0.890
Post and telecommunications	0.841	0.881	0.892	0.940	0.925	0.912	0.912	0.912
Financial intermediation	4.080	3.874	2.561	2.652	2.666	2.990	2.990	3.517
Real estate activities	0.897	0.744	0.878	0.924	0.969	0.993	0.993	0.990
Renting of M&Eq and other business activities	0.897	0.748	0.878	0.930	0.979	1.006	1.006	1.002
Public administration and defense; compulsory social security	0.575	0.591	0.639	0.636	0.630	0.594	0.594	0.601
Education	0.590	0.602	0.647	0.645	0.640	0.608	0.608	0.617
Health and social work	0.598	0.613	0.636	0.639	0.640	0.607	0.607	0.617
Other community, social, and personal services	0.609	0.894	0.822	0.831	0.832	0.844	0.844	0.817
Private households with employed persons	0.575	0.585	0.629	0.627	0.622	0.582	0.582	0.593
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 5.3

### Kyrgyz Republic

**Figure 5.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

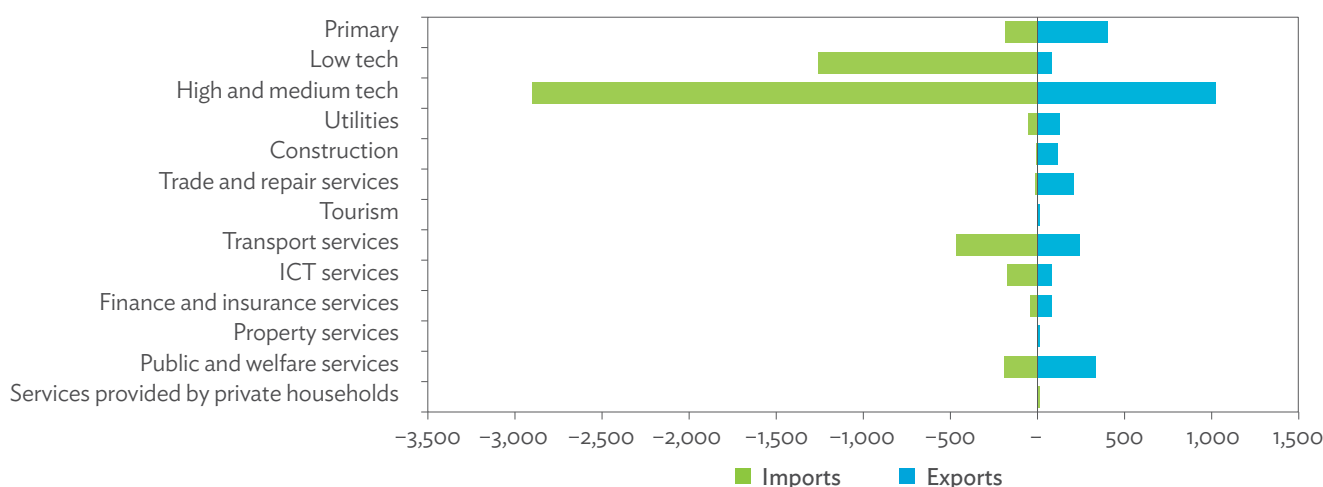


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

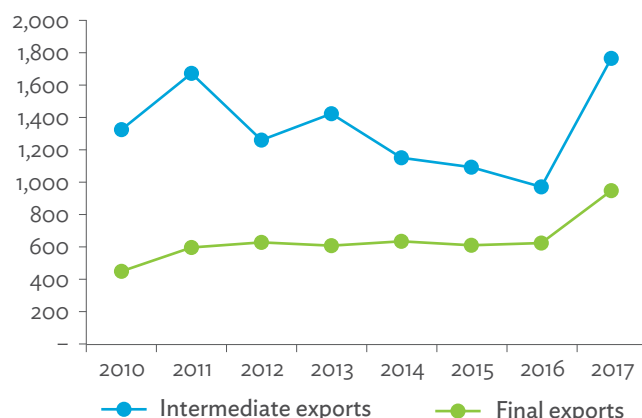


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

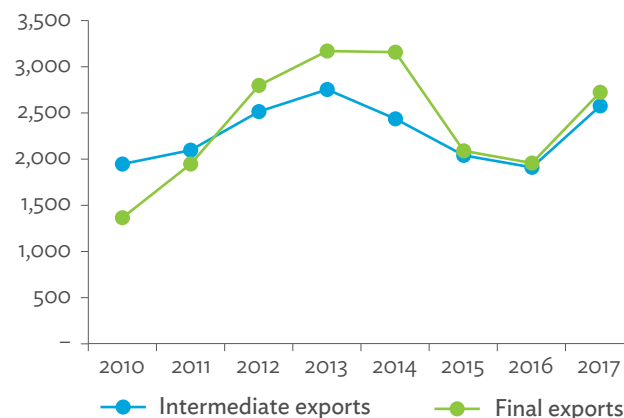


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

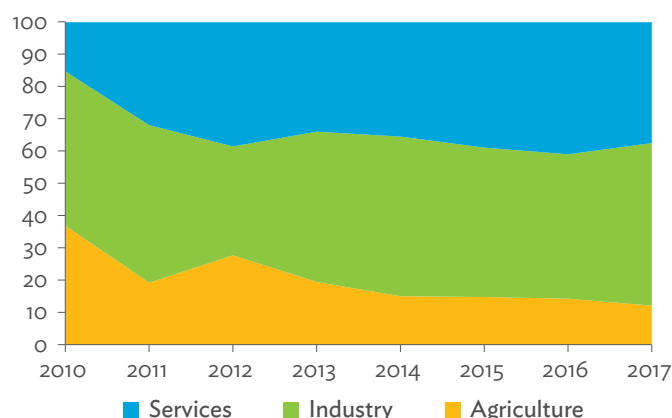


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

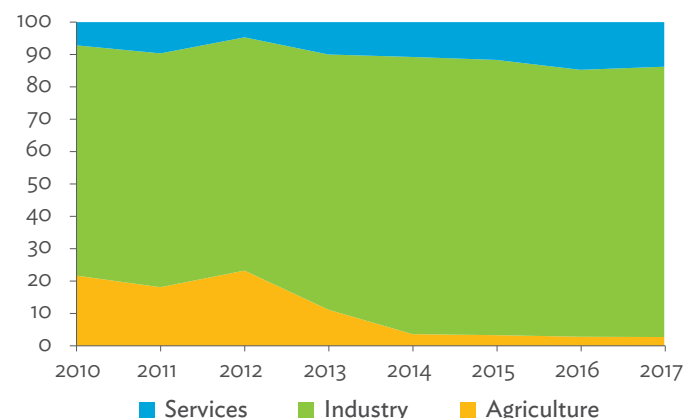
**Figure 5.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

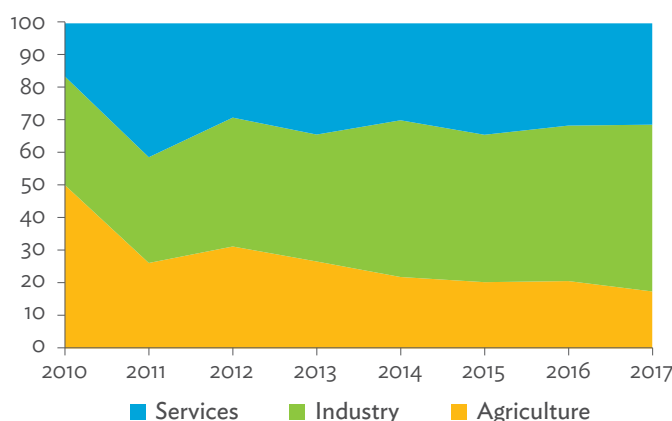
**Figure 5.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

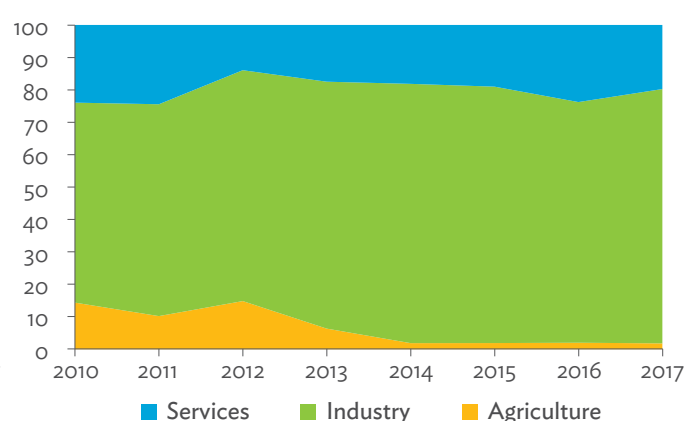
**Figure 5.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

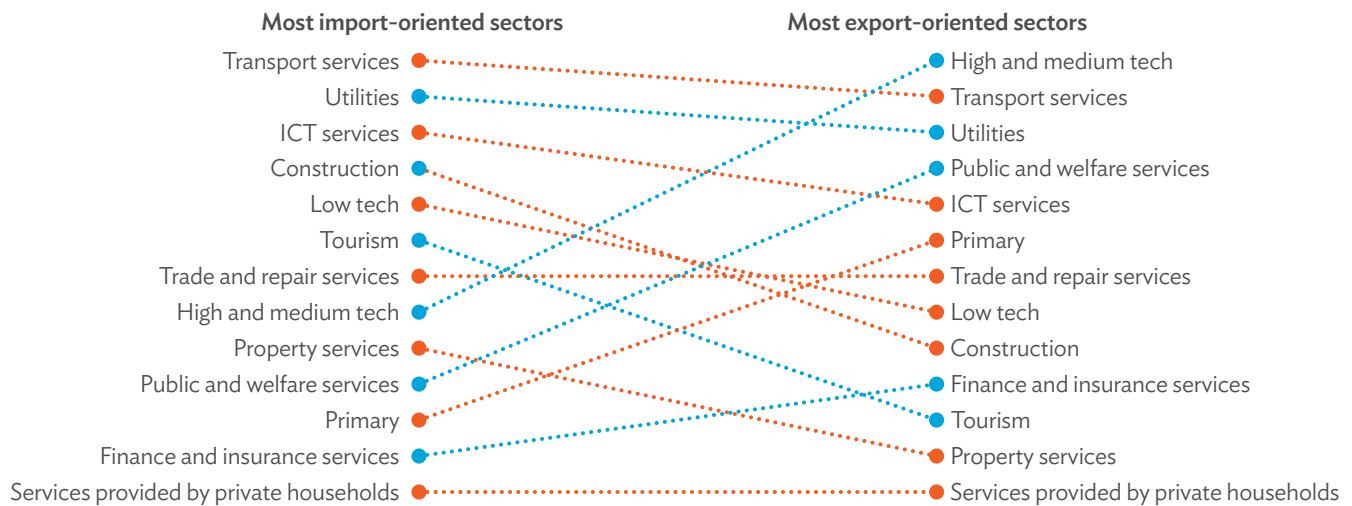
**Figure 5.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

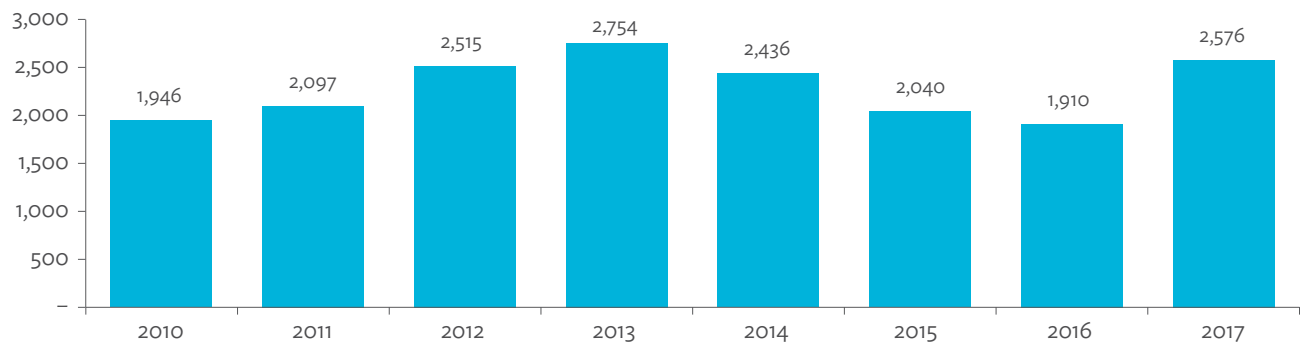
**Figure 5.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

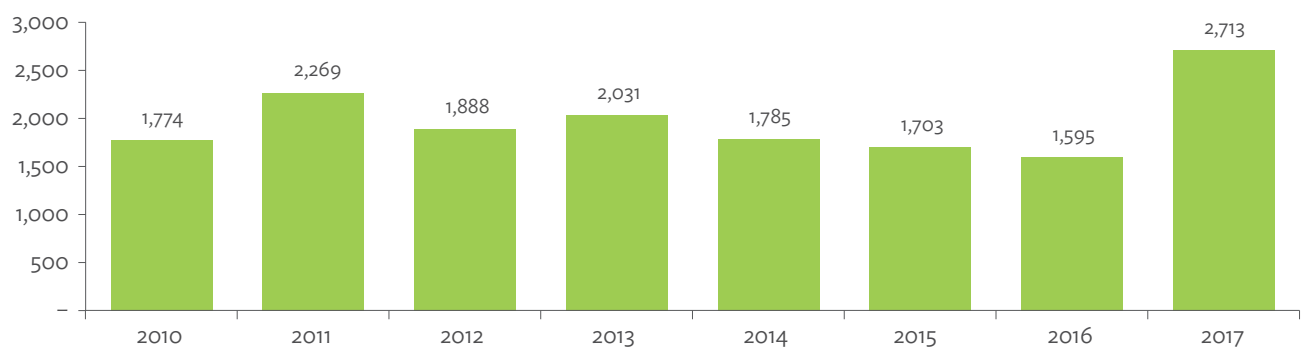
**Figure 5.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**



\$ = United States dollar.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

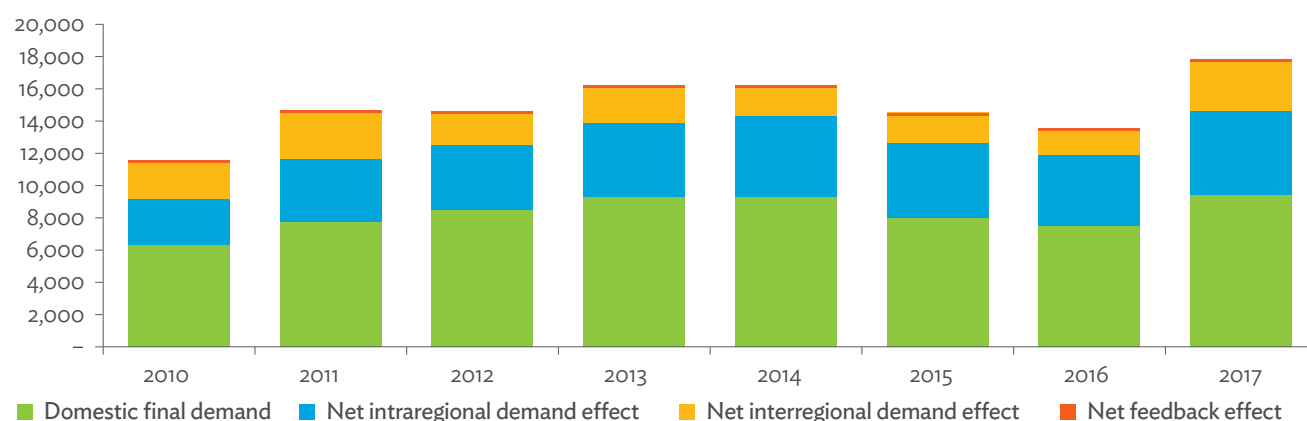
**Figure 5.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**



\$ = United States dollar.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

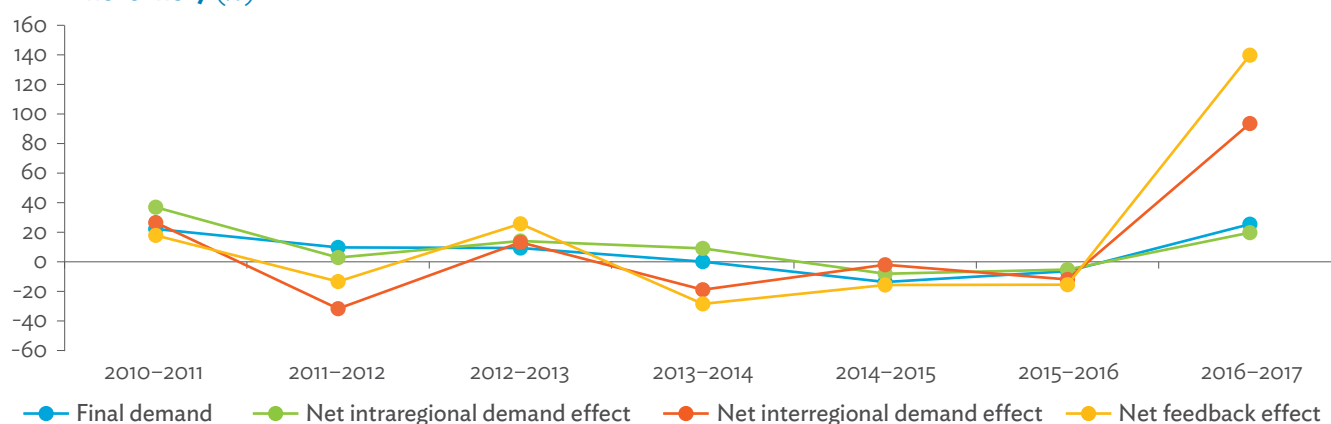


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

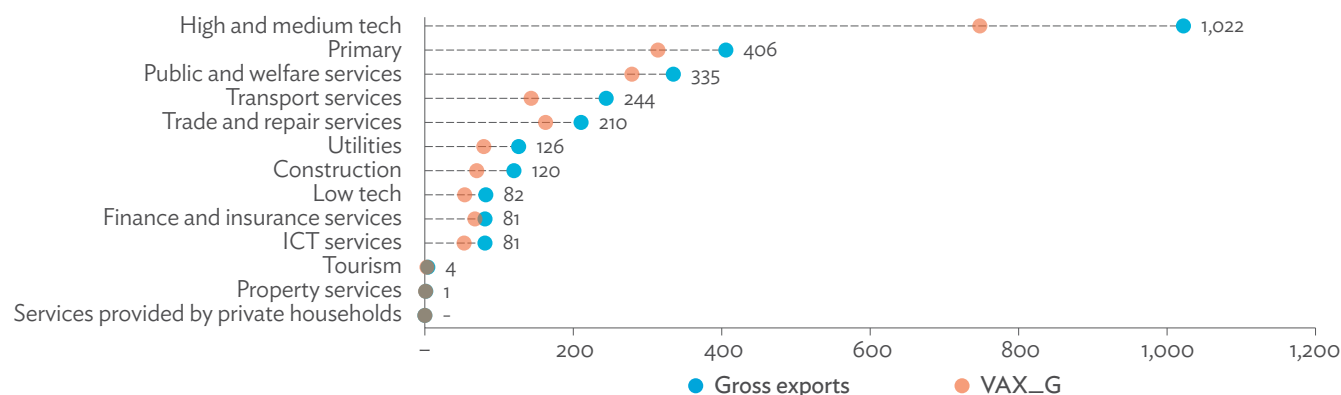
**Figure 5.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

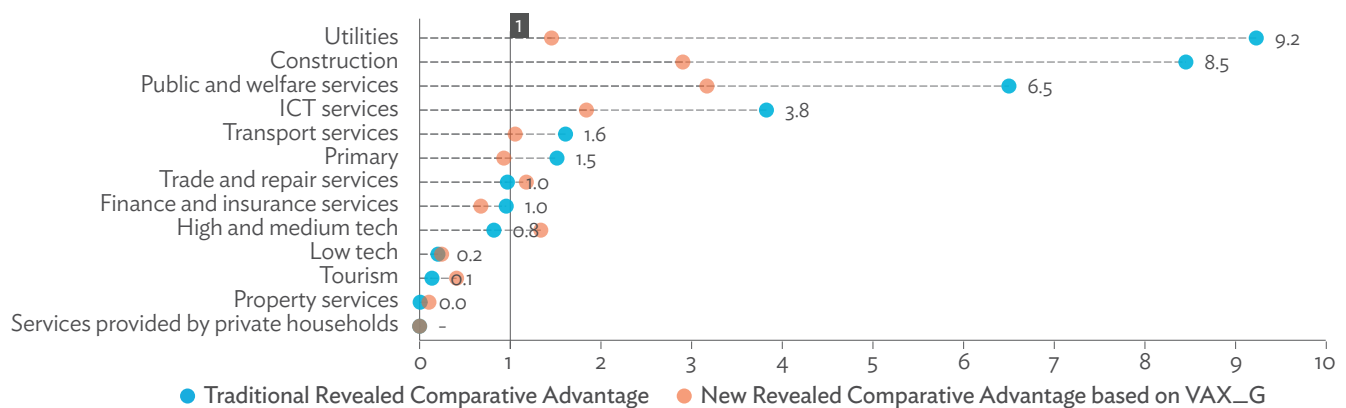


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 5.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	1,299	1,456	1,857	1,919	1,807	1,533	1,435	1,537
Low tech	1,427	1,640	1,996	2,274	2,358	2,047	1,916	2,420
High and medium tech	789	1,048	685	840	919	654	613	1,193
Business service	1,709	2,222	2,477	2,706	2,723	2,381	2,229	2,621
Personal service	1,120	1,387	1,494	1,563	1,505	1,424	1,334	1,672
Intraregional effects (M1)								
Primary	837	1,494	1,595	1,738	1,765	1,478	1,395	1,436
Low tech	442	531	495	580	641	717	673	766
High and medium tech	516	694	645	655	761	604	593	556
Business service	1,044	1,148	1,230	1,552	1,772	1,718	1,619	2,382
Personal service	19	46	61	70	72	90	84	85

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	912	699	677	562	358	345	300	461
Low tech	112	172	145	196	175	186	164	275
High and medium tech	1,009	1,399	548	866	760	665	562	1,118
Business service	332	603	616	600	489	542	494	1,139
Personal service	35	164	87	123	122	129	123	188
Feedback effects (M3)								
Primary	0.04	0.03	0.04	0.03	0.02	0.01	0.01	0.02
Low tech	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
High and medium tech	0.04	0.05	0.03	0.06	0.04	0.03	0.03	0.07
Business service	0.01	0.03	0.03	0.03	0.02	0.02	0.02	0.05
Personal service	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 5.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.9571	1.2011	1.0295	1.1073	1.2213	1.2641	1.2641	1.2200
Mining and quarrying	0.2379	0.2704	0.3993	0.3905	0.3867	0.4486	0.4486	0.4088
Food, beverages, and tobacco	0.8600	0.9306	0.8046	0.8947	0.9619	1.0330	1.0330	1.0401
Textiles and textile products	0.7295	0.7496	0.7723	0.7310	0.7009	0.7711	0.7711	0.7133
Leather, leather products, and footwear	0.7295	0.7670	0.7502	0.7083	0.6792	0.7503	0.7503	0.6914
Wood and products of wood and cork	0.4236	0.5228	0.4295	0.1590	0.3099	0.2923	0.2923	0.2229
Pulp, paper, paper products, printing, and publishing	0.4236	0.5521	0.4417	0.4141	0.4085	0.4923	0.4923	0.4629
Coke, refined petroleum, and nuclear fuel	0.3709	0.4488	0.5702	0.5063	0.4844	0.5422	0.5422	0.4957
Chemicals and chemical products	0.3709	0.4505	0.5702	0.5064	0.4848	0.5423	0.5423	0.4957
Rubber and plastics	0.6591	0.6452	0.5934	0.5643	0.5263	0.6053	0.6053	0.5566
Other nonmetallic minerals	0.6591	0.6452	0.5934	0.5626	0.5241	0.6033	0.6033	0.5535
Basic metals and fabricated metal	0.8974	1.0276	0.6950	0.7415	0.8016	0.8783	0.8783	0.7936
Machinery, nec	0.4848	0.5446	0.3924	0.3815	0.3972	0.4497	0.4497	0.3917
Electrical and optical equipment	0.4848	0.5446	0.3924	0.3813	0.3972	0.4497	0.4497	0.3883
Transport equipment	0.4848	0.5446	0.3924	0.3815	0.3972	0.4497	0.4497	0.3875
Manufacturing, nec; recycling	0.5505	0.6264	0.4235	0.3609	0.3483	0.4312	0.4312	0.3706
Electricity, gas, and water supply	0.3396	0.3217	0.3680	0.3371	0.3153	0.3931	0.3931	0.3466
Construction	0.5690	0.6020	0.5810	0.5731	0.5655	0.6728	0.6728	0.5781
Sale, maintenance, and repair	0.3788	0.3637	0.1905	0.1734	0.1583	0.1984	0.1984	0.1882
Wholesale trade and commission trade	0.3788	0.4132	0.2619	0.2598	0.2497	0.2961	0.2961	0.2952
Retail trade	0.3788	0.3879	0.2444	0.2578	0.2581	0.3171	0.3171	0.2690
Hotels and restaurants	0.7230	0.7443	0.6780	0.6464	0.6133	0.6826	0.6826	0.6765
Inland transport	0.2626	0.3118	0.2949	0.1771	0.2686	0.3609	0.3609	0.3290
Water transport	0.2626	0.3097	0.2949	0.1827	0.2769	0.3686	0.3686	0.3479
Air transport	0.2626	0.3097	0.2949	0.1826	0.2763	0.3686	0.3686	0.3348
Other supporting and auxiliary transport activities	0.2626	0.3138	0.2949	0.1830	0.2774	0.3691	0.3691	0.3356
Post and telecommunications	0.2626	0.3272	0.2424	0.2769	0.2099	0.2750	0.2750	0.2621
Financial intermediation	5.6680	5.1648	2.5960	2.9570	2.9593	3.7385	3.7385	4.5926
Real estate activities	0.3135	0.3533	0.3724	0.3793	0.3686	0.4110	0.4110	0.4121
Renting of M&Eq and other business activities	0.3135	0.3533	0.3724	0.3792	0.3686	0.4204	0.4204	0.4219
Public administration and defense; compulsory social security	0.4221	0.4227	0.3544	0.3414	0.3208	0.3608	0.3608	0.3702
Education	0.3268	0.2646	0.2428	0.2568	0.2668	0.2874	0.2874	0.2866
Health and social work	0.2968	0.2999	0.2742	0.2890	0.3056	0.3274	0.3274	0.3080
Other community, social, and personal services	0.4187	0.5150	0.4386	0.4422	0.4422	0.5029	0.5029	0.5575
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.5921	0.5008	0.6485	0.6509	0.5491	0.5233	0.5237	0.5727
Mining and quarrying	0.7832	0.6736	0.8389	0.8280	0.6942	0.6811	0.6731	0.7346
Food, beverages, and tobacco	1.0409	0.7829	0.7660	0.7990	0.7274	0.6990	0.6922	0.7537
Textiles and textile products	1.3859	1.0796	0.9088	0.9461	0.8629	0.8301	0.8231	0.8984
Leather, leather products, and footwear	1.3853	0.9829	0.9260	0.9676	0.8833	0.8498	0.8428	0.9202
Wood and products of wood and cork	1.0288	1.3687	1.5039	1.5591	1.6066	1.0420	1.0350	1.1359
Pulp, paper, paper products, printing, and publishing	1.0320	0.9870	1.0693	1.1501	1.0838	1.0255	1.0187	1.1330
Coke, refined petroleum, and nuclear fuel	1.5656	1.4168	1.0722	1.0514	0.9480	0.8820	0.8713	0.9464
Chemicals and chemical products	1.5645	1.4169	1.0725	1.0533	0.9486	0.8822	0.8729	0.9486
Rubber and plastics	1.0255	0.9639	0.8117	0.9032	0.8659	0.8388	0.8196	0.9180
Other nonmetallic minerals	1.0254	0.9636	0.8114	0.9075	0.8743	0.8468	0.8282	0.9273
Basic metals and fabricated metal	0.6044	0.5970	0.9949	0.9027	0.7164	0.6888	0.6898	0.7627
Machinery, nec	0.9687	0.9612	0.9916	1.0235	0.9371	0.8627	0.8524	0.9576
Electrical and optical equipment	0.9666	0.9621	0.9899	1.0239	0.9354	0.8594	0.8485	0.9463
Transport equipment	0.9693	0.9614	0.9922	1.0225	0.9368	0.8605	0.8437	0.9462
Manufacturing, nec; recycling	0.9246	0.9724	1.1462	1.2102	1.1304	1.0740	1.0699	1.1731
Electricity, gas, and water supply	0.9225	0.7977	1.0238	1.0552	0.9389	0.9368	0.9288	0.9984
Construction	1.1007	1.0883	1.0938	1.1476	1.0549	1.0572	1.0480	1.1335
Sale, maintenance, and repair	0.5383	0.6721	0.6627	0.5572	0.4422	0.4356	0.4327	0.4028
Wholesale trade and commission trade	0.5380	0.5596	0.5292	0.5516	0.4983	0.4852	0.4796	0.5190
Retail trade	0.5379	0.5598	0.5462	0.6347	0.6258	0.6208	0.6172	0.6326
Hotels and restaurants	0.8268	0.7243	0.7254	0.7800	0.7397	0.7112	0.7038	0.7529
Inland transport	1.0611	1.0865	1.1525	1.1397	1.0957	1.0910	1.0865	1.1432
Water transport	1.0378	1.0632	1.1460	1.1191	1.0724	1.0653	1.0607	1.1466
Air transport	1.0534	1.0640	1.1410	1.1184	1.0603	1.0513	1.0437	1.0832
Other supporting and auxiliary transport activities	1.0613	1.0852	1.1525	1.1311	1.0807	1.0763	1.0719	1.1185
Post and telecommunications	1.0626	0.8444	0.9168	1.0000	0.8896	0.8549	0.8497	0.9677
Financial intermediation	0.4297	0.4555	0.4309	0.4352	0.2346	0.2642	0.2616	0.3177
Real estate activities	0.5237	0.5624	0.4746	0.5052	0.4669	0.4460	0.4379	0.4791
Renting of M&Eq and other business activities	0.5217	0.5607	0.4736	0.5046	0.4673	0.4560	0.4464	0.4859
Public administration and defense; compulsory social security	0.4957	0.5173	0.4751	0.4712	0.4055	0.3914	0.3850	0.4369
Education	0.3860	0.2701	0.2749	0.2922	0.2670	0.2586	0.2566	0.2771
Health and social work	0.5214	0.3770	0.3805	0.3800	0.3302	0.3100	0.3040	0.3341
Other community, social, and personal services	0.7376	0.6797	0.6316	0.7023	0.6773	0.6471	0.6375	0.6910
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.3.5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	718	499	492	369	564	388	456	328	325	254	302	240	283	225	406	314
Low tech	71	36	72	45	61	39	58	37	52	34	44	30	41	28	82	54
High and medium tech	654	496	834	644	472	309	578	396	646	482	548	415	513	389	1,022	748
Utilities	39	25	60	41	17	10	55	33	89	57	92	60	86	56	126	79
Construction	17	10	32	19	107	63	193	111	76	47	82	50	77	47	120	70
Trade and repair services	133	103	124	97	144	114	150	115	149	115	150	117	141	110	210	163
Tourism	0	0	0	0	0	0	2	1	3	2	3	2	3	2	4	3
Transport services	47	28	353	209	82	47	115	66	133	79	172	104	161	97	244	143
ICT services	37	22	14	10	147	97	112	71	77	52	63	43	59	41	81	53
Finance and insurance services	0	0	2	1	14	11	15	12	15	13	14	12	13	11	81	67
Property services	1	0	2	1	130	106	73	59	2	1	1	1	1	1	1	1
Public and welfare services	59	46	284	225	149	121	223	183	219	185	231	197	217	184	335	279
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 5.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	3.722	2.303	1.782	1.166	2.456	1.464	1.948	1.161	1.676	0.993	1.833	1.051	1.879	1.084	1.515	0.929
Low tech	0.279	0.216	0.224	0.263	0.229	0.271	0.195	0.237	0.195	0.221	0.172	0.210	0.173	0.209	0.202	0.243
High and medium tech	0.787	1.336	0.787	1.393	0.539	0.924	0.619	1.104	0.786	1.371	0.694	1.238	0.702	1.244	0.819	1.336
Utilities	4.877	0.961	5.885	1.202	1.953	0.486	5.832	0.942	10.661	1.569	11.147	1.625	8.952	1.616	9.228	1.455
Construction	2.418	0.711	3.663	1.345	13.917	3.629	17.654	5.496	8.328	2.751	9.095	3.167	7.896	3.017	8.452	2.903
Trade and repair services	0.957	1.080	0.707	0.913	0.959	1.236	0.944	1.165	1.062	1.172	1.101	1.225	1.094	1.224	0.968	1.177
Tourism	0.001	0.162	0.013	0.295	0.015	0.155	0.085	0.298	0.161	0.415	0.172	0.474	0.151	0.442	0.136	0.408
Transport services	0.441	0.427	2.793	1.654	0.768	0.516	1.022	0.768	1.335	0.861	1.782	1.084	1.806	1.097	1.609	1.054
ICT services	3.087	1.444	0.972	1.101	11.246	5.631	8.043	3.956	6.206	3.246	5.228	2.776	4.986	2.592	3.825	1.840
Finance and insurance services	0.002	0.025	0.027	0.055	0.257	0.196	0.247	0.172	0.267	0.204	0.258	0.192	0.250	0.192	0.955	0.676
Property services	0.004	0.083	0.012	0.078	1.082	0.567	0.533	0.328	0.014	0.094	0.009	0.127	0.010	0.126	0.006	0.103
Public and welfare services	1.767	0.791	7.183	3.080	4.395	2.243	5.732	3.044	6.457	3.223	6.814	3.400	6.410	3.284	6.500	3.169
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

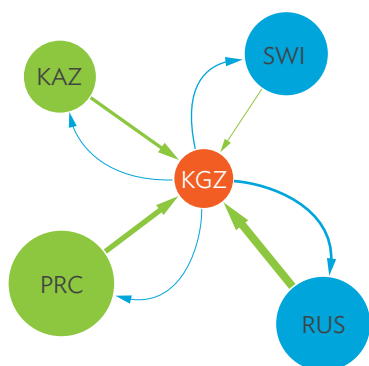
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 5.4

## GLOBAL VALUE CHAIN INDICATORS

### Kyrgyz Republic

**Figure 5.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

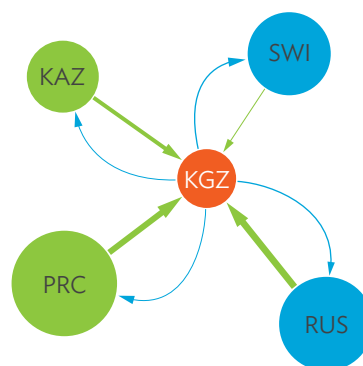
KAZ = Kazakhstan, KGZ = Kyrgyz Republic, PRC = People's Republic of China, SWI = Switzerland, RUS = Russian Federation.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

KAZ = Kazakhstan, KGZ = Kyrgyz Republic, PRC = People's Republic of China, SWI = Switzerland, RUS = Russian Federation.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

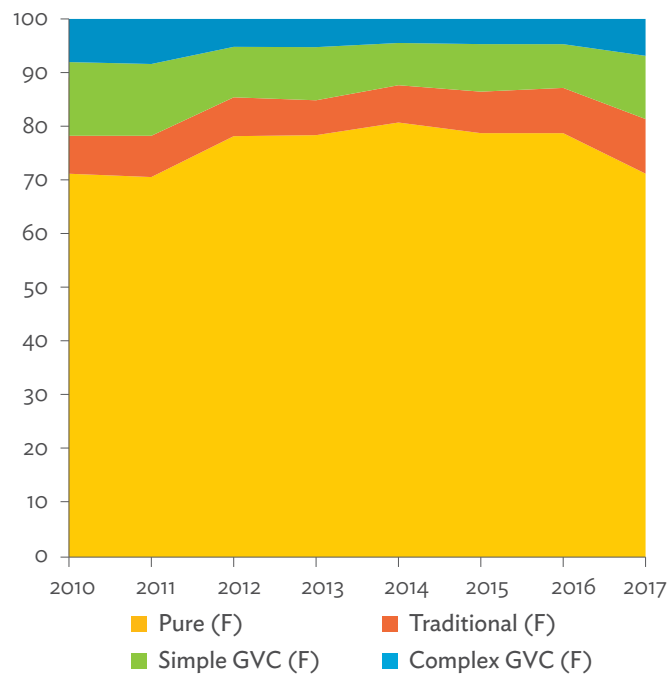
[Click here for figure data](#)

**Figure 5.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

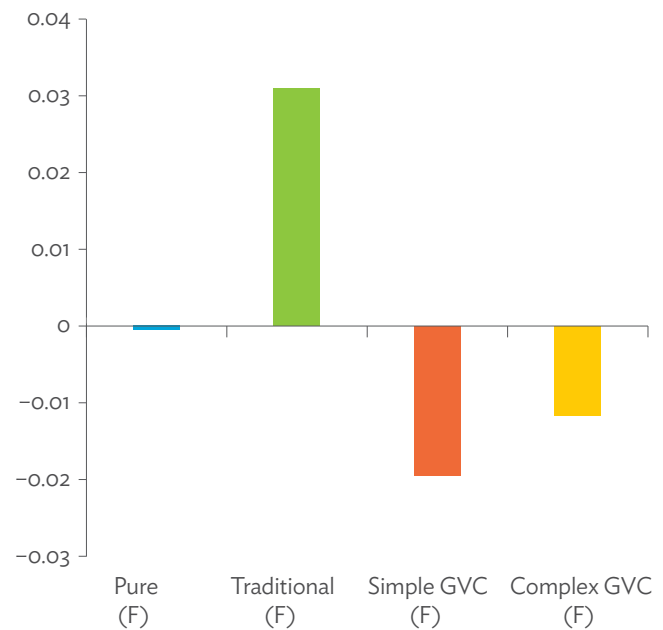
[Click here for figure data](#)

**Figure 5.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

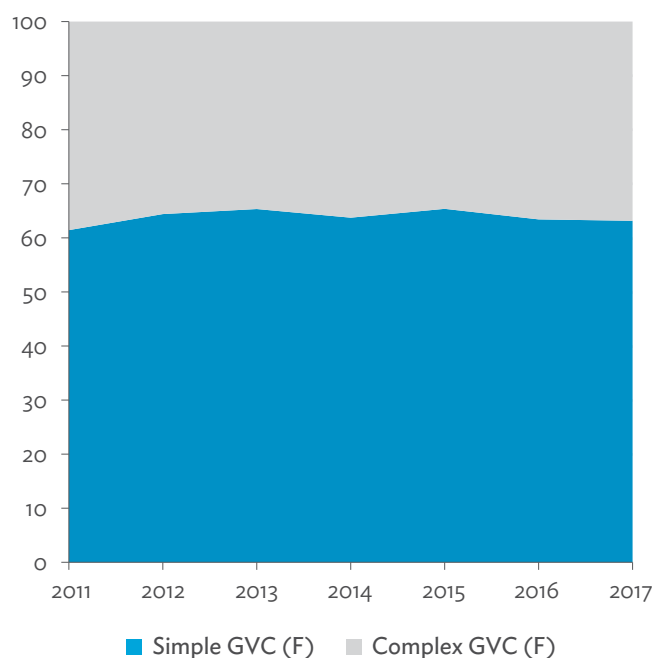
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

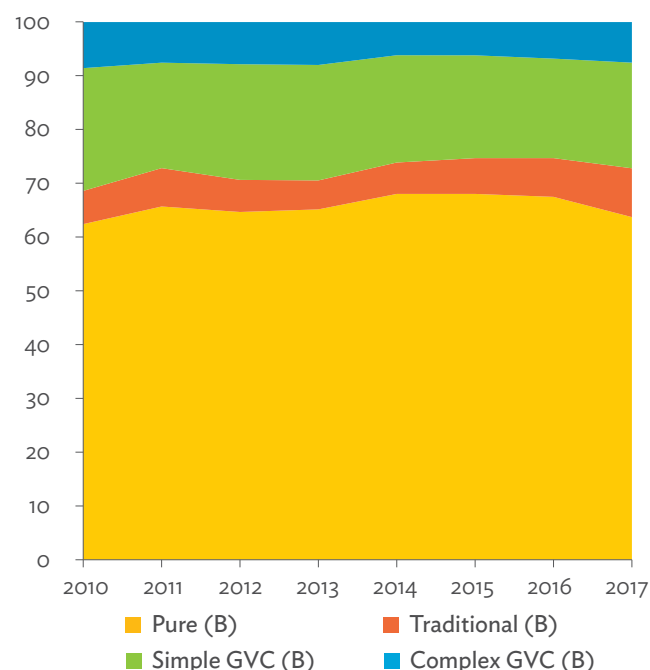


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

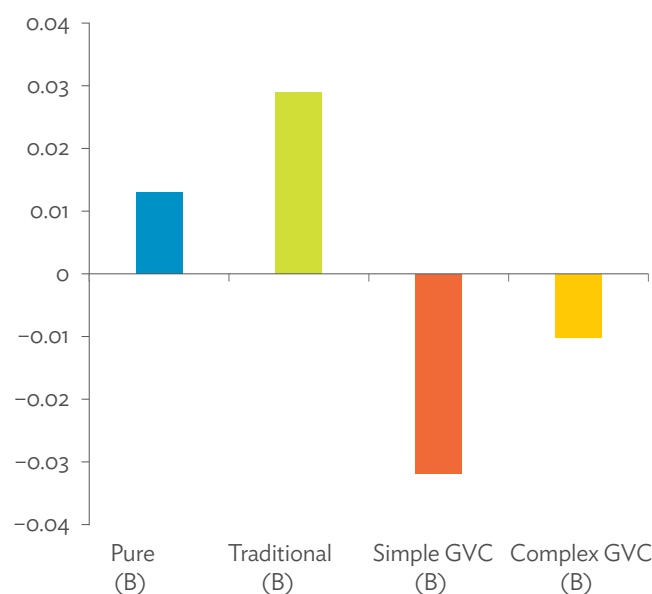


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



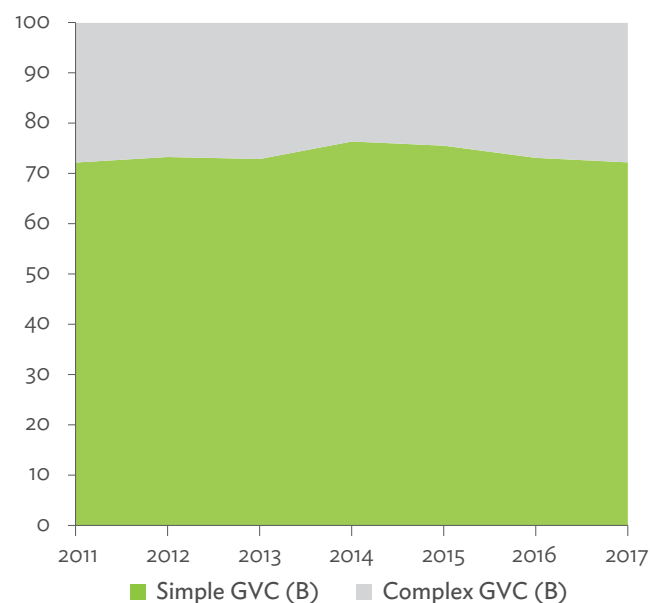
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

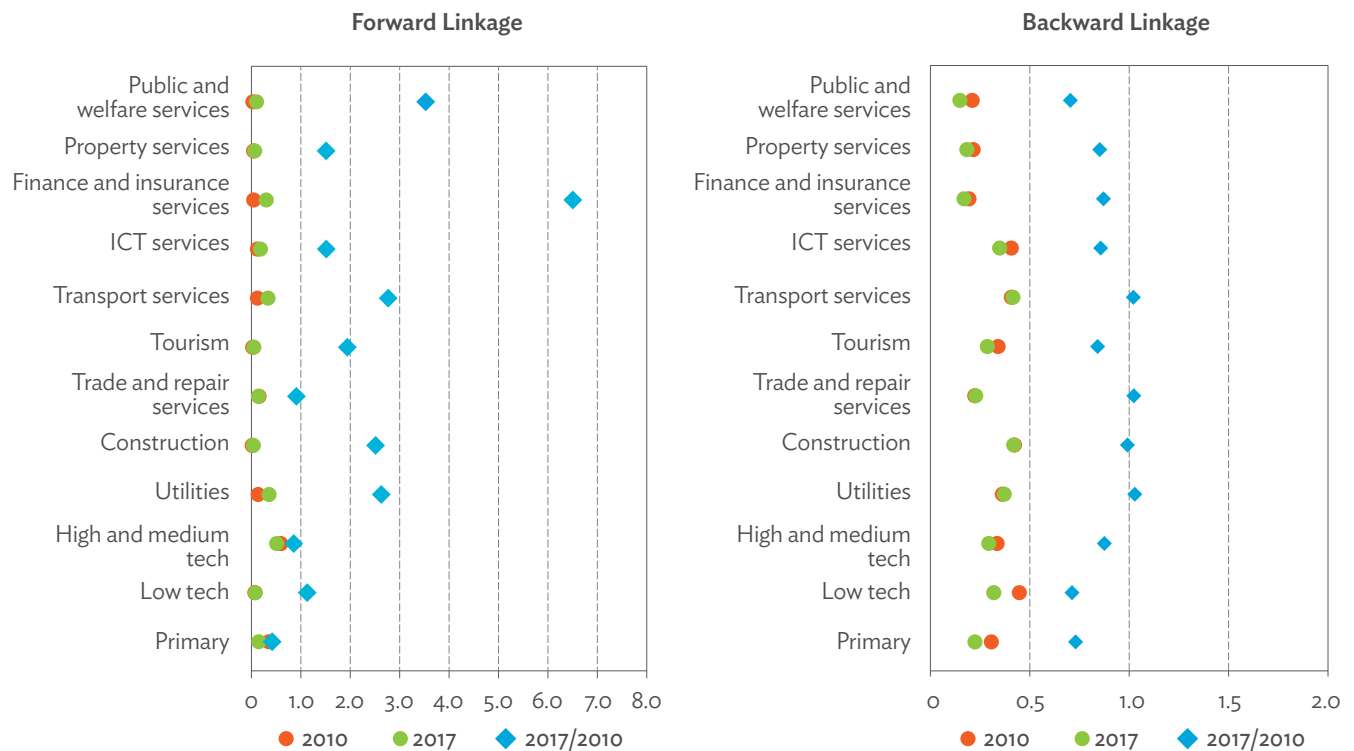


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 5.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

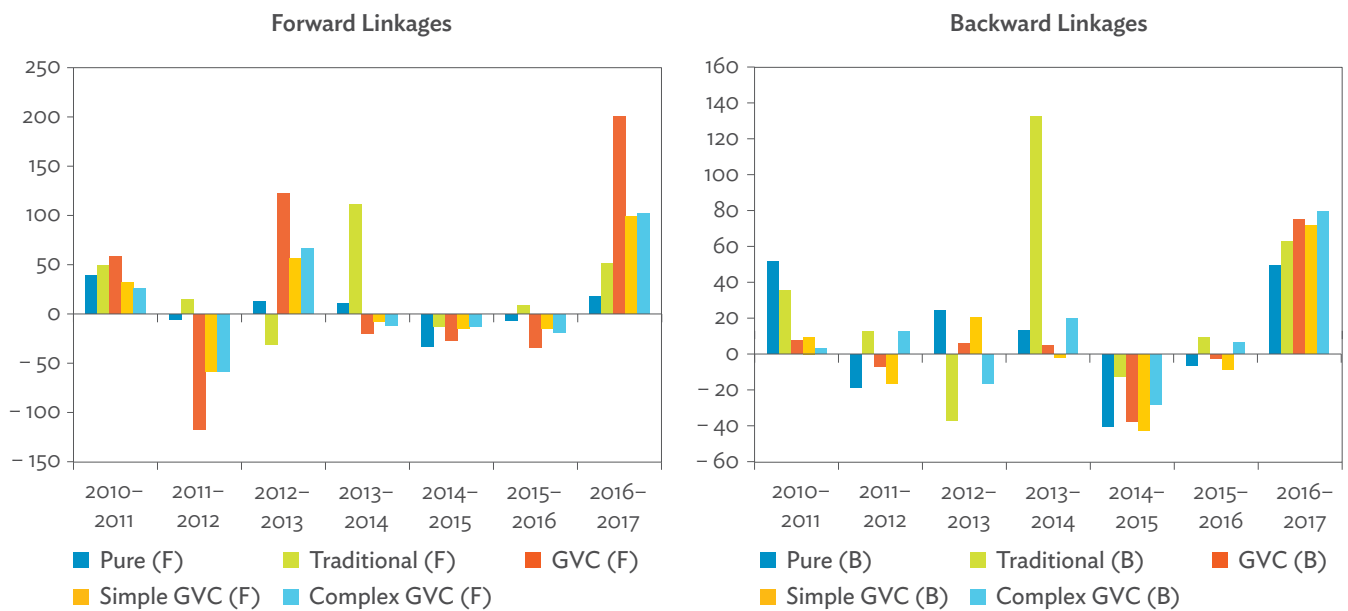


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 5.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

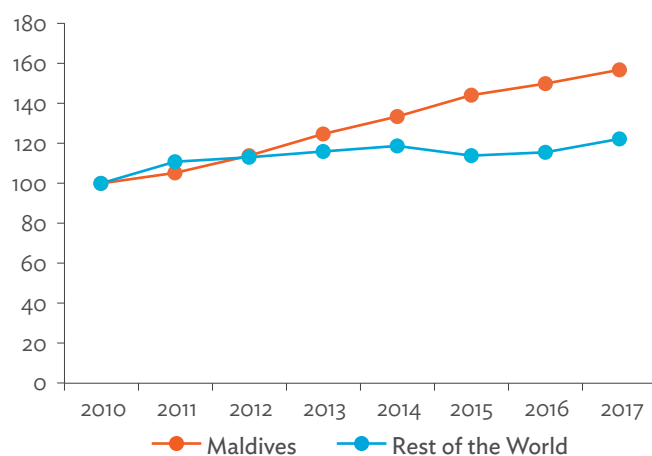


# 6.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Maldives

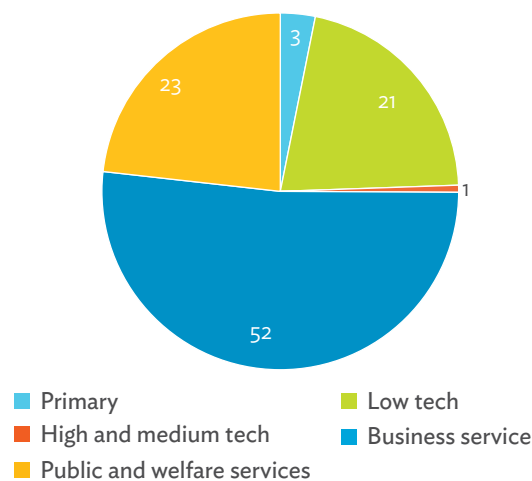
**Figure 6.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

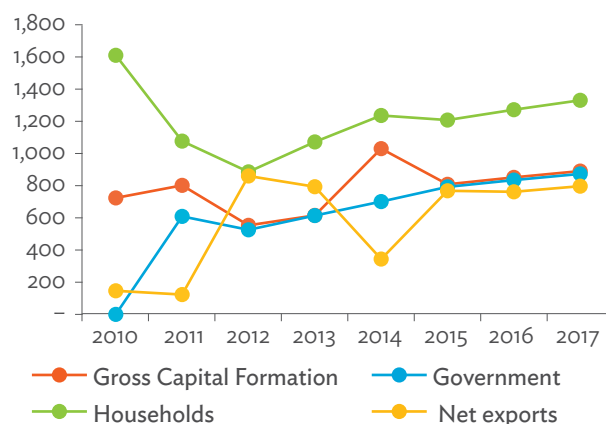
**Figure 6.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

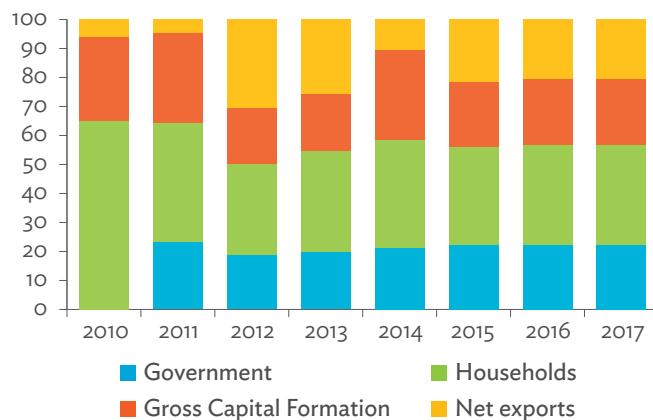


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

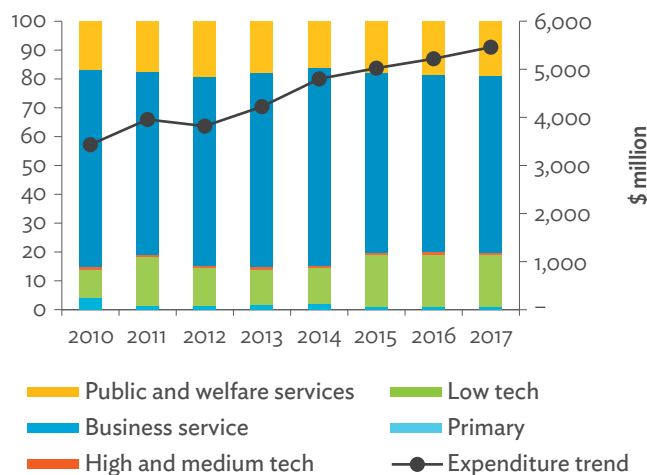
**Figure 6.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

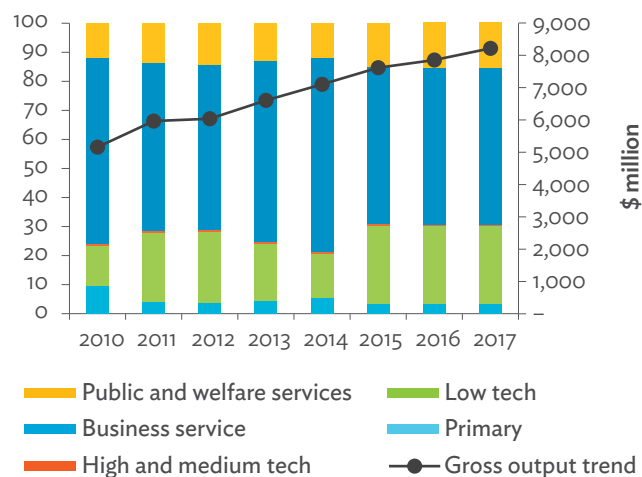


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

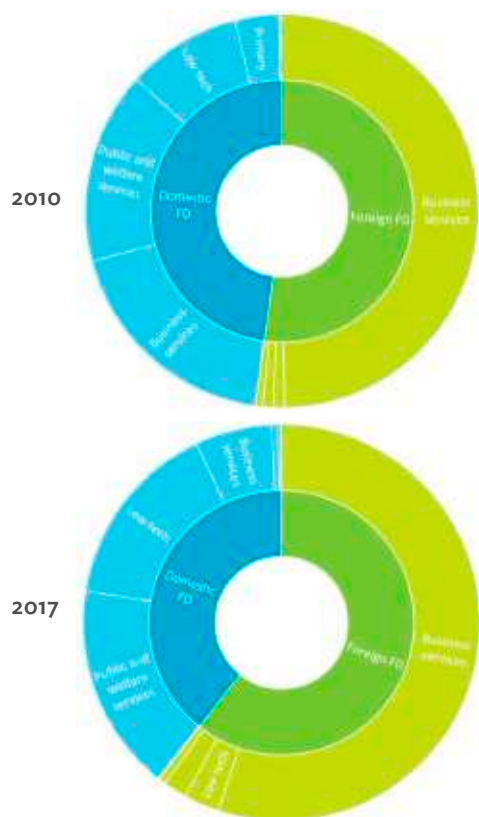


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

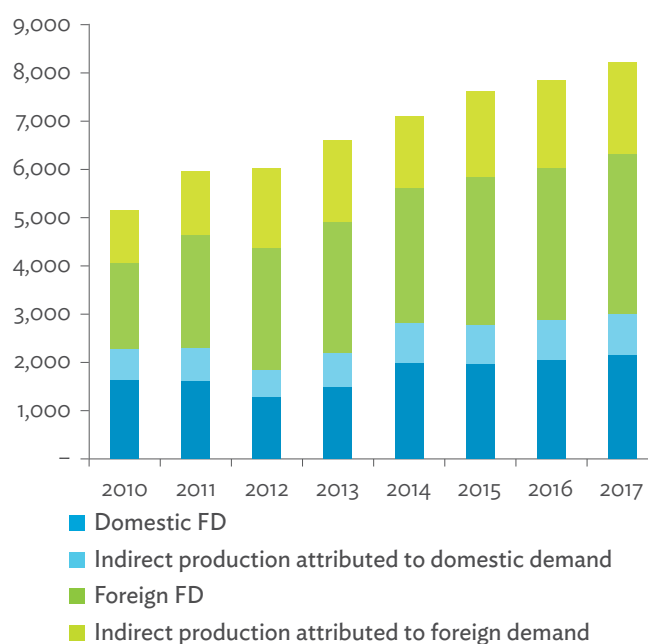


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

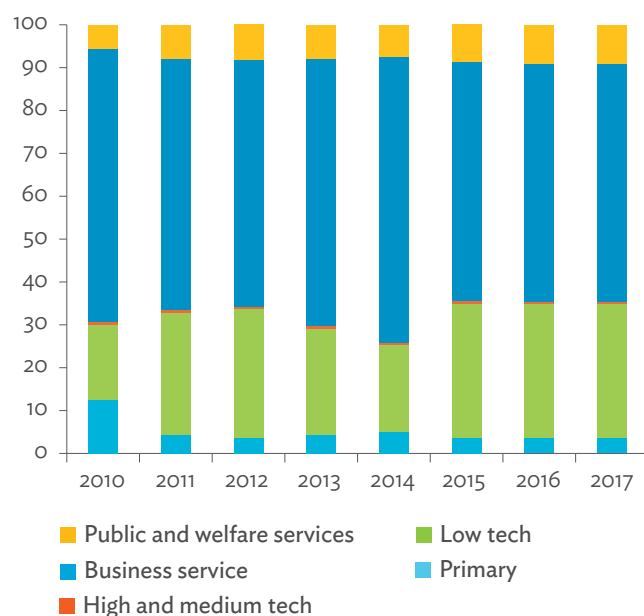


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

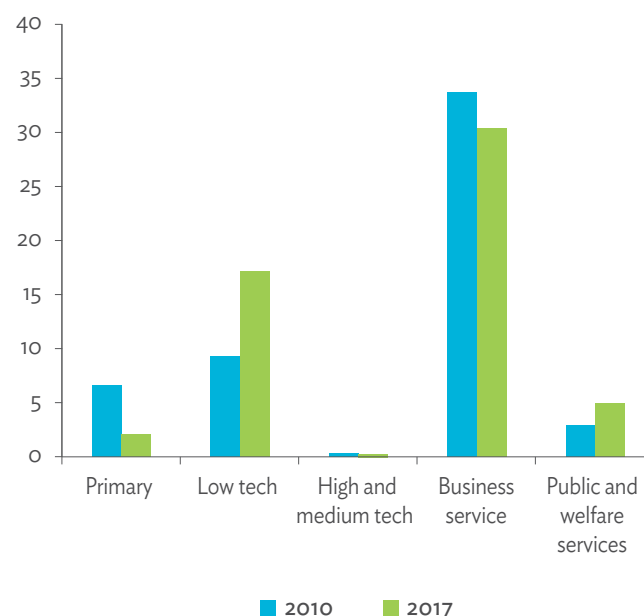
**Figure 6.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

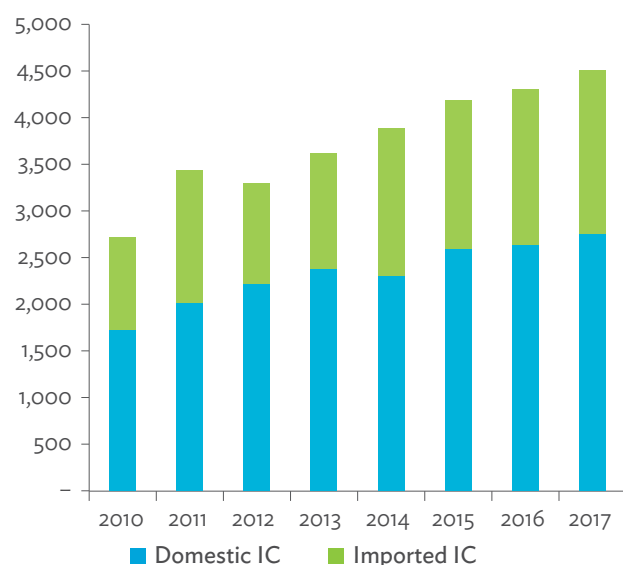
**Figure 6.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

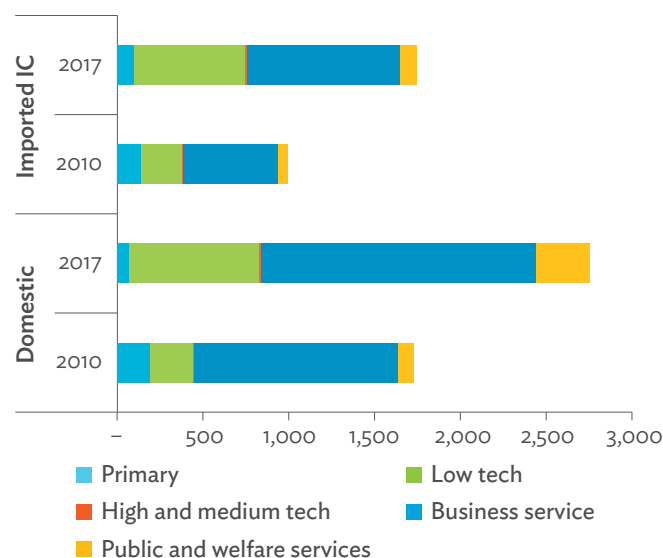


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

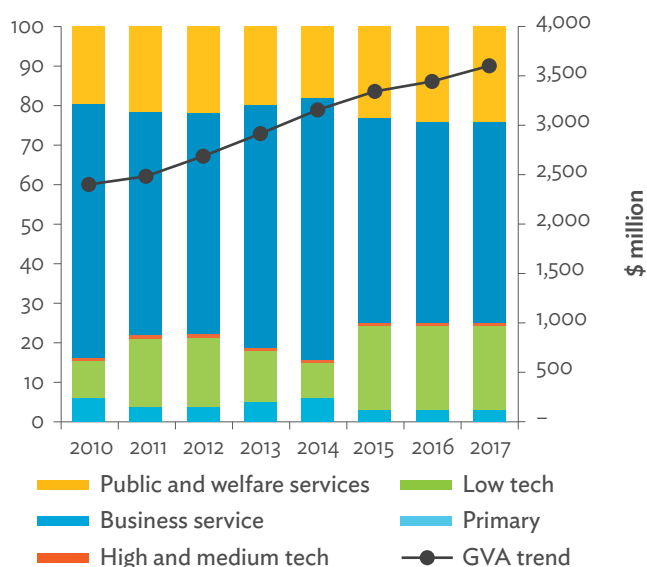


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

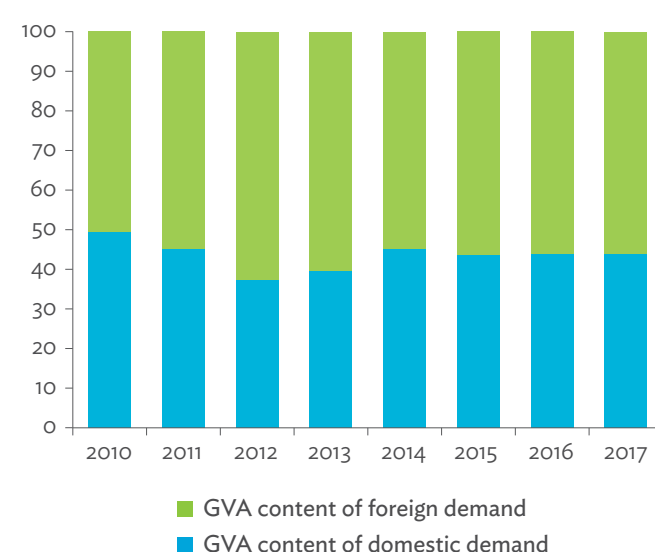


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

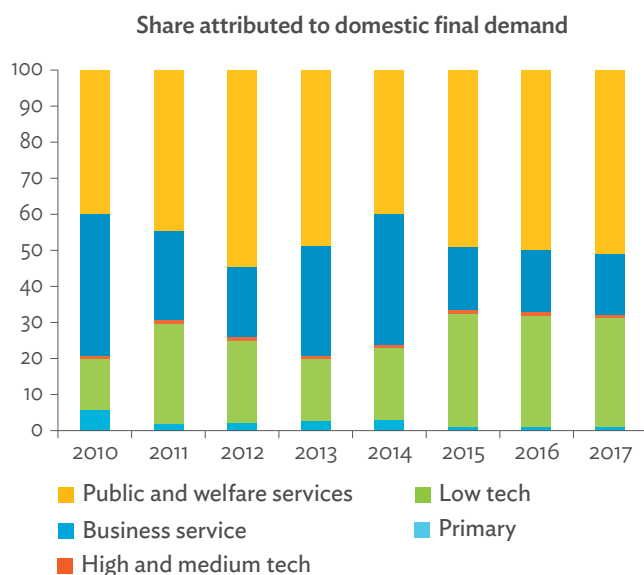


GVA = gross value added.

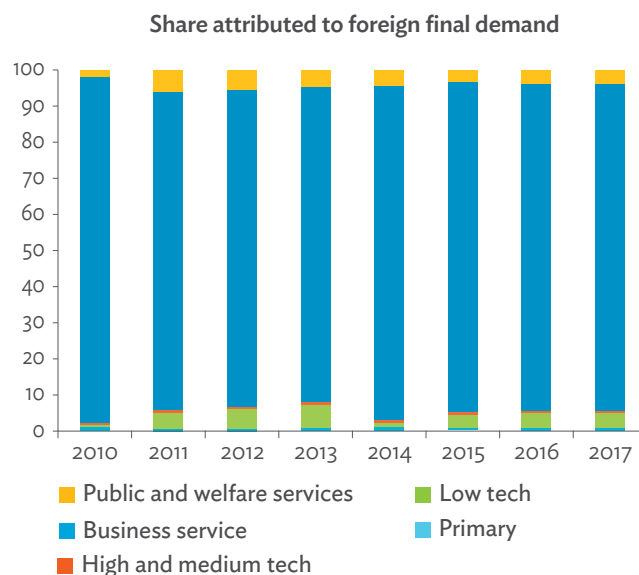
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.



[Click here for figure data](#)

**Table 6.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.539	0.487	0.557	0.623	0.632	0.575	0.567	0.566
Mining and quarrying	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Food, beverages, and tobacco	0.648	0.590	0.670	0.652	0.574	0.581	0.573	0.572
Textiles and textile products	0.741	0.763	0.815	0.780	0.713	0.761	0.750	0.749
Leather, leather products, and footwear	0.000	0.000	0.000	0.000	0.029	0.021	0.021	0.000
Wood and products of wood and cork	0.751	0.718	0.775	0.750	0.686	0.726	0.717	0.717
Pulp, paper, paper products, printing, and publishing	0.668	0.700	0.761	0.732	0.658	0.717	0.708	0.707
Coke, refined petroleum, and nuclear fuel	0.000	0.000	0.000	0.000	0.020	0.005	0.001	0.000
Chemicals and chemical products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rubber and plastics	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other nonmetallic minerals	0.614	0.662	0.733	0.672	0.569	0.678	0.660	0.660
Basic metals and fabricated metal	0.554	0.611	0.688	0.622	0.512	0.639	0.616	0.616
Machinery, nec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electrical and optical equipment	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000
Transport equipment	0.604	0.656	0.723	0.683	0.602	0.671	0.656	0.655
Manufacturing, nec; recycling	0.814	0.820	0.863	0.837	0.785	0.831	0.823	0.823
Electricity, gas, and water supply	0.457	0.284	0.351	0.416	0.401	0.381	0.371	0.370
Construction	0.547	0.579	0.673	0.617	0.511	0.600	0.595	0.594
Sale, maintenance, and repair	0.772	0.380	0.482	0.606	0.624	0.599	0.593	0.591
Wholesale trade and commission trade	0.772	0.802	0.856	0.874	0.868	0.881	0.882	0.880
Retail trade	0.772	0.692	0.764	0.804	0.799	0.826	0.829	0.825
Hotels and restaurants	0.716	0.557	0.640	0.630	0.603	0.607	0.597	0.596
Inland transport	0.486	0.566	0.657	0.665	0.641	0.656	0.646	0.644
Water transport	0.318	0.402	0.498	0.511	0.479	0.502	0.489	0.488
Air transport	0.569	0.513	0.608	0.619	0.591	0.609	0.599	0.599
Other supporting and auxiliary transport activities	0.611	0.666	0.740	0.741	0.723	0.735	0.726	0.726
Post and telecommunications	0.710	0.780	0.822	0.817	0.778	0.807	0.805	0.802
Financial intermediation	0.914	0.896	0.919	0.914	0.900	0.908	0.907	0.908
Real estate activities	0.870	0.839	0.875	0.874	0.864	0.860	0.857	0.857
Renting of M&Eq and other business activities	0.906	0.669	0.734	0.878	0.896	0.835	0.832	0.831
Public administration and defense; compulsory social security	0.920	0.863	0.897	0.877	0.842	0.870	0.869	0.870
Education	0.910	0.912	0.932	0.928	0.915	0.933	0.934	0.934
Health and social work	0.804	0.795	0.835	0.833	0.818	0.843	0.842	0.842
Other community, social, and personal services	0.700	0.486	0.575	0.699	0.732	0.651	0.646	0.644
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.451	0.505	0.433	0.368	0.362	0.412	0.418	0.419
Mining and quarrying	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Food, beverages, and tobacco	0.354	0.410	0.329	0.347	0.427	0.417	0.425	0.427
Textiles and textile products	0.256	0.227	0.175	0.203	0.269	0.224	0.232	0.232
Leather, leather products, and footwear	0.000	0.997	0.931	0.000	0.938	0.895	0.885	0.000
Wood and products of wood and cork	0.244	0.280	0.223	0.246	0.311	0.272	0.280	0.280
Pulp, paper, paper products, printing, and publishing	0.328	0.300	0.238	0.268	0.344	0.284	0.294	0.295
Coke, refined petroleum, and nuclear fuel	0.000	0.999	0.999	0.000	0.979	0.994	0.998	0.000
Chemicals and chemical products	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Rubber and plastics	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Other nonmetallic minerals	0.378	0.328	0.257	0.313	0.418	0.309	0.324	0.324
Basic metals and fabricated metal	0.415	0.372	0.293	0.351	0.463	0.337	0.354	0.354
Machinery, nec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Electrical and optical equipment	0.000	0.000	0.000	0.000	0.682	0.000	0.000	0.000
Transport equipment	0.385	0.325	0.257	0.287	0.368	0.303	0.312	0.313
Manufacturing, nec; recycling	0.184	0.178	0.135	0.160	0.213	0.167	0.174	0.175
Electricity, gas, and water supply	0.534	0.718	0.650	0.585	0.599	0.621	0.632	0.632
Construction	0.437	0.410	0.314	0.364	0.471	0.387	0.391	0.391
Sale, maintenance, and repair	0.227	0.622	0.519	0.394	0.375	0.404	0.411	0.412
Wholesale trade and commission trade	0.227	0.227	0.172	0.143	0.142	0.160	0.163	0.164
Retail trade	0.227	0.339	0.269	0.217	0.213	0.220	0.222	0.226
Hotels and restaurants	0.268	0.421	0.335	0.341	0.375	0.360	0.365	0.366
Inland transport	0.505	0.428	0.337	0.328	0.354	0.336	0.344	0.346
Water transport	0.676	0.579	0.479	0.464	0.501	0.468	0.477	0.478
Air transport	0.420	0.478	0.382	0.370	0.401	0.380	0.387	0.388
Other supporting and auxiliary transport activities	0.384	0.328	0.254	0.252	0.272	0.256	0.264	0.264
Post and telecommunications	0.290	0.224	0.182	0.189	0.228	0.201	0.204	0.207
Financial intermediation	0.089	0.110	0.087	0.094	0.107	0.102	0.104	0.103
Real estate activities	0.125	0.153	0.116	0.116	0.129	0.127	0.129	0.129
Renting of M&Eq and other business activities	0.093	0.337	0.272	0.125	0.105	0.175	0.179	0.180
Public administration and defense; compulsory social security	0.080	0.143	0.109	0.132	0.168	0.139	0.141	0.140
Education	0.093	0.100	0.080	0.088	0.098	0.086	0.087	0.087
Health and social work	0.198	0.214	0.174	0.177	0.190	0.170	0.172	0.173
Other community, social, and personal services	0.292	0.475	0.382	0.270	0.249	0.291	0.291	0.292
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.631	1.208	1.241	1.309	1.270	1.383	1.374	1.374
Mining and quarrying	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Food, beverages, and tobacco	1.357	2.159	2.260	2.130	1.807	1.866	1.859	1.859
Textiles and textile products	1.502	1.444	1.478	1.482	1.421	1.373	1.377	1.376
Leather, leather products, and footwear	1.000	1.000	1.000	1.000	1.086	1.063	1.065	1.000
Wood and products of wood and cork	1.573	1.535	1.577	1.585	1.512	1.486	1.487	1.487
Pulp, paper, paper products, printing, and publishing	1.509	1.526	1.576	1.593	1.520	1.473	1.476	1.475
Coke, refined petroleum, and nuclear fuel	1.000	1.000	1.000	1.000	1.041	1.011	1.001	1.000
Chemicals and chemical products	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Rubber and plastics	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Other nonmetallic minerals	1.333	1.302	1.340	1.348	1.270	1.243	1.244	1.244
Basic metals and fabricated metal	1.301	1.239	1.275	1.282	1.208	1.198	1.198	1.198
Machinery, nec	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Electrical and optical equipment	1.000	1.000	1.000	1.000	1.030	1.000	1.000	1.000
Transport equipment	1.454	1.428	1.475	1.473	1.396	1.376	1.375	1.375
Manufacturing, nec; recycling	1.321	1.272	1.297	1.308	1.268	1.236	1.238	1.239
Electricity, gas, and water supply	1.431	1.254	1.312	1.412	1.350	1.460	1.448	1.448
Construction	1.562	1.526	1.605	1.579	1.448	1.418	1.409	1.409
Sale, maintenance, and repair	1.653	1.636	1.762	1.916	1.904	2.022	2.017	2.017
Wholesale trade and commission trade	1.653	1.621	1.665	1.687	1.653	1.720	1.720	1.719
Retail trade	1.653	1.467	1.519	1.567	1.527	1.625	1.622	1.622
Hotels and restaurants	1.675	1.571	1.668	1.641	1.550	1.603	1.592	1.592
Inland transport	1.404	1.249	1.292	1.325	1.278	1.328	1.325	1.326
Water transport	1.264	1.279	1.349	1.405	1.345	1.400	1.391	1.391
Air transport	1.473	1.439	1.516	1.549	1.490	1.548	1.545	1.545
Other supporting and auxiliary transport activities	1.151	1.197	1.226	1.269	1.236	1.260	1.258	1.259
Post and telecommunications	1.349	1.572	1.602	1.609	1.532	1.546	1.541	1.544
Financial intermediation	1.222	1.235	1.246	1.262	1.235	1.243	1.241	1.241
Real estate activities	1.253	1.262	1.282	1.292	1.258	1.279	1.276	1.276
Renting of M&Eq and other business activities	1.253	1.191	1.212	1.270	1.251	1.462	1.462	1.462
Public administration and defense; compulsory social security	1.167	1.392	1.412	1.427	1.385	1.367	1.363	1.361
Education	1.155	1.201	1.210	1.232	1.206	1.210	1.209	1.208
Health and social work	1.217	1.257	1.277	1.313	1.283	1.291	1.287	1.286
Other community, social, and personal services	1.405	1.237	1.285	1.377	1.366	1.492	1.479	1.478
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

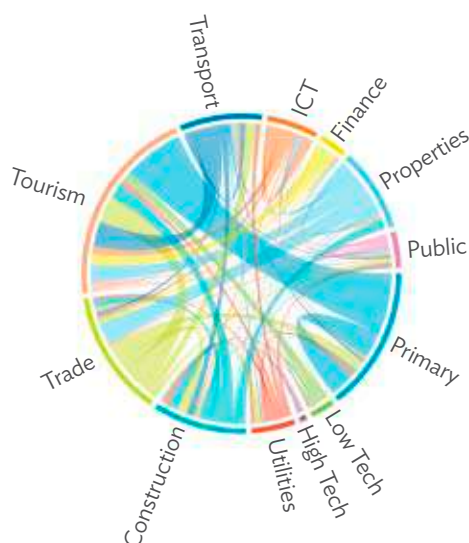
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 6.2

### Maldives

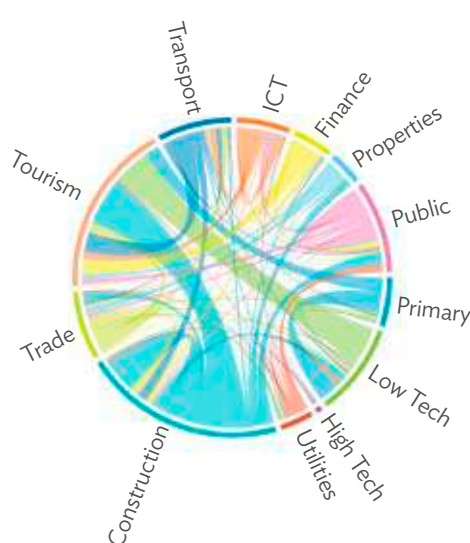
**Figure 6.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

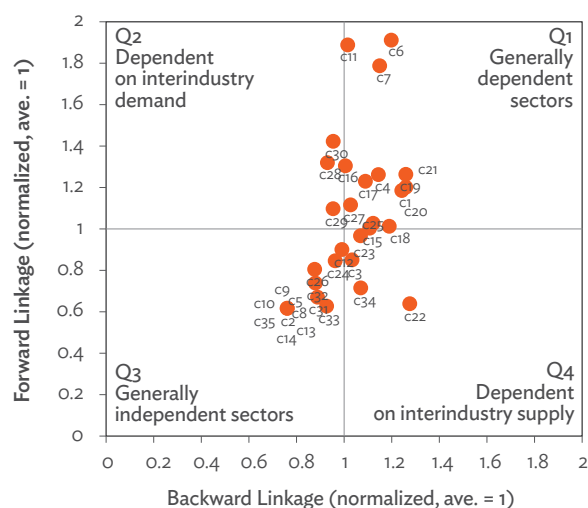
**Figure 6.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

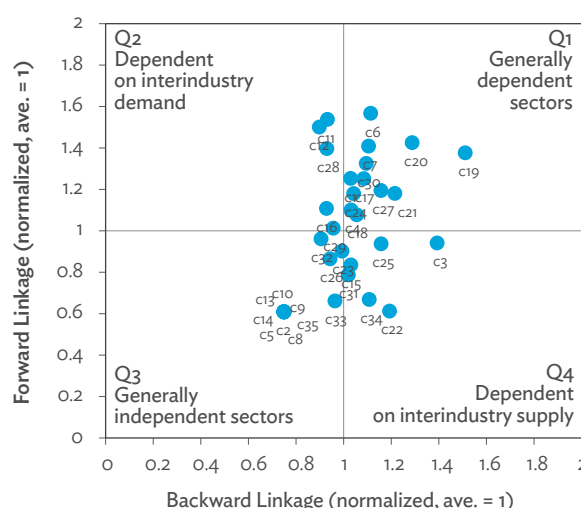
**Figure 6.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.2.2b: Backward and Forward Linkages by Industry, 2017**



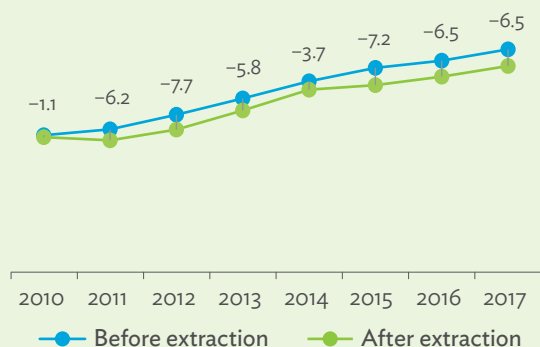
Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



### Box 6: Hypothetical Extraction of Food, Beverages, and Tobacco Industry in Maldives

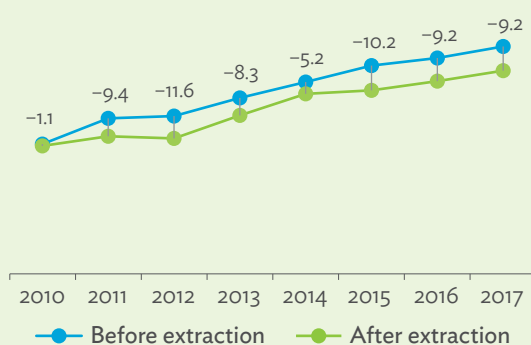
**Figure 6.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

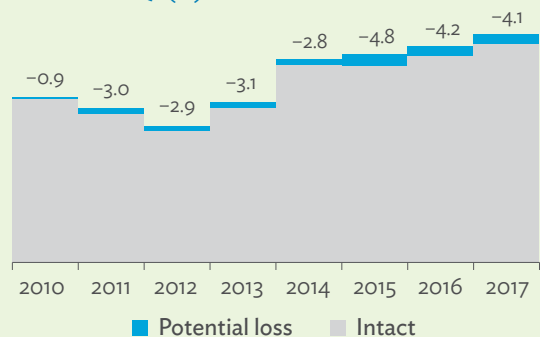
**Figure 6.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

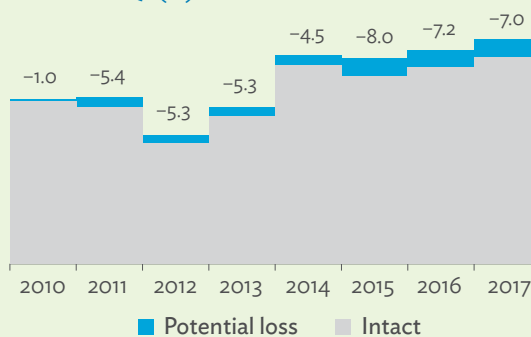
**Figure 6.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

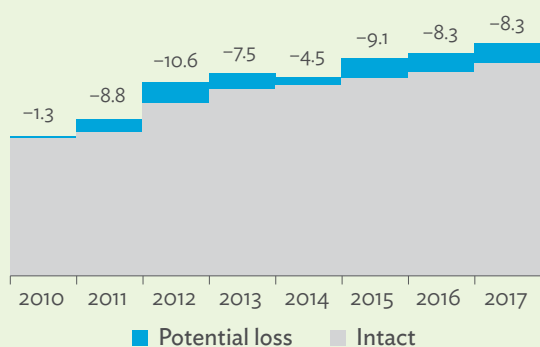
**Figure 6.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

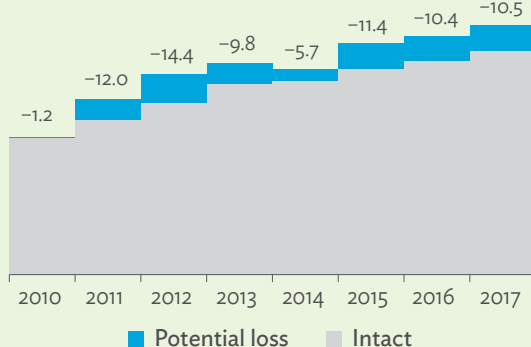
**Figure 6.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

Table 6.2.1: Input–Output Backward Linkage



Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.243	0.925	0.925	0.962	0.964	1.031	1.026	1.027
Mining and quarrying	0.762	0.766	0.745	0.735	0.759	0.745	0.747	0.748
Food, beverages, and tobacco	1.034	1.653	1.684	1.565	1.371	1.390	1.388	1.390
Textiles and textile products	1.145	1.106	1.102	1.089	1.078	1.023	1.028	1.029
Leather, leather products, and footwear	0.762	0.766	0.745	0.735	0.824	0.792	0.795	0.748
Wood and products of wood and cork	1.199	1.175	1.175	1.164	1.147	1.107	1.110	1.111
Pulp, paper, paper products, printing, and publishing	1.150	1.169	1.174	1.170	1.153	1.097	1.102	1.103
Coke, refined petroleum, and nuclear fuel	0.762	0.766	0.745	0.735	0.790	0.753	0.747	0.748
Chemicals and chemical products	0.762	0.766	0.745	0.735	0.759	0.745	0.747	0.748
Rubber and plastics	0.762	0.766	0.745	0.735	0.759	0.745	0.747	0.748
Other nonmetallic minerals	1.016	0.997	0.998	0.990	0.963	0.926	0.929	0.930
Basic metals and fabricated metal	0.992	0.949	0.950	0.942	0.917	0.893	0.895	0.896
Machinery, nec	0.762	0.766	0.745	0.735	0.759	0.745	0.747	0.748
Electrical and optical equipment	0.762	0.766	0.745	0.735	0.782	0.745	0.747	0.748
Transport equipment	1.108	1.094	1.100	1.082	1.059	1.025	1.027	1.028
Manufacturing, nec; recycling	1.006	0.974	0.966	0.961	0.962	0.921	0.925	0.926
Electricity, gas, and water supply	1.090	0.960	0.978	1.037	1.024	1.088	1.081	1.083
Construction	1.190	1.169	1.196	1.160	1.099	1.057	1.052	1.053
Sale, maintenance, and repair	1.260	1.253	1.314	1.408	1.445	1.507	1.506	1.508
Wholesale trade and commission trade	1.260	1.241	1.241	1.239	1.254	1.281	1.284	1.285
Retail trade	1.260	1.124	1.132	1.151	1.159	1.211	1.211	1.213
Hotels and restaurants	1.277	1.203	1.243	1.206	1.176	1.194	1.189	1.191
Inland transport	1.070	0.957	0.963	0.973	0.969	0.989	0.989	0.991
Water transport	0.964	0.980	1.006	1.032	1.020	1.043	1.039	1.040
Air transport	1.123	1.102	1.130	1.138	1.131	1.153	1.154	1.155
Other supporting and auxiliary transport activities	0.877	0.917	0.914	0.933	0.938	0.938	0.939	0.941
Post and telecommunications	1.028	1.204	1.194	1.182	1.163	1.152	1.151	1.155
Financial intermediation	0.931	0.946	0.929	0.927	0.937	0.926	0.927	0.928
Real estate activities	0.955	0.967	0.956	0.949	0.954	0.953	0.953	0.954
Renting of M&Eq and other business activities	0.955	0.912	0.904	0.933	0.949	1.089	1.091	1.093
Public administration and defense; compulsory social security	0.889	1.066	1.052	1.048	1.051	1.018	1.017	1.018
Education	0.881	0.920	0.902	0.905	0.915	0.902	0.903	0.903
Health and social work	0.928	0.963	0.952	0.964	0.973	0.961	0.961	0.962
Other community, social, and personal services	1.071	0.947	0.958	1.011	1.037	1.112	1.104	1.105
Private households with employed persons	0.762	0.766	0.745	0.735	0.759	0.745	0.747	0.748
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.185	1.247	1.291	1.253	1.228	1.264	1.250	1.255
Mining and quarrying	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
Food, beverages, and tobacco	0.851	1.146	1.160	1.126	1.003	0.940	0.939	0.943
Textiles and textile products	1.262	1.080	1.047	1.090	1.100	1.091	1.096	1.103
Leather, leather products, and footwear	0.617	1.955	0.918	0.593	0.774	0.756	0.759	0.610
Wood and products of wood and cork	1.911	1.340	1.460	1.509	1.440	1.549	1.566	1.570
Pulp, paper, paper products, printing, and publishing	1.788	1.213	1.227	1.336	1.393	1.395	1.410	1.411
Coke, refined petroleum, and nuclear fuel	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
Chemicals and chemical products	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
Rubber and plastics	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
Other nonmetallic minerals	1.888	1.419	1.607	1.594	1.428	1.524	1.534	1.540
Basic metals and fabricated metal	0.901	1.405	1.556	1.499	1.281	1.492	1.498	1.503
Machinery, nec	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
Electrical and optical equipment	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
Transport equipment	1.004	0.646	0.635	0.708	0.798	0.823	0.829	0.837
Manufacturing, nec; recycling	1.305	0.906	0.896	1.005	1.113	1.103	1.099	1.110
Electricity, gas, and water supply	1.230	1.256	1.269	1.276	1.276	1.247	1.246	1.254
Construction	1.013	0.911	1.051	1.024	0.916	1.061	1.075	1.079
Sale, maintenance, and repair	1.264	1.324	1.473	1.444	1.343	1.391	1.375	1.379
Wholesale trade and commission trade	1.201	1.487	1.522	1.333	1.233	1.423	1.423	1.428
Retail trade	1.267	1.121	1.170	1.094	1.068	1.169	1.174	1.183
Hotels and restaurants	0.639	0.631	0.582	0.616	0.663	0.605	0.614	0.613
Inland transport	0.967	1.001	1.032	1.017	1.000	0.922	0.901	0.903
Water transport	0.846	1.180	1.295	1.227	1.121	1.192	1.176	1.182
Air transport	1.027	1.011	1.039	1.034	1.021	0.954	0.936	0.939
Other supporting and auxiliary transport activities	0.805	1.050	1.101	1.094	1.056	0.921	0.863	0.866
Post and telecommunications	1.116	1.009	1.017	1.152	1.279	1.202	1.182	1.197
Financial intermediation	1.320	1.236	1.260	1.404	1.487	1.395	1.403	1.399
Real estate activities	1.098	0.961	0.986	1.119	1.190	0.999	1.001	1.014
Renting of M&Eq and other business activities	1.423	1.262	1.357	1.353	1.379	1.322	1.317	1.328
Public administration and defense; compulsory social security	0.671	0.642	0.623	0.669	0.718	0.811	0.827	0.789
Education	0.739	0.921	0.913	0.833	0.774	0.899	0.917	0.963
Health and social work	0.628	0.636	0.619	0.628	0.654	0.642	0.653	0.663
Other community, social, and personal services	0.715	0.914	0.942	0.816	0.783	0.698	0.668	0.670
Private households with employed persons	0.617	0.584	0.565	0.593	0.640	0.602	0.610	0.610
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 6.3

### Maldives

**Figure 6.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

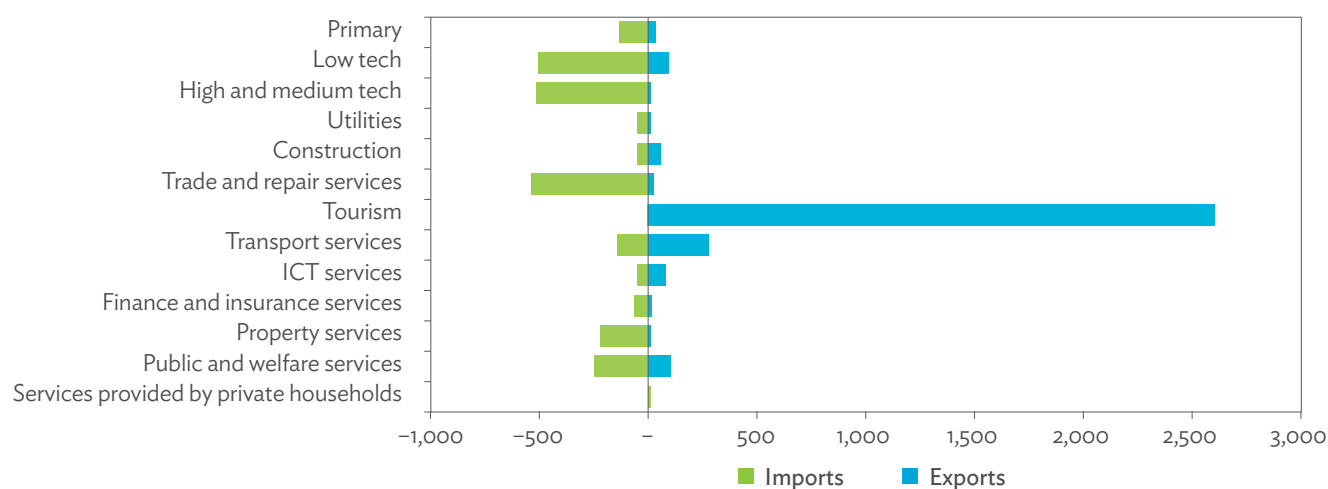


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

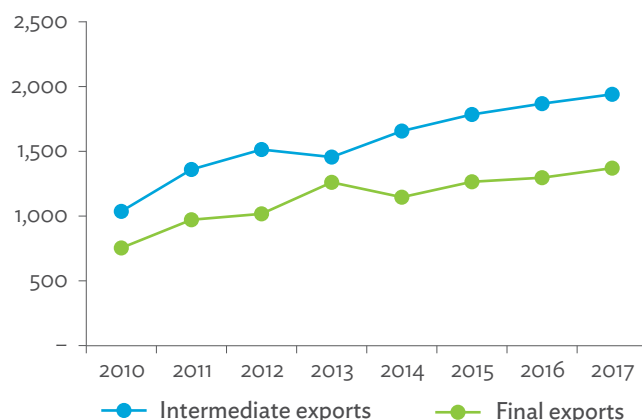


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**



\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

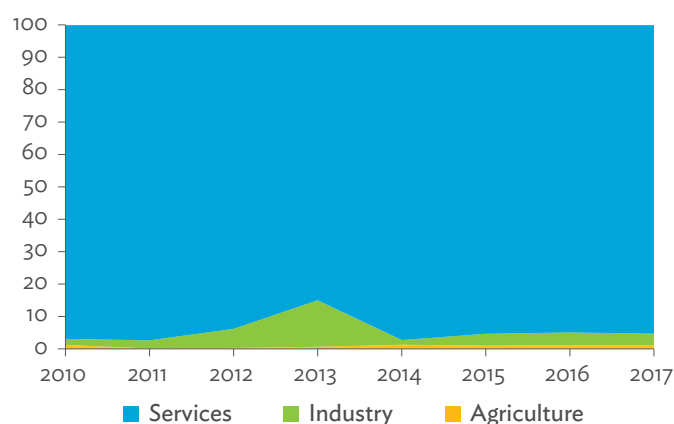


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

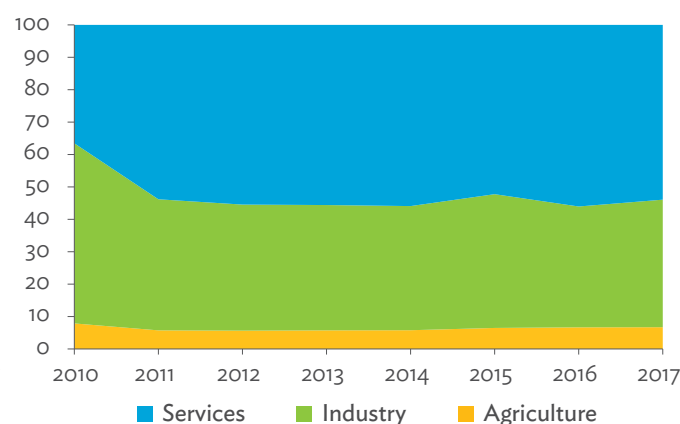
**Figure 6.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

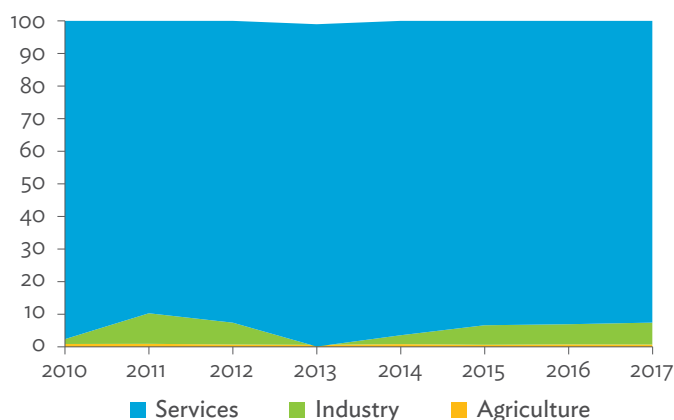
**Figure 6.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

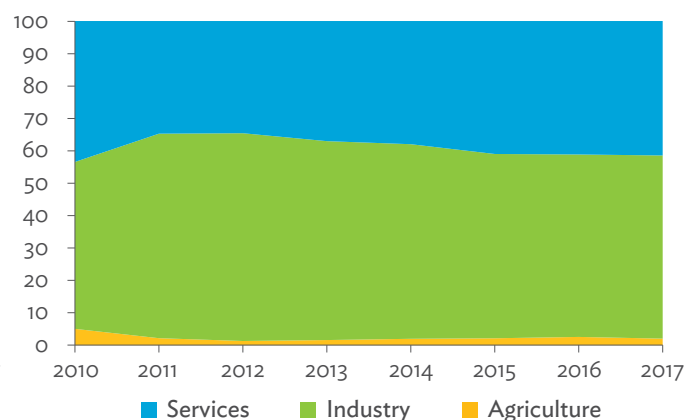
**Figure 6.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

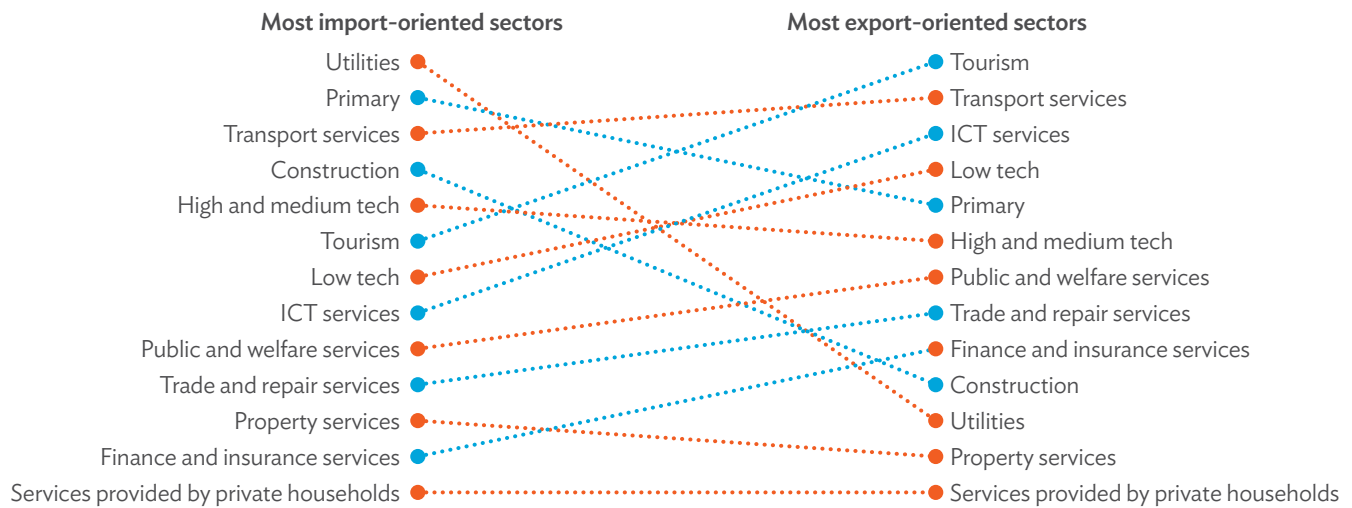
**Figure 6.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

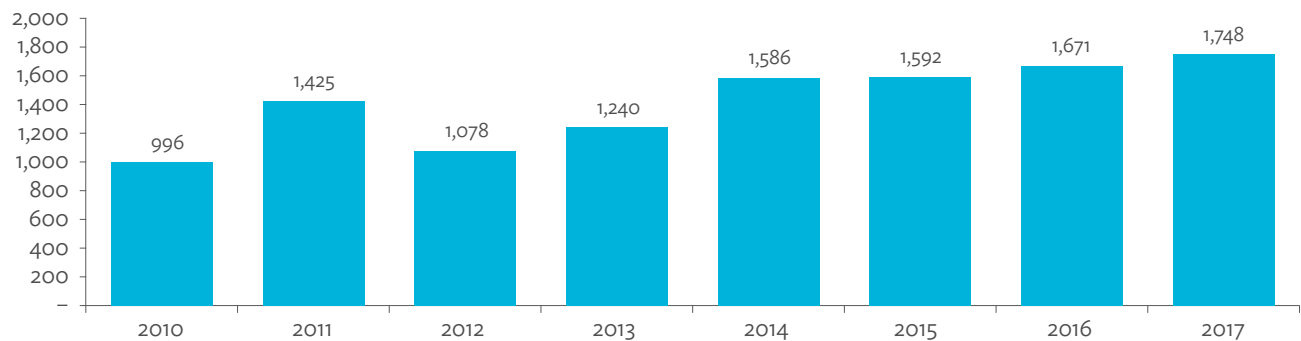


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

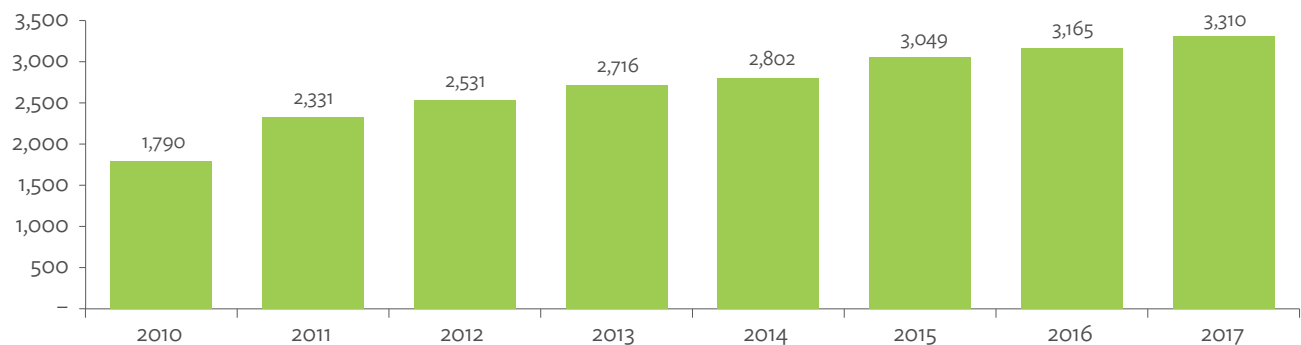


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

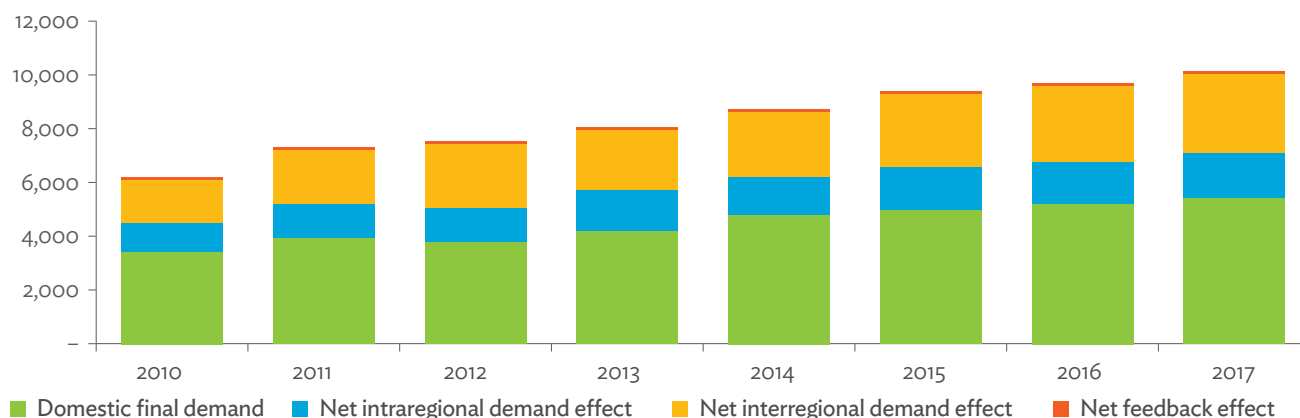


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

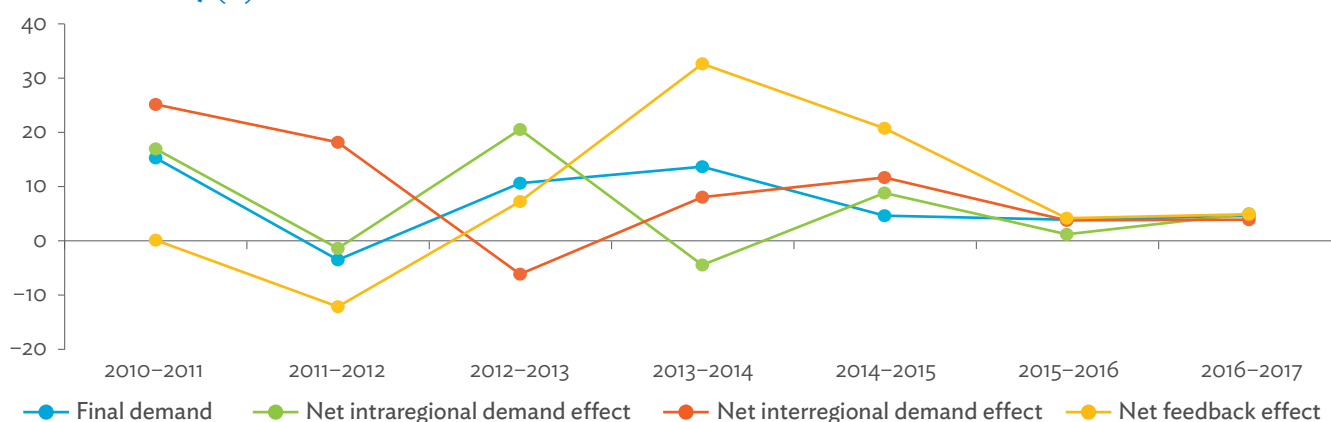


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

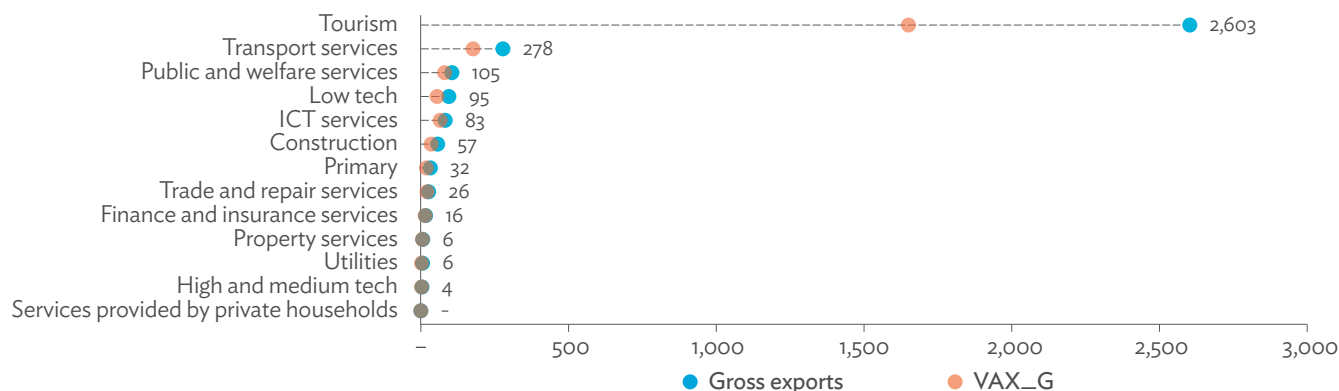
**Figure 6.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

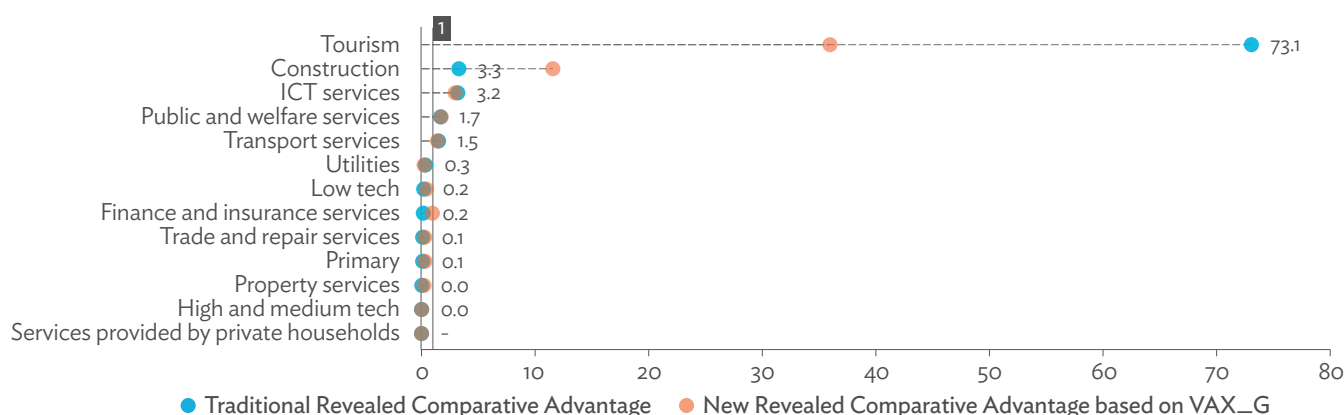


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 6.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	144	57	51	67	99	51	59	61
Low tech	354	679	516	541	625	927	965	997
High and medium tech	9	16	14	13	13	18	18	18
Business service	2,352	2,515	2,508	2,851	3,288	3,126	3,215	3,354
Personal service	573	689	728	751	776	901	961	1,029
Intraregional effects (M1)								
Primary	180	109	87	150	154	118	119	127
Low tech	249	466	535	492	315	678	692	733
High and medium tech	15	14	13	11	11	19	17	18
Business service	607	597	530	779	904	593	587	619
Personal service	34	85	88	78	58	162	174	171

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	178	83	87	100	160	110	115	120
Low tech	134	310	522	472	182	502	517	535
High and medium tech	5	4	8	10	4	9	9	10
Business service	1,329	1,602	1,748	1,616	2,082	2,064	2,122	2,229
Personal service	31	99	115	130	88	124	151	135
Feedback effects (M3)								
Primary	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Low tech	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02
High and medium tech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Business service	0.05	0.05	0.04	0.04	0.06	0.07	0.07	0.07
Personal service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 6.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.6312	0.2080	0.2413	0.3088	0.2698	0.3833	0.3741	0.3742
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.3571	1.1588	1.2598	1.1295	0.8069	0.8662	0.8589	0.8592
Textiles and textile products	0.5022	0.4443	0.4783	0.4822	0.4212	0.3732	0.3766	0.3764
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0859	0.0634	0.0648	0.0000
Wood and products of wood and cork	0.5732	0.5347	0.5770	0.5848	0.5122	0.4855	0.4867	0.4866
Pulp, paper, paper products, printing, and publishing	0.5093	0.5264	0.5755	0.5931	0.5199	0.4730	0.4756	0.4748
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0413	0.0109	0.0011	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.3333	0.3018	0.3396	0.3478	0.2695	0.2426	0.2443	0.2440
Basic metals and fabricated metal	0.3013	0.2387	0.2748	0.2823	0.2081	0.1981	0.1985	0.1984
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0303	0.0000	0.0000	0.0000
Transport equipment	0.4542	0.4282	0.4753	0.4731	0.3958	0.3761	0.3749	0.3755
Manufacturing, nec; recycling	0.3205	0.2721	0.2966	0.3085	0.2675	0.2356	0.2384	0.2387
Electricity, gas, and water supply	0.4307	0.2538	0.3121	0.4119	0.3499	0.4604	0.4479	0.4479
Construction	0.5620	0.5265	0.6053	0.5791	0.4477	0.4183	0.4085	0.4085
Sale, maintenance, and repair	0.6534	0.6364	0.7624	0.9160	0.9038	1.0223	1.0169	1.0167
Wholesale trade and commission trade	0.6534	0.6209	0.6651	0.6867	0.6526	0.7201	0.7197	0.7192
Retail trade	0.6534	0.4671	0.5186	0.5672	0.5272	0.6252	0.6217	0.6221
Hotels and restaurants	0.6750	0.5713	0.6678	0.6410	0.5496	0.6028	0.5919	0.5925
Inland transport	0.4037	0.2492	0.2916	0.3248	0.2775	0.3275	0.3252	0.3257
Water transport	0.2644	0.2794	0.3494	0.4046	0.3446	0.3998	0.3911	0.3911
Air transport	0.4732	0.4391	0.5160	0.5493	0.4899	0.5483	0.5455	0.5452
Other supporting and auxiliary transport activities	0.1513	0.1974	0.2265	0.2694	0.2356	0.2596	0.2581	0.2587
Post and telecommunications	0.3491	0.5716	0.6015	0.6088	0.5325	0.5463	0.5415	0.5443
Financial intermediation	0.2216	0.2353	0.2459	0.2616	0.2345	0.2425	0.2414	0.2408
Real estate activities	0.2528	0.2624	0.2820	0.2916	0.2578	0.2788	0.2765	0.2765
Renting of M&Eq and other business activities	0.2534	0.1905	0.2125	0.2705	0.2512	0.4618	0.4619	0.4618
Public administration and defense; compulsory social security	0.1669	0.3917	0.4120	0.4265	0.3854	0.3666	0.3628	0.3612
Education	0.1555	0.2006	0.2098	0.2316	0.2061	0.2102	0.2089	0.2081
Health and social work	0.2171	0.2569	0.2768	0.3127	0.2825	0.2906	0.2867	0.2862
Other community, social, and personal services	0.4049	0.2371	0.2847	0.3766	0.3663	0.4922	0.4786	0.4783
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.0324	1.0093	0.8520	0.7220	0.7032	0.8030	0.7895	0.8193
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.8223	0.8407	0.6736	0.7079	0.8622	0.8583	0.8515	0.8681
Textiles and textile products	0.6509	0.5721	0.4393	0.5332	0.7267	0.6123	0.6282	0.6328
Leather, leather products, and footwear	0.0000	1.8365	2.2466	0.0000	1.8444	1.7390	1.7103	0.0000
Wood and products of wood and cork	0.5807	0.6532	0.5193	0.5861	0.7573	0.6646	0.6665	0.6830
Pulp, paper, paper products, printing, and publishing	0.7819	0.6803	0.5419	0.6196	0.7983	0.6638	0.6733	0.6817
Coke, refined petroleum, and nuclear fuel	0.0000	1.8347	2.3415	0.0000	1.8346	1.8363	1.7882	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.9359	0.8128	0.6412	0.8016	1.0808	0.8054	0.8482	0.8478
Basic metals and fabricated metal	1.1015	0.9980	0.7730	0.9469	1.2561	0.9141	0.9269	0.9588
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	1.2127	0.0000	0.0000	0.0000
Transport equipment	0.9520	0.7765	0.6157	0.7048	0.9196	0.7594	0.7637	0.7814
Manufacturing, nec; recycling	0.4402	0.4249	0.3207	0.3864	0.5196	0.4113	0.4230	0.4230
Electricity, gas, and water supply	1.2908	1.4634	1.3059	1.1759	1.1938	1.2448	1.2188	1.2694
Construction	1.0580	0.9461	0.7285	0.8566	1.1138	0.9204	0.8888	0.9015
Sale, maintenance, and repair	0.5062	1.3000	1.0855	0.8279	0.7879	0.8596	0.8530	0.8711
Wholesale trade and commission trade	0.5051	0.4921	0.3722	0.3116	0.3111	0.3590	0.3569	0.3629
Retail trade	0.5115	0.8131	0.6307	0.4957	0.4822	0.5135	0.5105	0.5237
Hotels and restaurants	0.6094	0.9437	0.7546	0.7720	0.8485	0.8226	0.8174	0.8304
Inland transport	1.1460	0.8613	0.6790	0.6573	0.7025	0.6735	0.6760	0.6886
Water transport	1.6014	1.2432	1.0806	1.0234	1.0865	1.0203	0.9840	1.0405
Air transport	0.9651	0.9884	0.7934	0.7648	0.8224	0.7822	0.7751	0.7957
Other supporting and auxiliary transport activities	0.9099	0.7357	0.5556	0.5535	0.5971	0.5656	0.5664	0.5838
Post and telecommunications	0.5826	0.4568	0.3705	0.3870	0.4605	0.4100	0.4083	0.4174
Financial intermediation	0.2009	0.2299	0.1792	0.1940	0.2186	0.2147	0.2140	0.2150
Real estate activities	0.2938	0.3554	0.2681	0.2761	0.3101	0.3087	0.3092	0.3054
Renting of M&Eq and other business activities	0.1949	0.6735	0.5437	0.2539	0.2156	0.3632	0.3653	0.3709
Public administration and defense; compulsory social security	0.1832	0.3093	0.2401	0.2856	0.3545	0.3002	0.2946	0.2982
Education	0.2128	0.2168	0.1725	0.1877	0.2067	0.1854	0.1823	0.1858
Health and social work	0.4781	0.4527	0.3675	0.3732	0.3967	0.3589	0.3509	0.3625
Other community, social, and personal services	0.6854	0.9836	0.7921	0.5599	0.5156	0.6054	0.5880	0.6132
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0001	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	20	11	11	6	12	7	18	11	31	20	26	16	31	18	32	19
Low tech	14	9	89	52	96	65	63	41	33	19	87	51	91	53	95	55
High and medium tech	1	0	1	1	1	1	3	2	2	1	3	2	4	2	4	3
Utilities	15	7	2	1	2	1	3	1	5	2	5	2	6	2	6	2
Construction	1	1	33	20	58	40	134	85	16	8	46	28	54	33	57	35
Trade and repair services	34	26	10	7	10	8	35	30	40	33	21	17	25	20	26	21
Tourism	1,399	1,024	1,846	1,070	1,984	1,319	2,124	1,400	2,313	1,447	2,458	1,574	2,488	1,580	2,603	1,650
Transport services	222	99	99	56	108	70	138	90	194	121	233	150	266	169	278	177
ICT services	51	36	113	88	123	101	76	61	38	29	69	55	79	63	83	65
Finance and insurance services	0	0	28	25	31	28	13	12	10	9	13	12	15	14	16	14
Property services	3	3	3	2	4	3	9	8	20	18	5	4	6	5	6	5
Public and welfare services	31	23	94	80	103	90	102	82	101	77	83	64	100	77	105	80
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 6.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.101	0.472	0.040	0.286	0.040	0.252	0.056	0.369	0.102	0.516	0.090	0.291	0.103	0.303	0.099	0.303
Low tech	0.052	0.255	0.268	0.609	0.270	0.661	0.160	0.415	0.079	0.213	0.190	0.480	0.192	0.428	0.191	0.431
High and medium tech	0.001	0.011	0.001	0.012	0.001	0.016	0.002	0.014	0.001	0.006	0.002	0.018	0.003	0.017	0.003	0.017
Utilities	1.855	0.639	0.199	0.295	0.193	0.318	0.230	0.340	0.369	0.341	0.321	0.226	0.289	0.220	0.346	0.220
Construction	0.203	2.690	3.726	7.278	5.639	10.489	9.151	7.570	1.110	1.876	2.825	11.153	2.808	11.175	3.287	11.561
Trade and repair services	0.239	0.548	0.058	0.280	0.052	0.301	0.166	0.533	0.183	0.636	0.086	0.269	0.097	0.279	0.099	0.282
Tourism	74.073	42.441	74.978	40.746	75.687	37.331	73.770	36.721	76.096	38.421	74.739	37.276	63.862	34.035	73.063	35.962
Transport services	2.079	1.308	0.765	1.158	0.751	1.279	0.921	1.343	1.244	1.456	1.349	1.387	1.503	1.413	1.500	1.400
ICT services	4.257	3.262	7.726	4.908	7.031	4.645	4.054	3.287	1.950	2.347	3.201	3.567	3.384	3.389	3.194	2.959
Finance and insurance services	0.000	0.642	0.415	1.194	0.417	1.147	0.156	0.984	0.112	0.889	0.140	0.937	0.150	0.937	0.155	0.957
Property services	0.027	0.662	0.022	0.221	0.022	0.240	0.047	0.497	0.101	0.697	0.024	0.216	0.026	0.213	0.025	0.222
Public and welfare services	0.930	0.654	2.321	1.892	2.251	1.786	1.947	1.424	1.891	1.230	1.370	1.658	1.497	1.781	1.673	1.730
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

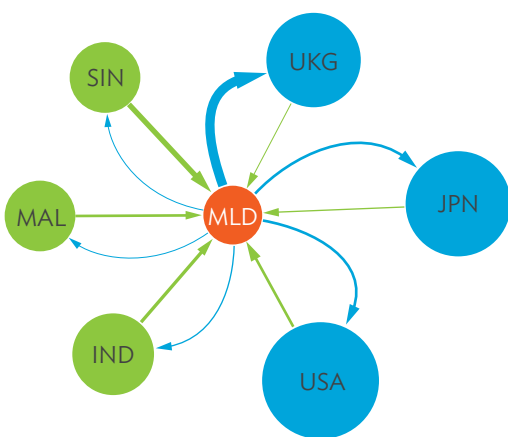
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 6.4

## GLOBAL VALUE CHAIN INDICATORS

### Maldives

**Figure 6.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

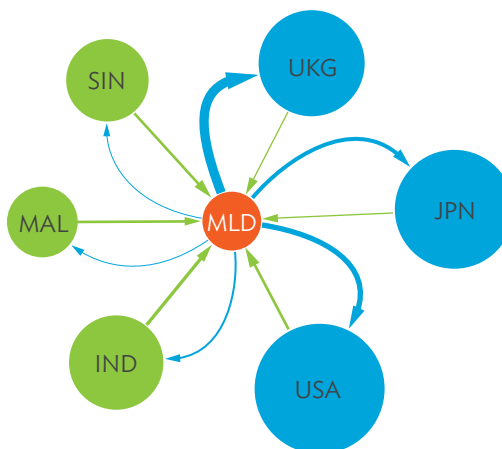
IND = India, JPN = Japan, MAL = Malaysia, MLD = Maldives, SIN = Singapore, UKG = United Kingdom, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

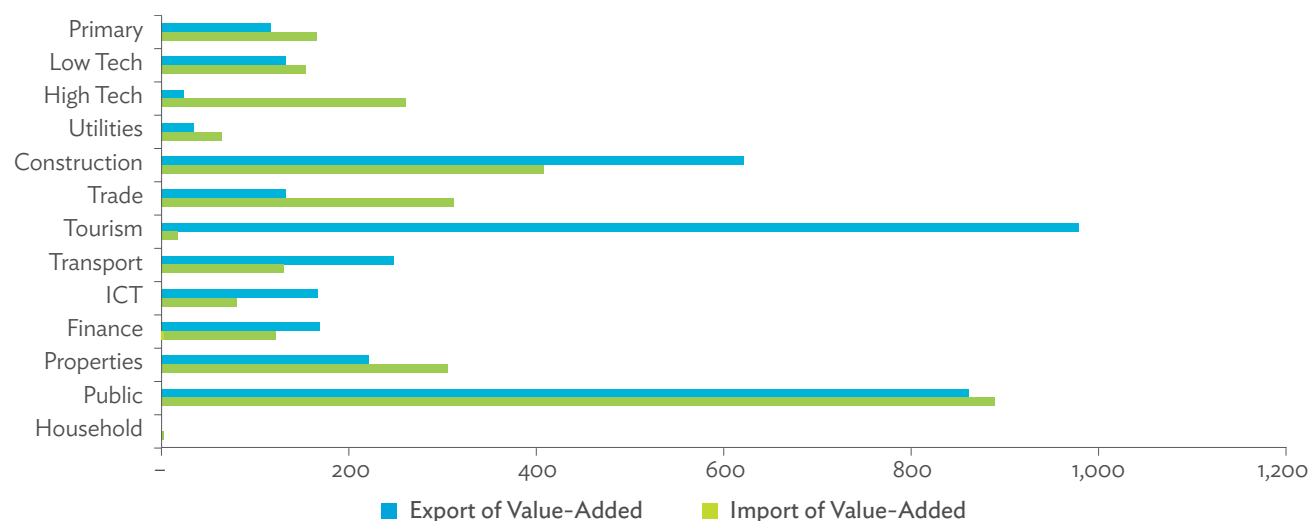
IND = India, JPN = Japan, MAL = Malaysia, MLD = Maldives, SIN = Singapore, UKG = United Kingdom, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

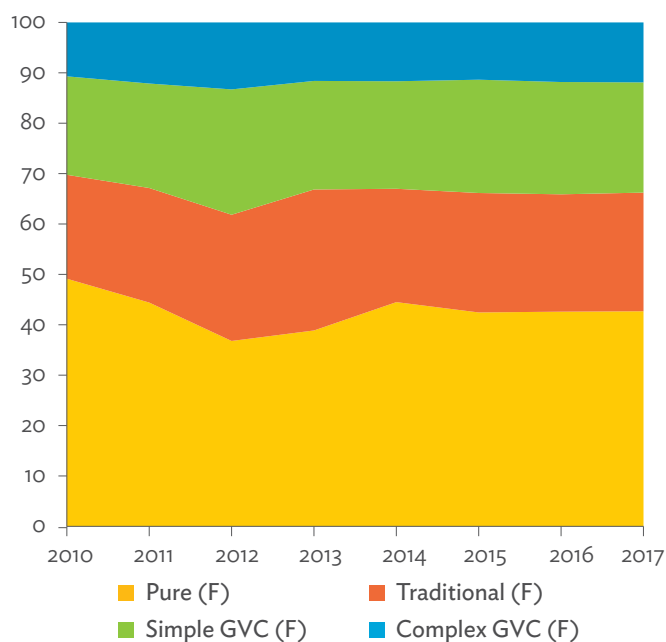
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**Figure 6.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

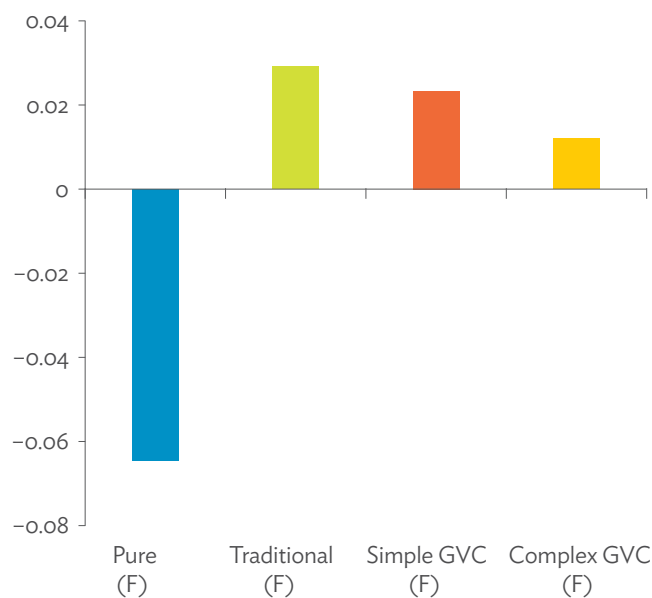
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**Figure 6.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

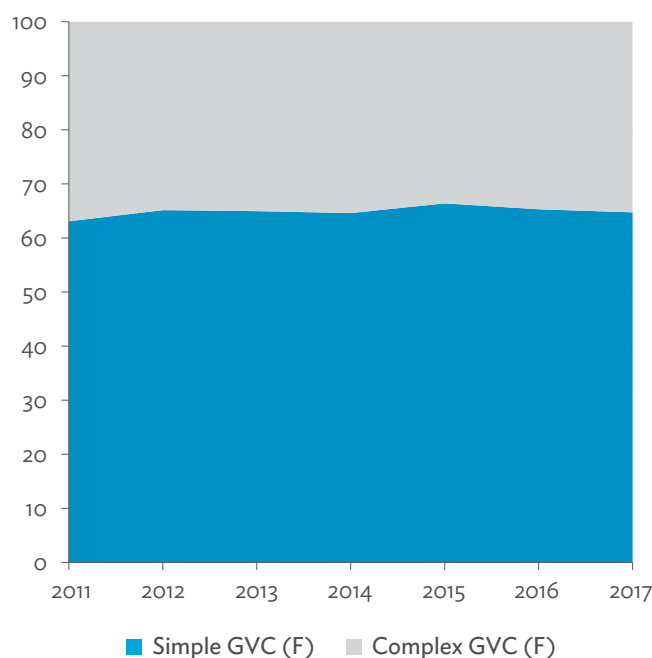
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

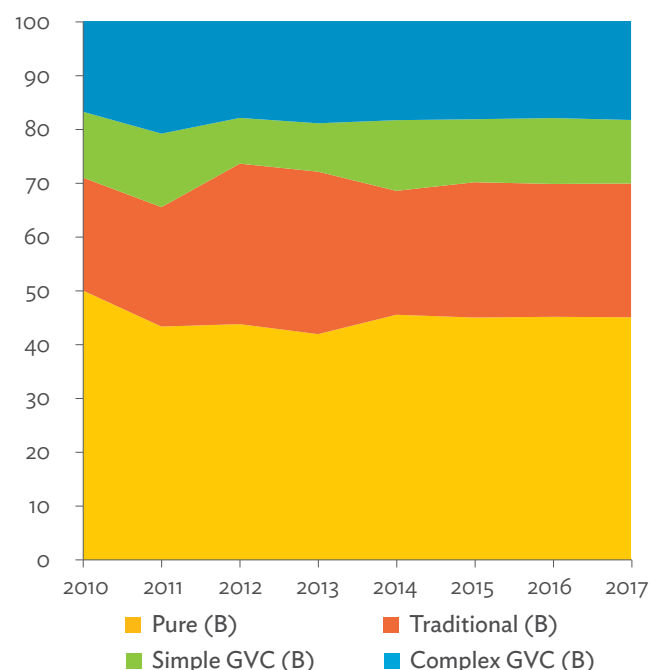


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

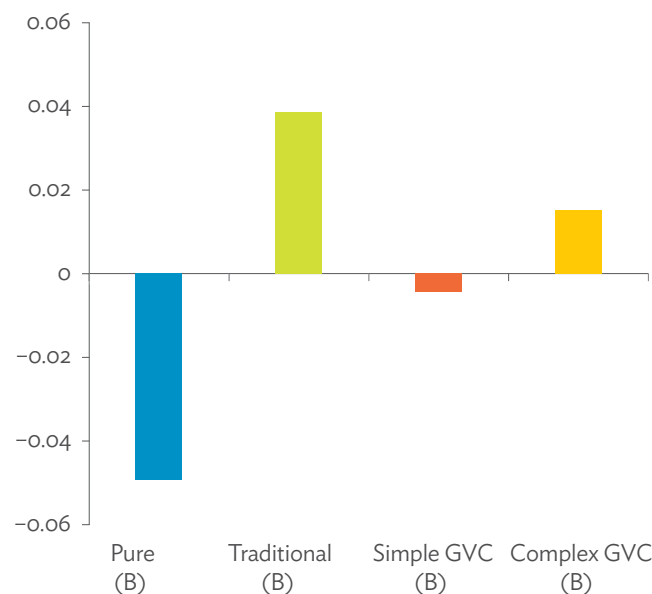


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



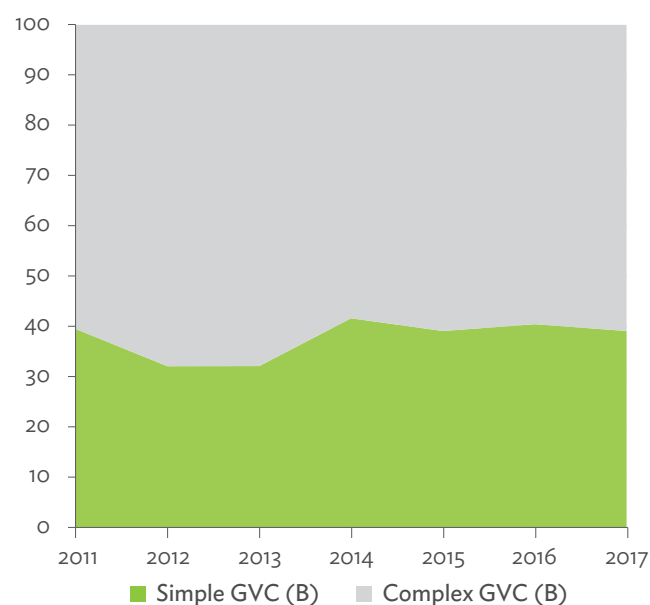
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

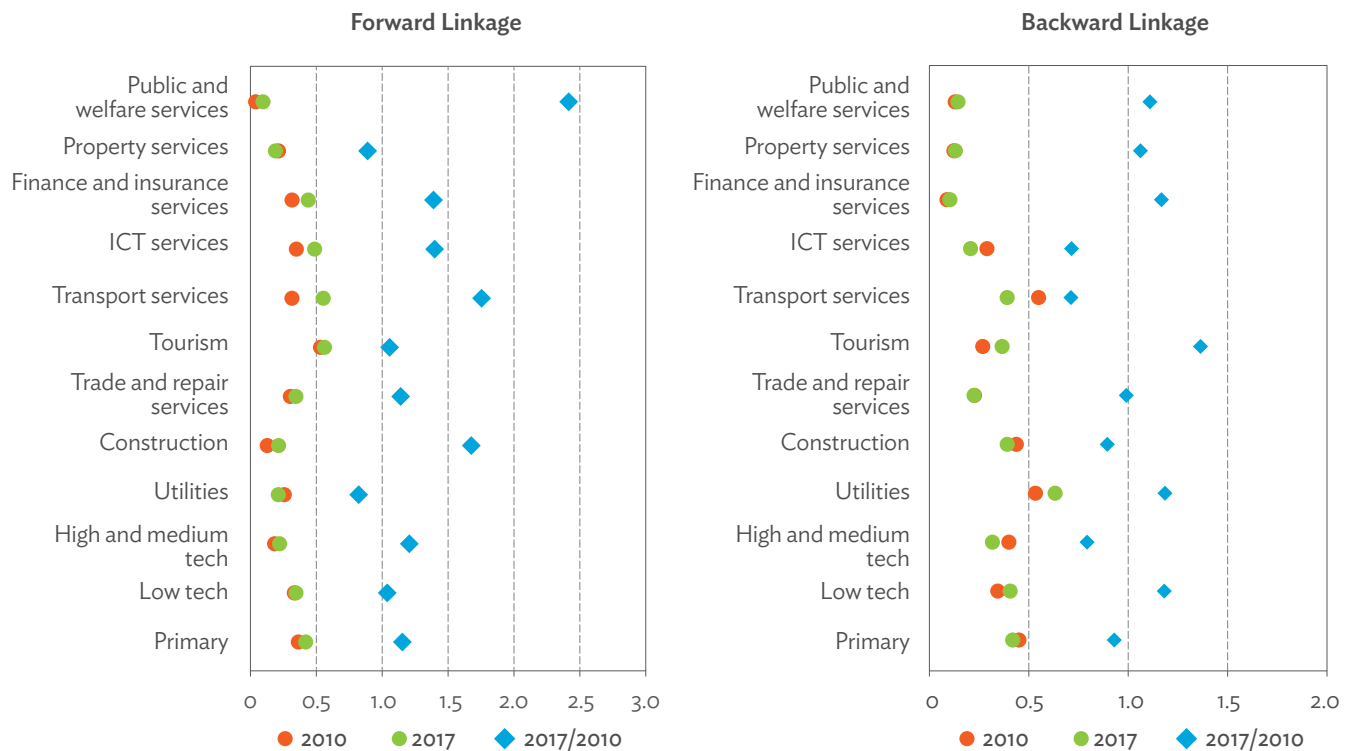


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 6.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

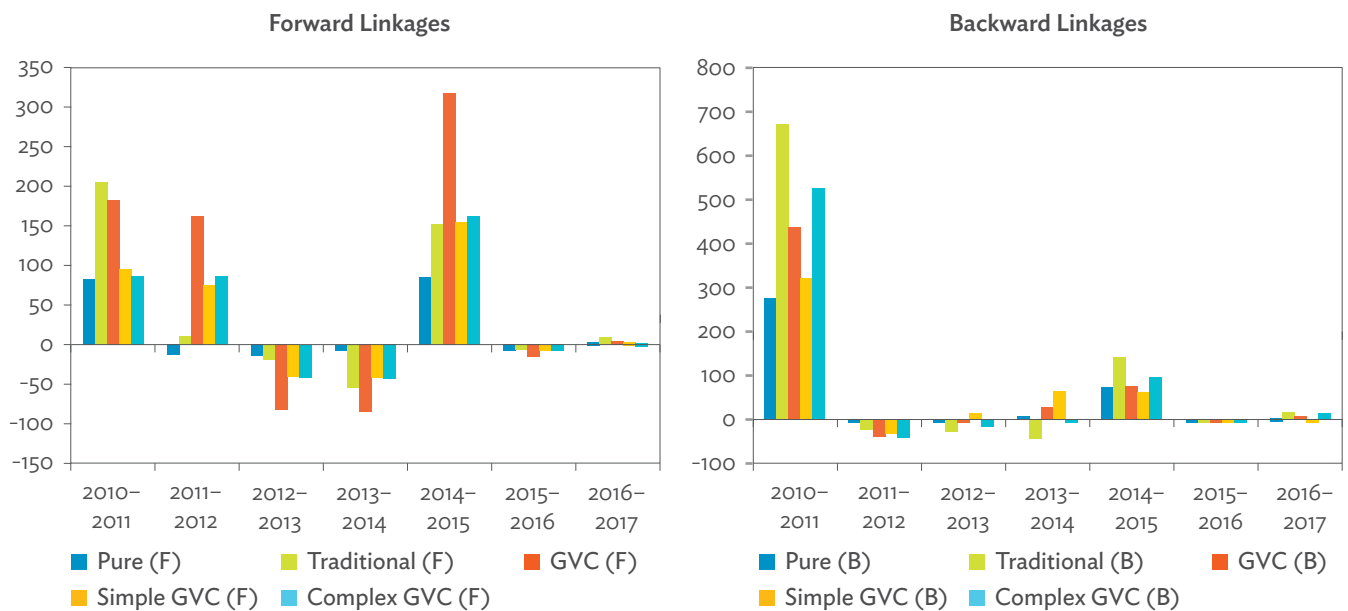


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 6.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

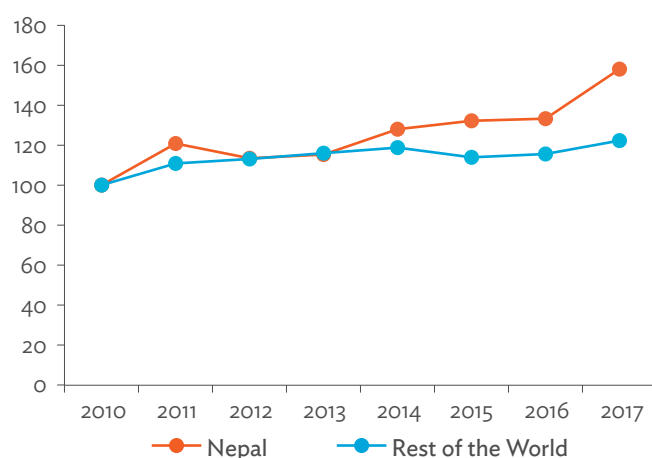


# 7.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Nepal

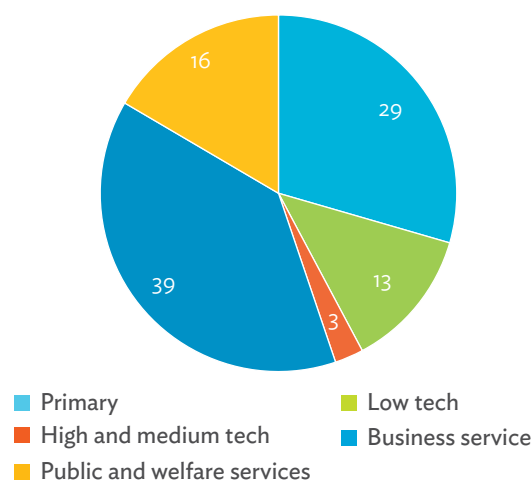
**Figure 7.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

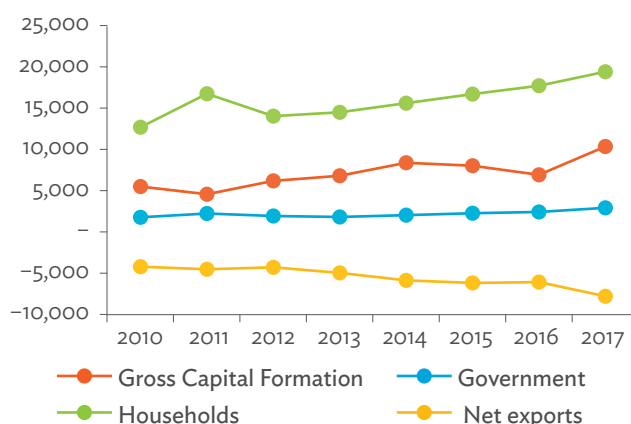
**Figure 7.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

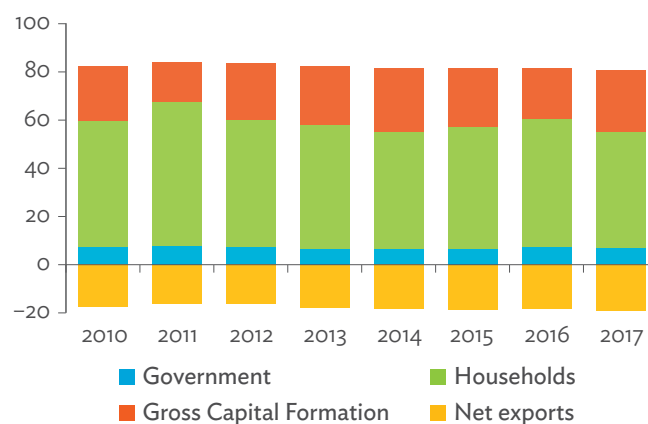


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

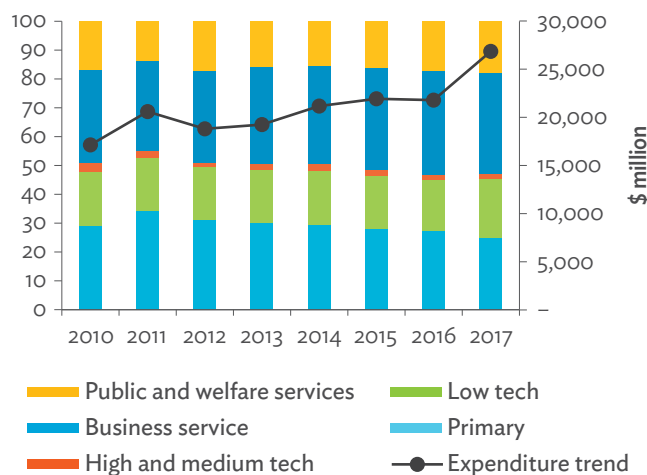
**Figure 7.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

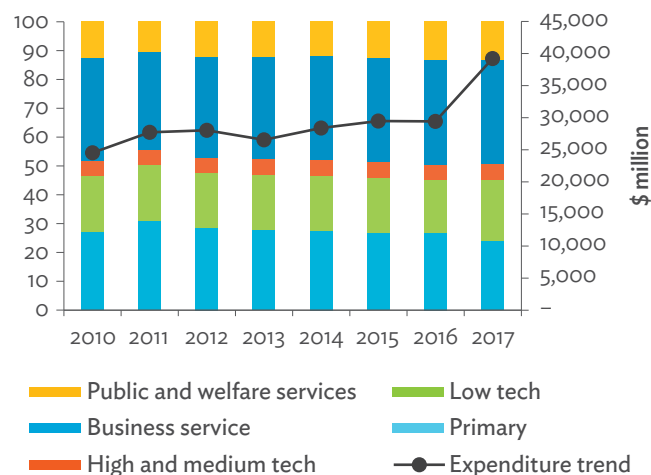


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

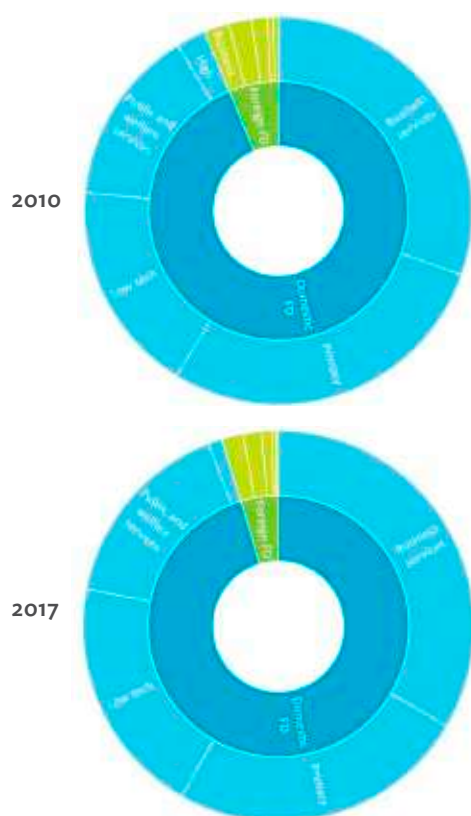


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

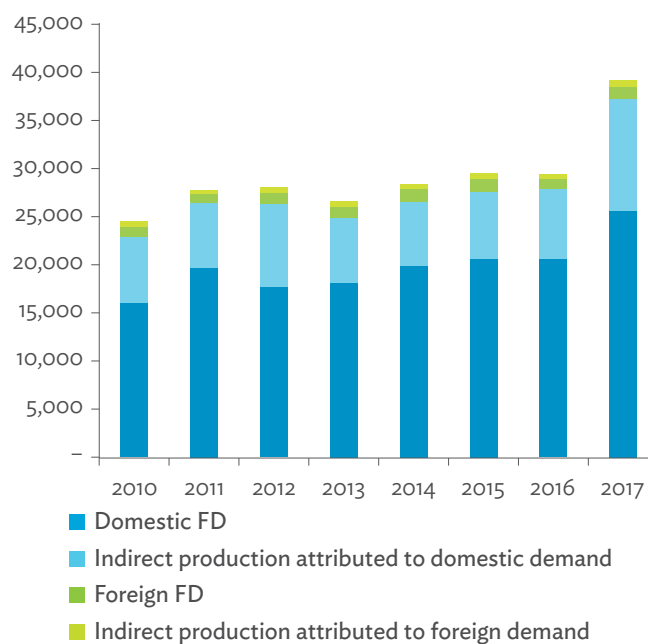


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

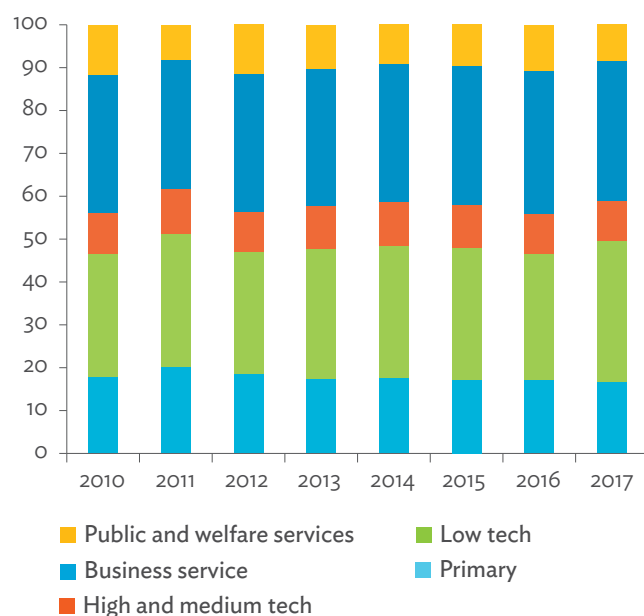


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

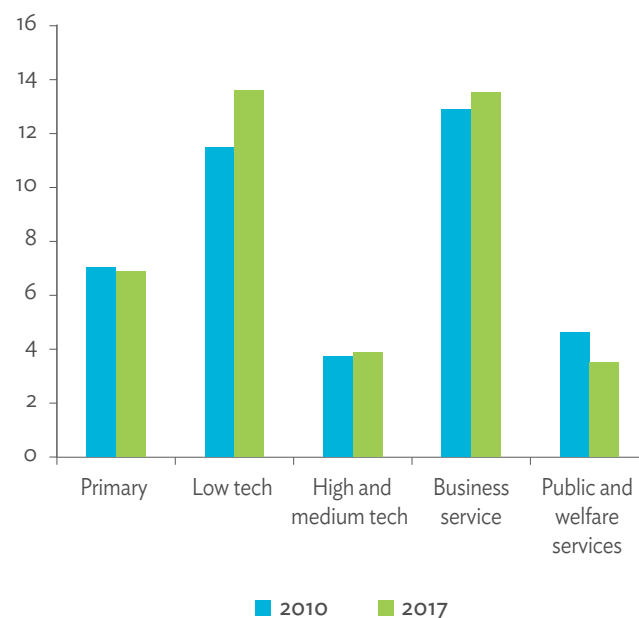
**Figure 7.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

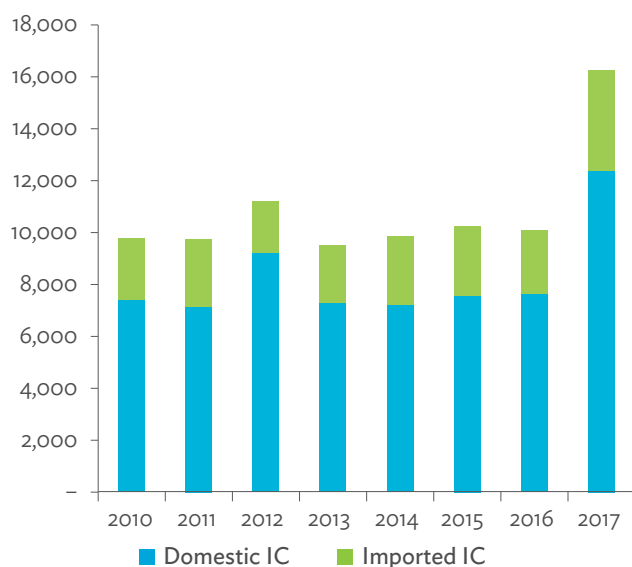
**Figure 7.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

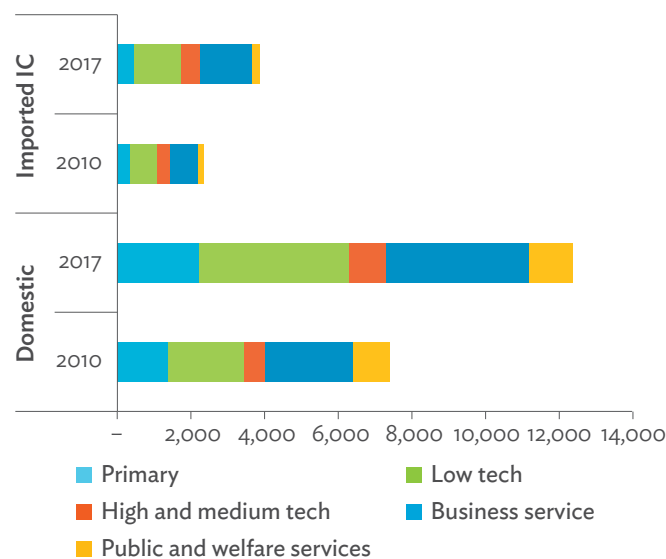


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

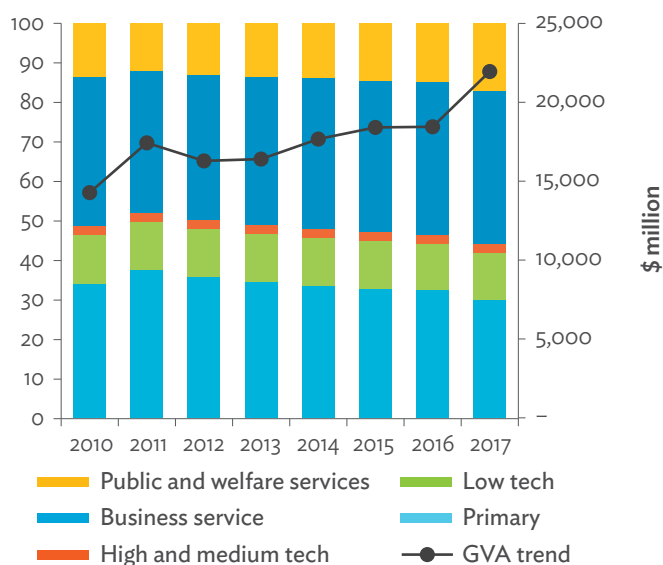


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

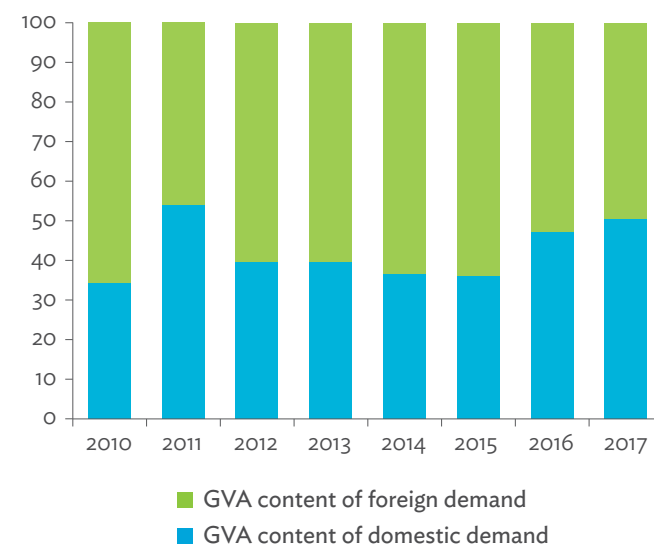


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

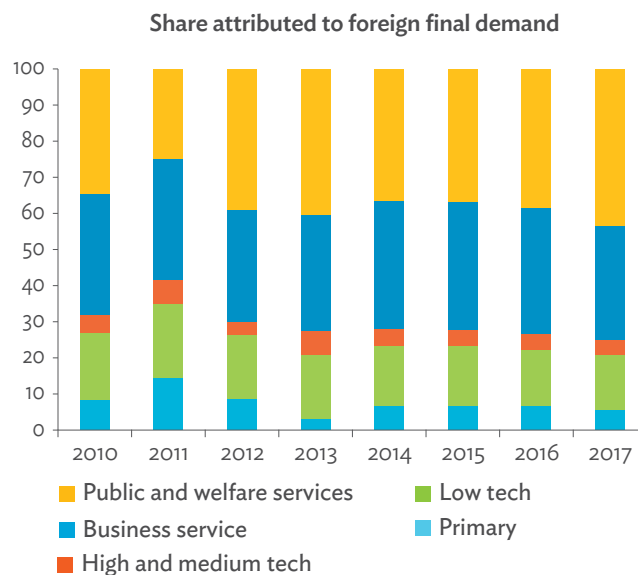
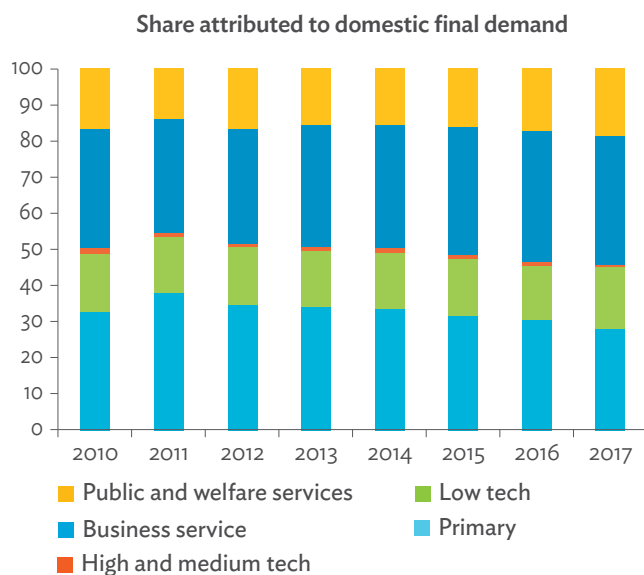


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 7.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.902	0.913	0.924	0.917	0.903	0.907	0.911	0.885
Mining and quarrying	0.869	0.885	0.891	0.888	0.880	0.883	0.887	0.850
Food, beverages, and tobacco	0.805	0.822	0.851	0.831	0.806	0.813	0.821	0.794
Textiles and textile products	0.697	0.680	0.733	0.699	0.666	0.672	0.686	0.649
Leather, leather products, and footwear	0.734	0.721	0.773	0.740	0.707	0.715	0.730	0.698
Wood and products of wood and cork	0.724	0.726	0.774	0.743	0.707	0.715	0.728	0.695
Pulp, paper, paper products, printing, and publishing	0.643	0.613	0.673	0.634	0.596	0.602	0.618	0.578
Coke, refined petroleum, and nuclear fuel	0.636	0.632	0.686	0.650	0.615	0.620	0.632	0.599
Chemicals and chemical products	0.647	0.623	0.687	0.646	0.605	0.614	0.632	0.595
Rubber and plastics	0.571	0.583	0.640	0.601	0.562	0.563	0.570	0.542
Other nonmetallic minerals	0.660	0.653	0.706	0.672	0.637	0.643	0.656	0.618
Basic metals and fabricated metal	0.422	0.430	0.504	0.456	0.408	0.414	0.426	0.405
Machinery, nec	0.727	0.731	0.764	0.743	0.716	0.720	0.733	0.682
Electrical and optical equipment	0.446	0.430	0.511	0.460	0.412	0.417	0.434	0.412
Transport equipment	0.492	0.471	0.546	0.495	0.446	0.451	0.463	0.438
Manufacturing, nec; recycling	0.568	0.565	0.634	0.590	0.542	0.551	0.565	0.539
Electricity, gas, and water supply	0.765	0.747	0.785	0.760	0.733	0.738	0.733	0.678
Construction	0.678	0.690	0.727	0.703	0.676	0.681	0.694	0.641
Sale, maintenance, and repair	0.930	0.949	0.942	0.947	0.945	0.946	0.948	0.937
Wholesale trade and commission trade	0.928	0.941	0.939	0.944	0.942	0.944	0.944	0.932
Retail trade	0.907	0.931	0.920	0.929	0.927	0.929	0.930	0.915
Hotels and restaurants	0.836	0.816	0.863	0.837	0.805	0.814	0.820	0.805
Inland transport	0.649	0.598	0.660	0.621	0.589	0.596	0.602	0.560
Water transport	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air transport	0.787	0.783	0.807	0.791	0.775	0.780	0.775	0.722
Other supporting and auxiliary transport activities	0.770	0.779	0.803	0.786	0.765	0.770	0.771	0.712
Post and telecommunications	0.824	0.840	0.858	0.845	0.827	0.833	0.835	0.773
Financial intermediation	0.913	0.881	0.901	0.890	0.871	0.874	0.887	0.878
Real estate activities	0.883	0.910	0.902	0.908	0.902	0.907	0.918	0.903
Renting of M&Eq and other business activities	0.808	0.811	0.834	0.819	0.800	0.805	0.821	0.814
Public administration and defense; compulsory social security	0.862	0.914	0.905	0.909	0.909	0.913	0.901	0.924
Education	0.903	0.929	0.926	0.928	0.925	0.929	0.935	0.948
Health and social work	0.823	0.833	0.846	0.838	0.826	0.831	0.812	0.780
Other community, social, and personal services	0.902	0.904	0.918	0.912	0.895	0.898	0.901	0.885
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.079	0.070	0.056	0.061	0.067	0.065	0.060	0.084
Mining and quarrying	0.111	0.096	0.089	0.091	0.095	0.094	0.087	0.125
Food, beverages, and tobacco	0.158	0.142	0.110	0.126	0.138	0.133	0.121	0.153
Textiles and textile products	0.261	0.279	0.223	0.252	0.272	0.269	0.247	0.290
Leather, leather products, and footwear	0.226	0.240	0.186	0.214	0.234	0.229	0.208	0.246
Wood and products of wood and cork	0.225	0.222	0.172	0.197	0.214	0.210	0.190	0.232
Pulp, paper, paper products, printing, and publishing	0.296	0.329	0.264	0.297	0.316	0.313	0.287	0.338
Coke, refined petroleum, and nuclear fuel	0.309	0.314	0.256	0.287	0.304	0.303	0.282	0.327
Chemicals and chemical products	0.294	0.321	0.253	0.288	0.309	0.305	0.278	0.325
Rubber and plastics	0.358	0.345	0.282	0.314	0.330	0.332	0.311	0.357
Other nonmetallic minerals	0.289	0.296	0.239	0.269	0.287	0.284	0.263	0.312
Basic metals and fabricated metal	0.477	0.464	0.380	0.419	0.435	0.435	0.402	0.451
Machinery, nec	0.226	0.222	0.184	0.201	0.212	0.211	0.190	0.245
Electrical and optical equipment	0.465	0.478	0.389	0.432	0.453	0.451	0.418	0.462
Transport equipment	0.391	0.412	0.330	0.369	0.381	0.382	0.350	0.401
Manufacturing, nec; recycling	0.353	0.350	0.277	0.312	0.332	0.329	0.300	0.347
Electricity, gas, and water supply	0.193	0.213	0.171	0.192	0.206	0.202	0.201	0.271
Construction	0.272	0.260	0.218	0.238	0.250	0.250	0.229	0.293
Sale, maintenance, and repair	0.057	0.040	0.044	0.040	0.040	0.039	0.036	0.047
Wholesale trade and commission trade	0.058	0.049	0.047	0.043	0.043	0.042	0.040	0.052
Retail trade	0.077	0.057	0.064	0.057	0.055	0.055	0.052	0.066
Hotels and restaurants	0.132	0.147	0.105	0.126	0.144	0.139	0.131	0.155
Inland transport	0.299	0.353	0.289	0.323	0.341	0.337	0.326	0.372
Water transport	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Air transport	0.182	0.189	0.162	0.176	0.184	0.181	0.183	0.237
Other supporting and auxiliary transport activities	0.185	0.178	0.151	0.164	0.172	0.170	0.165	0.232
Post and telecommunications	0.143	0.131	0.109	0.119	0.127	0.123	0.118	0.184
Financial intermediation	0.069	0.096	0.074	0.083	0.093	0.092	0.080	0.096
Real estate activities	0.089	0.065	0.069	0.064	0.062	0.061	0.050	0.067
Renting of M&Eq and other business activities	0.159	0.158	0.133	0.145	0.154	0.153	0.136	0.145
Public administration and defense; compulsory social security	0.118	0.068	0.073	0.071	0.067	0.065	0.075	0.056
Education	0.082	0.057	0.058	0.056	0.056	0.054	0.047	0.038
Health and social work	0.153	0.143	0.127	0.135	0.141	0.140	0.157	0.191
Other community, social, and personal services	0.078	0.076	0.060	0.065	0.073	0.072	0.069	0.090
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.301	1.259	1.350	1.264	1.251	1.251	1.254	1.363
Mining and quarrying	1.261	1.163	1.305	1.190	1.160	1.162	1.170	1.262
Food, beverages, and tobacco	1.864	1.837	1.955	1.854	1.820	1.822	1.815	2.008
Textiles and textile products	1.684	1.601	1.775	1.644	1.585	1.594	1.610	1.755
Leather, leather products, and footwear	1.754	1.686	1.835	1.719	1.671	1.676	1.686	1.830
Wood and products of wood and cork	1.783	1.764	1.903	1.788	1.741	1.747	1.749	1.920
Pulp, paper, paper products, printing, and publishing	1.580	1.470	1.665	1.522	1.452	1.462	1.482	1.603
Coke, refined petroleum, and nuclear fuel	1.732	1.670	1.866	1.720	1.650	1.662	1.686	1.824
Chemicals and chemical products	1.597	1.501	1.691	1.552	1.483	1.491	1.507	1.641
Rubber and plastics	1.707	1.690	1.908	1.750	1.661	1.683	1.713	1.853
Other nonmetallic minerals	1.729	1.671	1.852	1.714	1.651	1.661	1.680	1.831
Basic metals and fabricated metal	1.608	1.652	1.906	1.725	1.611	1.627	1.659	1.781
Machinery, nec	1.413	1.371	1.538	1.406	1.355	1.362	1.367	1.507
Electrical and optical equipment	1.544	1.513	1.770	1.591	1.484	1.499	1.536	1.637
Transport equipment	1.545	1.491	1.732	1.557	1.454	1.460	1.483	1.604
Manufacturing, nec; recycling	1.706	1.721	1.917	1.768	1.685	1.696	1.711	1.858
Electricity, gas, and water supply	1.430	1.422	1.496	1.418	1.408	1.411	1.460	1.660
Construction	1.521	1.460	1.662	1.512	1.443	1.453	1.467	1.626
Sale, maintenance, and repair	1.319	1.189	1.348	1.226	1.187	1.188	1.189	1.240
Wholesale trade and commission trade	1.321	1.175	1.344	1.221	1.180	1.182	1.182	1.230
Retail trade	1.301	1.170	1.329	1.208	1.168	1.169	1.173	1.222
Hotels and restaurants	1.704	1.836	1.759	1.763	1.825	1.828	1.853	1.969
Inland transport	1.295	1.104	1.330	1.176	1.100	1.107	1.144	1.192
Water transport	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Air transport	1.298	1.133	1.348	1.196	1.129	1.133	1.165	1.250
Other supporting and auxiliary transport activities	1.711	1.603	1.789	1.651	1.588	1.597	1.630	1.926
Post and telecommunications	1.627	1.538	1.699	1.575	1.525	1.527	1.555	1.865
Financial intermediation	1.244	1.313	1.354	1.293	1.304	1.306	1.292	1.365
Real estate activities	1.486	1.369	1.529	1.404	1.362	1.366	1.335	1.394
Renting of M&Eq and other business activities	1.516	1.398	1.569	1.439	1.389	1.395	1.390	1.443
Public administration and defense; compulsory social security	1.546	1.282	1.639	1.420	1.280	1.283	1.357	1.270
Education	1.471	1.318	1.536	1.386	1.315	1.316	1.307	1.232
Health and social work	1.408	1.240	1.488	1.322	1.237	1.242	1.305	1.397
Other community, social, and personal services	1.374	1.350	1.414	1.342	1.342	1.345	1.356	1.472
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

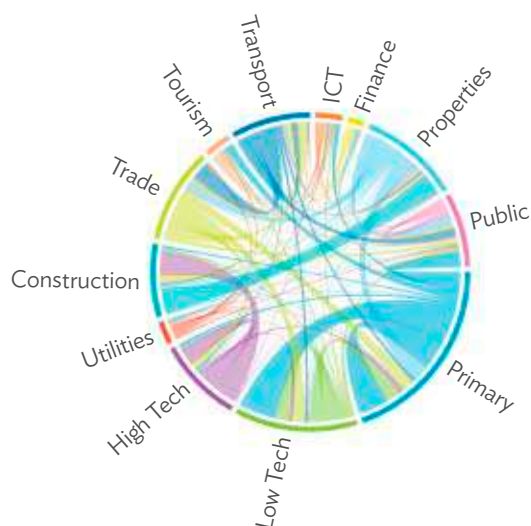
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 7.2

### Nepal

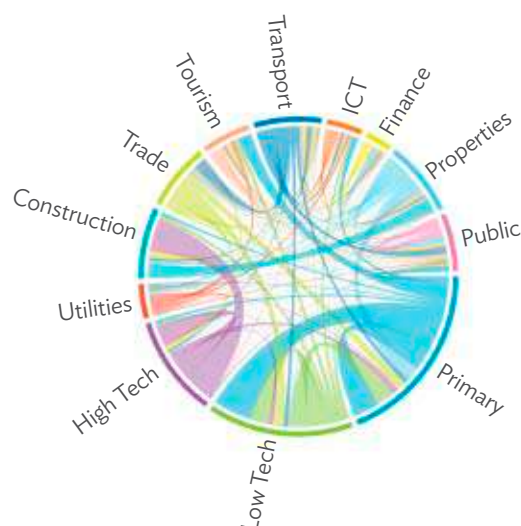
**Figure 7.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

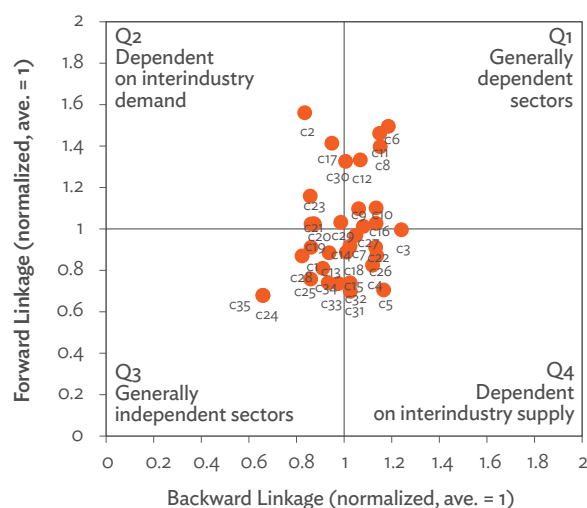
**Figure 7.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

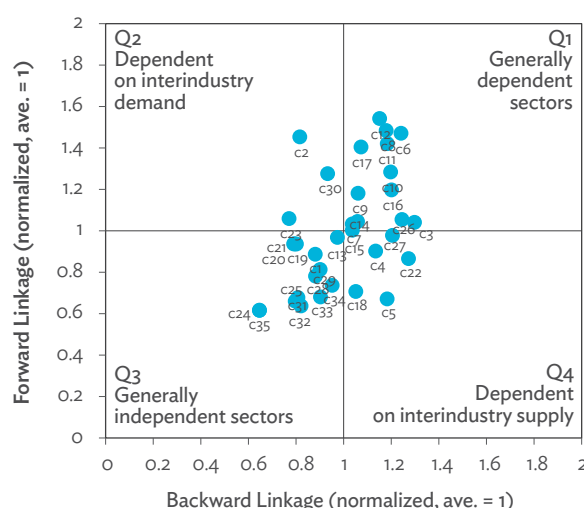
**Figure 7.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.2.2b: Backward and Forward Linkages by Industry, 2017**



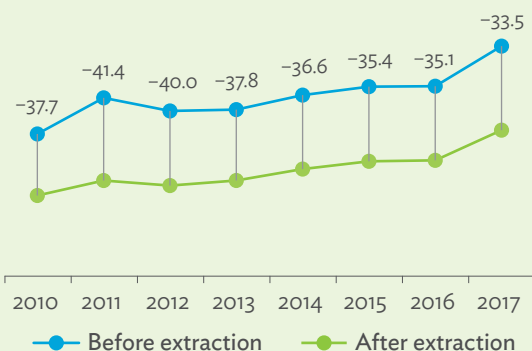
Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)



### Box 7: Hypothetical Extraction of Agriculture, Hunting, Forestry, and Fishing Industry in Nepal

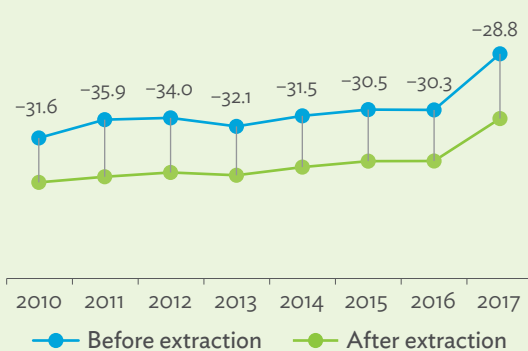
**Figure 7.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

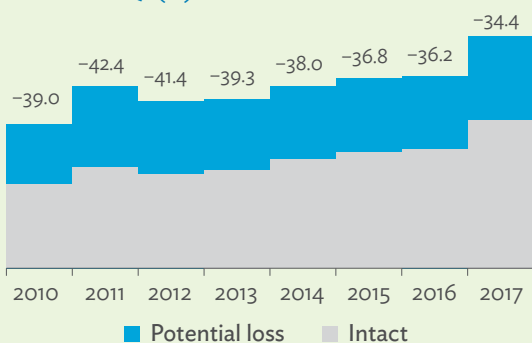
**Figure 7.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

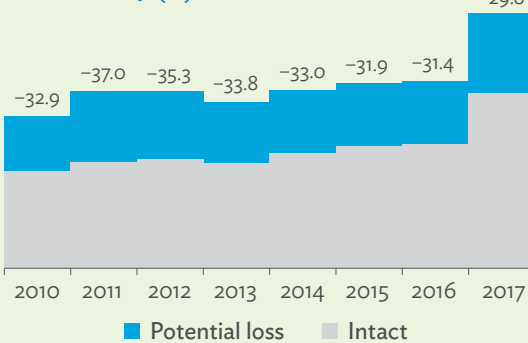
**Figure 7.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

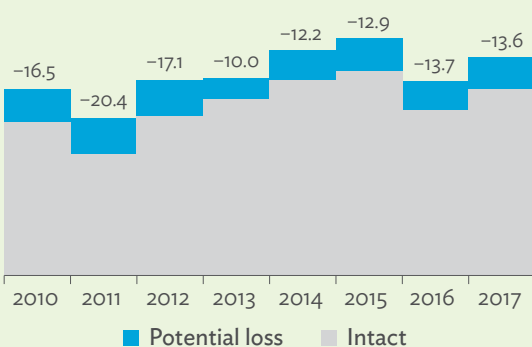
**Figure 7.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

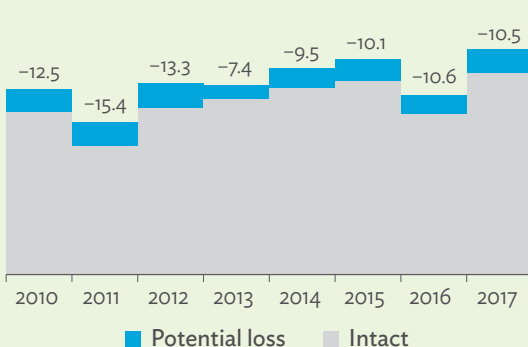
**Figure 7.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 7.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

Table 7.2.1: Input–Output Backward Linkage



Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.869	0.882	0.850	0.862	0.884	0.881	0.873	0.883
Mining and quarrying	0.843	0.815	0.821	0.811	0.820	0.819	0.814	0.818
Food, beverages, and tobacco	1.246	1.287	1.231	1.265	1.287	1.283	1.264	1.301
Textiles and textile products	1.125	1.122	1.118	1.121	1.121	1.123	1.121	1.137
Leather, leather products, and footwear	1.172	1.181	1.155	1.172	1.181	1.180	1.174	1.185
Wood and products of wood and cork	1.191	1.236	1.198	1.220	1.231	1.230	1.218	1.244
Pulp, paper, paper products, printing, and publishing	1.056	1.030	1.048	1.038	1.027	1.029	1.032	1.039
Coke, refined petroleum, and nuclear fuel	1.157	1.170	1.174	1.173	1.167	1.171	1.174	1.181
Chemicals and chemical products	1.067	1.052	1.065	1.059	1.048	1.050	1.049	1.063
Rubber and plastics	1.140	1.184	1.201	1.193	1.175	1.185	1.193	1.200
Other nonmetallic minerals	1.155	1.171	1.165	1.169	1.167	1.170	1.170	1.186
Basic metals and fabricated metal	1.074	1.157	1.200	1.176	1.139	1.146	1.155	1.154
Machinery, nec	0.944	0.960	0.968	0.959	0.958	0.959	0.952	0.976
Electrical and optical equipment	1.032	1.060	1.114	1.085	1.049	1.056	1.069	1.061
Transport equipment	1.032	1.045	1.090	1.062	1.029	1.028	1.032	1.039
Manufacturing, nec; recycling	1.140	1.205	1.207	1.206	1.192	1.194	1.192	1.204
Electricity, gas, and water supply	0.956	0.997	0.942	0.967	0.995	0.993	1.017	1.075
Construction	1.016	1.023	1.046	1.032	1.020	1.023	1.021	1.053
Sale, maintenance, and repair	0.881	0.833	0.849	0.836	0.839	0.836	0.828	0.803
Wholesale trade and commission trade	0.882	0.823	0.846	0.833	0.835	0.832	0.823	0.797
Retail trade	0.869	0.820	0.837	0.824	0.826	0.823	0.817	0.792
Hotels and restaurants	1.138	1.286	1.107	1.202	1.291	1.287	1.290	1.275
Inland transport	0.865	0.773	0.837	0.802	0.778	0.779	0.796	0.772
Water transport	0.668	0.701	0.629	0.682	0.707	0.704	0.696	0.648
Air transport	0.868	0.794	0.848	0.816	0.798	0.798	0.811	0.810
Other supporting and auxiliary transport activities	1.143	1.123	1.126	1.126	1.123	1.125	1.135	1.248
Post and telecommunications	1.087	1.077	1.070	1.074	1.079	1.075	1.083	1.208
Financial intermediation	0.831	0.919	0.852	0.882	0.922	0.920	0.900	0.884
Real estate activities	0.993	0.959	0.963	0.958	0.963	0.962	0.930	0.903
Renting of M&Eq and other business activities	1.013	0.980	0.988	0.982	0.982	0.982	0.968	0.935
Public administration and defense; compulsory social security	1.033	0.898	1.032	0.969	0.905	0.904	0.945	0.823
Education	0.983	0.923	0.967	0.945	0.930	0.927	0.910	0.798
Health and social work	0.941	0.869	0.937	0.902	0.874	0.875	0.909	0.905
Other community, social, and personal services	0.918	0.946	0.890	0.916	0.949	0.947	0.944	0.954
Private households with employed persons	0.668	0.701	0.629	0.682	0.707	0.704	0.696	0.648
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.909	0.829	0.833	0.858	0.857	0.881	0.893	0.888
Mining and quarrying	1.560	1.550	1.488	1.464	1.453	1.469	1.462	1.454
Food, beverages, and tobacco	0.994	1.000	0.971	0.991	1.004	1.007	0.998	1.042
Textiles and textile products	0.822	0.864	0.851	0.869	0.872	0.868	0.875	0.903
Leather, leather products, and footwear	0.702	0.711	0.653	0.704	0.721	0.718	0.711	0.673
Wood and products of wood and cork	1.494	1.444	1.459	1.443	1.438	1.489	1.517	1.472
Pulp, paper, paper products, printing, and publishing	0.967	0.990	0.996	0.999	0.998	0.992	0.981	1.034
Coke, refined petroleum, and nuclear fuel	1.396	1.442	1.544	1.440	1.462	1.470	1.482	1.485
Chemicals and chemical products	1.095	1.160	1.137	1.132	1.147	1.147	1.141	1.182
Rubber and plastics	1.099	1.121	1.193	1.162	1.119	1.193	1.261	1.285
Other nonmetallic minerals	1.460	1.432	1.463	1.445	1.436	1.483	1.509	1.422
Basic metals and fabricated metal	1.332	1.513	1.595	1.535	1.494	1.528	1.565	1.543
Machinery, nec	0.882	1.042	1.095	1.050	1.030	0.994	0.983	0.969
Electrical and optical equipment	0.914	0.994	1.015	1.005	0.997	0.979	0.970	1.046
Transport equipment	0.737	1.004	1.052	1.023	0.997	0.979	0.964	1.004
Manufacturing, nec; recycling	1.025	1.107	1.158	1.119	1.092	1.126	1.151	1.198
Electricity, gas, and water supply	1.413	1.329	1.371	1.365	1.394	1.384	1.366	1.405
Construction	0.885	0.792	0.797	0.812	0.811	0.796	0.784	0.709
Sale, maintenance, and repair	1.023	0.957	0.954	0.951	0.944	0.923	0.907	0.937
Wholesale trade and commission trade	1.021	0.957	0.954	0.952	0.945	0.924	0.908	0.938
Retail trade	1.022	0.957	0.954	0.952	0.945	0.924	0.908	0.938
Hotels and restaurants	0.909	0.889	0.826	0.857	0.870	0.863	0.853	0.867
Inland transport	1.157	1.059	1.094	1.064	1.061	1.044	1.029	1.060
Water transport	0.676	0.675	0.607	0.665	0.686	0.682	0.676	0.618
Air transport	0.755	0.726	0.684	0.724	0.736	0.731	0.723	0.679
Other supporting and auxiliary transport activities	0.869	0.975	1.010	0.979	0.965	0.955	1.000	1.056
Post and telecommunications	1.010	0.937	0.965	0.962	0.966	0.962	0.953	0.979
Financial intermediation	0.867	0.775	0.786	0.797	0.795	0.799	0.797	0.783
Real estate activities	1.030	0.924	0.952	0.927	0.908	0.867	0.850	0.815
Renting of M&Eq and other business activities	1.325	1.290	1.248	1.232	1.265	1.256	1.242	1.277
Public administration and defense; compulsory social security	0.696	0.689	0.625	0.679	0.697	0.693	0.687	0.639
Education	0.733	0.717	0.661	0.707	0.721	0.716	0.709	0.662
Health and social work	0.738	0.727	0.668	0.714	0.729	0.722	0.715	0.682
Other community, social, and personal services	0.807	0.745	0.733	0.759	0.762	0.752	0.752	0.738
Private households with employed persons	0.676	0.675	0.607	0.665	0.686	0.682	0.676	0.618
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

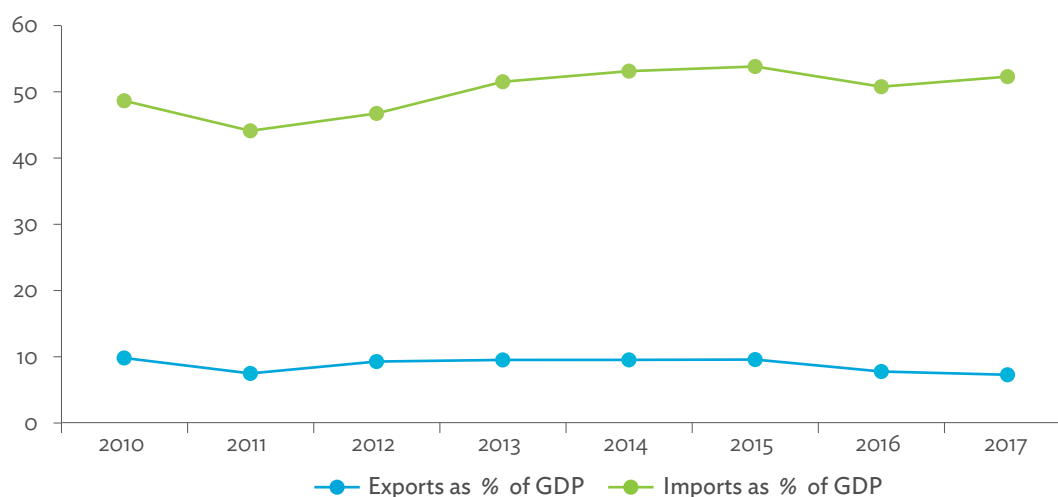
Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 7.3

### Nepal

**Figure 7.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

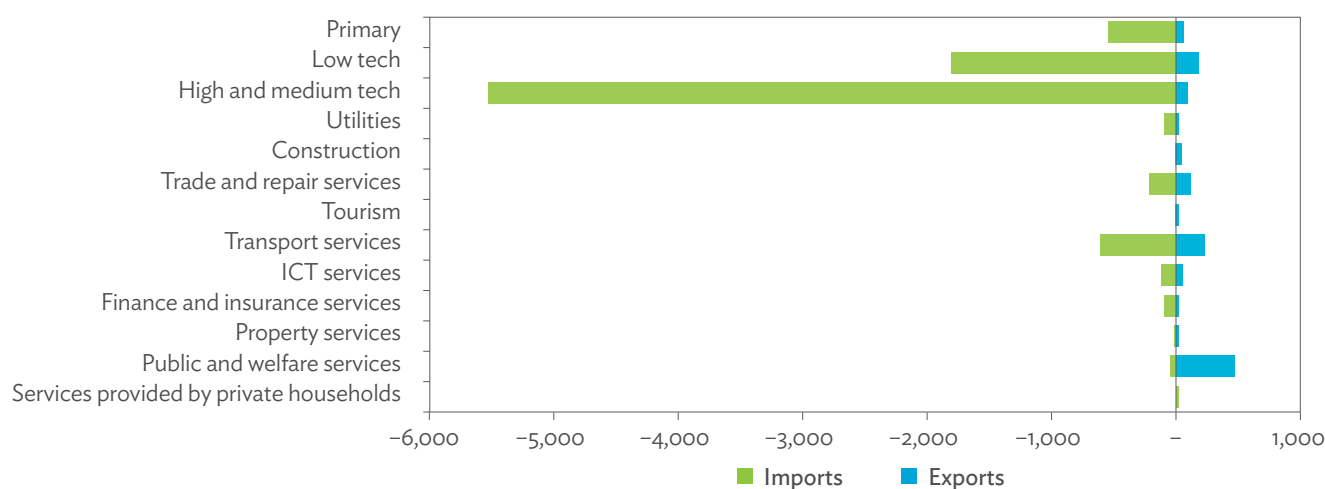


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

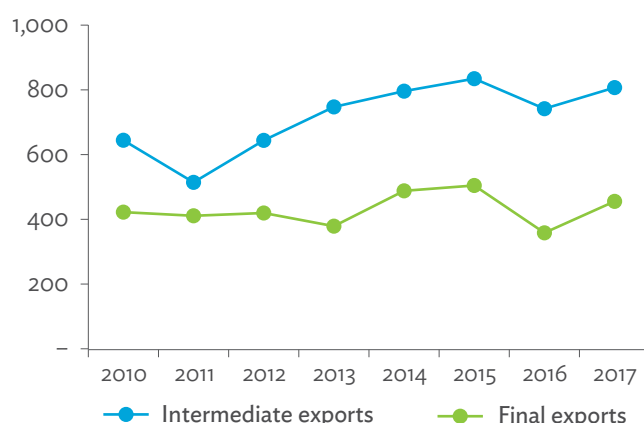


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

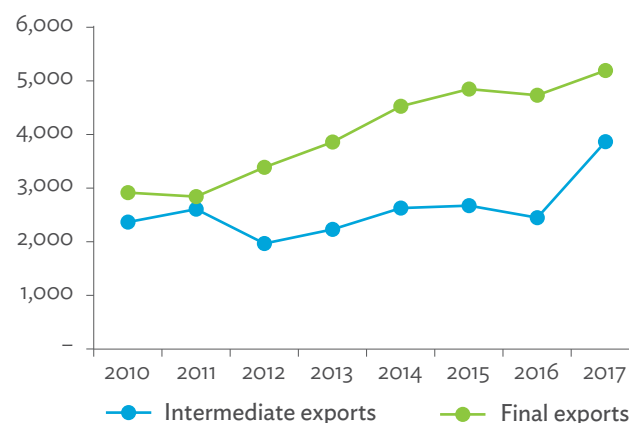


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**

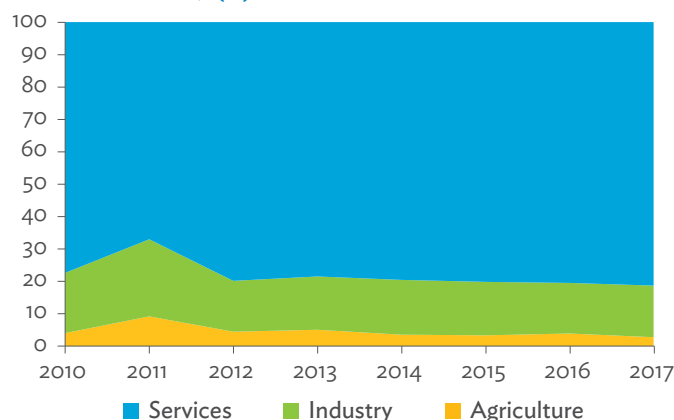


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

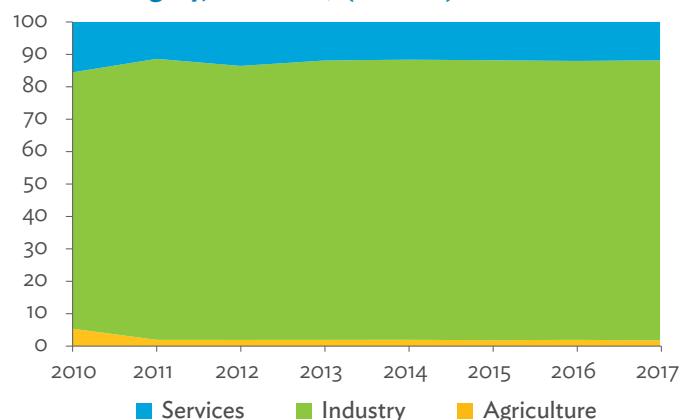
**Figure 7.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

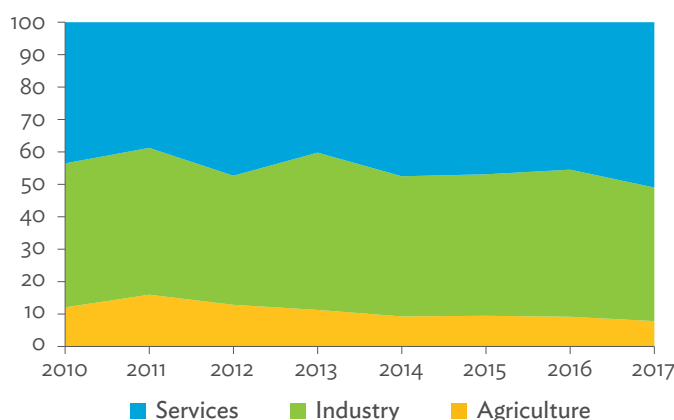
**Figure 7.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

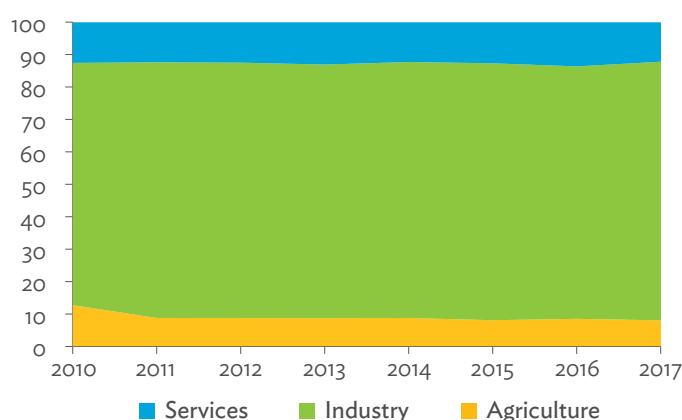
**Figure 7.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

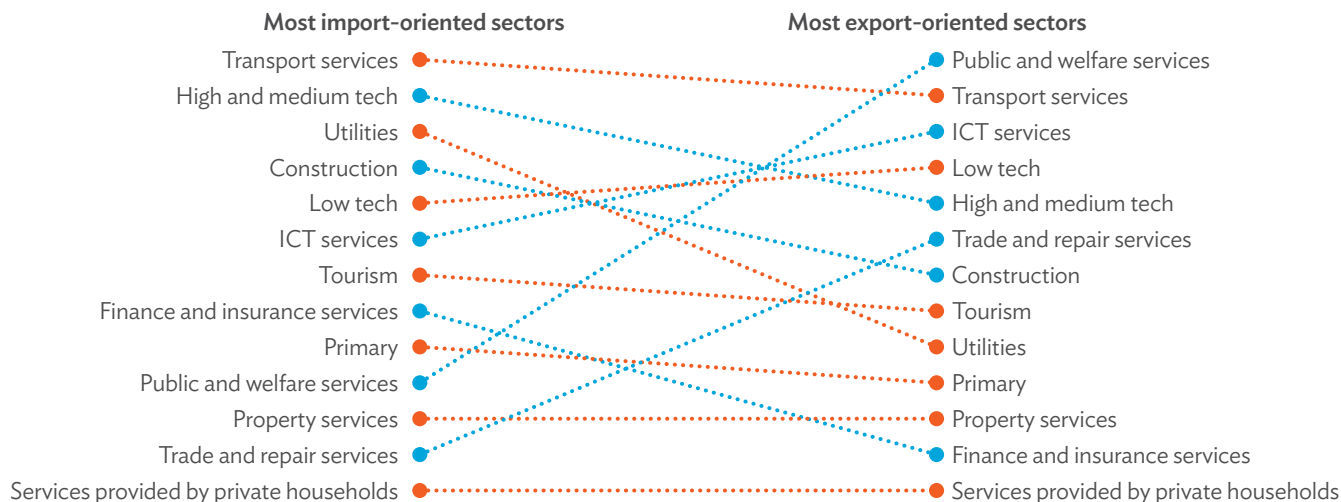
**Figure 7.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

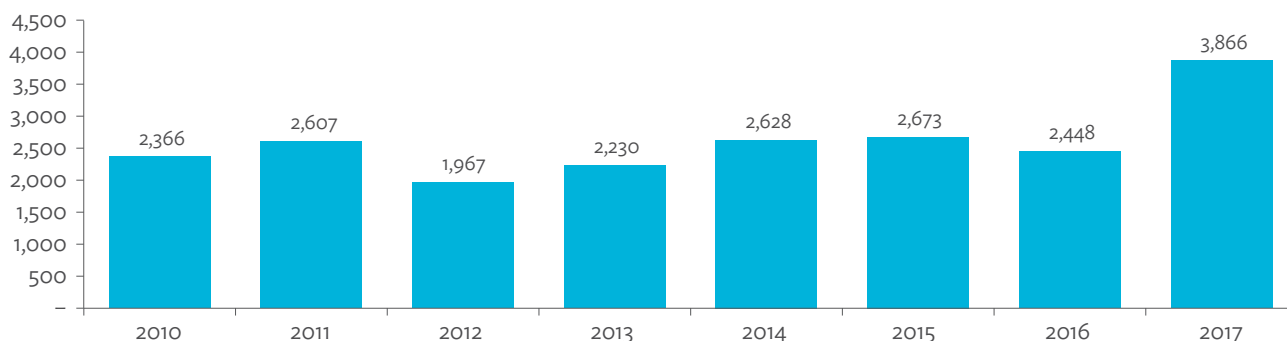


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

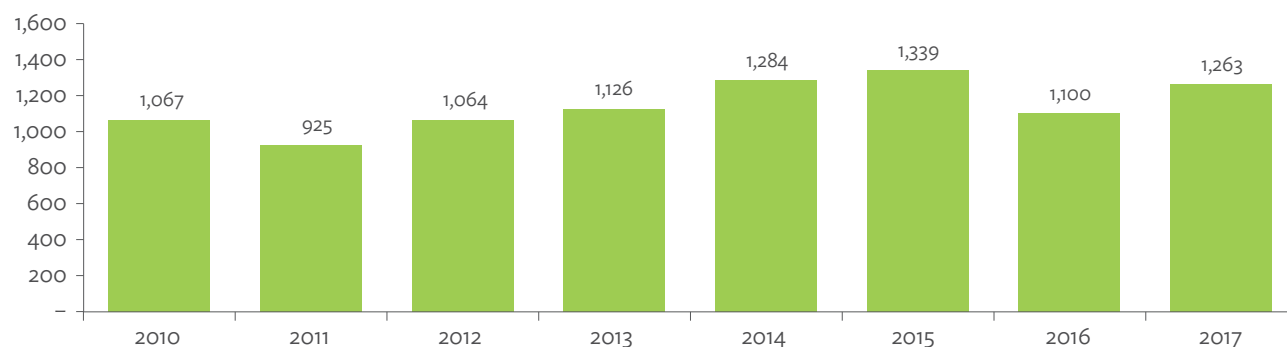


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

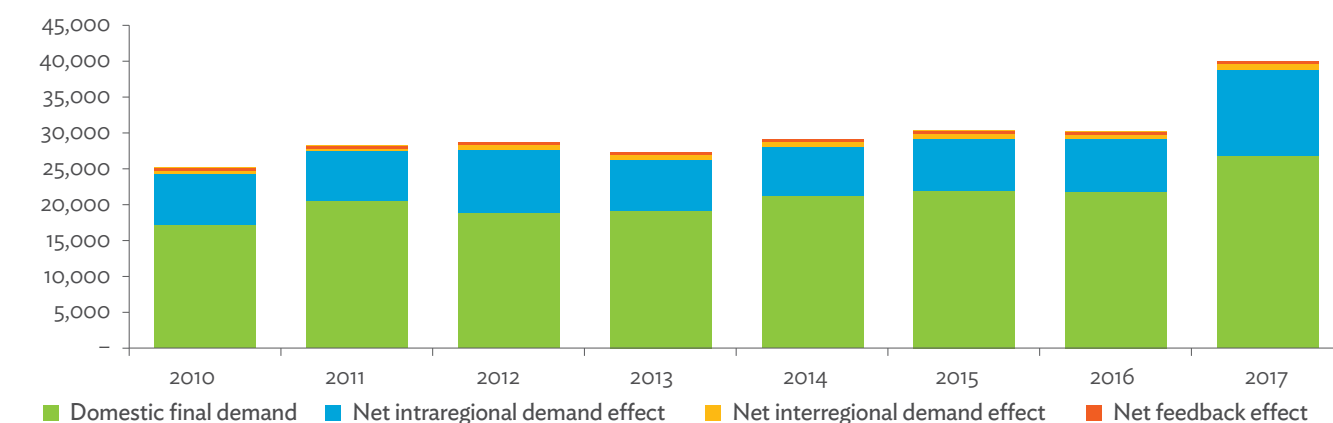


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

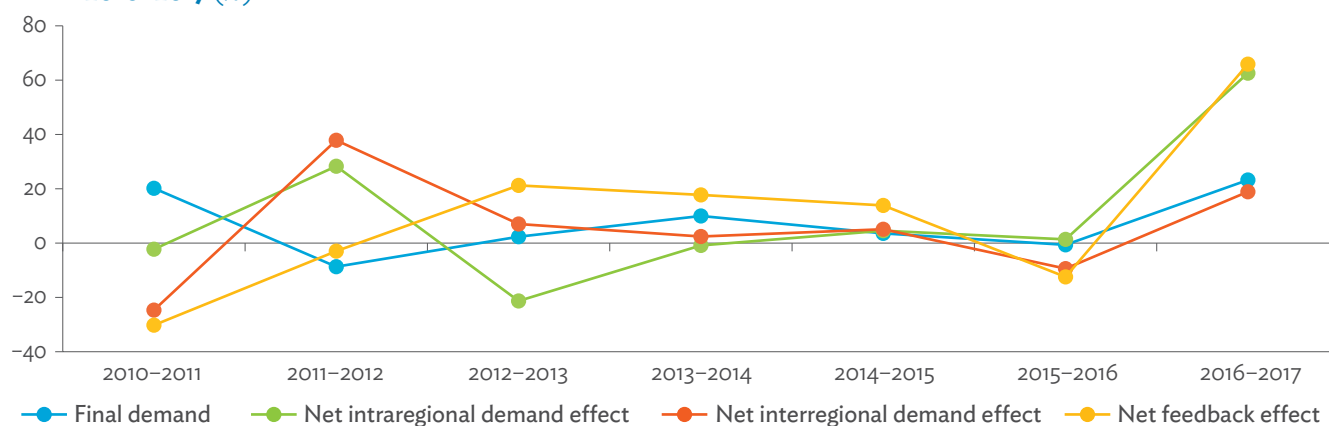


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

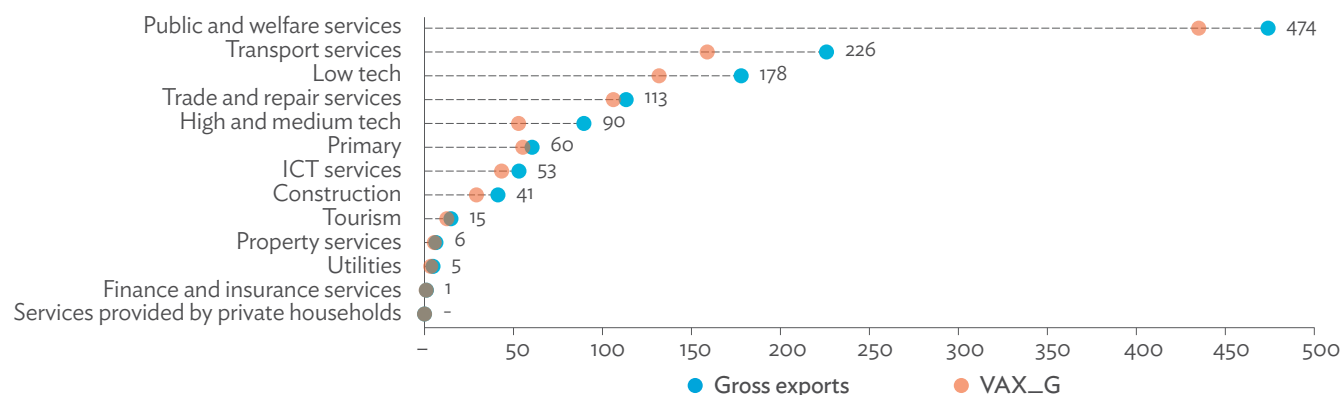
**Figure 7.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

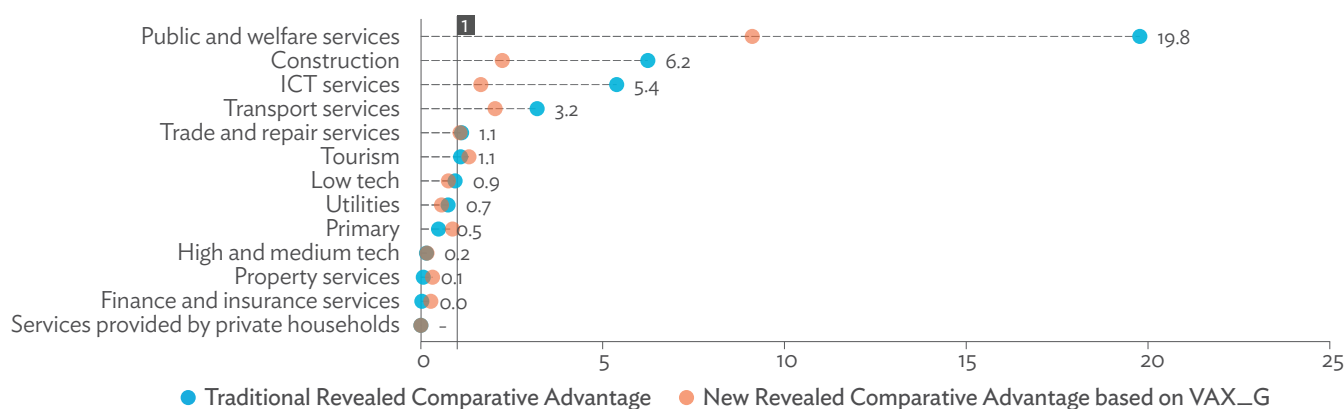


\$ = United States dollar; ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 7.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sector	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	4,955	7,082	5,875	5,791	6,269	6,143	5,960	6,698
Low tech	3,256	3,809	3,441	3,543	3,905	4,062	3,855	5,539
High and medium tech	507	437	297	410	488	447	386	397
Business service	5,555	6,482	5,993	6,449	7,246	7,728	7,881	9,416
Personal service	2,863	2,783	3,199	3,052	3,260	3,544	3,703	4,796
Intraregional effects (M1)								
Primary	1,689	1,505	2,081	1,596	1,484	1,727	1,881	2,720
Low tech	1,404	1,464	1,812	1,464	1,490	1,532	1,477	2,641
High and medium tech	784	1,012	1,163	980	1,008	1,067	1,057	1,680
Business service	3,003	2,804	3,593	2,789	2,810	2,782	2,776	4,548
Personal service	207	142	238	164	142	142	159	360

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	70	73	78	82	63	70	76	80
Low tech	121	101	133	136	131	137	123	155
High and medium tech	84	95	74	85	97	100	81	100
Business service	400	301	396	427	470	490	432	505
Personal service	278	149	308	330	325	344	322	389
Feedback effects (M3)								
Primary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Low tech	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01
High and medium tech	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.01
Business service	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.03
Personal service	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 7.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3006	0.2589	0.3498	0.2639	0.2506	0.2510	0.2535	0.3627
Mining and quarrying	0.2609	0.1627	0.3050	0.1897	0.1597	0.1625	0.1697	0.2621
Food, beverages, and tobacco	0.8644	0.8369	0.9552	0.8541	0.8201	0.8216	0.8155	1.0078
Textiles and textile products	0.6843	0.6010	0.7754	0.6435	0.5854	0.5944	0.6101	0.7551
Leather, leather products, and footwear	0.7536	0.6863	0.8350	0.7185	0.6707	0.6762	0.6857	0.8298
Wood and products of wood and cork	0.7831	0.7645	0.9025	0.7884	0.7415	0.7470	0.7488	0.9201
Pulp, paper, paper products, printing, and publishing	0.5801	0.4705	0.6652	0.5223	0.4518	0.4618	0.4819	0.6034
Coke, refined petroleum, and nuclear fuel	0.7320	0.6704	0.8656	0.7203	0.6501	0.6622	0.6857	0.8236
Chemicals and chemical products	0.5974	0.5012	0.6914	0.5521	0.4827	0.4914	0.5071	0.6408
Rubber and plastics	0.7066	0.6902	0.9083	0.7496	0.6612	0.6829	0.7135	0.8526
Other nonmetallic minerals	0.7289	0.6712	0.8516	0.7137	0.6506	0.6609	0.6805	0.8308
Basic metals and fabricated metal	0.6080	0.6517	0.9064	0.7247	0.6113	0.6269	0.6589	0.7811
Machinery, nec	0.4132	0.3705	0.5382	0.4056	0.3547	0.3616	0.3673	0.5066
Electrical and optical equipment	0.5440	0.5132	0.7703	0.5906	0.4838	0.4991	0.5360	0.6375
Transport equipment	0.5446	0.4915	0.7320	0.5570	0.4545	0.4602	0.4829	0.6037
Manufacturing, nec; recycling	0.7064	0.7208	0.9175	0.7682	0.6853	0.6961	0.7113	0.8582
Electricity, gas, and water supply	0.4305	0.4225	0.4962	0.4177	0.4078	0.4106	0.4601	0.6601
Construction	0.5211	0.4601	0.6619	0.5124	0.4427	0.4531	0.4670	0.6263
Sale, maintenance, and repair	0.3190	0.1894	0.3482	0.2258	0.1869	0.1876	0.1891	0.2402
Wholesale trade and commission trade	0.3207	0.1753	0.3442	0.2206	0.1803	0.1820	0.1824	0.2298
Retail trade	0.3006	0.1701	0.3291	0.2079	0.1678	0.1685	0.1730	0.2221
Hotels and restaurants	0.7035	0.8357	0.7591	0.7630	0.8252	0.8280	0.8532	0.9689
Inland transport	0.2952	0.1036	0.3296	0.1764	0.0997	0.1066	0.1437	0.1923
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.2984	0.1330	0.3478	0.1965	0.1291	0.1334	0.1652	0.2500
Other supporting and auxiliary transport activities	0.7105	0.6032	0.7886	0.6508	0.5885	0.5969	0.6301	0.9264
Post and telecommunications	0.6268	0.5380	0.6994	0.5749	0.5254	0.5268	0.5549	0.8646
Financial intermediation	0.2444	0.3125	0.3539	0.2927	0.3037	0.3060	0.2920	0.3645
Real estate activities	0.4860	0.3692	0.5294	0.4039	0.3623	0.3655	0.3352	0.3944
Renting of M&Eq and other business activities	0.5161	0.3982	0.5690	0.4395	0.3887	0.3948	0.3903	0.4431
Public administration and defense; compulsory social security	0.5457	0.2818	0.6389	0.4200	0.2798	0.2830	0.3572	0.2703
Education	0.4711	0.3176	0.5362	0.3857	0.3151	0.3162	0.3068	0.2325
Health and social work	0.4078	0.2403	0.4880	0.3219	0.2366	0.2420	0.3053	0.3967
Other community, social, and personal services	0.3739	0.3500	0.4145	0.3422	0.3423	0.3448	0.3562	0.4725
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.1961	0.1847	0.1488	0.1636	0.1812	0.1770	0.1620	0.2265
Mining and quarrying	0.2805	0.2524	0.2322	0.2447	0.2505	0.2533	0.2361	0.3401
Food, beverages, and tobacco	0.3720	0.3547	0.2778	0.3190	0.3498	0.3401	0.3065	0.3933
Textiles and textile products	0.6756	0.7430	0.5942	0.6835	0.7295	0.7269	0.6685	0.7866
Leather, leather products, and footwear	0.5673	0.6367	0.4959	0.5808	0.6312	0.6209	0.5657	0.6694
Wood and products of wood and cork	0.5603	0.5824	0.4544	0.5285	0.5701	0.5603	0.5079	0.6232
Pulp, paper, paper products, printing, and publishing	0.7229	0.8206	0.6612	0.7540	0.8003	0.7930	0.7251	0.8598
Coke, refined petroleum, and nuclear fuel	0.7783	0.8085	0.6626	0.7594	0.8051	0.8088	0.7564	0.8853
Chemicals and chemical products	0.7543	0.8614	0.6841	0.7896	0.8475	0.8375	0.7632	0.8952
Rubber and plastics	0.9506	0.9441	0.7723	0.8725	0.9192	0.9302	0.8703	1.0045
Other nonmetallic minerals	0.7209	0.7549	0.6160	0.7043	0.7513	0.7568	0.7089	0.8369
Basic metals and fabricated metal	1.3179	1.3044	1.0779	1.2091	1.2566	1.2650	1.1717	1.3129
Machinery, nec	0.6063	0.6064	0.5054	0.5619	0.5863	0.5863	0.5284	0.6822
Electrical and optical equipment	1.2827	1.3519	1.1055	1.2515	1.3121	1.3185	1.2213	1.3520
Transport equipment	1.0752	1.1488	0.9306	1.0534	1.0855	1.0956	1.0053	1.1496
Manufacturing, nec; recycling	0.9538	0.9745	0.7763	0.8902	0.9431	0.9404	0.8615	0.9909
Electricity, gas, and water supply	0.5067	0.5852	0.4707	0.5368	0.5707	0.5655	0.5650	0.7655
Construction	0.7167	0.6992	0.5907	0.6571	0.6904	0.6955	0.6407	0.8183
Sale, maintenance, and repair	0.1359	0.1021	0.1116	0.1022	0.1017	0.1029	0.0960	0.1246
Wholesale trade and commission trade	0.1398	0.1171	0.1190	0.1070	0.1050	0.1051	0.1003	0.1309
Retail trade	0.1825	0.1395	0.1588	0.1424	0.1380	0.1390	0.1326	0.1707
Hotels and restaurants	0.3123	0.3661	0.2623	0.3181	0.3645	0.3540	0.3331	0.3973
Inland transport	0.7562	0.9318	0.7533	0.8683	0.9197	0.9322	0.9092	1.0345
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.4387	0.4707	0.4021	0.4472	0.4599	0.4612	0.4679	0.6055
Other supporting and auxiliary transport activities	0.4413	0.4389	0.3729	0.4109	0.4297	0.4292	0.4167	0.5893
Post and telecommunications	0.3327	0.3166	0.2643	0.2933	0.3121	0.3031	0.2922	0.4576
Financial intermediation	0.1667	0.2405	0.1866	0.2133	0.2392	0.2394	0.2082	0.2511
Real estate activities	0.2311	0.1720	0.1850	0.1726	0.1686	0.1669	0.1382	0.1833
Renting of M&Eq and other business activities	0.4052	0.4224	0.3552	0.3956	0.4196	0.4186	0.3729	0.3961
Public administration and defense; compulsory social security	0.2848	0.1708	0.1870	0.1821	0.1714	0.1693	0.1948	0.1455
Education	0.1929	0.1430	0.1458	0.1431	0.1424	0.1379	0.1212	0.0975
Health and social work	0.3913	0.3845	0.3428	0.3715	0.3864	0.3865	0.4330	0.5281
Other community, social, and personal services	0.1918	0.1968	0.1563	0.1722	0.1936	0.1936	0.1846	0.2411
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Machinery, nec	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electrical and optical equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Transport equipment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	79	73	115	107	84	79	30	28	76	71	79	73	64	60	60	55
Low tech	182	138	169	127	157	126	175	135	197	149	204	155	158	123	178	132
High and medium tech	83	50	96	57	59	39	111	71	100	61	103	63	80	51	90	53
Utilities	3	2	4	3	3	2	13	11	4	3	4	3	3	3	5	3
Construction	37	27	37	28	47	37	32	25	41	31	44	33	35	27	41	29
Trade and repair services	109	101	98	93	115	108	78	74	152	144	159	150	125	119	113	106
Tourism	6	6	6	5	9	8	9	8	11	10	13	11	11	9	15	13
Transport services	195	149	162	119	170	132	216	161	237	175	245	182	201	150	226	159
ICT services	36	31	34	30	34	31	36	32	50	44	50	44	41	36	53	43
Finance and insurance services	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Property services	7	6	5	4	6	5	31	26	7	6	8	7	7	6	6	5
Public and welfare services	328	298	196	182	378	353	393	367	407	378	429	399	374	347	474	435
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 7.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.680	0.953	1.023	1.051	0.649	0.881	0.232	0.570	0.548	0.719	0.606	0.830	0.616	0.902	0.485	0.870
Low tech	1.185	0.932	1.289	1.082	1.049	0.874	1.068	0.924	1.034	0.884	1.017	0.887	0.965	0.874	0.941	0.756
High and medium tech	0.166	0.167	0.222	0.245	0.120	0.153	0.215	0.238	0.169	0.198	0.165	0.199	0.158	0.200	0.154	0.169
Utilities	0.619	0.608	0.931	0.561	0.578	0.551	2.559	0.795	0.679	0.564	0.620	0.519	0.488	0.479	0.748	0.568
Construction	8.793	3.287	10.508	3.426	10.972	3.779	5.355	2.567	6.218	2.721	6.226	2.714	5.122	2.472	6.242	2.239
Trade and repair services	1.311	1.255	1.374	1.345	1.361	1.240	0.881	0.995	1.506	1.331	1.478	1.270	1.413	1.209	1.120	1.078
Tourism	0.575	1.005	0.639	0.666	0.788	1.046	0.779	0.919	0.820	0.740	0.893	0.766	0.799	0.701	1.093	1.322
Transport services	3.060	2.207	3.147	2.415	2.816	2.057	3.463	2.515	3.311	2.503	3.240	2.413	3.267	2.369	3.198	2.042
ICT services	5.046	1.984	5.894	2.353	4.666	1.955	4.646	2.095	5.599	2.440	5.362	2.295	5.088	2.066	5.385	1.648
Finance and insurance services	0.029	0.234	0.043	0.142	0.041	0.233	0.022	0.171	0.023	0.133	0.021	0.123	0.022	0.144	0.027	0.273
Property services	0.102	0.397	0.088	0.310	0.093	0.394	0.403	0.450	0.083	0.295	0.081	0.273	0.087	0.296	0.066	0.321
Public and welfare services	16.451	7.358	12.170	5.720	19.722	8.259	18.204	8.706	16.661	7.918	16.094	7.673	16.049	7.550	19.775	9.114
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

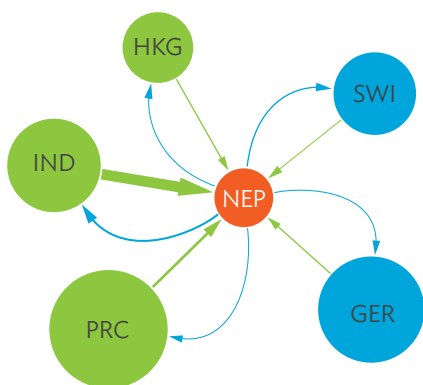
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 7.4

## GLOBAL VALUE CHAIN INDICATORS

### Nepal

**Figure 7.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**

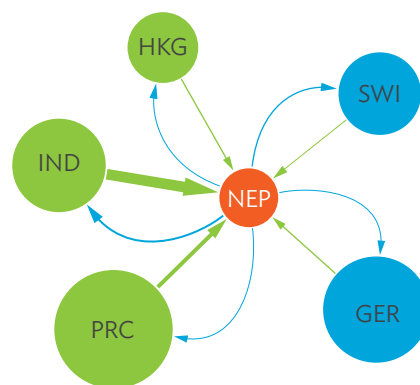


● Economy in focus ● Import partner ● Export partner

GER = Germany; HKG = Hong Kong, China; IND = India; NEP = Nepal; PRC = People's Republic of China; SWI = Switzerland.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

GER = Germany; HKG = Hong Kong, China; IND = India; NEP = Nepal; PRC = People's Republic of China; SWI = Switzerland.  
Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

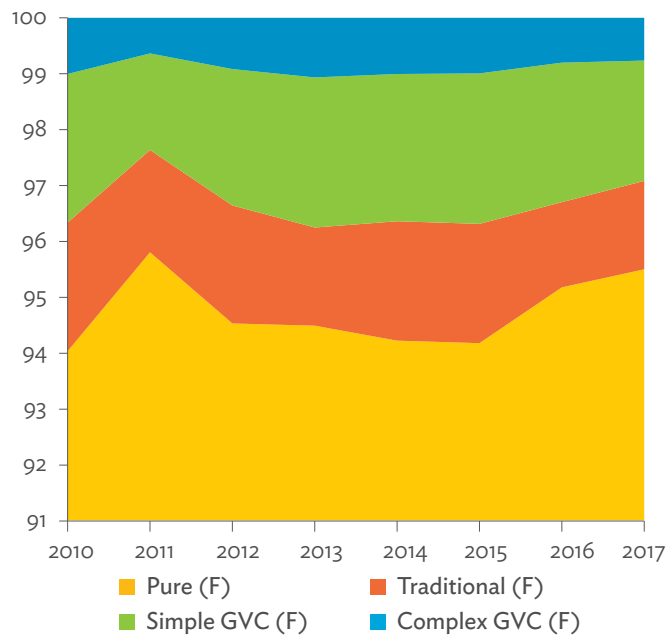
[Click here for figure data](#)

**Figure 7.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

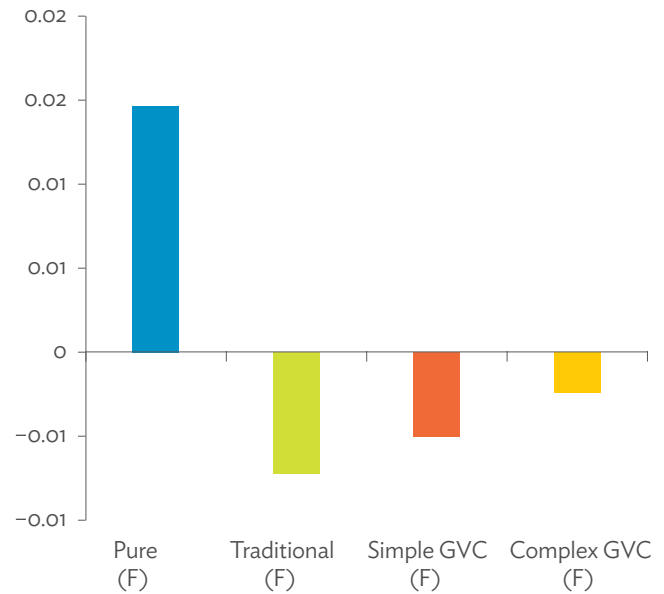
[Click here for figure data](#)

**Figure 7.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

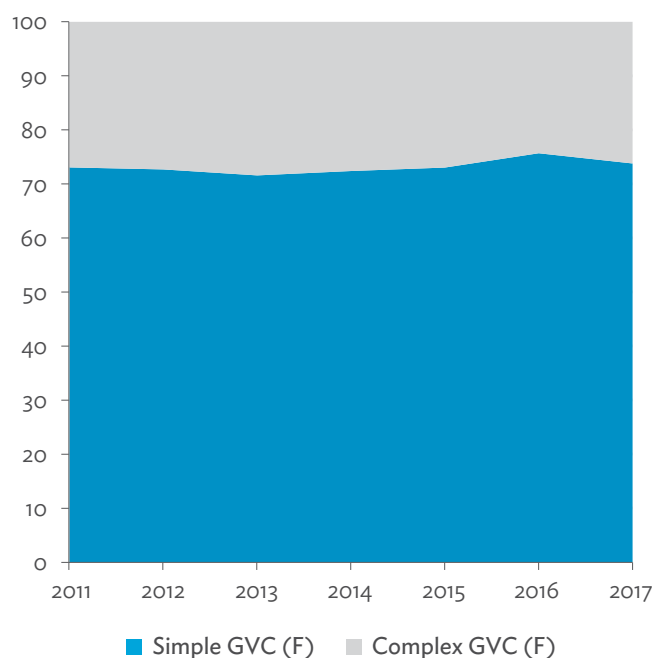
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

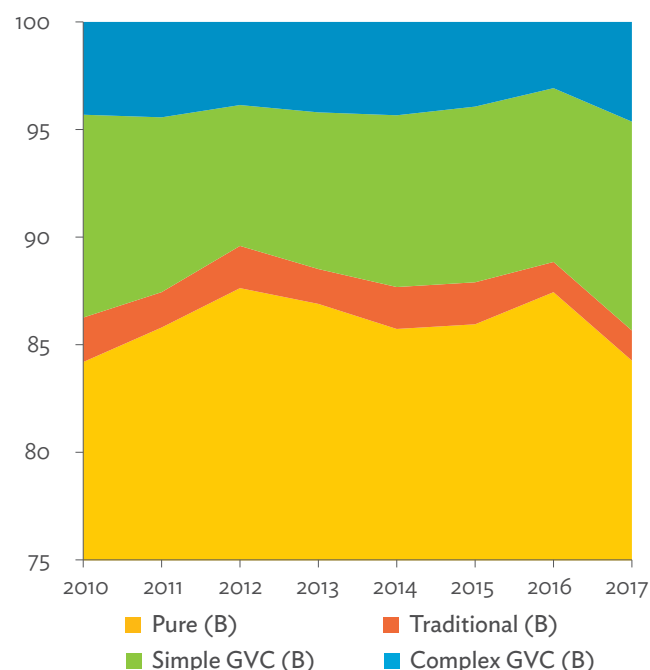


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

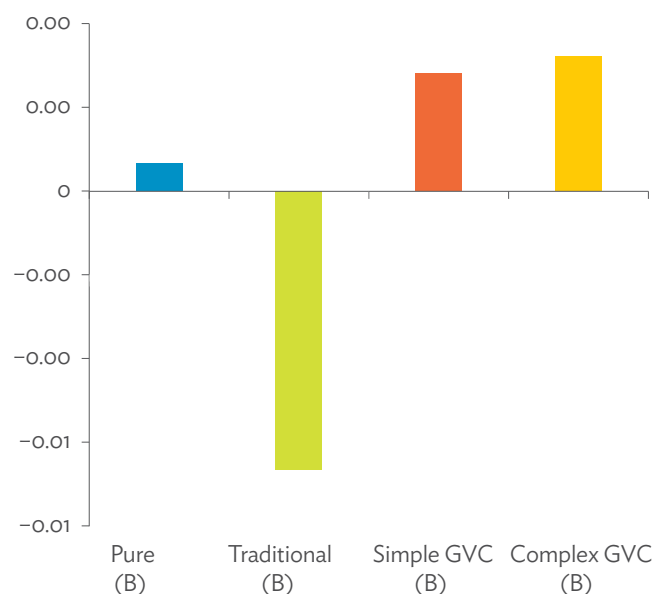


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



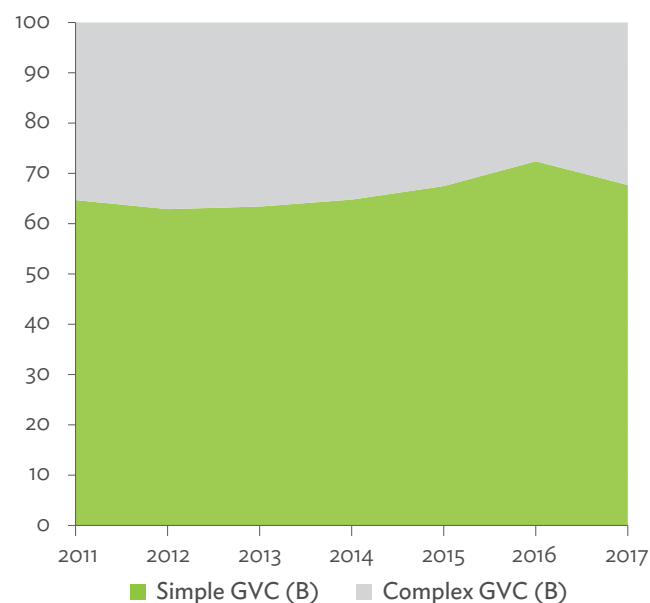
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

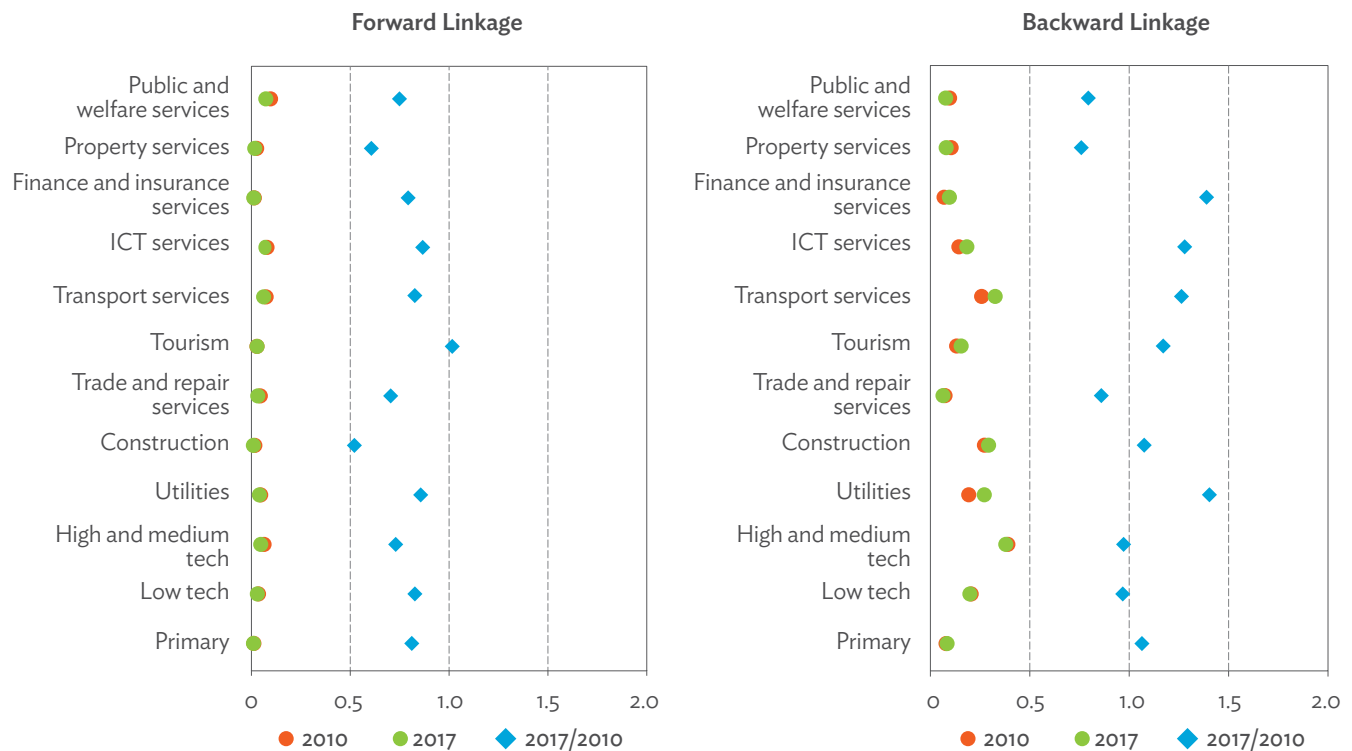


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 7.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

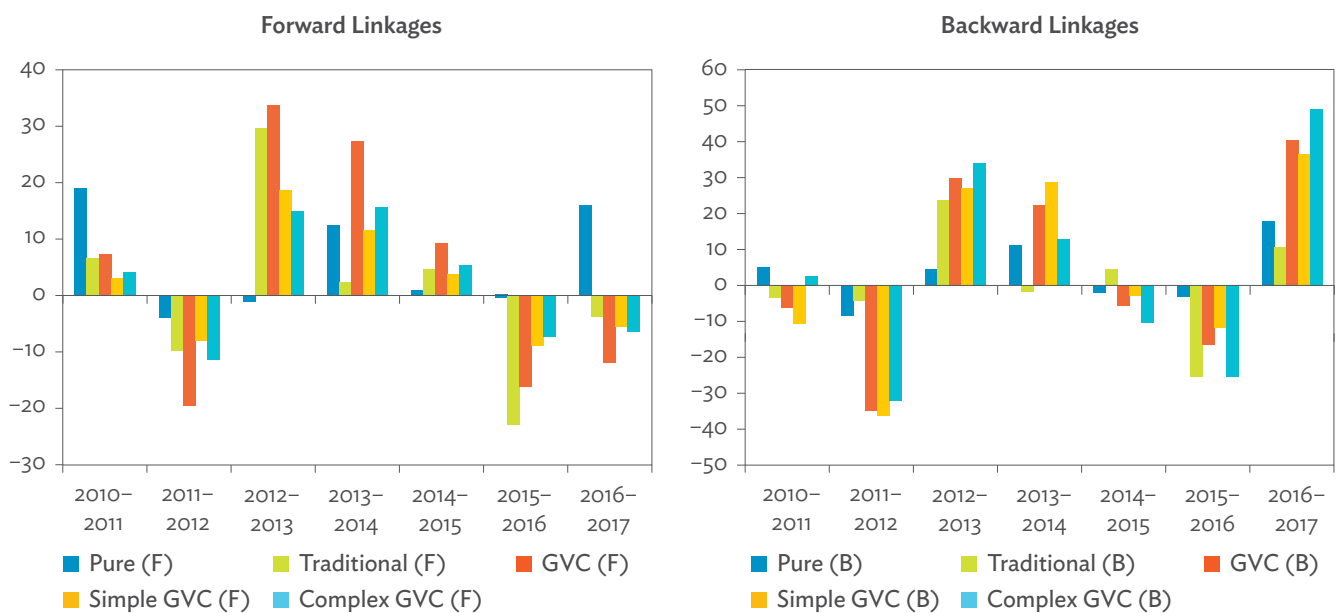


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 7.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

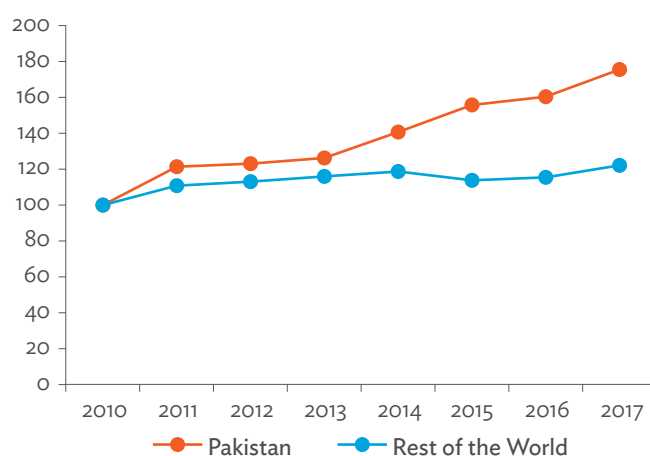


# 8.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Pakistan

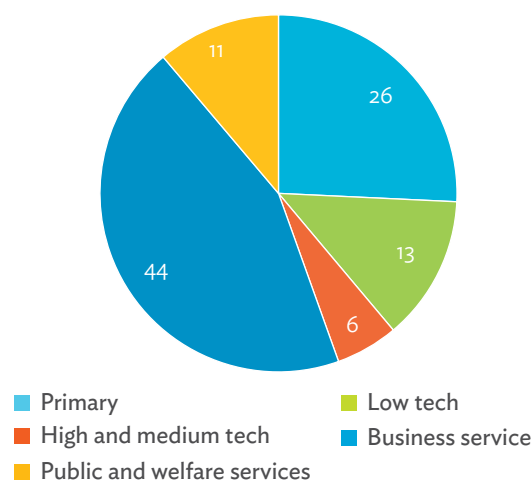
**Figure 8.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

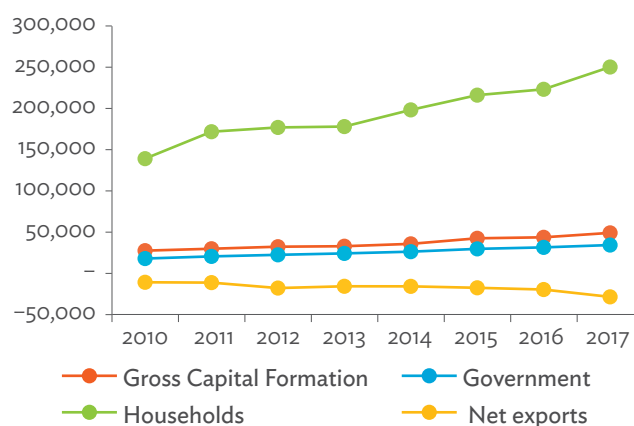
**Figure 8.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

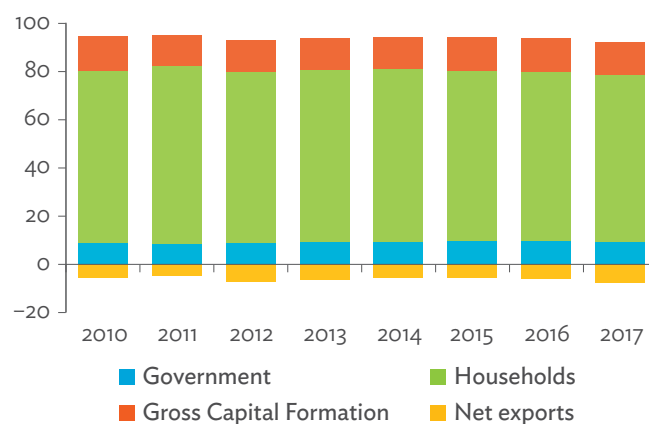


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

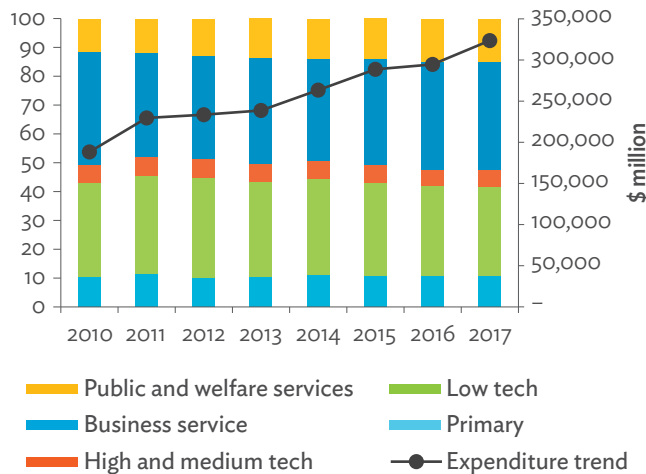
**Figure 8.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

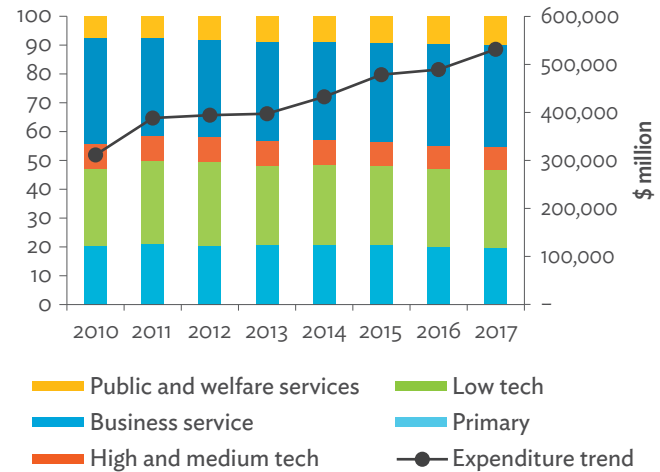


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

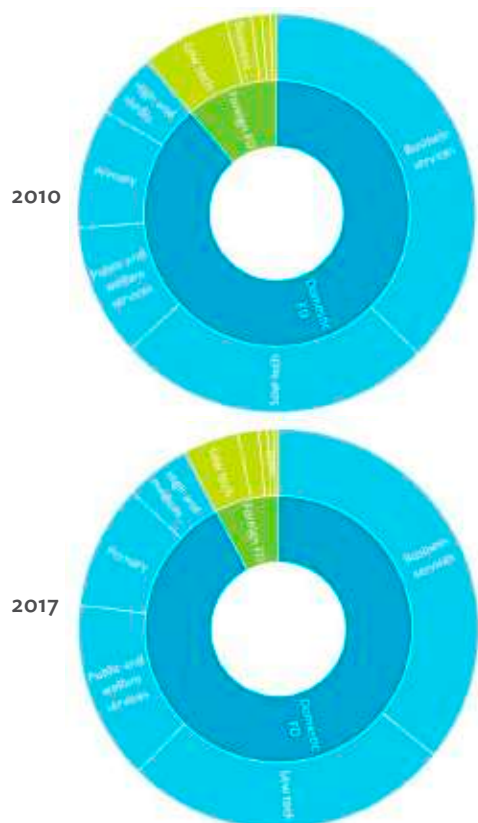


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

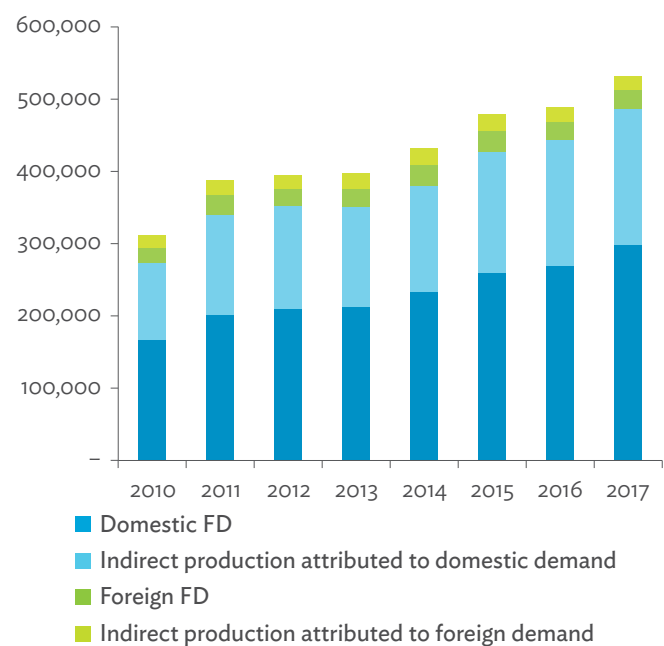


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**

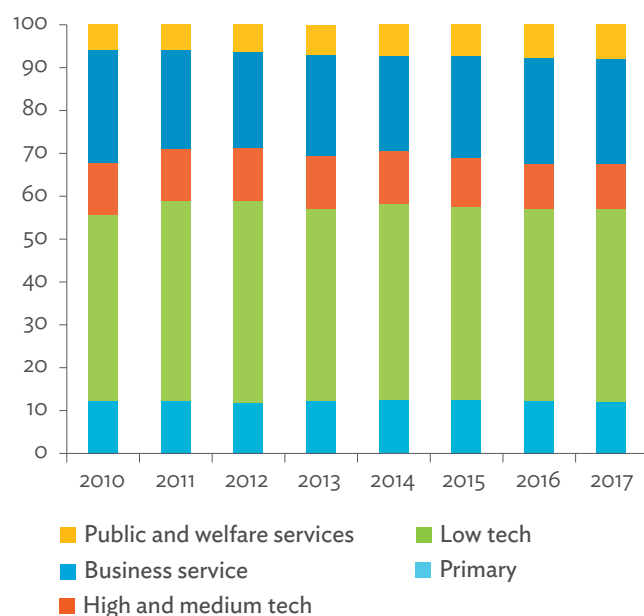


\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

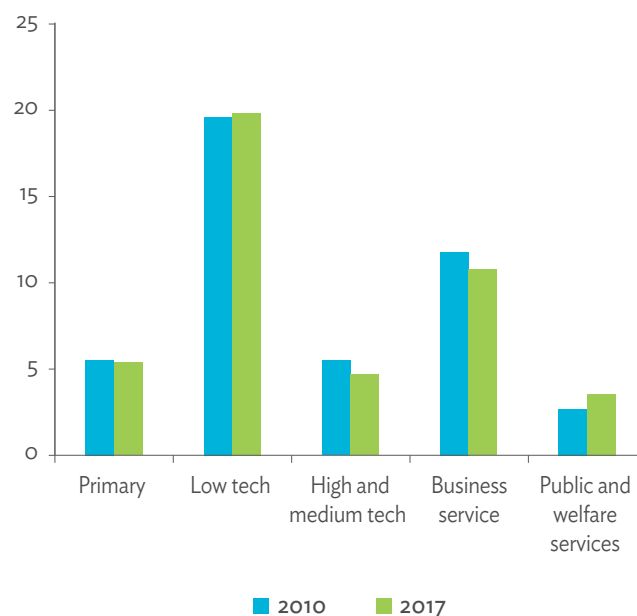
**Figure 8.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

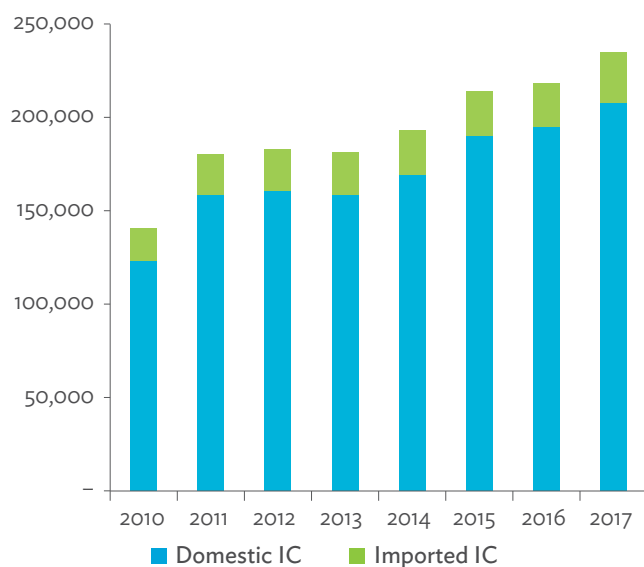
**Figure 8.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

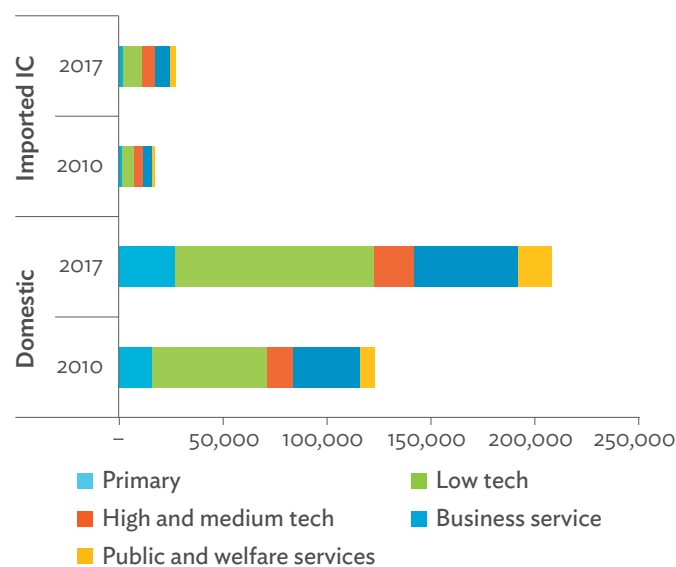


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

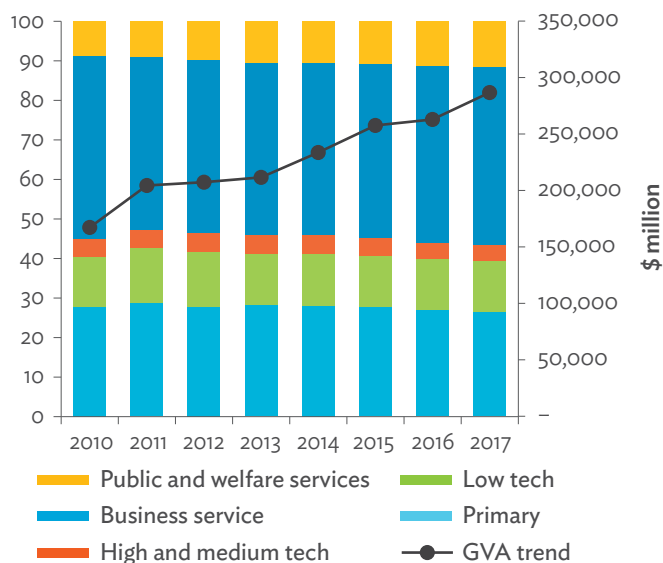


\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

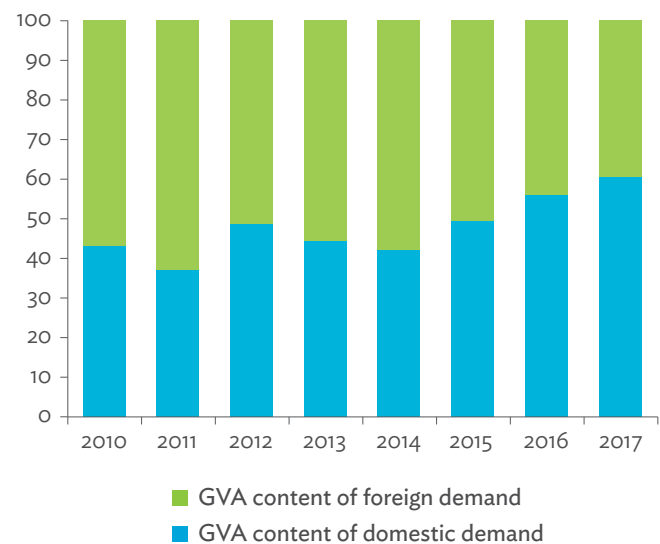


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

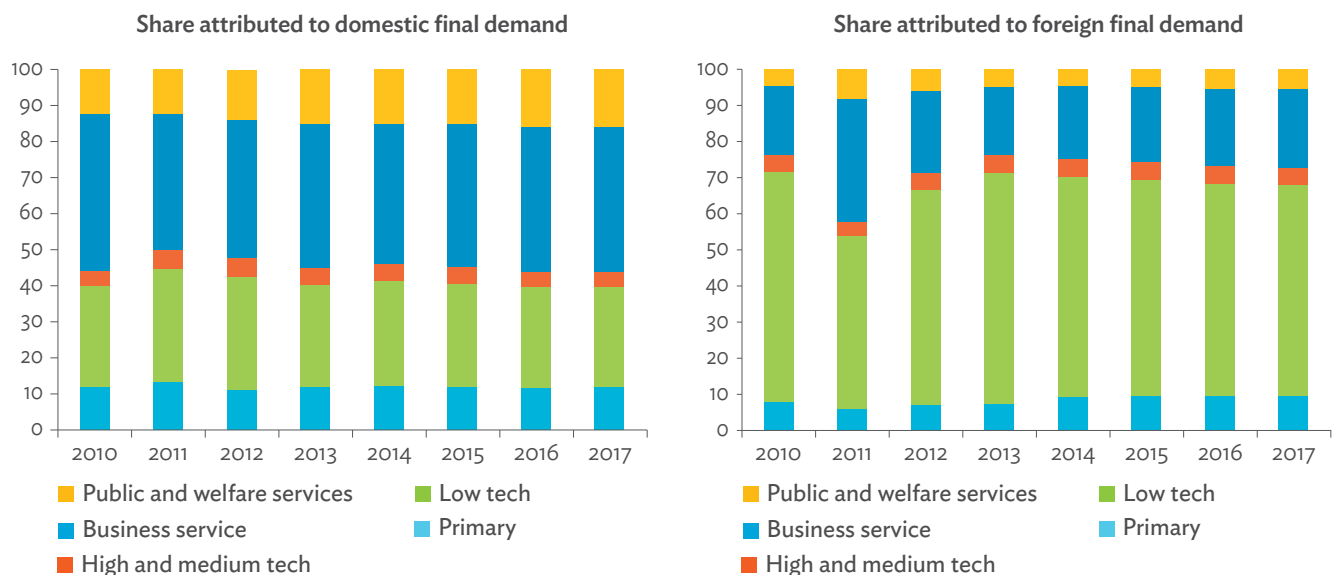


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 8.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.961	0.964	0.962	0.961	0.962	0.965	0.965	0.963
Mining and quarrying	0.979	0.978	0.979	0.978	0.977	0.978	0.978	0.976
Food, beverages, and tobacco	0.926	0.930	0.928	0.926	0.925	0.930	0.931	0.926
Textiles and textile products	0.914	0.919	0.917	0.914	0.917	0.923	0.925	0.920
Leather, leather products, and footwear	0.914	0.917	0.914	0.912	0.911	0.916	0.915	0.910
Wood and products of wood and cork	0.851	0.861	0.859	0.853	0.848	0.854	0.852	0.844
Pulp, paper, paper products, printing, and publishing	0.860	0.869	0.868	0.862	0.856	0.863	0.861	0.853
Coke, refined petroleum, and nuclear fuel	0.568	0.589	0.589	0.566	0.543	0.545	0.522	0.499
Chemicals and chemical products	0.808	0.816	0.814	0.808	0.803	0.815	0.818	0.806
Rubber and plastics	0.749	0.760	0.757	0.751	0.743	0.761	0.764	0.749
Other nonmetallic minerals	0.797	0.813	0.812	0.800	0.796	0.800	0.792	0.781
Basic metals and fabricated metal	0.703	0.722	0.719	0.706	0.697	0.707	0.700	0.683
Machinery, nec	0.736	0.750	0.748	0.737	0.732	0.750	0.750	0.735
Electrical and optical equipment	0.613	0.630	0.627	0.616	0.606	0.630	0.630	0.610
Transport equipment	0.537	0.557	0.553	0.542	0.531	0.558	0.558	0.536
Manufacturing, nec; recycling	0.752	0.775	0.774	0.759	0.744	0.746	0.732	0.720
Electricity, gas, and water supply	0.699	0.738	0.741	0.702	0.745	0.754	0.755	0.738
Construction	0.807	0.798	0.802	0.797	0.780	0.791	0.788	0.775
Sale, maintenance, and repair	0.893	0.897	0.897	0.893	0.887	0.893	0.891	0.885
Wholesale trade and commission trade	0.963	0.963	0.964	0.963	0.961	0.963	0.962	0.960
Retail trade	0.931	0.934	0.933	0.931	0.928	0.931	0.930	0.926
Hotels and restaurants	0.892	0.897	0.896	0.891	0.894	0.900	0.900	0.894
Inland transport	0.865	0.853	0.842	0.848	0.844	0.855	0.858	0.849
Water transport	0.855	0.847	0.836	0.839	0.834	0.844	0.845	0.835
Air transport	0.840	0.830	0.818	0.822	0.816	0.827	0.828	0.818
Other supporting and auxiliary transport activities	0.964	0.961	0.959	0.960	0.959	0.962	0.963	0.961
Post and telecommunications	0.947	0.944	0.939	0.940	0.939	0.942	0.942	0.939
Financial intermediation	0.976	0.976	0.974	0.970	0.974	0.975	0.975	0.974
Real estate activities	0.996	0.996	0.995	0.995	0.995	0.996	0.996	0.995
Renting of M&Eq and other business activities	0.980	0.980	0.981	0.980	0.979	0.980	0.980	0.979
Public administration and defense; compulsory social security	0.866	0.872	0.875	0.878	0.866	0.876	0.879	0.871
Education	0.975	0.976	0.977	0.977	0.976	0.978	0.979	0.977
Health and social work	0.893	0.891	0.894	0.894	0.886	0.895	0.897	0.890
Other community, social, and personal services	0.974	0.975	0.976	0.975	0.974	0.975	0.975	0.974
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.034	0.033	0.035	0.035	0.034	0.030	0.029	0.031
Mining and quarrying	0.017	0.018	0.017	0.017	0.018	0.016	0.015	0.016
Food, beverages, and tobacco	0.063	0.061	0.063	0.064	0.063	0.057	0.054	0.058
Textiles and textile products	0.082	0.078	0.080	0.082	0.079	0.072	0.069	0.074
Leather, leather products, and footwear	0.069	0.070	0.072	0.072	0.070	0.064	0.061	0.065
Wood and products of wood and cork	0.110	0.108	0.110	0.112	0.109	0.098	0.092	0.099
Pulp, paper, paper products, printing, and publishing	0.103	0.101	0.103	0.104	0.102	0.092	0.086	0.092
Coke, refined petroleum, and nuclear fuel	0.251	0.262	0.265	0.266	0.245	0.222	0.202	0.213
Chemicals and chemical products	0.160	0.157	0.161	0.162	0.160	0.144	0.136	0.145
Rubber and plastics	0.213	0.209	0.213	0.214	0.214	0.193	0.181	0.194
Other nonmetallic minerals	0.139	0.136	0.138	0.141	0.132	0.121	0.114	0.121
Basic metals and fabricated metal	0.208	0.207	0.211	0.212	0.203	0.183	0.171	0.182
Machinery, nec	0.209	0.206	0.210	0.213	0.207	0.184	0.173	0.185
Electrical and optical equipment	0.304	0.303	0.307	0.307	0.301	0.268	0.250	0.266
Transport equipment	0.367	0.366	0.371	0.370	0.362	0.324	0.302	0.321
Manufacturing, nec; recycling	0.135	0.134	0.137	0.136	0.128	0.114	0.104	0.110
Electricity, gas, and water supply	0.285	0.248	0.246	0.283	0.236	0.225	0.221	0.236
Construction	0.144	0.158	0.156	0.154	0.157	0.141	0.132	0.141
Sale, maintenance, and repair	0.078	0.078	0.080	0.080	0.078	0.070	0.066	0.070
Wholesale trade and commission trade	0.027	0.029	0.028	0.028	0.027	0.024	0.023	0.024
Retail trade	0.050	0.050	0.051	0.051	0.051	0.045	0.042	0.045
Hotels and restaurants	0.097	0.093	0.094	0.099	0.093	0.086	0.083	0.088
Inland transport	0.112	0.127	0.139	0.131	0.129	0.116	0.109	0.117
Water transport	0.113	0.126	0.136	0.129	0.127	0.114	0.107	0.115
Air transport	0.126	0.139	0.151	0.143	0.140	0.126	0.119	0.127
Other supporting and auxiliary transport activities	0.030	0.034	0.037	0.035	0.034	0.031	0.029	0.031
Post and telecommunications	0.041	0.046	0.050	0.048	0.046	0.042	0.039	0.042
Financial intermediation	0.020	0.021	0.022	0.025	0.022	0.019	0.018	0.020
Real estate activities	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.004
Renting of M&Eq and other business activities	0.017	0.017	0.017	0.017	0.017	0.016	0.015	0.016
Public administration and defense; compulsory social security	0.123	0.119	0.116	0.112	0.121	0.111	0.105	0.112
Education	0.025	0.023	0.023	0.023	0.023	0.022	0.021	0.022
Health and social work	0.097	0.101	0.099	0.097	0.103	0.094	0.089	0.095
Other community, social, and personal services	0.022	0.021	0.021	0.021	0.021	0.019	0.018	0.020
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.372	1.375	1.374	1.373	1.369	1.374	1.375	1.370
Mining and quarrying	1.225	1.229	1.229	1.227	1.223	1.226	1.226	1.223
Food, beverages, and tobacco	2.023	2.030	2.028	2.025	2.018	2.026	2.027	2.018
Textiles and textile products	2.027	2.049	2.043	2.035	2.030	2.047	2.058	2.046
Leather, leather products, and footwear	1.965	1.973	1.971	1.967	1.952	1.964	1.966	1.955
Wood and products of wood and cork	1.859	1.873	1.871	1.863	1.837	1.851	1.847	1.829
Pulp, paper, paper products, printing, and publishing	1.775	1.787	1.785	1.779	1.756	1.766	1.759	1.742
Coke, refined petroleum, and nuclear fuel	1.698	1.816	1.805	1.764	1.706	1.752	1.742	1.700
Chemicals and chemical products	1.844	1.860	1.856	1.849	1.827	1.846	1.844	1.822
Rubber and plastics	1.868	1.884	1.880	1.872	1.849	1.870	1.870	1.843
Other nonmetallic minerals	1.629	1.670	1.662	1.643	1.616	1.644	1.645	1.621
Basic metals and fabricated metal	1.786	1.831	1.823	1.801	1.764	1.797	1.795	1.762
Machinery, nec	1.971	1.996	1.991	1.975	1.943	1.973	1.975	1.945
Electrical and optical equipment	1.740	1.766	1.761	1.747	1.706	1.736	1.734	1.694
Transport equipment	1.729	1.758	1.752	1.736	1.690	1.726	1.727	1.680
Manufacturing, nec; recycling	1.683	1.708	1.707	1.691	1.640	1.647	1.623	1.597
Electricity, gas, and water supply	2.264	2.561	2.495	2.372	2.434	2.530	2.592	2.554
Construction	1.845	1.850	1.852	1.842	1.804	1.820	1.817	1.794
Sale, maintenance, and repair	1.462	1.467	1.466	1.463	1.445	1.451	1.448	1.436
Wholesale trade and commission trade	1.160	1.160	1.161	1.160	1.154	1.156	1.155	1.151
Retail trade	1.298	1.301	1.300	1.298	1.287	1.291	1.288	1.281
Hotels and restaurants	1.989	2.031	2.022	2.006	2.000	2.024	2.036	2.019
Inland transport	1.641	1.653	1.643	1.644	1.628	1.645	1.647	1.631
Water transport	1.793	1.798	1.786	1.786	1.765	1.785	1.787	1.769
Air transport	1.880	1.885	1.869	1.870	1.848	1.870	1.873	1.852
Other supporting and auxiliary transport activities	1.436	1.439	1.437	1.436	1.432	1.437	1.438	1.434
Post and telecommunications	1.560	1.564	1.560	1.558	1.550	1.556	1.556	1.550
Financial intermediation	1.239	1.240	1.240	1.238	1.235	1.238	1.238	1.235
Real estate activities	1.047	1.048	1.047	1.047	1.047	1.047	1.047	1.047
Renting of M&Eq and other business activities	1.206	1.210	1.209	1.207	1.205	1.208	1.209	1.206
Public administration and defense; compulsory social security	1.652	1.673	1.672	1.668	1.649	1.670	1.678	1.660
Education	1.188	1.196	1.194	1.191	1.190	1.196	1.200	1.196
Health and social work	1.413	1.424	1.422	1.419	1.405	1.422	1.429	1.414
Other community, social, and personal services	1.256	1.261	1.260	1.258	1.255	1.259	1.260	1.257
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

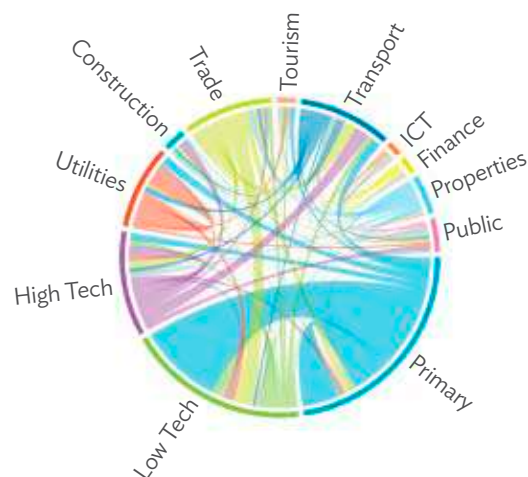
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

## 8.2

### Pakistan

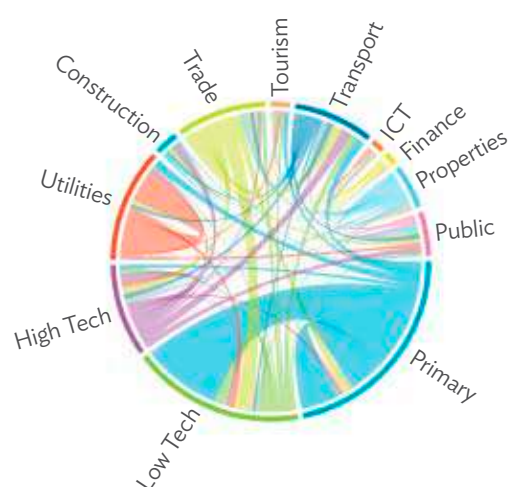
**Figure 8.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

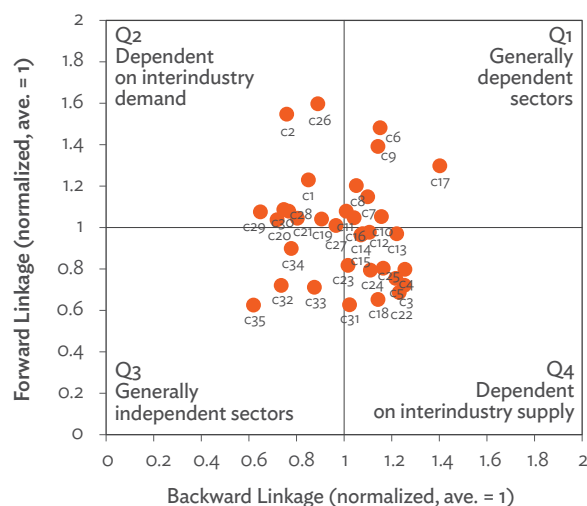
**Figure 8.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

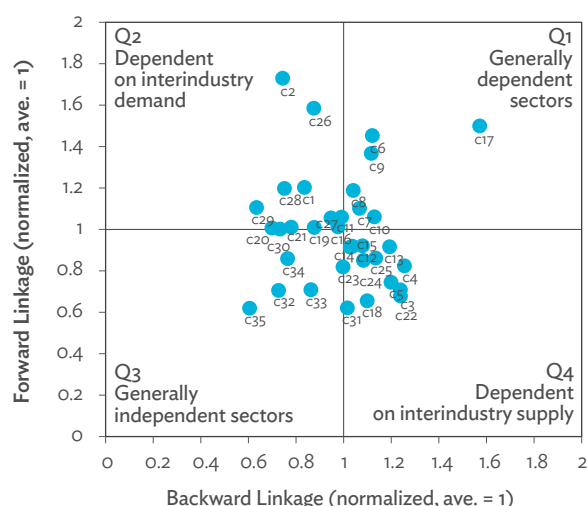
**Figure 8.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.2.2b: Backward and Forward Linkages by Industry, 2017**



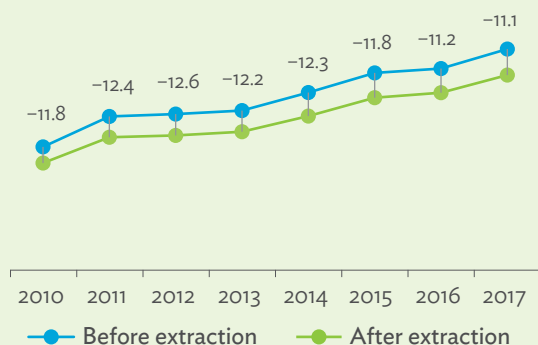
Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



### Box 8: Hypothetical Extraction of Textiles, and Textile Products Industry in Pakistan

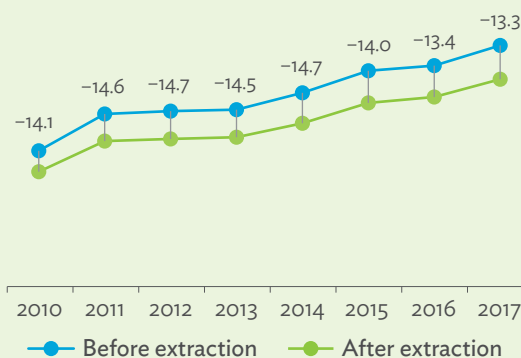
**Figure 8.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

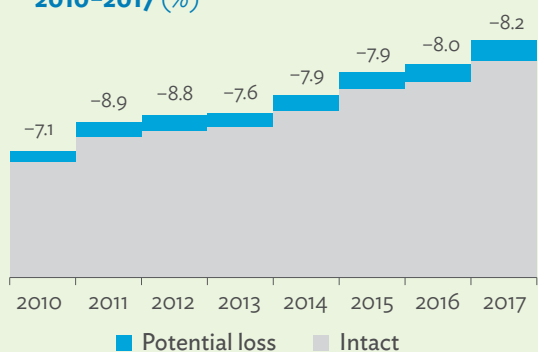
**Figure 8.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

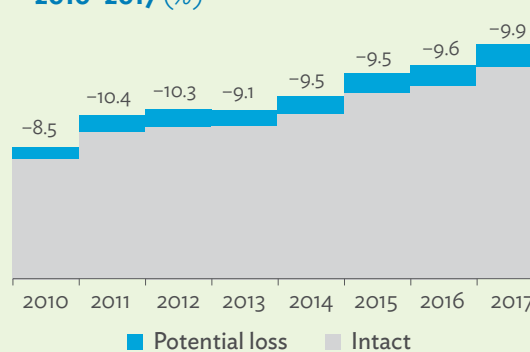
**Figure 8.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

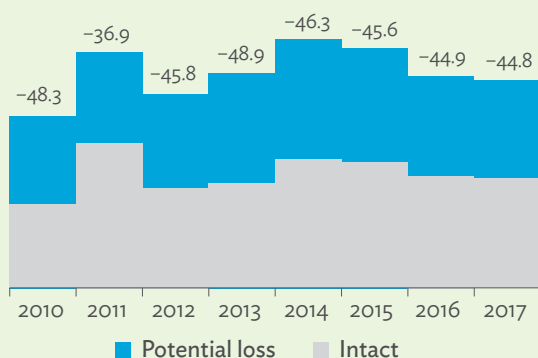
**Figure 8.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

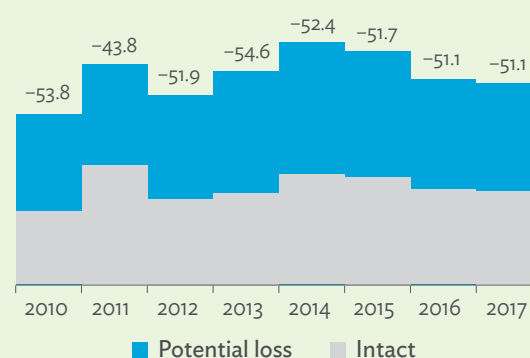
**Figure 8.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 8.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 8.2.1: Input–Output Backward Linkage**



Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.850	0.839	0.841	0.846	0.852	0.846	0.846	0.851
Mining and quarrying	0.759	0.750	0.752	0.756	0.761	0.755	0.754	0.760
Food, beverages, and tobacco	1.253	1.239	1.242	1.248	1.255	1.247	1.247	1.254
Textiles and textile products	1.255	1.250	1.251	1.253	1.263	1.260	1.266	1.271
Leather, leather products, and footwear	1.217	1.204	1.206	1.212	1.215	1.209	1.209	1.215
Wood and products of wood and cork	1.151	1.143	1.145	1.148	1.143	1.140	1.136	1.136
Pulp, paper, paper products, printing, and publishing	1.099	1.090	1.093	1.096	1.092	1.087	1.082	1.083
Coke, refined petroleum, and nuclear fuel	1.051	1.108	1.105	1.087	1.062	1.078	1.072	1.056
Chemicals and chemical products	1.142	1.135	1.136	1.139	1.137	1.137	1.134	1.132
Rubber and plastics	1.157	1.149	1.151	1.153	1.150	1.152	1.150	1.145
Other nonmetallic minerals	1.009	1.019	1.018	1.012	1.005	1.012	1.011	1.007
Basic metals and fabricated metal	1.106	1.117	1.116	1.110	1.097	1.106	1.104	1.095
Machinery, nec	1.221	1.218	1.219	1.217	1.209	1.215	1.215	1.209
Electrical and optical equipment	1.078	1.077	1.078	1.077	1.062	1.069	1.066	1.053
Transport equipment	1.071	1.072	1.073	1.070	1.051	1.062	1.062	1.044
Manufacturing, nec; recycling	1.042	1.042	1.045	1.042	1.020	1.014	0.998	0.992
Electricity, gas, and water supply	1.402	1.563	1.527	1.461	1.514	1.558	1.594	1.587
Construction	1.142	1.129	1.134	1.135	1.122	1.120	1.118	1.115
Sale, maintenance, and repair	0.905	0.895	0.898	0.901	0.899	0.894	0.891	0.892
Wholesale trade and commission trade	0.718	0.707	0.711	0.715	0.718	0.712	0.710	0.715
Retail trade	0.803	0.794	0.796	0.800	0.801	0.795	0.792	0.796
Hotels and restaurants	1.231	1.239	1.238	1.236	1.244	1.246	1.252	1.254
Inland transport	1.016	1.009	1.006	1.013	1.013	1.013	1.013	1.013
Water transport	1.110	1.097	1.093	1.100	1.098	1.099	1.099	1.099
Air transport	1.164	1.150	1.144	1.152	1.150	1.151	1.152	1.150
Other supporting and auxiliary transport activities	0.889	0.878	0.880	0.885	0.891	0.885	0.885	0.891
Post and telecommunications	0.966	0.954	0.955	0.960	0.964	0.958	0.957	0.963
Financial intermediation	0.767	0.757	0.759	0.763	0.769	0.762	0.761	0.767
Real estate activities	0.648	0.639	0.641	0.645	0.651	0.645	0.644	0.650
Renting of M&Eq and other business activities	0.747	0.738	0.740	0.744	0.749	0.744	0.743	0.749
Public administration and defense; compulsory social security	1.023	1.021	1.023	1.027	1.026	1.028	1.032	1.031
Education	0.736	0.730	0.731	0.734	0.741	0.736	0.738	0.743
Health and social work	0.875	0.869	0.871	0.874	0.874	0.876	0.879	0.879
Other community, social, and personal services	0.778	0.770	0.771	0.775	0.781	0.775	0.775	0.781
Private households with employed persons	0.619	0.610	0.612	0.616	0.622	0.616	0.615	0.621
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.231	1.196	1.223	1.219	1.208	1.209	1.205	1.203
Mining and quarrying	1.548	1.669	1.697	1.628	1.656	1.705	1.736	1.730
Food, beverages, and tobacco	0.723	0.707	0.706	0.713	0.715	0.713	0.708	0.709
Textiles and textile products	0.800	0.801	0.795	0.797	0.788	0.805	0.819	0.825
Leather, leather products, and footwear	0.757	0.740	0.741	0.747	0.747	0.747	0.743	0.746
Wood and products of wood and cork	1.483	1.460	1.463	1.475	1.464	1.459	1.450	1.453
Pulp, paper, paper products, printing, and publishing	1.150	1.117	1.118	1.132	1.118	1.120	1.109	1.102
Coke, refined petroleum, and nuclear fuel	1.204	1.237	1.194	1.177	1.144	1.180	1.197	1.189
Chemicals and chemical products	1.392	1.384	1.362	1.369	1.361	1.370	1.369	1.368
Rubber and plastics	1.054	1.058	1.057	1.063	1.054	1.065	1.065	1.061
Other nonmetallic minerals	1.080	1.030	1.045	1.058	1.060	1.061	1.059	1.060
Basic metals and fabricated metal	0.979	0.955	0.958	0.962	0.961	0.917	0.914	0.922
Machinery, nec	0.972	0.945	0.947	0.954	0.957	0.912	0.909	0.917
Electrical and optical equipment	0.972	0.947	0.949	0.954	0.959	0.914	0.912	0.919
Transport equipment	0.966	0.943	0.945	0.949	0.955	0.911	0.908	0.915
Manufacturing, nec; recycling	1.049	1.031	1.031	1.033	1.038	1.020	1.009	1.013
Electricity, gas, and water supply	1.299	1.411	1.383	1.404	1.425	1.480	1.513	1.500
Construction	0.655	0.642	0.642	0.651	0.668	0.653	0.650	0.657
Sale, maintenance, and repair	1.042	1.028	1.014	1.016	1.007	1.011	1.013	1.010
Wholesale trade and commission trade	1.039	1.028	1.014	1.016	1.004	1.007	1.009	1.008
Retail trade	1.046	1.028	1.016	1.018	1.010	1.013	1.014	1.012
Hotels and restaurants	0.689	0.677	0.676	0.680	0.683	0.682	0.678	0.679
Inland transport	0.819	0.840	0.827	0.806	0.816	0.821	0.821	0.820
Water transport	0.796	0.840	0.862	0.831	0.841	0.850	0.853	0.851
Air transport	0.805	0.849	0.870	0.839	0.851	0.862	0.865	0.862
Other supporting and auxiliary transport activities	1.598	1.601	1.598	1.588	1.589	1.590	1.584	1.585
Post and telecommunications	1.011	1.049	1.098	1.061	1.067	1.074	1.068	1.056
Financial intermediation	1.080	1.096	1.122	1.200	1.205	1.209	1.203	1.198
Real estate activities	1.077	1.093	1.101	1.109	1.111	1.115	1.110	1.106
Renting of M&Eq and other business activities	1.088	1.073	1.045	1.036	1.012	1.019	1.014	1.002
Public administration and defense; compulsory social security	0.629	0.615	0.616	0.621	0.628	0.622	0.618	0.622
Education	0.723	0.703	0.698	0.698	0.704	0.699	0.698	0.706
Health and social work	0.714	0.703	0.700	0.704	0.708	0.703	0.702	0.710
Other community, social, and personal services	0.901	0.889	0.874	0.871	0.860	0.860	0.859	0.860
Private households with employed persons	0.628	0.614	0.615	0.620	0.626	0.621	0.616	0.621
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

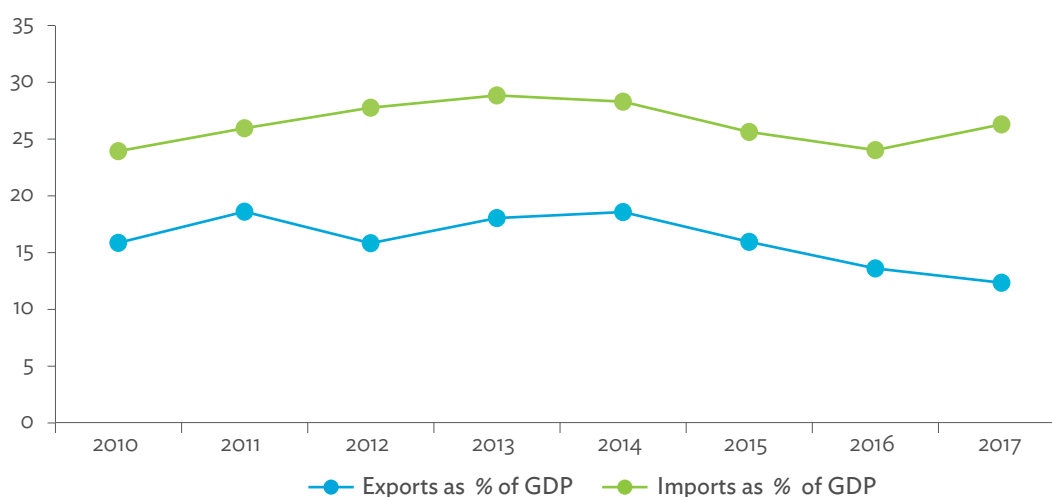
Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 8.3

### Pakistan

**Figure 8.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

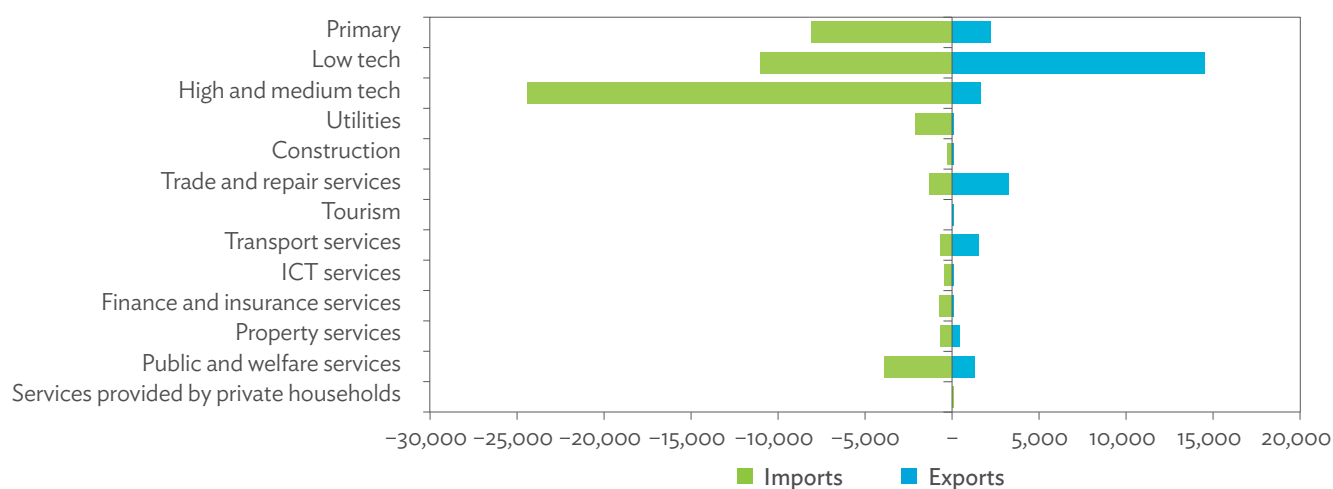


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**

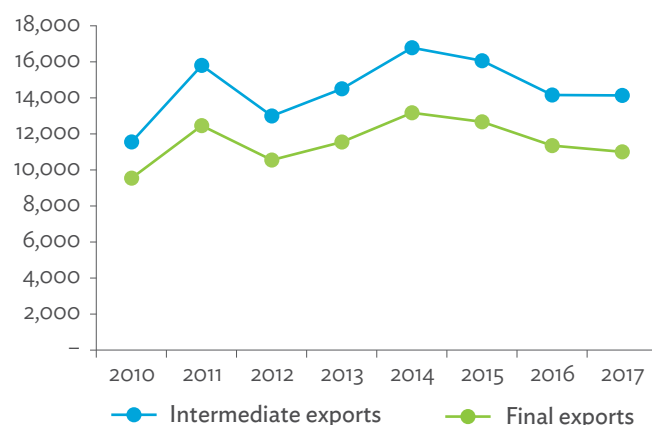


\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

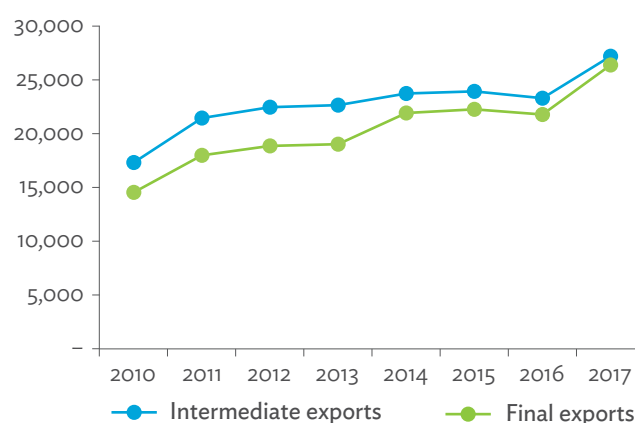


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

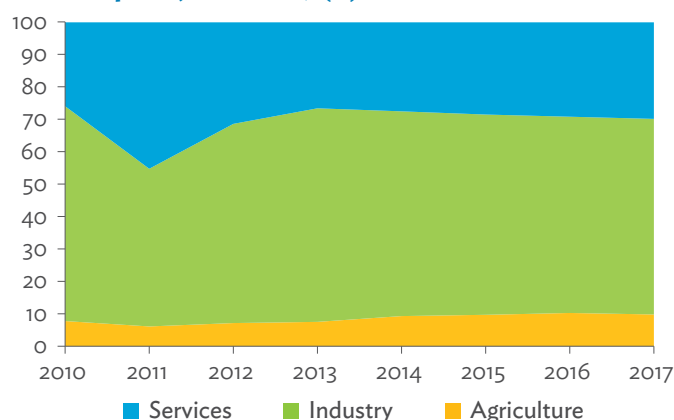


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

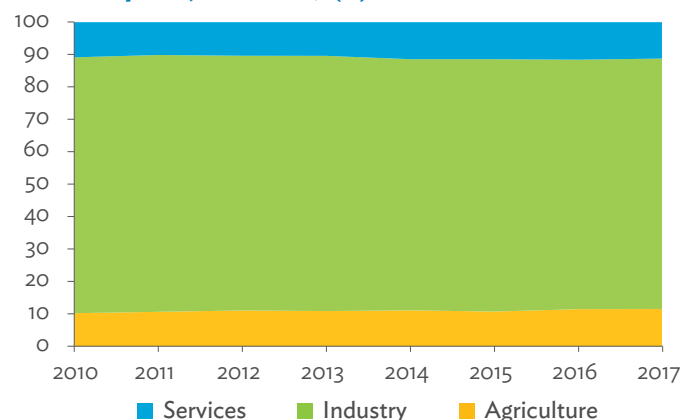
**Figure 8.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

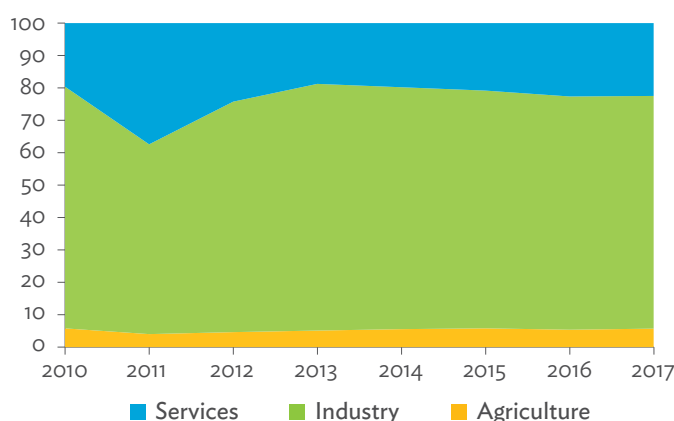
**Figure 8.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

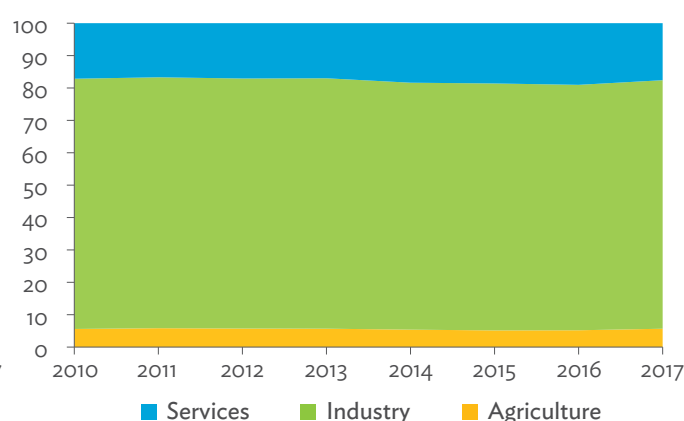
**Figure 8.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

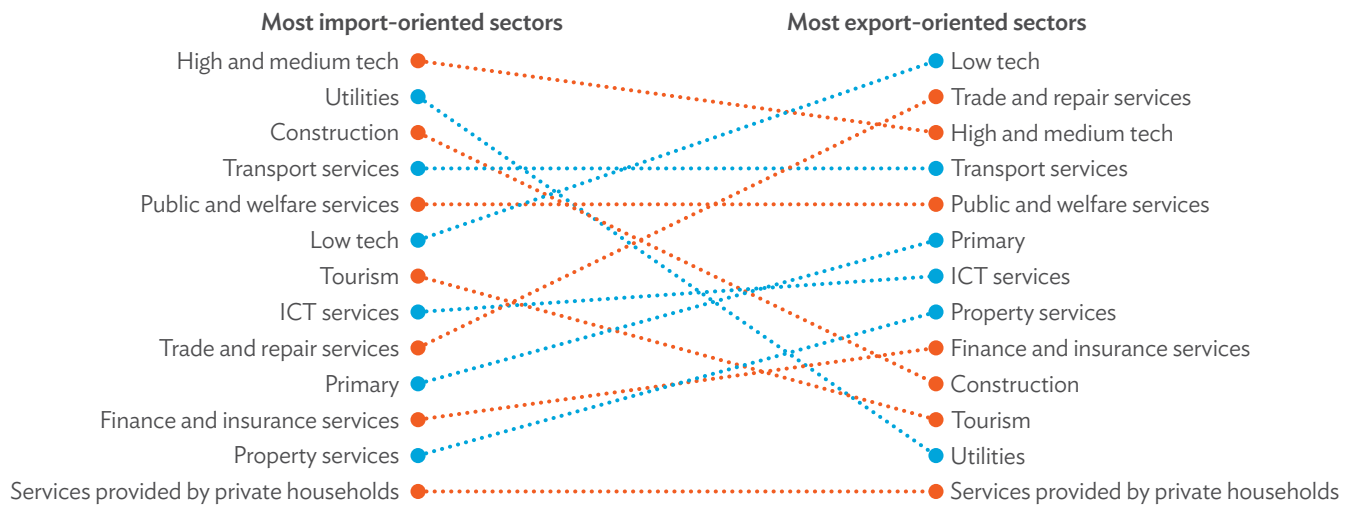
**Figure 8.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

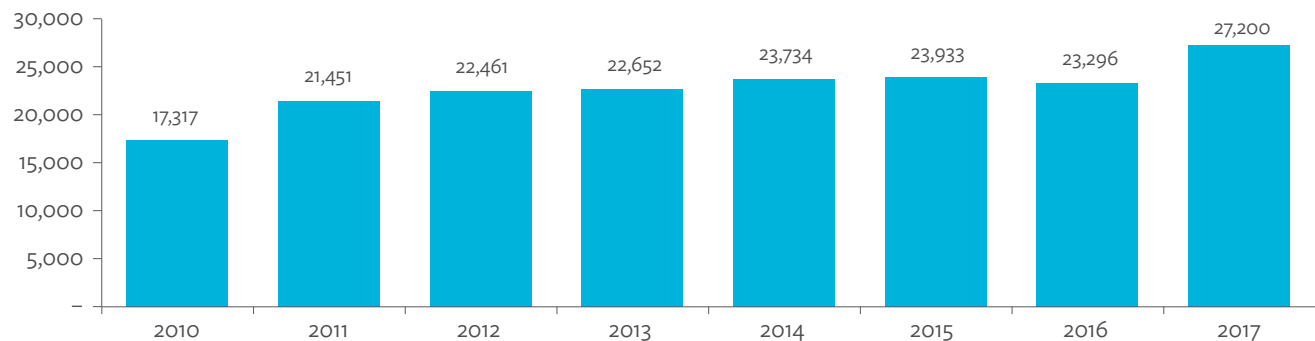


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

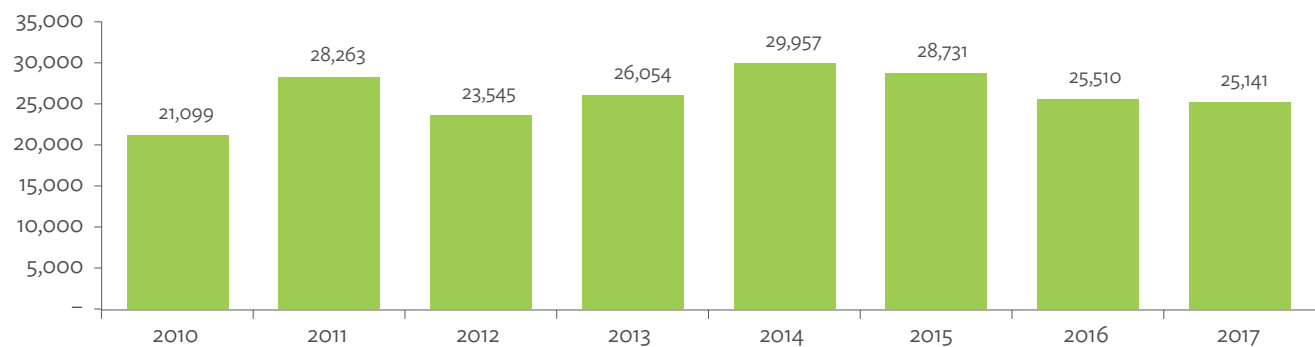


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

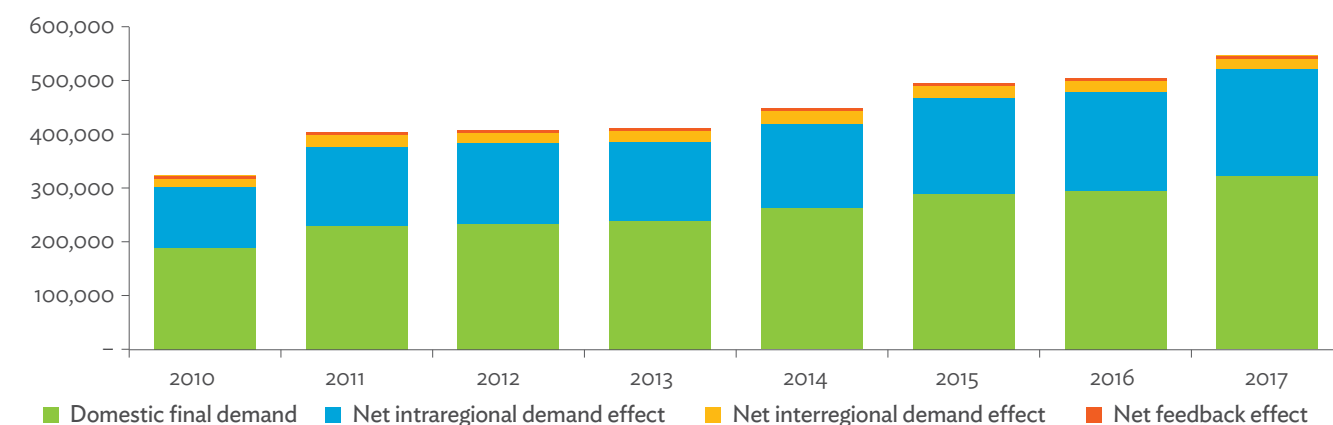


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

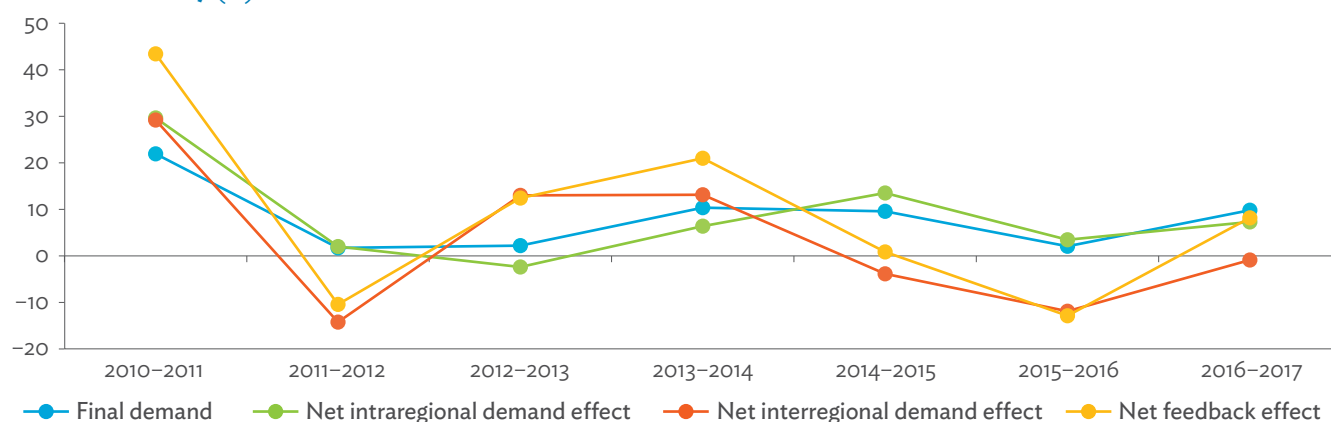


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

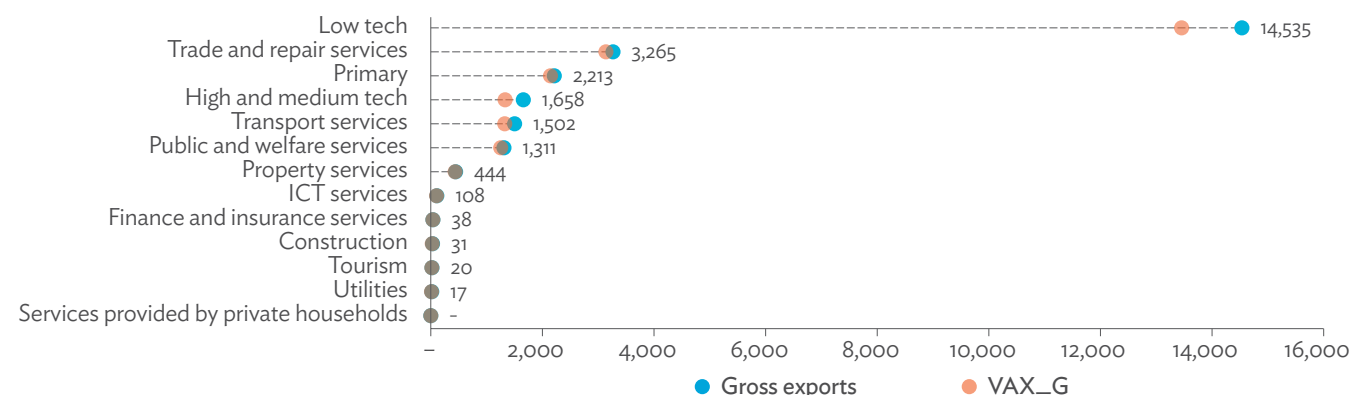
**Figure 8.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

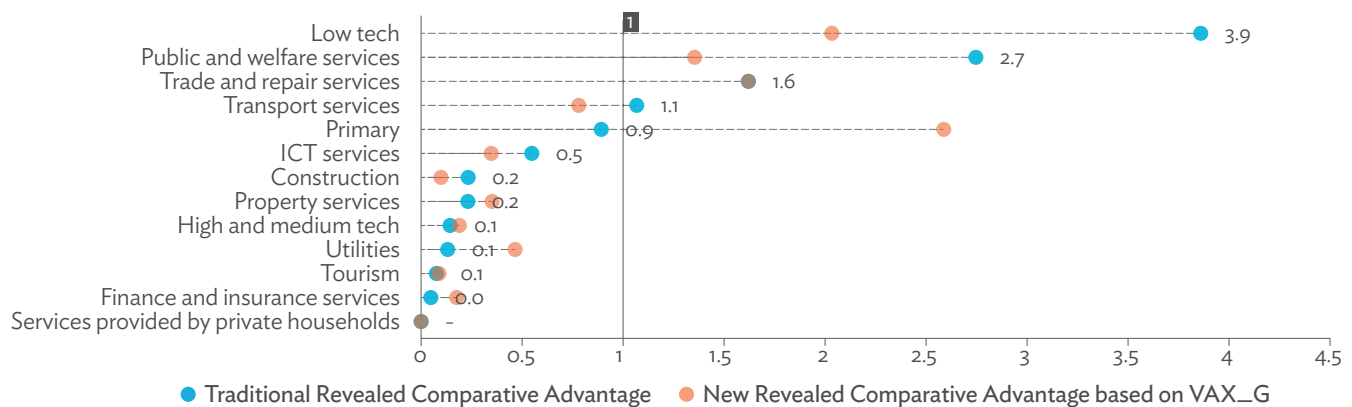


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Table 8.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	19,848	26,206	23,022	25,044	28,980	31,688	31,736	34,847
Low tech	61,647	78,761	81,867	78,838	87,691	92,690	91,860	100,561
High and medium tech	11,220	14,484	15,221	15,110	17,269	17,880	17,008	18,614
Business service	74,390	83,340	83,566	87,348	93,528	106,185	110,667	121,334
Personal service	21,170	26,778	29,839	32,335	35,950	40,215	43,363	48,212
Intraregional effects (M1)								
Primary	39,204	50,233	51,715	51,031	54,813	60,982	61,126	65,125
Low tech	20,183	32,404	32,693	29,265	30,736	36,528	39,447	41,948
High and medium tech	14,697	17,927	18,401	18,662	19,580	20,799	20,697	22,388
Business service	38,287	45,325	45,941	46,124	49,204	56,839	59,656	64,492
Personal service	1,834	2,181	2,299	2,363	2,537	2,935	3,336	3,760

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.

**Table 8.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	5,419	5,743	5,711	6,754	7,822	7,610	6,720	6,517
Low tech	8,242	8,735	8,820	10,434	11,177	10,591	9,229	9,183
High and medium tech	1,418	1,700	1,494	1,710	2,076	1,914	1,657	1,623
Business service	4,994	9,369	6,112	6,219	7,323	7,167	6,407	6,449
Personal service	412	918	564	537	626	625	576	599
Feedback effects (M3)								
Primary	1.48	1.74	1.81	2.14	2.62	2.67	2.28	2.47
Low tech	2.22	2.64	2.77	3.28	3.71	3.69	3.19	3.47
High and medium tech	0.56	0.69	0.67	0.77	1.03	1.01	0.86	0.92
Business service	1.47	3.03	2.07	2.06	2.61	2.69	2.42	2.60
Personal service	0.11	0.26	0.17	0.16	0.20	0.21	0.20	0.22

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input-Output Database.



**Table 8.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3724	0.3754	0.3740	0.3731	0.3694	0.3738	0.3749	0.3703
Mining and quarrying	0.2252	0.2295	0.2287	0.2268	0.2228	0.2263	0.2265	0.2232
Food, beverages, and tobacco	1.0235	1.0304	1.0284	1.0255	1.0176	1.0260	1.0273	1.0183
Textiles and textile products	1.0272	1.0493	1.0434	1.0345	1.0299	1.0471	1.0578	1.0458
Leather, leather products, and footwear	0.9651	0.9731	0.9705	0.9674	0.9524	0.9645	0.9659	0.9552
Wood and products of wood and cork	0.8590	0.8729	0.8708	0.8631	0.8375	0.8514	0.8474	0.8286
Pulp, paper, paper products, printing, and publishing	0.7747	0.7867	0.7849	0.7786	0.7556	0.7659	0.7591	0.7424
Coke, refined petroleum, and nuclear fuel	0.6975	0.8162	0.8053	0.7640	0.7063	0.7516	0.7423	0.6999
Chemicals and chemical products	0.8443	0.8596	0.8560	0.8489	0.8270	0.8462	0.8444	0.8219
Rubber and plastics	0.8678	0.8835	0.8798	0.8718	0.8485	0.8705	0.8696	0.8427
Other nonmetallic minerals	0.6290	0.6700	0.6621	0.6432	0.6157	0.6435	0.6447	0.6210
Basic metals and fabricated metal	0.7862	0.8313	0.8228	0.8009	0.7638	0.7966	0.7947	0.7621
Machinery, nec	0.9715	0.9956	0.9910	0.9746	0.9435	0.9732	0.9752	0.9454
Electrical and optical equipment	0.7404	0.7660	0.7614	0.7474	0.7063	0.7358	0.7339	0.6943
Transport equipment	0.7288	0.7575	0.7524	0.7363	0.6897	0.7258	0.7266	0.6798
Manufacturing, nec; recycling	0.6826	0.7082	0.7065	0.6915	0.6395	0.6468	0.6228	0.5968
Electricity, gas, and water supply	1.2640	1.5613	1.4949	1.3716	1.4341	1.5303	1.5915	1.5541
Construction	0.8445	0.8502	0.8522	0.8416	0.8037	0.8199	0.8174	0.7942
Sale, maintenance, and repair	0.4617	0.4673	0.4662	0.4632	0.4452	0.4514	0.4480	0.4365
Wholesale trade and commission trade	0.1600	0.1596	0.1611	0.1604	0.1539	0.1560	0.1548	0.1508
Retail trade	0.2975	0.3007	0.3000	0.2984	0.2867	0.2906	0.2884	0.2810
Hotels and restaurants	0.9887	1.0306	1.0217	1.0061	0.9999	1.0244	1.0364	1.0189
Inland transport	0.6411	0.6533	0.6430	0.6437	0.6276	0.6448	0.6470	0.6308
Water transport	0.7930	0.7985	0.7857	0.7857	0.7654	0.7854	0.7874	0.7686
Air transport	0.8800	0.8848	0.8694	0.8702	0.8481	0.8703	0.8725	0.8516
Other supporting and auxiliary transport activities	0.4363	0.4388	0.4373	0.4364	0.4319	0.4372	0.4383	0.4337
Post and telecommunications	0.5595	0.5637	0.5597	0.5584	0.5500	0.5563	0.5560	0.5496
Financial intermediation	0.2390	0.2403	0.2397	0.2380	0.2354	0.2381	0.2380	0.2352
Real estate activities	0.0468	0.0477	0.0475	0.0471	0.0465	0.0473	0.0475	0.0468
Renting of M&Eq and other business activities	0.2057	0.2097	0.2089	0.2072	0.2046	0.2077	0.2087	0.2059
Public administration and defense; compulsory social security	0.6517	0.6728	0.6718	0.6675	0.6487	0.6704	0.6779	0.6601
Education	0.1880	0.1960	0.1944	0.1912	0.1903	0.1962	0.1996	0.1956
Health and social work	0.4131	0.4237	0.4222	0.4188	0.4054	0.4224	0.4290	0.4141
Other community, social, and personal services	0.2560	0.2613	0.2603	0.2576	0.2549	0.2588	0.2600	0.2565
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0804	0.0787	0.0849	0.0847	0.0823	0.0746	0.0699	0.0756
Mining and quarrying	0.0377	0.0411	0.0394	0.0409	0.0414	0.0383	0.0360	0.0386
Food, beverages, and tobacco	0.1412	0.1393	0.1449	0.1466	0.1445	0.1309	0.1223	0.1329
Textiles and textile products	0.1890	0.1831	0.1887	0.1967	0.1882	0.1729	0.1648	0.1776
Leather, leather products, and footwear	0.1655	0.1719	0.1798	0.1805	0.1743	0.1616	0.1531	0.1640
Wood and products of wood and cork	0.2664	0.2674	0.2740	0.2801	0.2722	0.2478	0.2320	0.2484
Pulp, paper, paper products, printing, and publishing	0.2472	0.2491	0.2547	0.2597	0.2551	0.2306	0.2147	0.2305
Coke, refined petroleum, and nuclear fuel	0.5591	0.5950	0.6122	0.6189	0.5668	0.5256	0.4739	0.5068
Chemicals and chemical products	0.3961	0.4013	0.4122	0.4196	0.4161	0.3777	0.3537	0.3807
Rubber and plastics	0.5360	0.5425	0.5567	0.5670	0.5653	0.5114	0.4799	0.5170
Other nonmetallic minerals	0.3177	0.3159	0.3235	0.3358	0.3145	0.2945	0.2771	0.2950
Basic metals and fabricated metal	0.5063	0.5107	0.5301	0.5406	0.5165	0.4728	0.4377	0.4700
Machinery, nec	0.5443	0.5438	0.5558	0.5700	0.5544	0.4961	0.4650	0.4974
Electrical and optical equipment	0.8058	0.8151	0.8326	0.8427	0.8249	0.7409	0.6886	0.7353
Transport equipment	0.9778	0.9902	1.0103	1.0208	0.9977	0.9015	0.8384	0.8917
Manufacturing, nec; recycling	0.3254	0.3301	0.3358	0.3395	0.3195	0.2877	0.2599	0.2771
Electricity, gas, and water supply	0.6528	0.5805	0.5769	0.6739	0.5651	0.5486	0.5375	0.5757
Construction	0.3577	0.4015	0.3991	0.3990	0.4075	0.3684	0.3455	0.3698
Sale, maintenance, and repair	0.1790	0.1954	0.1950	0.1977	0.1971	0.1771	0.1648	0.1782
Wholesale trade and commission trade	0.0629	0.0680	0.0657	0.0669	0.0652	0.0585	0.0545	0.0585
Retail trade	0.1195	0.1260	0.1296	0.1299	0.1276	0.1146	0.1068	0.1152
Hotels and restaurants	0.2247	0.2221	0.2259	0.2384	0.2249	0.2102	0.2015	0.2153
Inland transport	0.2770	0.3219	0.3534	0.3361	0.3333	0.3050	0.2868	0.3074
Water transport	0.2720	0.3071	0.3370	0.3216	0.3162	0.2894	0.2709	0.2913
Air transport	0.2950	0.3342	0.3627	0.3486	0.3427	0.3134	0.2934	0.3149
Other supporting and auxiliary transport activities	0.0707	0.0818	0.0878	0.0843	0.0826	0.0756	0.0709	0.0765
Post and telecommunications	0.0937	0.1057	0.1152	0.1117	0.1083	0.0983	0.0918	0.0992
Financial intermediation	0.0441	0.0482	0.0507	0.0589	0.0503	0.0455	0.0426	0.0460
Real estate activities	0.0084	0.0089	0.0090	0.0093	0.0091	0.0083	0.0078	0.0085
Renting of M&Eq and other business activities	0.0394	0.0407	0.0403	0.0410	0.0417	0.0381	0.0362	0.0391
Public administration and defense; compulsory social security	0.2976	0.2957	0.2881	0.2817	0.3054	0.2813	0.2664	0.2860
Education	0.0586	0.0563	0.0546	0.0551	0.0576	0.0537	0.0515	0.0551
Health and social work	0.2447	0.2617	0.2574	0.2554	0.2725	0.2484	0.2360	0.2528
Other community, social, and personal services	0.0516	0.0508	0.0499	0.0520	0.0519	0.0475	0.0451	0.0484
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.3.5: Net Feedback Multipliers (M<sub>3</sub>), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
Coke, refined petroleum, and nuclear fuel	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
Chemicals and chemical products	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Rubber and plastics	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Machinery, nec	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Electrical and optical equipment	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Transport equipment	0.0001	0.0002	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
Manufacturing, nec; recycling	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Electricity, gas, and water supply	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Construction	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0000	0.0001	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0001	0.0001	0.0000	0.0001	0.0001	0.0001	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	1,534	1,481	1,550	1,499	1,511	1,458	1,791	1,729	2,611	2,525	2,569	2,493	2,286	2,221	2,213	2,145
Low tech	13,313	12,218	13,455	12,394	13,966	12,840	16,555	15,187	18,022	16,592	16,966	15,739	14,793	13,768	14,535	13,454
High and medium tech	1,352	1,059	1,367	1,070	1,397	1,080	1,656	1,278	2,056	1,602	1,935	1,550	1,687	1,375	1,658	1,332
Utilities	16	12	39	29	18	14	16	12	17	13	18	14	17	14	17	13
Construction	19	16	45	38	21	17	19	16	30	25	31	26	30	26	31	26
Trade and repair services	2,253	2,154	5,452	5,208	3,310	3,163	3,003	2,875	3,868	3,702	3,622	3,482	3,194	3,078	3,265	3,138
Tourism	5	4	11	10	10	9	9	8	19	17	22	20	22	20	20	19
Transport services	1,329	1,178	3,217	2,805	1,484	1,277	1,346	1,170	1,400	1,218	1,607	1,419	1,585	1,411	1,502	1,325
ICT services	79	75	191	182	88	83	80	76	100	96	115	110	114	109	108	103
Finance and insurance services	44	43	107	105	49	48	45	44	52	51	49	48	39	38	38	37
Property services	254	250	646	636	383	377	348	342	452	444	456	449	442	435	444	437
Public and welfare services	902	860	2,182	2,081	1,307	1,247	1,186	1,132	1,330	1,267	1,342	1,283	1,302	1,248	1,311	1,253
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 8.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.669	2.393	0.451	1.663	0.528	2.040	0.596	2.254	0.804	2.389	0.923	2.611	0.948	2.658	0.892	2.588
Low tech	4.374	2.333	3.360	1.867	4.208	2.218	4.357	2.323	4.044	2.133	3.946	2.084	3.884	2.039	3.860	2.033
High and medium tech	0.137	0.174	0.103	0.154	0.128	0.165	0.138	0.175	0.149	0.188	0.145	0.185	0.144	0.188	0.143	0.190
Utilities	0.172	0.383	0.311	0.399	0.169	0.447	0.136	0.433	0.118	0.436	0.127	0.468	0.113	0.496	0.131	0.465
Construction	0.224	0.074	0.414	0.117	0.217	0.077	0.134	0.062	0.196	0.092	0.202	0.085	0.191	0.089	0.233	0.099
Trade and repair services	1.364	1.565	2.495	2.073	1.765	1.749	1.472	1.604	1.644	1.719	1.572	1.593	1.551	1.565	1.621	1.620
Tourism	0.021	0.083	0.038	0.084	0.042	0.087	0.034	0.085	0.059	0.074	0.070	0.088	0.069	0.090	0.075	0.088
Transport services	1.056	0.843	2.041	1.275	1.114	0.816	0.934	0.729	0.839	0.645	0.988	0.744	1.113	0.825	1.068	0.780
ICT services	0.556	0.394	1.071	0.563	0.540	0.413	0.446	0.380	0.482	0.361	0.570	0.418	0.604	0.426	0.548	0.347
Finance and insurance services	0.068	0.232	0.130	0.307	0.073	0.251	0.057	0.227	0.057	0.223	0.054	0.202	0.047	0.175	0.048	0.176
Property services	0.184	0.319	0.357	0.436	0.255	0.362	0.197	0.321	0.213	0.330	0.216	0.332	0.229	0.347	0.232	0.352
Public and welfare services	2.288	1.181	4.427	2.069	3.084	1.530	2.371	1.239	2.335	1.187	2.344	1.189	2.409	1.250	2.746	1.354
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

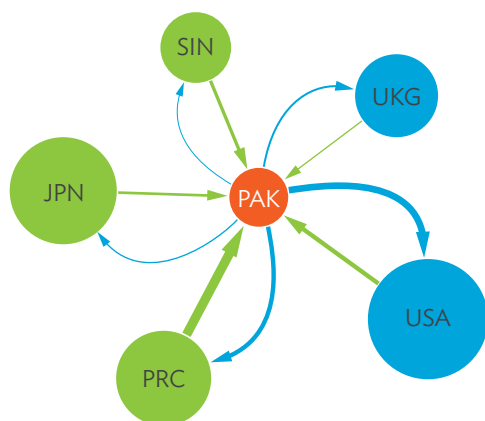
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 8.4

## GLOBAL VALUE CHAIN INDICATORS

### Pakistan

**Figure 8.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

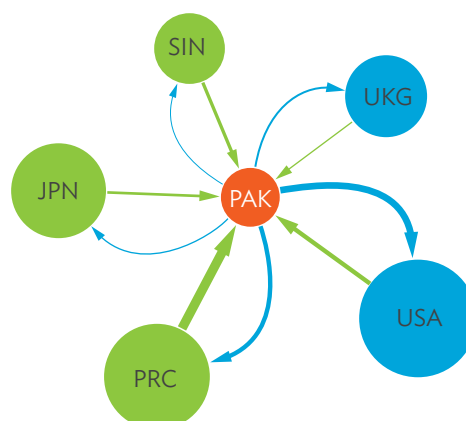
JPN = Japan, PAK = Pakistan, PRC = People's Republic of China, SIN = Singapore, UKG = United Kingdom, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

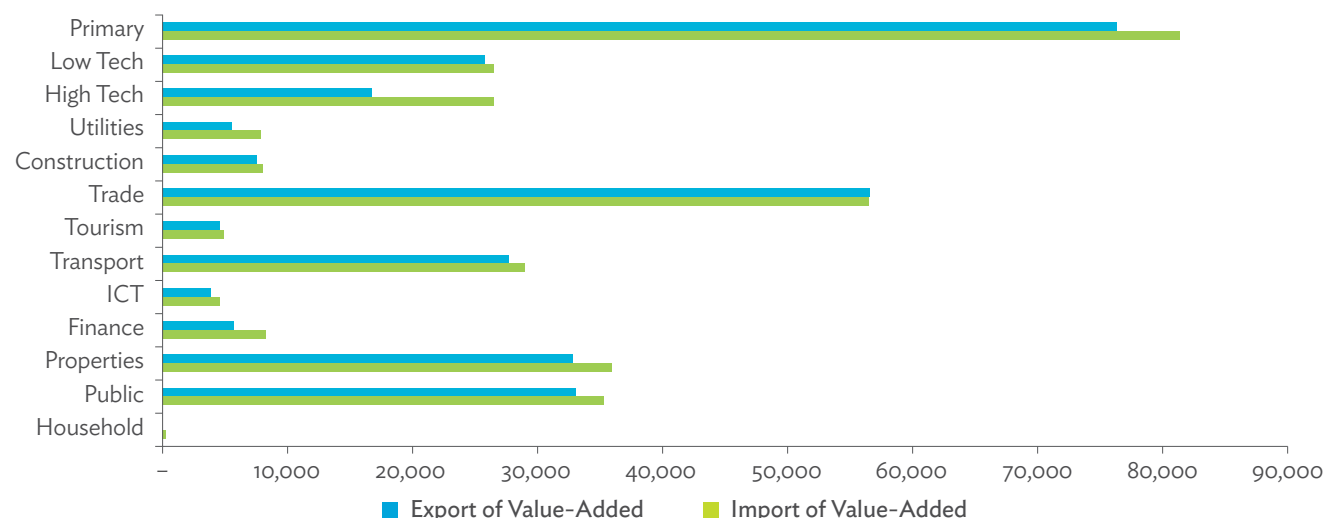
JPN = Japan, PAK = Pakistan, PRC = People's Republic of China, SIN = Singapore, UKG = United Kingdom, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

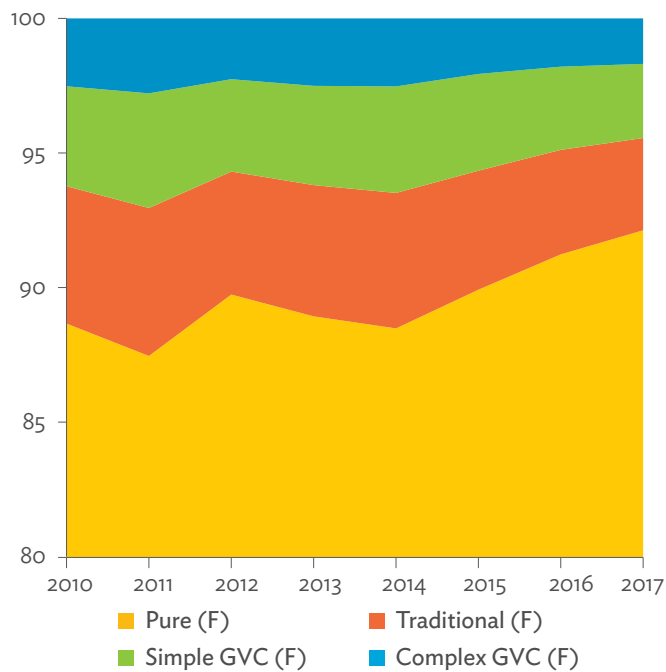
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**Figure 8.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

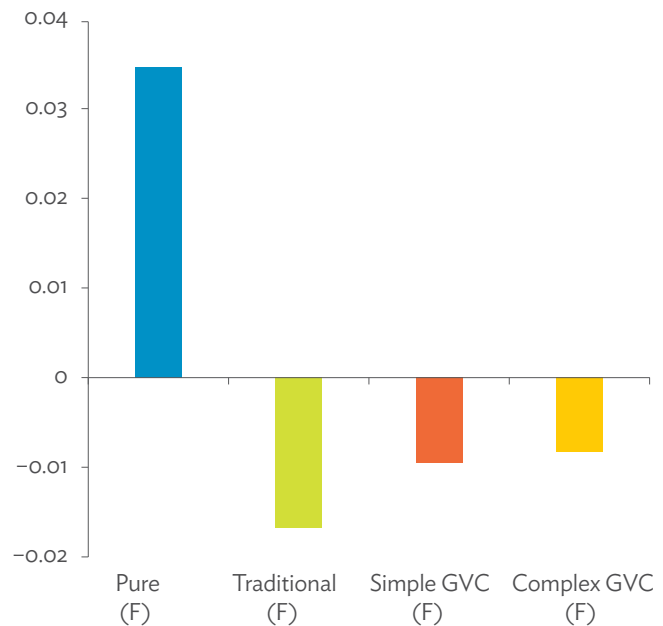
[Click here for figure data](#)

**Figure 8.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

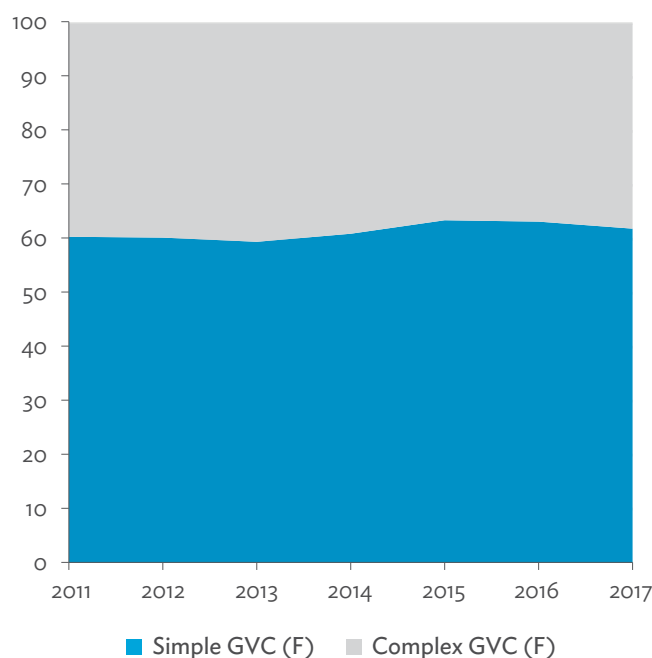
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

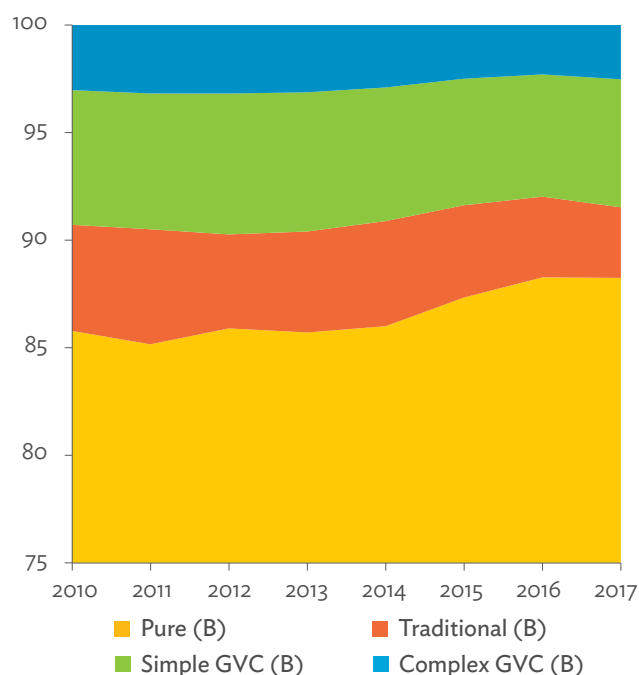


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

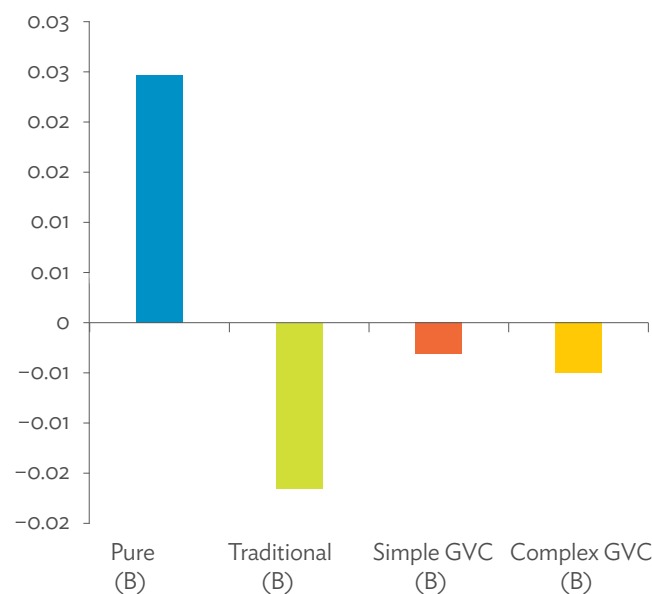


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



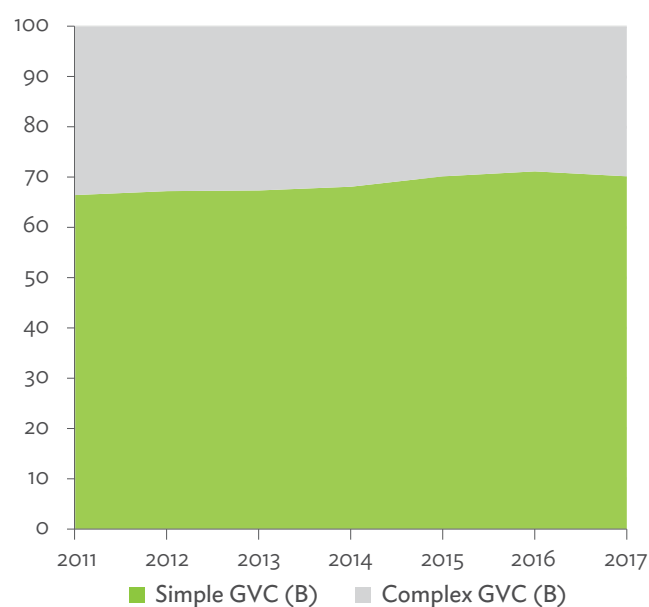
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

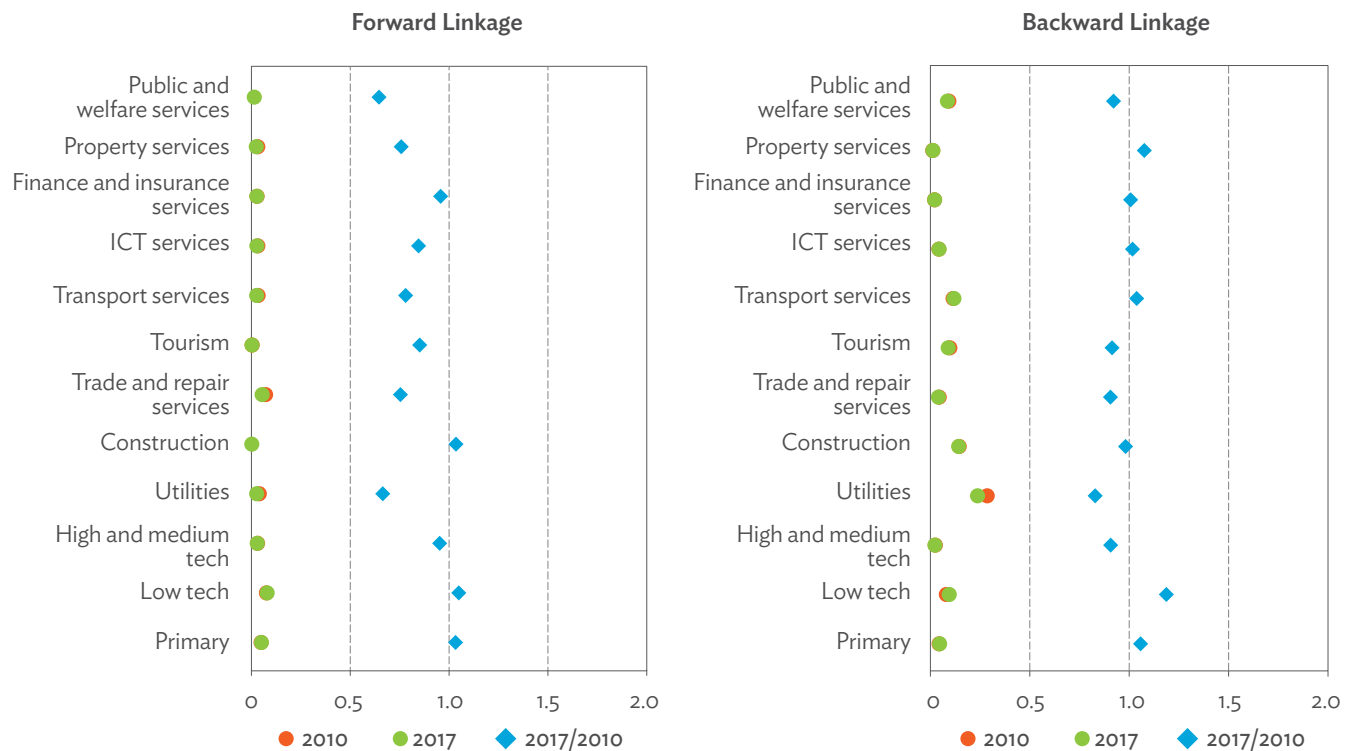


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 8.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**

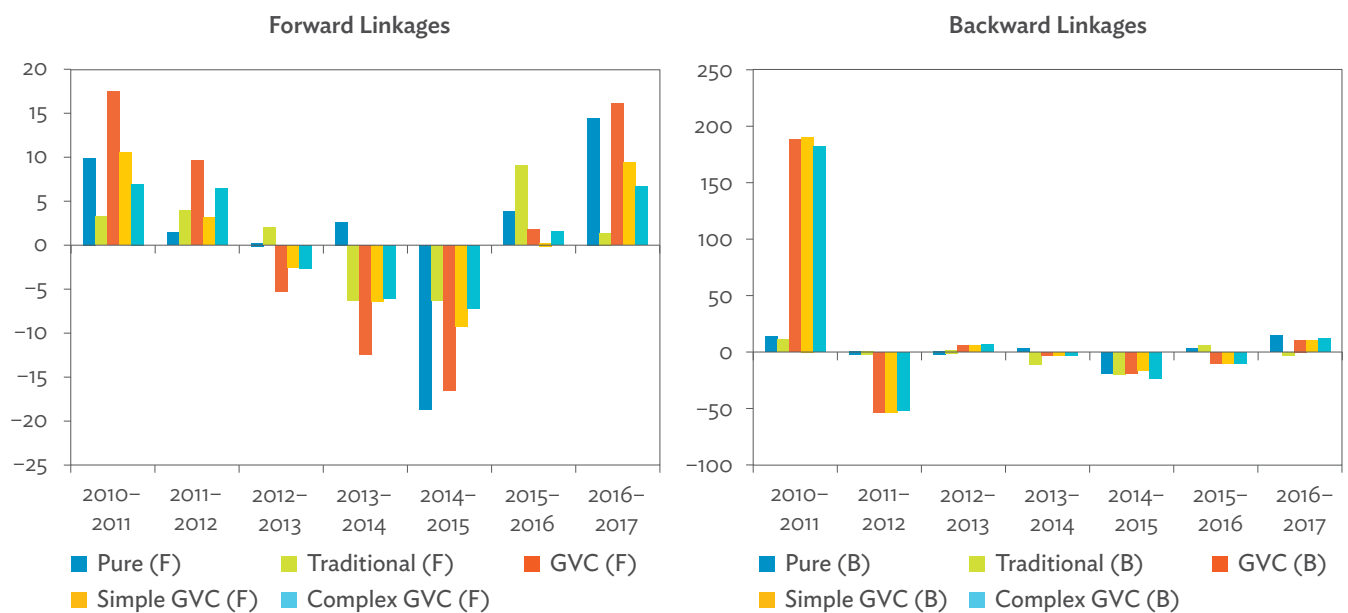


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 8.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

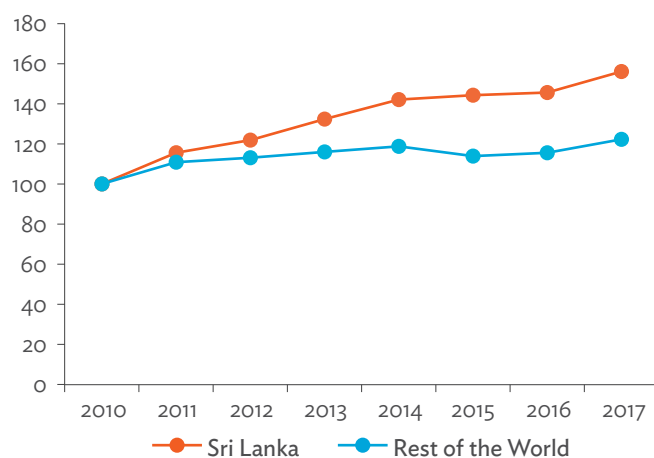


# 9.1

## OVERVIEW OF PRODUCTION AND DEMAND STRUCTURES

### Sri Lanka

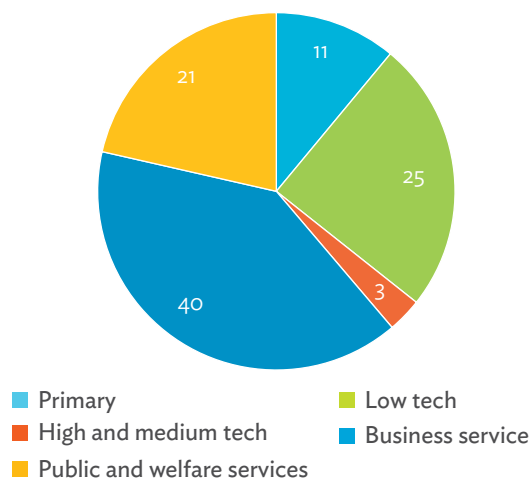
**Figure 9.1.1a: Gross Domestic Product Scaled to 2010 Levels in Comparison with the Rest of the World, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

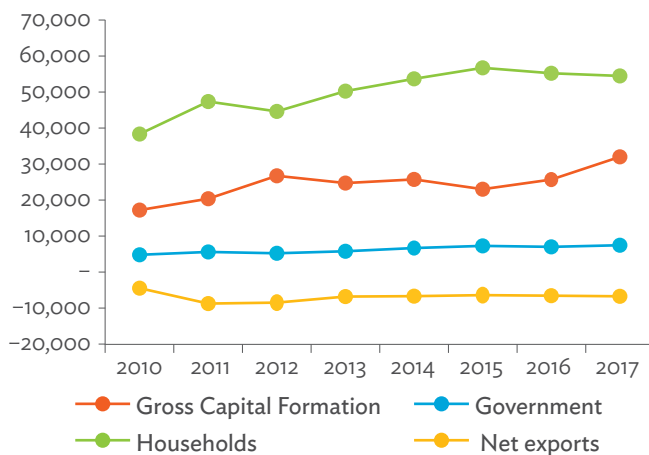
**Figure 9.1.1b: Gross Domestic Product Share by 5-Sector Aggregation, 2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.2a: Gross Domestic Product Trend by Final Consumption Expenditure Components, 2010–2017 (\$ million)**

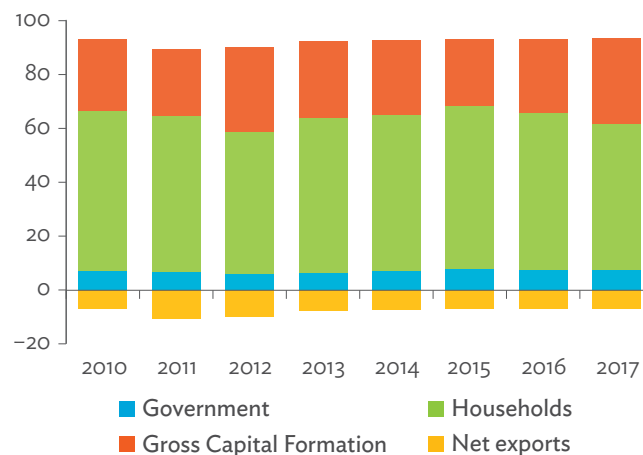


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

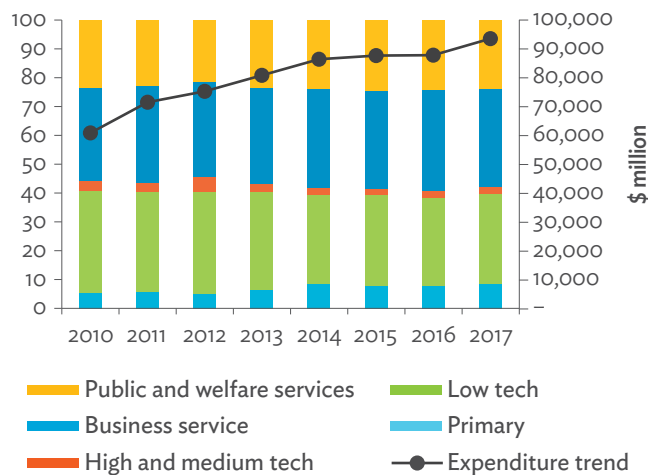
**Figure 9.1.2b: Share of Consumption Expenditure by Final Consumption Expenditure Components, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.2c: Final Consumption Expenditure Total Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

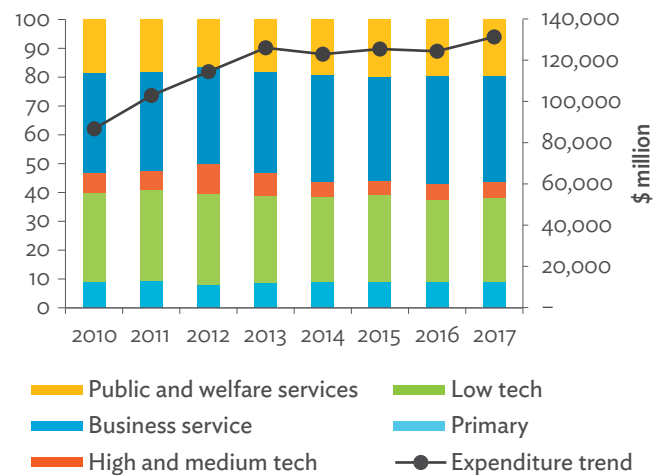


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.3a: Gross Total Output Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

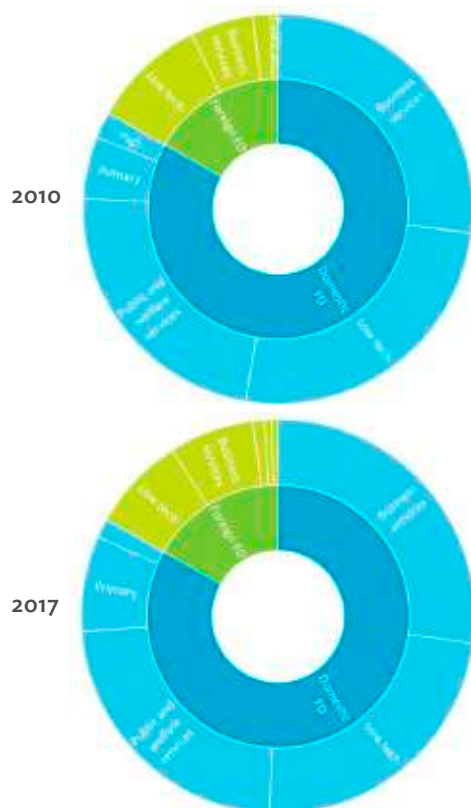


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.3b: Shares by 5-Sector Aggregation Attributed to Foreign and Domestic Final Demand, 2010 and 2017 (%)**

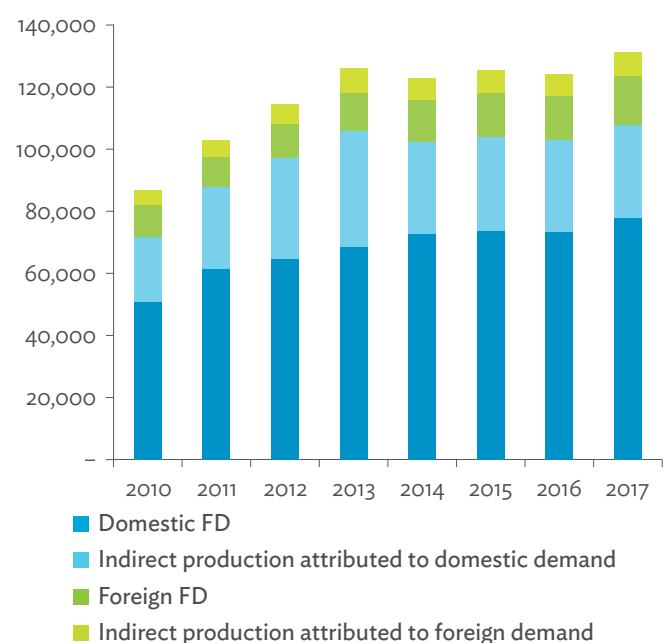


FD=final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

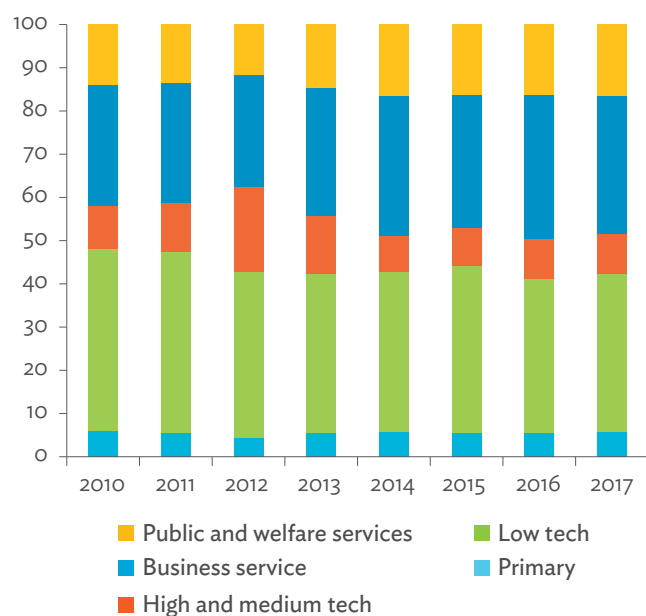
**Figure 9.1.3c: Gross Output by Production Attributed to Foreign and Domestic Demand, 2010–2017 (\$ million)**



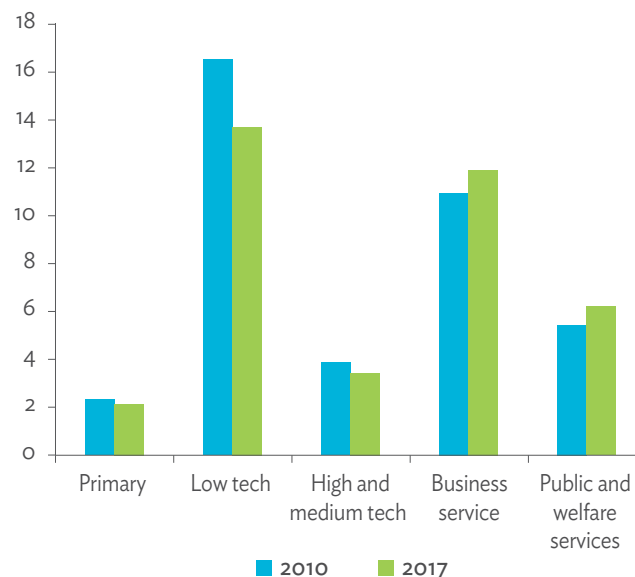
\$ = United States dollar, FD = final demand.

Source: Asian Development Bank Multi-Regional Input–Output Database.

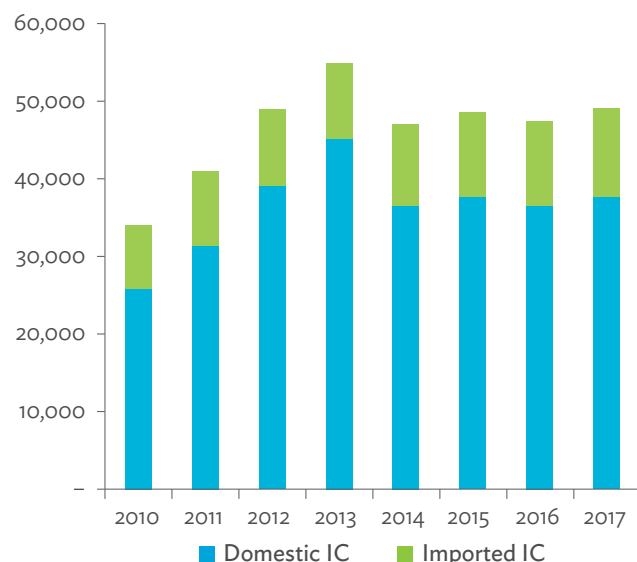
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**Figure 9.1.4a: Intermediate Consumption Shares by 5-Sector Aggregation, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

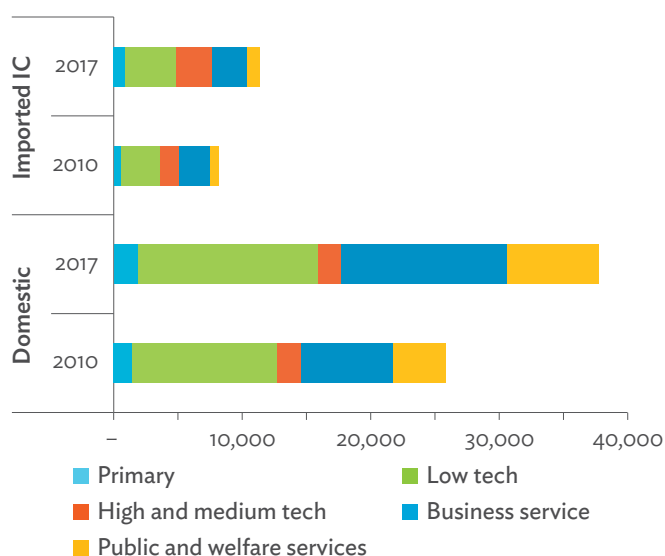
[Click here for figure data](#)**Figure 9.1.4b: Intermediate Consumption Ratio to Output by 5-Sector Aggregation, 2010 and 2017 (%)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)**Figure 9.1.4c: Shares of Domestic and Imported Intermediate Consumption, 2010–2017 (\$ million)**

\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

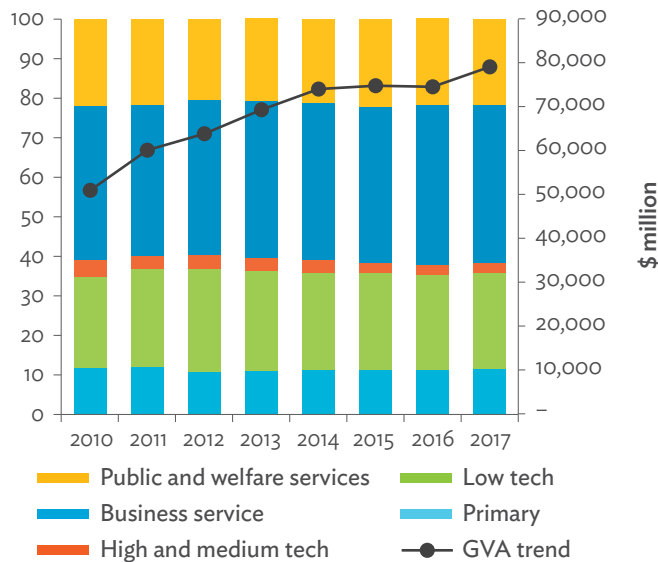
[Click here for figure data](#)**Figure 9.1.4d: Shares of Domestic and Imported Intermediate Consumption by 5-Sector Aggregation, 2010 and 2017 (\$ million)**

\$ = United States dollar, IC = intermediate consumption.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.5a: Gross Value Added Trend and Shares by 5-Sector Aggregation, 2010–2017 (% and \$ million)**

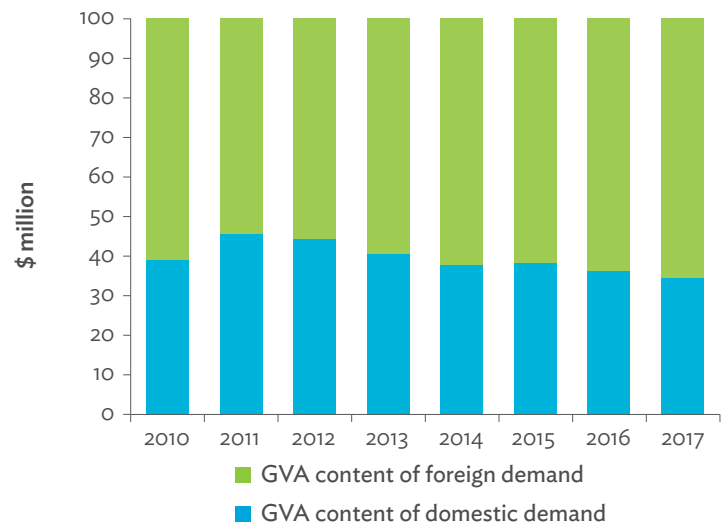


\$ = United States dollar, GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.5b: Gross Value Added Share Attributed to Foreign and Domestic Final Demand, 2010–2017 (%)**

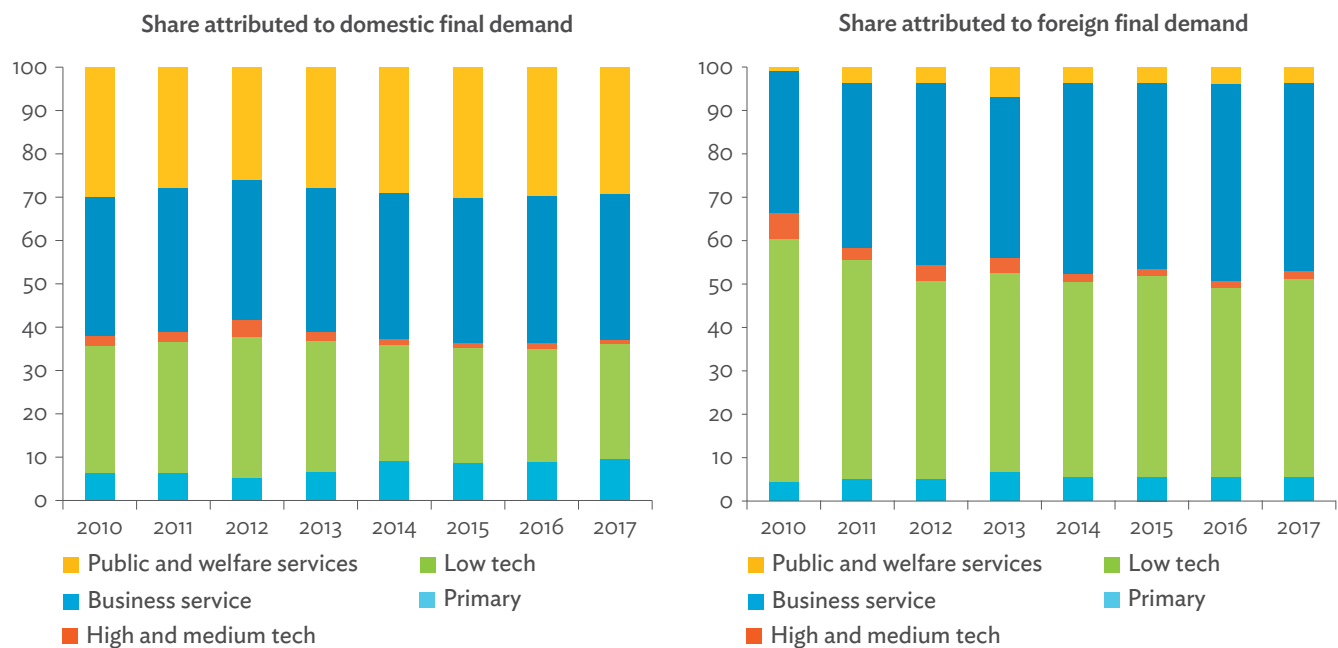


GVA = gross value added.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.1.5c: Sectoral Shares of Gross Value Added Content in Domestic and Foreign Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 9.1.1: Gross Value Added Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.895	0.869	0.862	0.870	0.875	0.873	0.868	0.869
Mining and quarrying	0.914	0.918	0.931	0.924	0.926	0.921	0.920	0.922
Food, beverages, and tobacco	0.842	0.874	0.878	0.879	0.873	0.861	0.864	0.862
Textiles and textile products	0.685	0.782	0.787	0.802	0.798	0.785	0.787	0.785
Leather, leather products, and footwear	0.780	0.779	0.791	0.797	0.788	0.773	0.765	0.758
Wood and products of wood and cork	0.916	0.863	0.842	0.840	0.824	0.808	0.814	0.809
Pulp, paper, paper products, printing, and publishing	0.609	0.696	0.660	0.719	0.732	0.723	0.722	0.704
Coke, refined petroleum, and nuclear fuel	0.287	0.481	0.651	0.605	0.451	0.335	0.245	0.266
Chemicals and chemical products	0.722	0.647	0.675	0.686	0.662	0.641	0.648	0.643
Rubber and plastics	0.809	0.810	0.819	0.818	0.799	0.789	0.791	0.790
Other nonmetallic minerals	0.809	0.738	0.773	0.759	0.715	0.696	0.698	0.689
Basic metals and fabricated metal	0.540	0.526	0.508	0.494	0.423	0.402	0.412	0.410
Machinery, nec	0.646	0.685	0.636	0.550	0.461	0.453	0.488	0.470
Electrical and optical equipment	0.675	0.617	0.562	0.563	0.508	0.482	0.496	0.492
Transport equipment	0.619	0.609	0.551	0.564	0.529	0.502	0.515	0.512
Manufacturing, nec; recycling	0.813	0.770	0.773	0.778	0.767	0.747	0.752	0.741
Electricity, gas, and water supply	0.794	0.763	0.793	0.794	0.774	0.760	0.779	0.775
Construction	0.810	0.742	0.772	0.788	0.780	0.773	0.775	0.766
Sale, maintenance, and repair	0.925	0.928	0.931	0.928	0.931	0.929	0.926	0.926
Wholesale trade and commission trade	0.936	0.935	0.940	0.935	0.936	0.933	0.931	0.934
Retail trade	0.919	0.921	0.925	0.924	0.927	0.925	0.922	0.921
Hotels and restaurants	0.858	0.868	0.882	0.883	0.879	0.873	0.867	0.869
Inland transport	0.775	0.799	0.829	0.835	0.837	0.829	0.825	0.826
Water transport	0.977	0.983	0.986	0.914	0.867	0.837	0.830	0.857
Air transport	0.514	0.605	0.658	0.645	0.603	0.602	0.590	0.595
Other supporting and auxiliary transport activities	0.769	0.883	0.897	0.893	0.888	0.882	0.880	0.878
Post and telecommunications	0.660	0.632	0.686	0.700	0.683	0.680	0.676	0.606
Financial intermediation	0.940	0.936	0.942	0.935	0.937	0.935	0.924	0.919
Real estate activities	0.931	0.933	0.938	0.935	0.941	0.939	0.937	0.935
Renting of M&Eq and other business activities	0.878	0.833	0.843	0.850	0.849	0.846	0.839	0.830
Public administration and defense; compulsory social security	0.974	0.977	0.977	0.970	0.977	0.976	0.976	0.974
Education	0.967	0.987	0.989	0.987	0.990	0.990	0.989	0.988
Health and social work	0.945	0.945	0.944	0.942	0.946	0.947	0.945	0.944
Other community, social, and personal services	0.863	0.846	0.853	0.861	0.861	0.858	0.852	0.840
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.1.2: Import Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.123	0.120	0.128	0.119	0.116	0.116	0.119	0.116
Mining and quarrying	0.071	0.071	0.061	0.066	0.065	0.069	0.069	0.064
Food, beverages, and tobacco	0.134	0.109	0.108	0.106	0.111	0.123	0.116	0.114
Textiles and textile products	0.282	0.192	0.190	0.175	0.179	0.189	0.180	0.178
Leather, leather products, and footwear	0.155	0.161	0.158	0.149	0.154	0.163	0.152	0.149
Wood and products of wood and cork	0.068	0.120	0.141	0.141	0.156	0.173	0.162	0.157
Pulp, paper, paper products, printing, and publishing	0.313	0.262	0.298	0.243	0.232	0.239	0.234	0.239
Coke, refined petroleum, and nuclear fuel	0.691	0.462	0.312	0.351	0.493	0.604	0.679	0.640
Chemicals and chemical products	0.214	0.320	0.299	0.287	0.311	0.328	0.318	0.313
Rubber and plastics	0.161	0.177	0.170	0.169	0.188	0.197	0.194	0.191
Other nonmetallic minerals	0.150	0.227	0.200	0.210	0.249	0.260	0.248	0.242
Basic metals and fabricated metal	0.354	0.414	0.437	0.445	0.508	0.534	0.523	0.527
Machinery, nec	0.263	0.273	0.322	0.413	0.505	0.512	0.473	0.488
Electrical and optical equipment	0.239	0.336	0.390	0.383	0.427	0.437	0.440	0.443
Transport equipment	0.276	0.341	0.398	0.379	0.405	0.416	0.419	0.422
Manufacturing, nec; recycling	0.138	0.198	0.199	0.193	0.203	0.222	0.212	0.214
Electricity, gas, and water supply	0.170	0.197	0.176	0.173	0.190	0.202	0.176	0.160
Construction	0.136	0.214	0.194	0.178	0.185	0.188	0.182	0.181
Sale, maintenance, and repair	0.058	0.056	0.055	0.057	0.054	0.056	0.056	0.052
Wholesale trade and commission trade	0.048	0.050	0.047	0.051	0.050	0.051	0.051	0.045
Retail trade	0.064	0.062	0.061	0.061	0.058	0.059	0.060	0.056
Hotels and restaurants	0.105	0.111	0.101	0.099	0.103	0.107	0.110	0.103
Inland transport	0.184	0.172	0.148	0.141	0.140	0.145	0.147	0.137
Water transport	0.021	0.015	0.012	0.075	0.117	0.145	0.150	0.120
Air transport	0.410	0.342	0.300	0.304	0.328	0.321	0.323	0.291
Other supporting and auxiliary transport activities	0.195	0.089	0.081	0.085	0.090	0.094	0.093	0.087
Post and telecommunications	0.248	0.299	0.262	0.247	0.261	0.257	0.265	0.313
Financial intermediation	0.048	0.043	0.042	0.047	0.046	0.046	0.054	0.056
Real estate activities	0.050	0.050	0.048	0.050	0.045	0.047	0.046	0.045
Renting of M&Eq and other business activities	0.089	0.133	0.128	0.121	0.122	0.122	0.120	0.123
Public administration and defense; compulsory social security	0.021	0.019	0.019	0.026	0.019	0.020	0.020	0.020
Education	0.026	0.009	0.007	0.009	0.007	0.007	0.006	0.007
Health and social work	0.048	0.051	0.052	0.054	0.050	0.050	0.051	0.051
Other community, social, and personal services	0.098	0.118	0.116	0.109	0.109	0.110	0.110	0.114
Private households with employed persons	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.1.3: Output Multipliers**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.270	1.246	1.270	1.350	1.238	1.244	1.239	1.233
Mining and quarrying	1.177	1.211	1.246	1.342	1.225	1.229	1.223	1.211
Food, beverages, and tobacco	1.646	1.643	1.676	1.655	1.423	1.473	1.437	1.428
Textiles and textile products	1.469	1.684	1.707	1.828	1.737	1.784	1.732	1.728
Leather, leather products, and footwear	1.664	1.902	1.928	1.920	1.705	1.746	1.681	1.675
Wood and products of wood and cork	1.560	1.637	1.643	1.616	1.365	1.410	1.373	1.361
Pulp, paper, paper products, printing, and publishing	1.397	1.546	1.525	1.941	2.007	2.045	2.005	2.029
Coke, refined petroleum, and nuclear fuel	1.182	1.660	2.880	2.535	1.465	1.582	1.631	1.597
Chemicals and chemical products	1.481	1.639	1.684	1.603	1.291	1.320	1.293	1.283
Rubber and plastics	1.572	1.595	1.618	1.672	1.537	1.571	1.546	1.537
Other nonmetallic minerals	1.635	1.469	1.522	1.612	1.488	1.515	1.475	1.460
Basic metals and fabricated metal	1.439	1.437	1.445	1.354	1.022	1.033	1.019	1.016
Machinery, nec	1.442	1.328	1.314	1.492	1.396	1.408	1.353	1.327
Electrical and optical equipment	1.430	1.423	1.395	1.342	1.038	1.049	1.036	1.031
Transport equipment	1.370	1.324	1.301	1.299	1.075	1.085	1.073	1.067
Manufacturing, nec; recycling	1.472	1.456	1.467	1.529	1.408	1.447	1.408	1.405
Electricity, gas, and water supply	1.416	1.617	1.729	1.791	1.614	1.627	1.532	1.498
Construction	1.639	1.476	1.511	1.610	1.493	1.498	1.473	1.454
Sale, maintenance, and repair	1.284	1.267	1.279	1.369	1.276	1.277	1.275	1.256
Wholesale trade and commission trade	1.230	1.225	1.237	1.354	1.285	1.286	1.284	1.253
Retail trade	1.312	1.292	1.305	1.379	1.270	1.272	1.269	1.256
Hotels and restaurants	1.594	1.606	1.644	1.717	1.597	1.608	1.617	1.593
Inland transport	1.333	1.415	1.511	1.613	1.498	1.503	1.500	1.474
Water transport	1.024	1.035	1.046	1.659	1.648	1.670	1.676	1.643
Air transport	1.560	1.817	2.062	1.808	1.097	1.105	1.095	1.083
Other supporting and auxiliary transport activities	1.297	1.449	1.473	1.644	1.597	1.604	1.595	1.579
Post and telecommunications	1.680	1.712	1.787	1.799	1.599	1.604	1.591	1.550
Financial intermediation	1.177	1.254	1.261	1.403	1.351	1.352	1.409	1.399
Real estate activities	1.219	1.234	1.243	1.333	1.243	1.245	1.240	1.234
Renting of M&Eq and other business activities	1.446	1.453	1.472	1.562	1.450	1.453	1.433	1.412
Public administration and defense; compulsory social security	1.060	1.074	1.079	1.174	1.084	1.085	1.084	1.081
Education	1.108	1.113	1.119	1.190	1.123	1.123	1.121	1.121
Health and social work	1.113	1.119	1.123	1.188	1.087	1.088	1.088	1.086
Other community, social, and personal services	1.534	1.526	1.549	1.673	1.591	1.594	1.583	1.561
Private households with employed persons	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

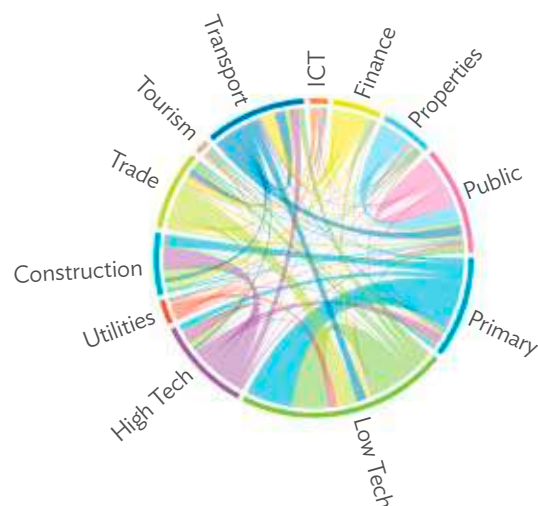
Source: Asian Development Bank Multi-Regional Input–Output Database.

# DOMESTIC INTERINDUSTRY LINKAGES

# 9.2

## Sri Lanka

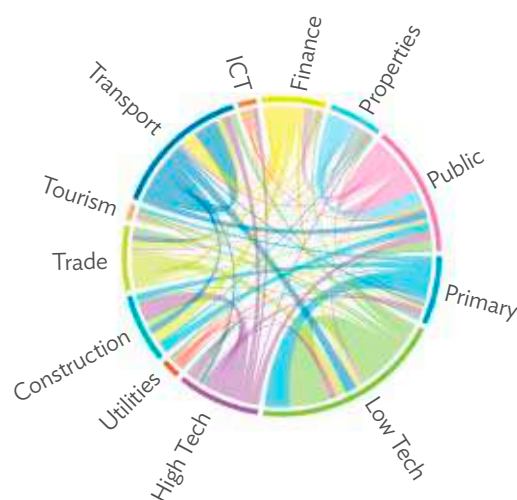
**Figure 9.2.1a: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2010**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

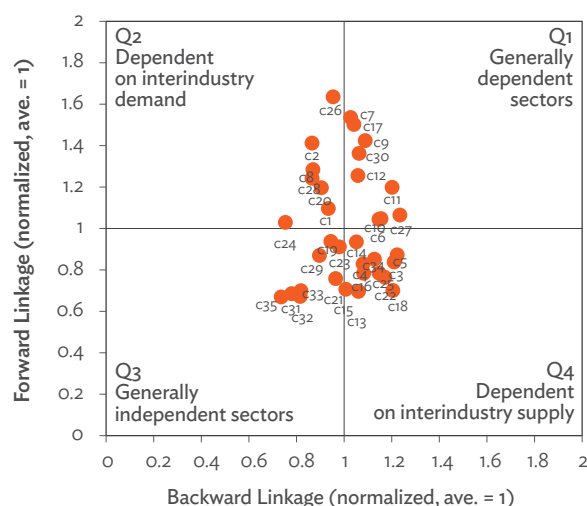
**Figure 9.2.1b: Patterns of Interindustry Transactions Based on the Domestic Consumption Matrix, 2017**



ICT = information and communication technology.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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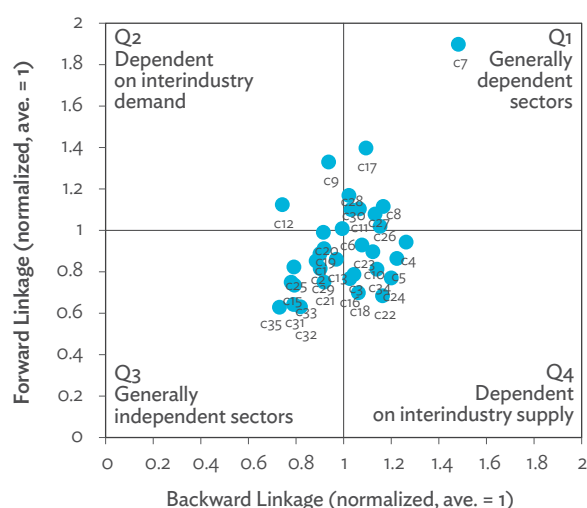
**Figure 9.2.2a: Backward and Forward Linkages by Industry, 2010**



Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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**Figure 9.2.2b: Backward and Forward Linkages by Industry, 2017**



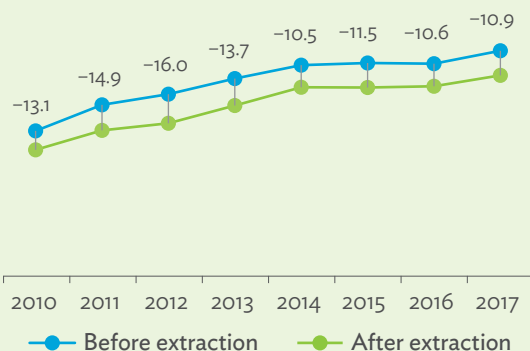
Note: Mapping of sectors based on normalized backward and forward linkages.  
Source: Asian Development Bank Multi-Regional Input-Output Database.

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### Box 9: Hypothetical Extraction of Food, Beverages, and Tobacco Industry in Sri Lanka

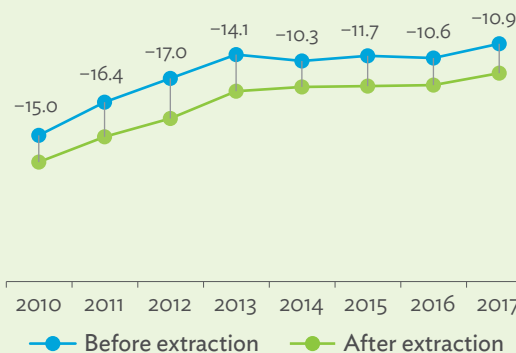
**Figure 9.2.3a: Potential Decline in Gross Value Added, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

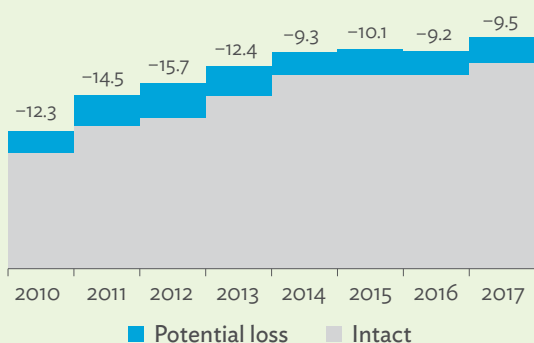
**Figure 9.2.4a: Potential Decline in Gross Output, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

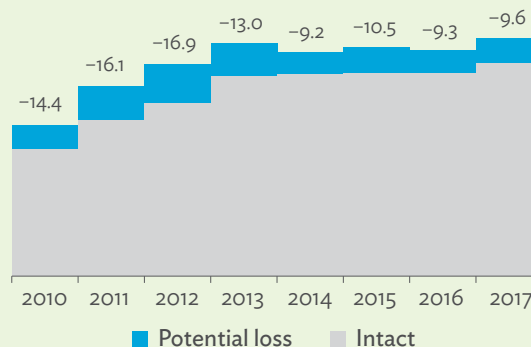
**Figure 9.2.3b: Potential Decline in Gross Value Added Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

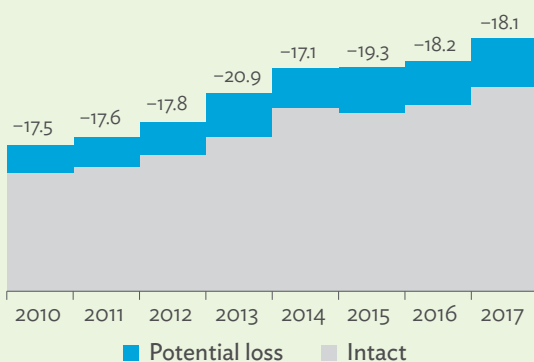
**Figure 9.2.4b: Potential Decline in Gross Output Attributed to Domestic Final Demand, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

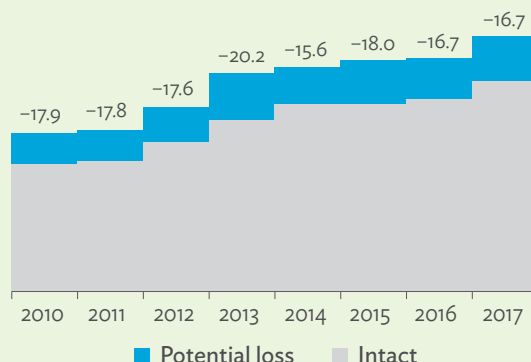
**Figure 9.2.3c: Potential Decline in Gross Value Added Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)



**Figure 9.2.4c: Potential Decline in Gross Output Attributed to Exports, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

Table 9.2.1: Input–Output Backward Linkage



Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.921	0.875	0.854	0.869	0.897	0.889	0.896	0.901
Mining and quarrying	0.854	0.850	0.837	0.864	0.887	0.879	0.884	0.884
Food, beverages, and tobacco	1.195	1.153	1.127	1.066	1.030	1.054	1.039	1.043
Textiles and textile products	1.066	1.181	1.148	1.177	1.258	1.276	1.252	1.262
Leather, leather products, and footwear	1.208	1.334	1.297	1.236	1.235	1.249	1.216	1.224
Wood and products of wood and cork	1.132	1.149	1.105	1.041	0.989	1.009	0.993	0.994
Pulp, paper, paper products, printing, and publishing	1.014	1.084	1.026	1.250	1.454	1.463	1.450	1.482
Coke, refined petroleum, and nuclear fuel	0.858	1.165	1.937	1.632	1.061	1.132	1.180	1.166
Chemicals and chemical products	1.075	1.150	1.133	1.032	0.935	0.944	0.935	0.937
Rubber and plastics	1.140	1.119	1.088	1.077	1.113	1.124	1.118	1.123
Other nonmetallic minerals	1.186	1.031	1.023	1.038	1.078	1.084	1.067	1.066
Basic metals and fabricated metal	1.044	1.008	0.971	0.872	0.740	0.739	0.737	0.742
Machinery, nec	1.047	0.931	0.883	0.961	1.011	1.007	0.978	0.969
Electrical and optical equipment	1.038	0.999	0.938	0.864	0.752	0.750	0.750	0.753
Transport equipment	0.994	0.929	0.874	0.836	0.778	0.776	0.776	0.780
Manufacturing, nec; recycling	1.068	1.021	0.987	0.985	1.020	1.035	1.019	1.026
Electricity, gas, and water supply	1.028	1.134	1.163	1.153	1.169	1.163	1.108	1.094
Construction	1.190	1.036	1.016	1.037	1.082	1.071	1.065	1.062
Sale, maintenance, and repair	0.932	0.889	0.860	0.881	0.924	0.914	0.922	0.918
Wholesale trade and commission trade	0.893	0.859	0.832	0.872	0.931	0.920	0.929	0.915
Retail trade	0.952	0.906	0.878	0.888	0.920	0.910	0.918	0.917
Hotels and restaurants	1.157	1.127	1.105	1.106	1.156	1.150	1.170	1.163
Inland transport	0.967	0.993	1.016	1.039	1.085	1.075	1.085	1.077
Water transport	0.743	0.726	0.703	1.068	1.194	1.195	1.212	1.200
Air transport	1.132	1.275	1.387	1.164	0.795	0.790	0.792	0.791
Other supporting and auxiliary transport activities	0.941	1.017	0.991	1.058	1.157	1.147	1.154	1.153
Post and telecommunications	1.219	1.201	1.202	1.159	1.158	1.147	1.151	1.132
Financial intermediation	0.854	0.880	0.848	0.903	0.979	0.967	1.019	1.022
Real estate activities	0.885	0.866	0.836	0.858	0.900	0.891	0.897	0.901
Renting of M&Eq and other business activities	1.049	1.019	0.990	1.006	1.051	1.039	1.036	1.031
Public administration and defense; compulsory social security	0.769	0.754	0.726	0.756	0.785	0.776	0.784	0.790
Education	0.804	0.781	0.752	0.766	0.813	0.803	0.811	0.819
Health and social work	0.808	0.785	0.755	0.765	0.787	0.778	0.787	0.793
Other community, social, and personal services	1.113	1.071	1.042	1.077	1.153	1.140	1.145	1.140
Private households with employed persons	0.726	0.702	0.672	0.644	0.724	0.715	0.723	0.730
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.2.2: Input–Output Forward Linkage**

	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	1.088	1.076	1.134	1.007	0.921	0.948	0.944	0.888
Mining and quarrying	1.403	1.498	1.000	1.024	1.008	1.040	0.999	0.853
Food, beverages, and tobacco	0.830	0.830	0.797	0.795	0.840	0.854	0.851	0.788
Textiles and textile products	0.821	0.987	0.959	0.975	1.006	1.002	0.978	0.944
Leather, leather products, and footwear	0.865	0.922	0.884	0.855	0.884	0.881	0.865	0.865
Wood and products of wood and cork	1.036	1.046	1.144	1.155	1.092	1.112	1.098	1.009
Pulp, paper, paper products, printing, and publishing	1.526	1.580	1.728	1.767	1.654	1.586	1.629	1.900
Coke, refined petroleum, and nuclear fuel	1.275	1.396	1.592	1.612	1.376	1.494	1.428	1.116
Chemicals and chemical products	1.415	1.381	1.501	1.566	1.416	1.432	1.430	1.331
Rubber and plastics	1.039	1.118	1.147	1.123	1.046	1.092	1.053	0.898
Other nonmetallic minerals	1.190	1.199	1.211	1.172	1.182	1.185	1.176	1.105
Basic metals and fabricated metal	1.246	1.171	1.212	1.307	1.258	1.288	1.271	1.125
Machinery, nec	0.688	0.878	0.940	0.866	0.850	0.832	0.851	0.861
Electrical and optical equipment	0.927	1.061	1.176	1.336	1.456	1.323	1.341	3.201
Transport equipment	0.699	0.696	0.671	0.665	0.724	0.712	0.720	0.750
Manufacturing, nec; recycling	0.776	0.820	0.798	0.847	0.877	0.917	0.897	0.768
Electricity, gas, and water supply	1.493	1.521	1.443	1.464	1.507	1.505	1.505	1.399
Construction	0.693	0.701	0.672	0.663	0.721	0.718	0.726	0.699
Sale, maintenance, and repair	0.929	0.953	1.029	0.989	0.959	0.961	0.959	0.912
Wholesale trade and commission trade	1.188	1.257	1.238	1.187	1.086	1.097	1.084	0.991
Retail trade	0.750	0.751	0.742	0.745	0.780	0.772	0.781	0.751
Hotels and restaurants	0.756	0.706	0.663	0.655	0.711	0.704	0.714	0.685
Inland transport	0.903	0.890	0.991	0.992	0.979	0.975	0.978	0.930
Water transport	1.021	0.982	1.033	0.854	0.800	0.796	0.803	0.771
Air transport	0.776	0.747	0.722	0.755	0.870	0.865	0.866	0.824
Other supporting and auxiliary transport activities	1.625	1.105	1.062	1.052	1.091	1.072	1.081	1.020
Post and telecommunications	1.056	1.087	1.017	1.091	1.114	1.110	1.129	1.080
Financial intermediation	1.233	1.177	1.180	1.197	1.231	1.217	1.229	1.170
Real estate activities	0.862	0.827	0.788	0.795	0.844	0.831	0.850	0.816
Renting of M&Eq and other business activities	1.353	1.073	1.085	1.135	1.137	1.130	1.150	1.101
Public administration and defense; compulsory social security	0.678	0.666	0.629	0.612	0.666	0.662	0.673	0.643
Education	0.664	0.654	0.617	0.594	0.653	0.649	0.658	0.631
Health and social work	0.692	0.750	0.754	0.739	0.767	0.762	0.777	0.736
Other community, social, and personal services	0.844	0.840	0.828	0.818	0.839	0.829	0.849	0.813
Private households with employed persons	0.662	0.652	0.614	0.592	0.651	0.647	0.656	0.629
	lowest linkage							highest linkage

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Note: Values are normalized values.

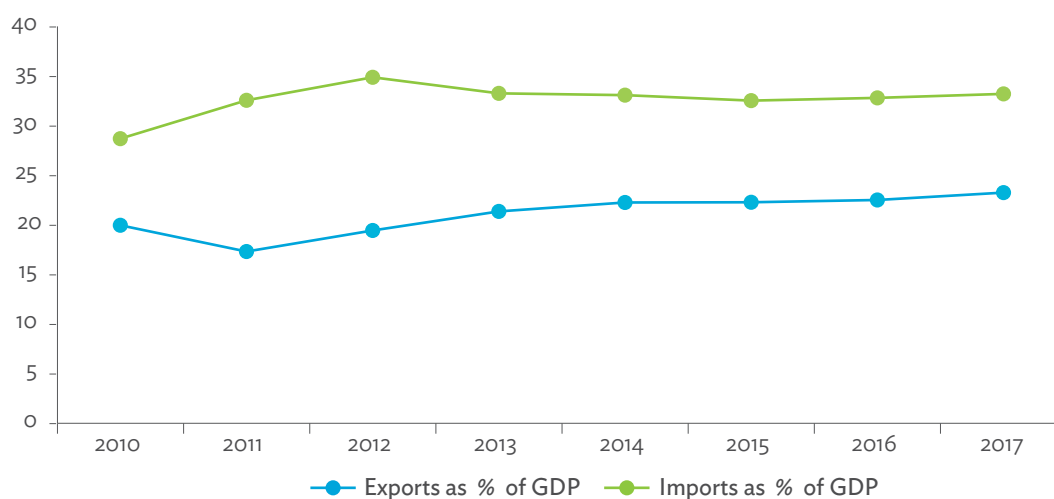
Source: Asian Development Bank Multi-Regional Input–Output Database.

# INTERNATIONAL TRADE AND PRODUCTION LINKAGES

## 9.3

### Sri Lanka

**Figure 9.3.1: Exports and Imports as a Share of Gross Domestic Product, 2010–2017 (%)**

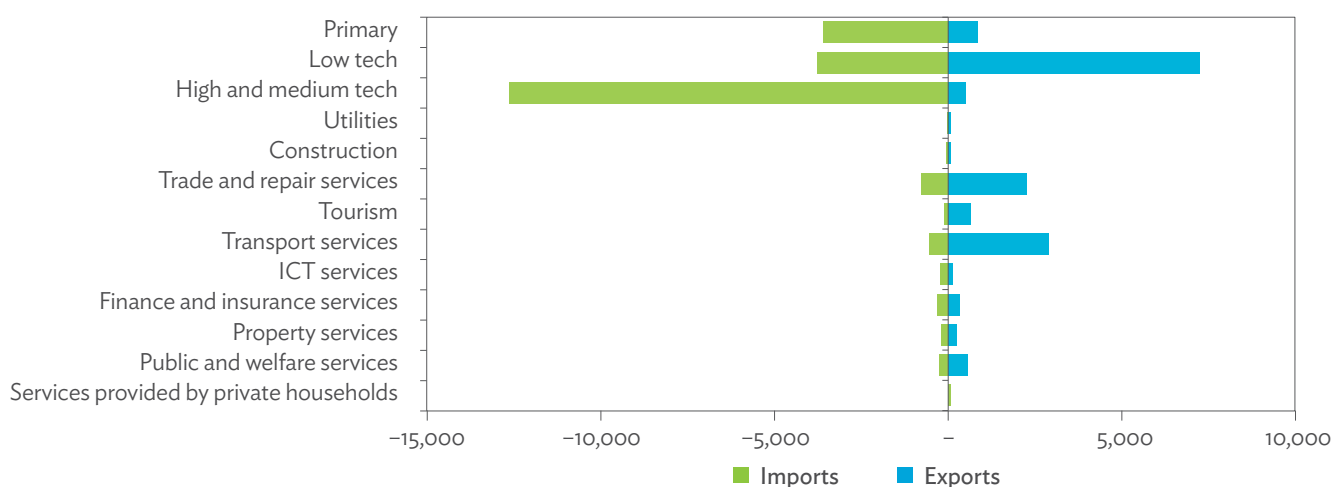


GDP = gross domestic product.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

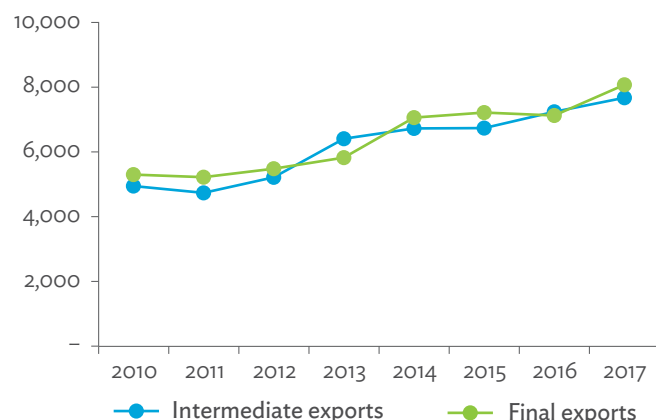
**Figure 9.3.2: Total Foreign Trade by Sector, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

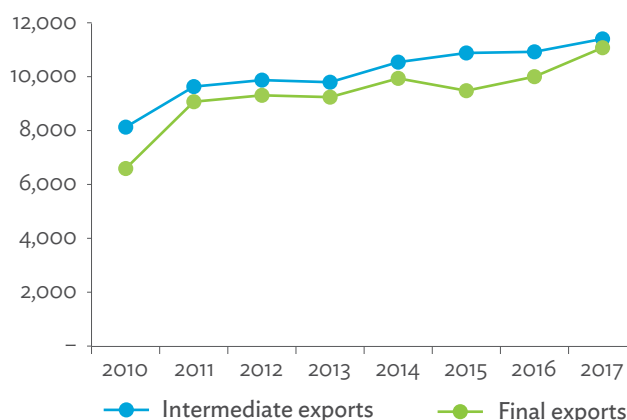
[Click here for figure data](#)

**Figure 9.3.3: Trend of Export Activity by End-Use Category, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

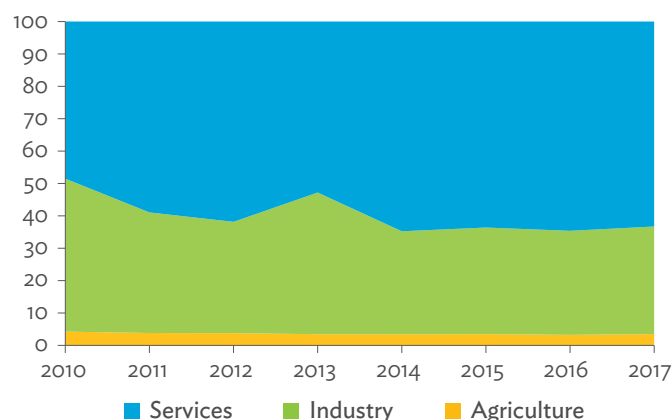
[Click here for figure data](#)

**Figure 9.3.6: Trend of Import Activity by End-Use Category, 2010–2017 (\$ million)**

\$ = United States dollar.

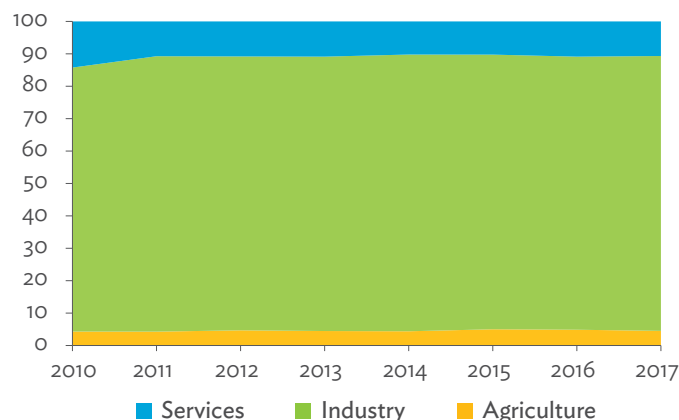
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.4: Shares of Sectors to Total Intermediate Exports, 2010–2017 (%)**

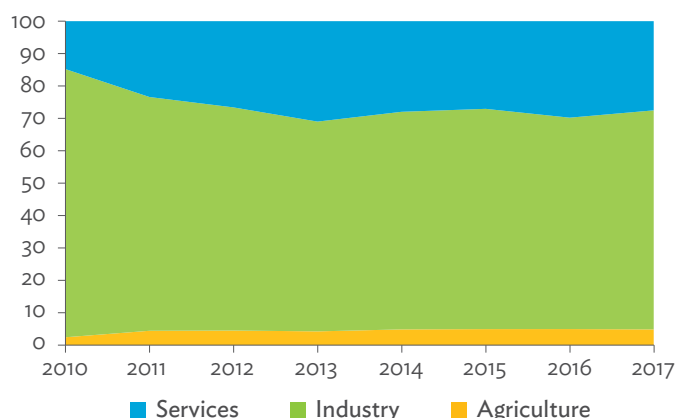
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.7: Shares of Sectors to Total Intermediate Imports, 2010–2017 (%)**

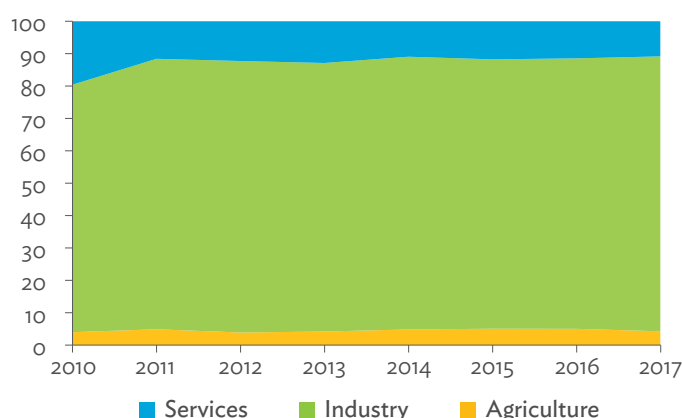
Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.5: Shares of Sectors to Total Final Exports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

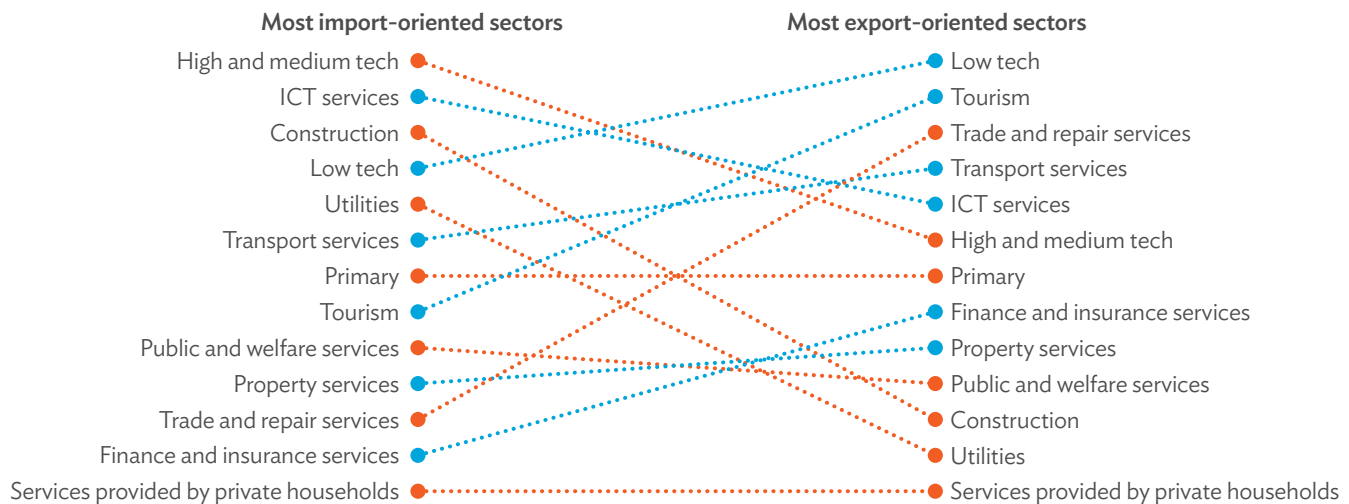
[Click here for figure data](#)

**Figure 9.3.8: Shares of Sectors to Total Final Imports, 2010–2017 (%)**

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.9: Ranking of Sectors According to Imported Input-to-Output Ratios and Exported Output-to-Output Ratios, 2017**

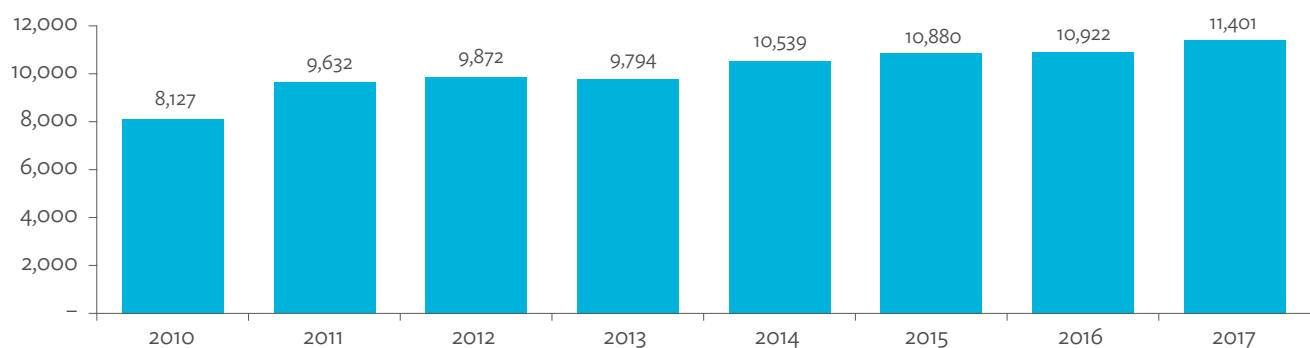


ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.10: Total Foreign-Traded Input, 2010–2017 (\$ million)**

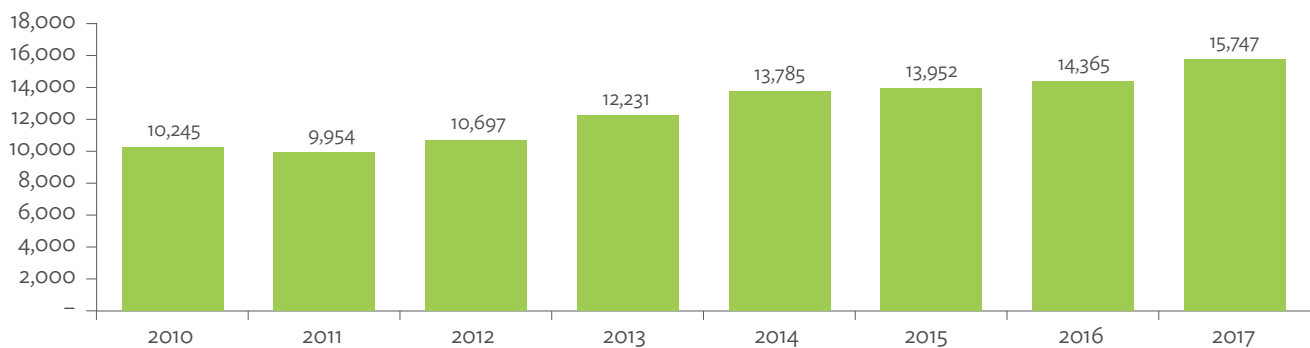


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.11: Total Foreign-Traded Output, 2010–2017 (\$ million)**

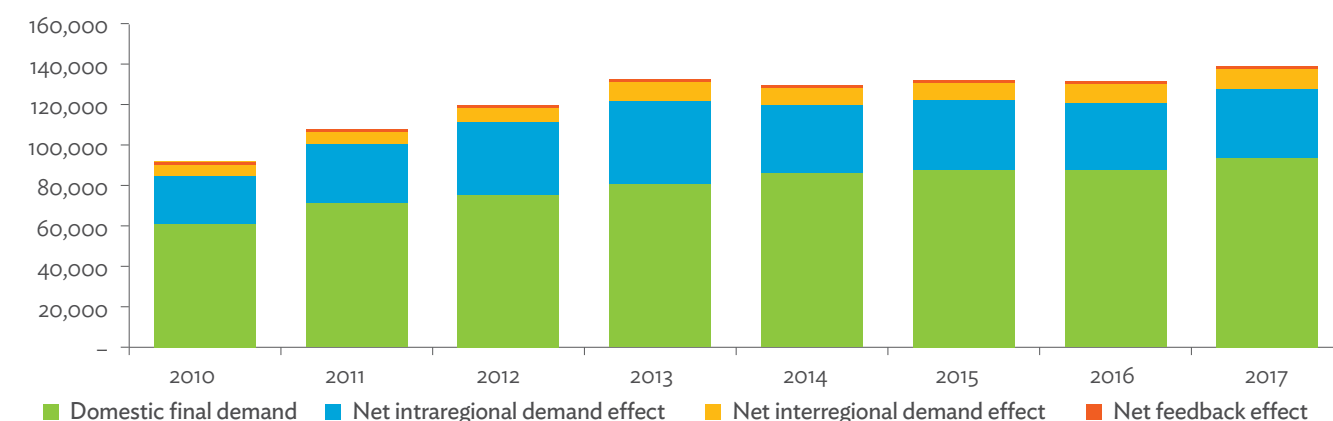


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.12: Decomposition of Total Production Attributable to Domestic and Interregional Demand, 2010–2017 (\$ million)**

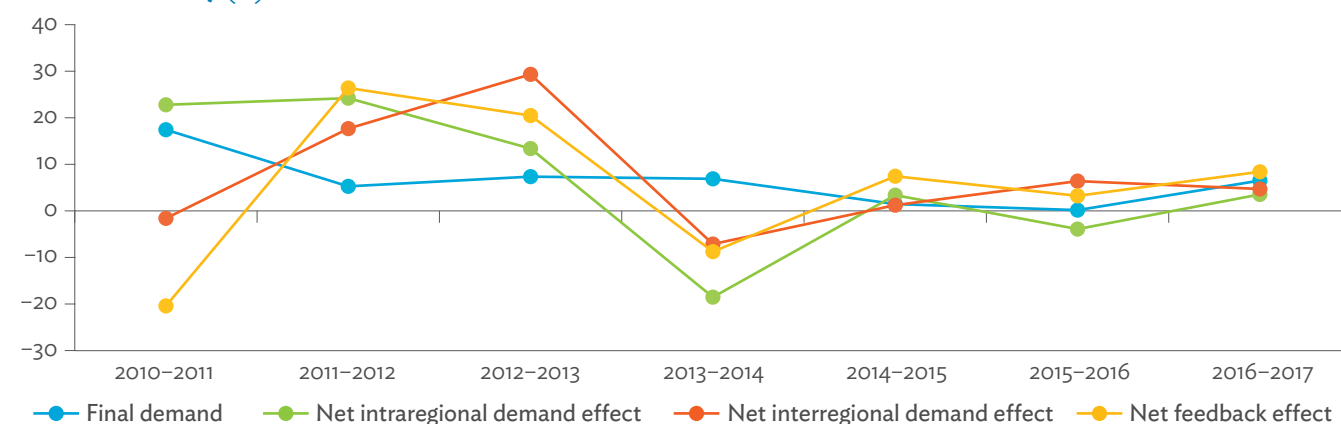


\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

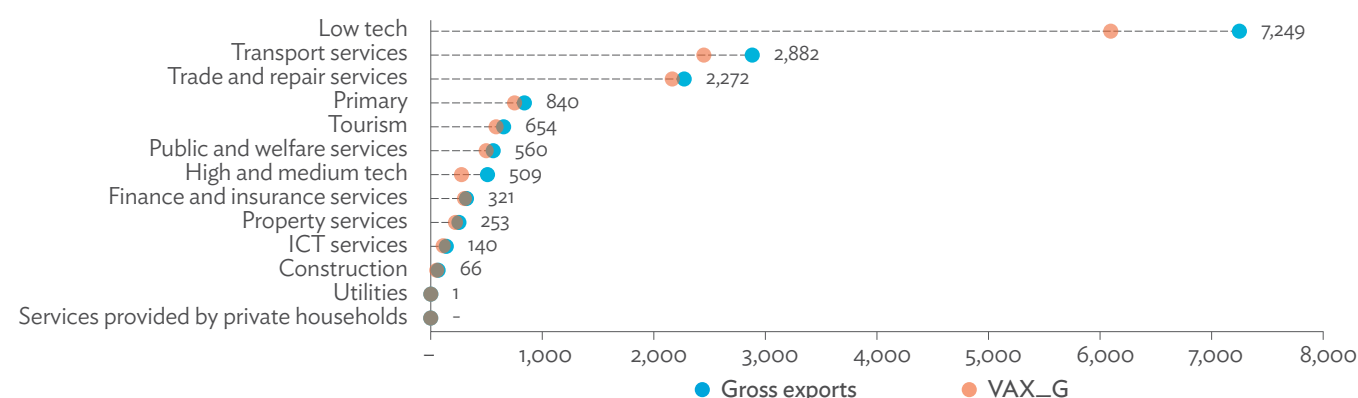
**Figure 9.3.13: Growth Rates of Production Components Based on Two-Region Input–Output Table, 2010–2017 (%)**



Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.14: Gross Exports versus Value-Added Exports by Sector, 2017 (\$ million)**

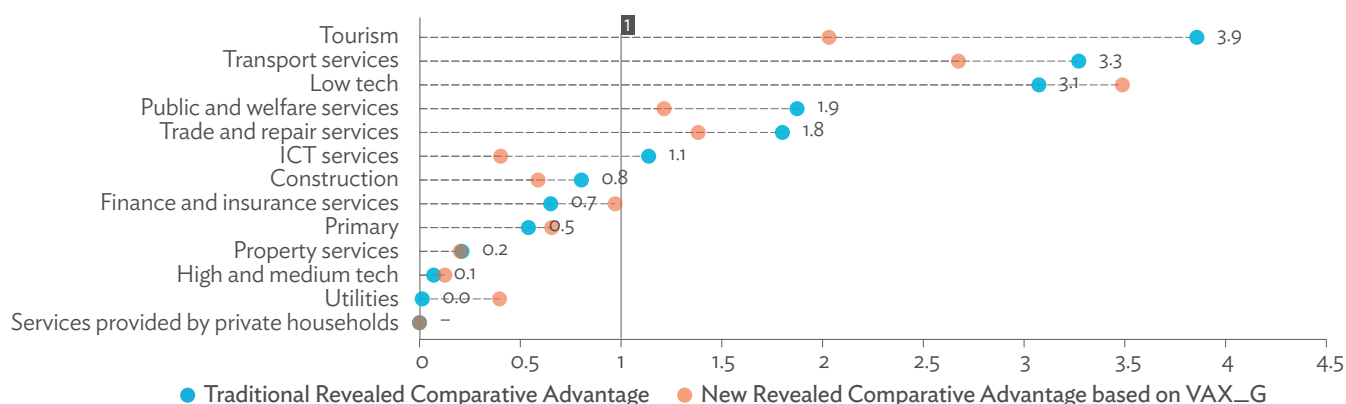


\$ = United States dollar, ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.3.15: Comparison of Traditional and New Revealed Comparative Advantage by Sector, 2017**

ICT = information and communication technology.

Note: "VAX\_G" refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Table 9.3.1: Production Attributable to Domestic Linkages by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Final demand								
Primary	3,499	4,373	3,829	5,316	7,323	7,090	7,168	8,178
Low tech	21,437	24,531	26,828	27,458	26,919	27,568	26,811	29,346
High and medium tech	2,244	2,419	3,806	2,355	2,088	1,839	2,144	1,971
Business service	19,616	23,936	24,784	26,878	29,661	29,724	30,725	31,951
Personal service	14,137	16,295	16,079	18,860	20,445	21,480	20,997	22,117
Intraregional effects (M1)								
Primary	3,959	4,749	4,888	4,897	3,424	3,788	3,513	3,377
Low tech	4,959	7,491	8,405	9,860	8,441	9,251	8,012	8,006
High and medium tech	3,257	4,153	7,807	6,808	4,162	4,303	4,134	4,788
Business service	9,633	10,371	12,406	15,889	14,260	14,086	14,363	14,850
Personal service	1,935	2,389	2,706	3,608	3,168	3,158	3,210	3,388

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.3.2: Production Attributable to Linkages with the Rest of the World by Sector, 2010–2017 (\$ million)**

Sectors	2010	2011	2012	2013	2014	2015	2016	2017
Interregional effects (M2)								
Primary	576	600	533	960	576	612	645	688
Low tech	2,382	2,124	2,172	2,975	2,750	2,890	2,880	3,121
High and medium tech	642	443	945	1,313	435	469	503	528
Business service	3,280	3,394	4,065	4,767	5,496	5,403	5,937	6,109
Personal service	129	335	400	479	491	493	533	547
Feedback effects (M3)								
Primary	0.10	0.09	0.08	0.13	0.10	0.11	0.13	0.14
Low tech	0.78	0.50	0.51	0.61	0.62	0.66	0.60	0.71
High and medium tech	0.11	0.08	0.25	0.35	0.09	0.11	0.11	0.12
Business service	0.57	0.55	0.69	0.76	0.87	0.93	1.02	1.05
Personal service	0.03	0.05	0.06	0.07	0.07	0.08	0.09	0.09

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table 9.3.3: Net Intraregional Multipliers (M1), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.2698	0.2465	0.2702	0.3497	0.2384	0.2435	0.2393	0.2331
Mining and quarrying	0.1765	0.2112	0.2455	0.3419	0.2251	0.2294	0.2227	0.2110
Food, beverages, and tobacco	0.6464	0.6428	0.6762	0.6552	0.4225	0.4735	0.4366	0.4284
Textiles and textile products	0.4687	0.6839	0.7070	0.8281	0.7369	0.7840	0.7316	0.7285
Leather, leather products, and footwear	0.6641	0.9020	0.9285	0.9197	0.7046	0.7464	0.6807	0.6752
Wood and products of wood and cork	0.5598	0.6370	0.6429	0.6162	0.3653	0.4102	0.3734	0.3607
Pulp, paper, paper products, printing, and publishing	0.3975	0.5457	0.5251	0.9407	1.0073	1.0450	1.0047	1.0290
Coke, refined petroleum, and nuclear fuel	0.1817	0.6599	1.8801	1.5347	0.4650	0.5824	0.6311	0.5968
Chemicals and chemical products	0.4810	0.6387	0.6844	0.6028	0.2913	0.3196	0.2932	0.2827
Rubber and plastics	0.5715	0.5946	0.6176	0.6721	0.5366	0.5711	0.5459	0.5371
Other nonmetallic minerals	0.6349	0.4690	0.5219	0.6119	0.4885	0.5150	0.4750	0.4596
Basic metals and fabricated metal	0.4393	0.4370	0.4445	0.3538	0.0216	0.0325	0.0189	0.0163
Machinery, nec	0.4423	0.3275	0.3138	0.4920	0.3964	0.4085	0.3528	0.3270
Electrical and optical equipment	0.4304	0.4231	0.3946	0.3423	0.0384	0.0485	0.0362	0.0313
Transport equipment	0.3700	0.3241	0.3005	0.2989	0.0747	0.0851	0.0729	0.0673
Manufacturing, nec; recycling	0.4723	0.4556	0.4672	0.5290	0.4085	0.4468	0.4083	0.4048
Electricity, gas, and water supply	0.4161	0.6167	0.7294	0.7909	0.6136	0.6266	0.5317	0.4976
Construction	0.6393	0.4764	0.5110	0.6103	0.4933	0.4976	0.4726	0.4538
Sale, maintenance, and repair	0.2842	0.2674	0.2794	0.3689	0.2757	0.2772	0.2753	0.2564
Wholesale trade and commission trade	0.2302	0.2248	0.2372	0.3536	0.2849	0.2864	0.2843	0.2525
Retail trade	0.3118	0.2919	0.3052	0.3786	0.2697	0.2719	0.2693	0.2560
Hotels and restaurants	0.5938	0.6062	0.6440	0.7171	0.5967	0.6075	0.6173	0.5928
Inland transport	0.3331	0.4146	0.5113	0.6129	0.4982	0.5030	0.4999	0.4744
Water transport	0.0240	0.0347	0.0455	0.6593	0.6482	0.6701	0.6757	0.6431
Air transport	0.5604	0.8173	1.0622	0.8080	0.0972	0.1052	0.0953	0.0831
Other supporting and auxiliary transport activities	0.2971	0.4490	0.4734	0.6437	0.5971	0.6041	0.5952	0.5785
Post and telecommunications	0.6796	0.7118	0.7869	0.7994	0.5993	0.6037	0.5909	0.5499
Financial intermediation	0.1768	0.2544	0.2607	0.4027	0.3514	0.3518	0.4091	0.3994
Real estate activities	0.2189	0.2339	0.2434	0.3330	0.2431	0.2451	0.2405	0.2342
Renting of M&Eq and other business activities	0.4458	0.4529	0.4718	0.5618	0.4505	0.4526	0.4325	0.4118
Public administration and defense; compulsory social security	0.0597	0.0742	0.0793	0.1744	0.0838	0.0850	0.0836	0.0810
Education	0.1085	0.1128	0.1185	0.1902	0.1230	0.1228	0.1212	0.1209
Health and social work	0.1130	0.1191	0.1231	0.1875	0.0865	0.0882	0.0878	0.0860
Other community, social, and personal services	0.5338	0.5265	0.5491	0.6727	0.5913	0.5940	0.5832	0.5608
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.3.4: Net Interregional Multipliers (M2), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.3082	0.3130	0.3404	0.3187	0.3097	0.3129	0.3192	0.3141
Mining and quarrying	0.1755	0.1798	0.1556	0.1695	0.1642	0.1753	0.1767	0.1652
Food, beverages, and tobacco	0.3074	0.2577	0.2592	0.2534	0.2598	0.2879	0.2692	0.2679
Textiles and textile products	0.7631	0.5146	0.5158	0.4807	0.4898	0.5200	0.4955	0.4953
Leather, leather products, and footwear	0.4007	0.4262	0.4181	0.4014	0.4232	0.4487	0.4178	0.4130
Wood and products of wood and cork	0.1689	0.2853	0.3414	0.3369	0.3657	0.4062	0.3778	0.3692
Pulp, paper, paper products, printing, and publishing	0.7390	0.6290	0.7155	0.5953	0.5688	0.5838	0.5694	0.5854
Coke, refined petroleum, and nuclear fuel	1.4253	1.0009	0.7121	0.7918	1.0692	1.3433	1.5261	1.4324
Chemicals and chemical products	0.5504	0.8497	0.8024	0.7817	0.8524	0.9013	0.8743	0.8654
Rubber and plastics	0.3957	0.4413	0.4308	0.4324	0.4781	0.5030	0.4924	0.4879
Other nonmetallic minerals	0.3650	0.5073	0.4524	0.4821	0.5688	0.6064	0.5861	0.5631
Basic metals and fabricated metal	0.9560	1.1459	1.2179	1.2679	1.4649	1.5535	1.5261	1.5360
Machinery, nec	0.7020	0.7471	0.8889	1.1534	1.4160	1.4454	1.3395	1.3849
Electrical and optical equipment	0.6497	0.9373	1.1045	1.1010	1.2331	1.2706	1.2814	1.2944
Transport equipment	0.7628	0.9661	1.1398	1.0992	1.1843	1.2269	1.2396	1.2506
Manufacturing, nec; recycling	0.3593	0.5207	0.5257	0.5154	0.5443	0.6009	0.5762	0.5828
Electricity, gas, and water supply	0.4155	0.4872	0.4400	0.4366	0.4773	0.5120	0.4472	0.4125
Construction	0.3432	0.5116	0.4673	0.4367	0.4516	0.4653	0.4533	0.4560
Sale, maintenance, and repair	0.1370	0.1405	0.1337	0.1414	0.1395	0.1435	0.1438	0.1340
Wholesale trade and commission trade	0.1153	0.1194	0.1158	0.1291	0.1263	0.1305	0.1300	0.1149
Retail trade	0.1534	0.1517	0.1495	0.1532	0.1464	0.1499	0.1495	0.1428
Hotels and restaurants	0.2499	0.2632	0.2451	0.2423	0.2496	0.2590	0.2648	0.2512
Inland transport	0.4530	0.4348	0.3817	0.3664	0.3670	0.3836	0.3873	0.3671
Water transport	0.0487	0.0358	0.0306	0.1798	0.2711	0.3365	0.3510	0.2842
Air transport	0.9619	0.8269	0.7323	0.7490	0.8371	0.8294	0.8330	0.7511
Other supporting and auxiliary transport activities	0.4744	0.2243	0.2044	0.2173	0.2286	0.2387	0.2360	0.2242
Post and telecommunications	0.5919	0.7741	0.6797	0.6523	0.6971	0.6891	0.7123	0.8584
Financial intermediation	0.1021	0.1029	0.0986	0.1155	0.1122	0.1130	0.1330	0.1385
Real estate activities	0.1179	0.1202	0.1144	0.1223	0.1114	0.1163	0.1148	0.1146
Renting of M&Eq and other business activities	0.2131	0.3393	0.3305	0.3151	0.3180	0.3171	0.3112	0.3271
Public administration and defense; compulsory social security	0.0491	0.0460	0.0466	0.0634	0.0474	0.0486	0.0490	0.0499
Education	0.0608	0.0221	0.0166	0.0236	0.0167	0.0168	0.0161	0.0165
Health and social work	0.1240	0.1348	0.1391	0.1448	0.1358	0.1354	0.1390	0.1386
Other community, social, and personal services	0.2367	0.3011	0.2982	0.2827	0.2819	0.2849	0.2859	0.3014
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.3-5: Net Feedback Multipliers (M3), 2010–2017**

Industry	2010	2011	2012	2013	2014	2015	2016	2017
Agriculture, hunting, forestry, and fishing	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mining and quarrying	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Food, beverages, and tobacco	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Textiles and textile products	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Leather, leather products, and footwear	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wood and products of wood and cork	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pulp, paper, paper products, printing, and publishing	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Coke, refined petroleum, and nuclear fuel	0.0001	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Chemicals and chemical products	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Rubber and plastics	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other nonmetallic minerals	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Basic metals and fabricated metal	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Machinery, nec	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001
Electrical and optical equipment	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Transport equipment	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Manufacturing, nec; recycling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity, gas, and water supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Construction	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sale, maintenance, and repair	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Wholesale trade and commission trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Retail trade	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hotels and restaurants	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Inland transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water transport	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air transport	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Other supporting and auxiliary transport activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Post and telecommunications	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
Financial intermediation	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Real estate activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Renting of M&Eq and other business activities	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Public administration and defense; compulsory social security	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Education	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Health and social work	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other community, social, and personal services	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Private households with employed persons	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

M&amp;Eq = machinery and equipment, nec = not elsewhere classified.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.3.6: Comparison of Exports in Gross and Value-Added Terms, 2010–2017 (\$ million)**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	379	334	485	430	522	460	772	696	719	643	727	648	762	680	840	752
Low tech	5,531	4,320	5,038	4,196	4,917	4,109	5,637	4,805	6,285	5,288	6,550	5,454	6,292	5,286	7,249	6,096
High and medium tech	899	529	375	231	527	361	577	381	389	233	378	206	444	237	509	276
Utilities	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Construction	253	218	42	33	45	37	49	40	58	47	56	46	62	50	66	54
Trade and repair services	1,166	1,106	1,441	1,366	1,550	1,473	1,625	1,538	1,986	1,884	2,018	1,911	2,147	2,033	2,272	2,165
Tourism	2	2	310	276	436	392	549	495	558	501	548	490	613	545	654	586
Transport services	1,411	1,118	1,593	1,291	1,897	1,565	1,946	1,623	2,735	2,308	2,637	2,214	2,898	2,430	2,882	2,448
ICT services	327	246	77	54	83	61	91	69	109	81	104	78	149	109	140	96
Finance and insurance services	40	38	79	76	172	165	75	71	220	210	218	207	271	256	321	303
Property services	236	215	171	148	184	160	151	132	238	209	229	201	213	188	253	222
Public and welfare services	2	2	342	301	363	321	754	705	487	434	487	434	513	457	560	498
Services provided by private households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\$ = United States dollar, ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table 9.3.7: Comparison of Revealed Comparative Advantage Measures in Gross and Value-Added Terms, 2010–2017**

Sectors	2010		2011		2012		2013		2014		2015		2016		2017	
	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G	Gross	VAX_G
Primary	0.340	0.658	0.401	0.686	0.401	0.605	0.548	0.699	0.481	0.577	0.538	0.675	0.561	0.673	0.540	0.656
Low tech	3.742	3.924	3.572	3.981	3.261	3.587	3.162	3.504	3.065	3.546	3.137	3.543	2.934	3.359	3.074	3.488
High and medium tech	0.187	0.248	0.081	0.094	0.106	0.111	0.102	0.129	0.061	0.119	0.058	0.102	0.068	0.107	0.070	0.126
Utilities	0.003	0.594	0.005	0.479	0.006	0.489	0.014	0.468	0.022	0.496	0.022	0.529	0.015	0.517	0.013	0.397
Construction	6.278	1.643	1.108	0.457	1.044	0.535	0.740	0.514	0.819	0.555	0.760	0.552	0.701	0.569	0.803	0.588
Trade and repair services	1.454	1.471	1.872	1.676	1.819	1.571	1.697	1.391	1.834	1.419	1.803	1.414	1.852	1.426	1.801	1.383
Tourism	0.019	0.094	0.249	1.699	0.940	2.187	4.239	2.231	3.733	2.068	3.643	1.977	3.464	1.934	3.857	2.032
Transport services	2.310	2.052	2.870	2.232	3.134	2.638	2.878	2.498	3.562	2.907	3.340	2.762	3.615	2.935	3.271	2.674
ICT services	4.760	1.122	1.236	0.355	1.126	0.382	1.085	0.431	1.141	0.485	1.064	0.462	1.406	0.576	1.137	0.403
Finance and insurance services	0.127	0.896	0.274	0.687	0.556	0.868	0.204	0.676	0.523	0.840	0.499	0.797	0.580	0.879	0.651	0.971
Property services	0.352	0.242	0.269	0.205	0.269	0.217	0.181	0.188	0.244	0.211	0.223	0.200	0.196	0.185	0.211	0.202
Public and welfare services	0.013	0.460	1.968	1.277	1.884	1.369	3.212	2.115	1.856	1.197	1.751	1.155	1.686	1.145	1.874	1.213
Services provided by private households	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ICT = information and communication technology.

Note: “VAX\_G” refers to domestic value added ultimately absorbed abroad as defined in Wang, Wei, and Zhu (2013).

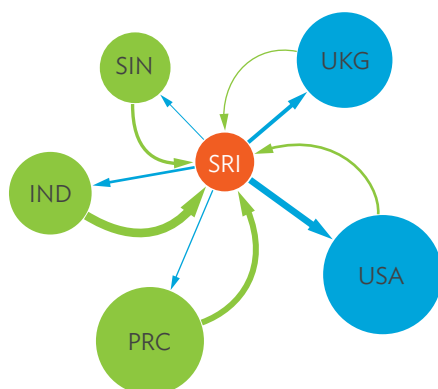
Source: Asian Development Bank Multi-Regional Input–Output Database.

# 9.4

## GLOBAL VALUE CHAIN INDICATORS

### Sri Lanka

**Figure 9.4.1a: Trade in Value-Added Flow with Top Trading Partners, 2010**



● Economy in focus ● Import partner ● Export partner

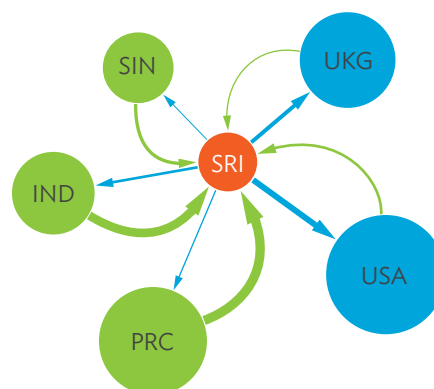
IND = India, PRC = People's Republic of China, SIN = Singapore, SRI = Sri Lanka, UKG = United Kingdom, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.4.1b: Trade in Value-Added Flow with Top Trading Partners, 2017**



● Economy in focus ● Import partner ● Export partner

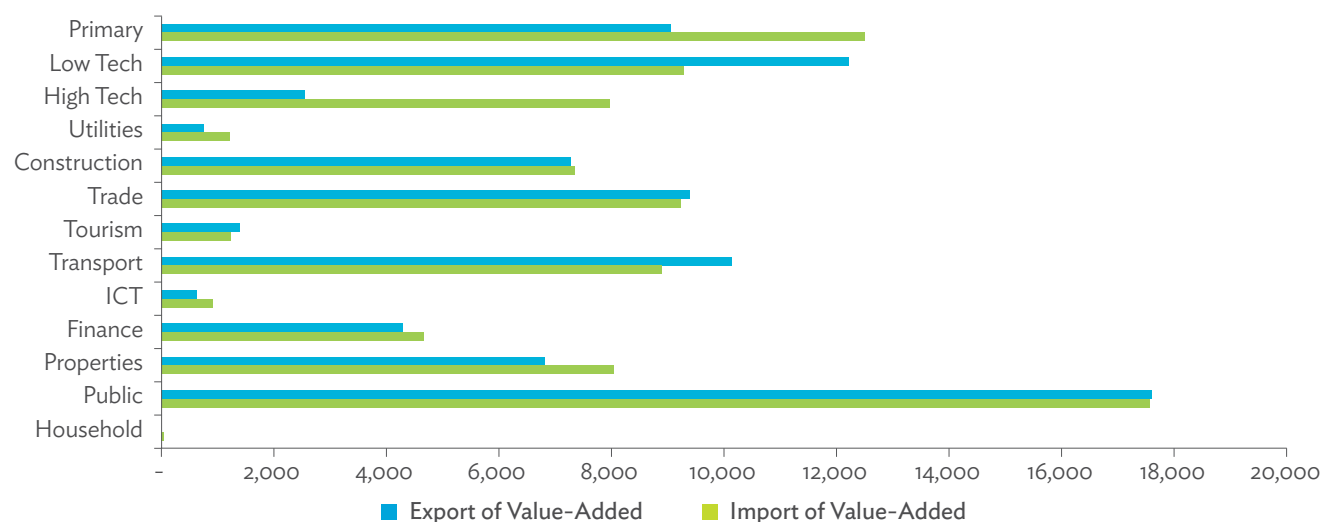
IND = India, PRC = People's Republic of China, SIN = Singapore, SRI = Sri Lanka, UKG = United Kingdom, USA = United States.

Note: The circle size is scaled in terms of gross domestic product; the arrow width is scaled according to the volume of trade in value-added.

Source: Asian Development Bank Multi-Regional Input-Output Database.

[Click here for figure data](#)

**Figure 9.4.2: Trade in Value-Added by Industry, 2017 (\$ million)**



\$ = United States dollar, ICT = information and communication technology.

Source: Asian Development Bank Multi-Regional Input-Output Database.

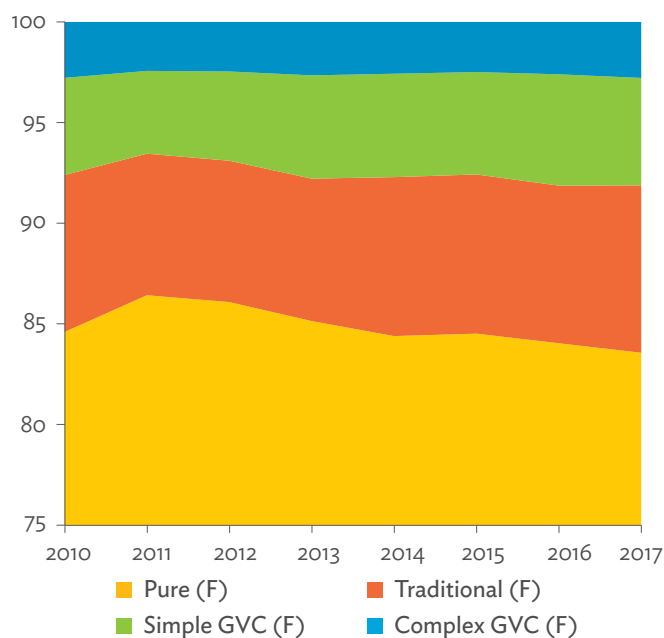
[Click here for figure data](#)

**Figure 9.4.3: Trade in Value-Added, 2010–2017 (\$ million)**

\$ = United States dollar.

Source: Asian Development Bank Multi-Regional Input–Output Database.

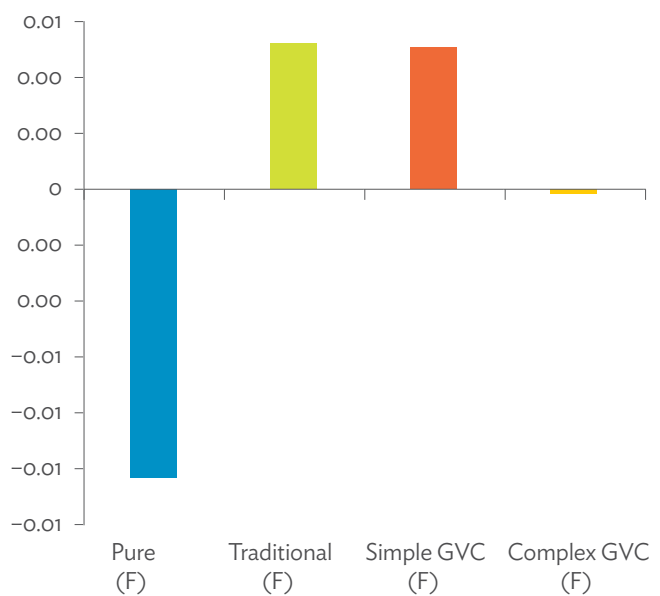
[Click here for figure data](#)

**Figure 9.4.4: Trends in Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Forward Linkages, 2010–2017 (%)**

GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.5: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Forward Linkages (%)**

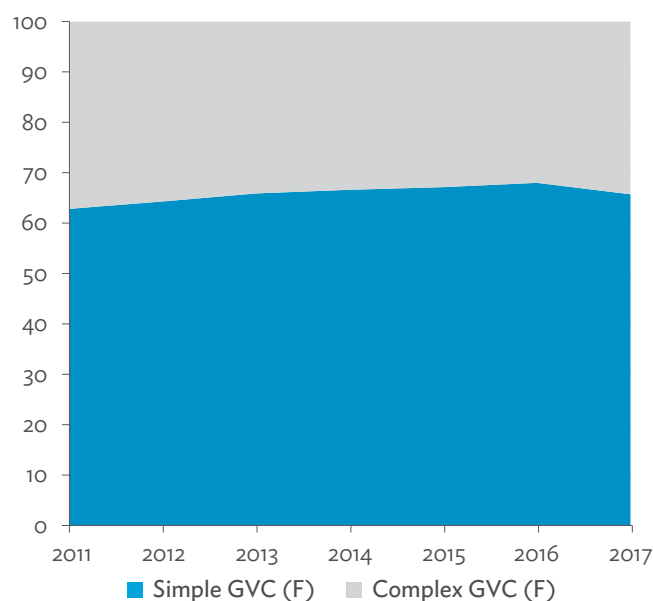
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.6: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Forward Linkages, 2010–2017 (%)**

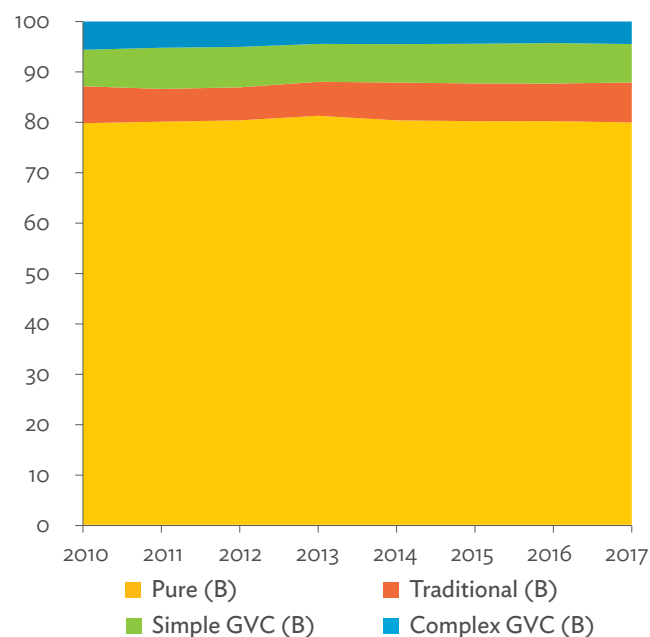


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.7: Production Activities as a Share of Gross Domestic Product, by Type of Value-Added Creation Activities Based on Backward Linkages, 2010–2017 (%)**

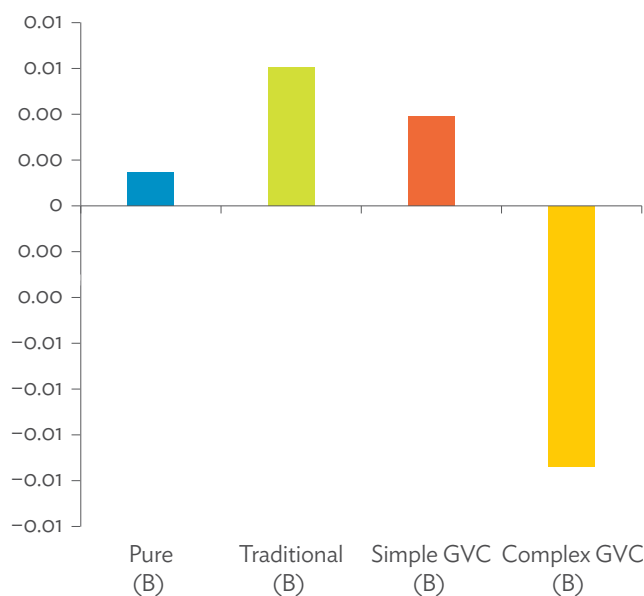


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.8: Structural Changes from 2010 to 2017 in Different Types of Value-Added Creation Activities Based on Backward Linkages (%)**



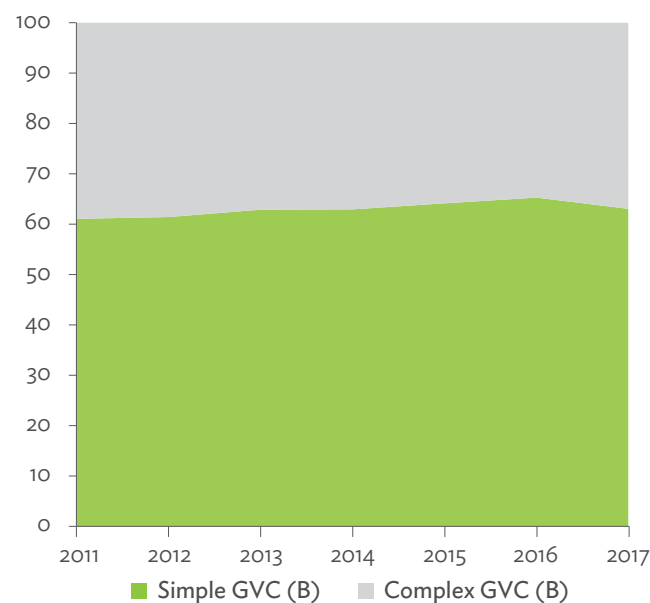
GVC = global value chain.

Note: Share in 2017 minus share in 2010, in percentage points.

Source: Asian Development Bank Multi-Regional Input–Output Database.

[Click here for figure data](#)

**Figure 9.4.9: Simple Global Value Chain Production Activities as a Share of Total Global Value Chain Production Activities Based on Backward Linkages (%)**

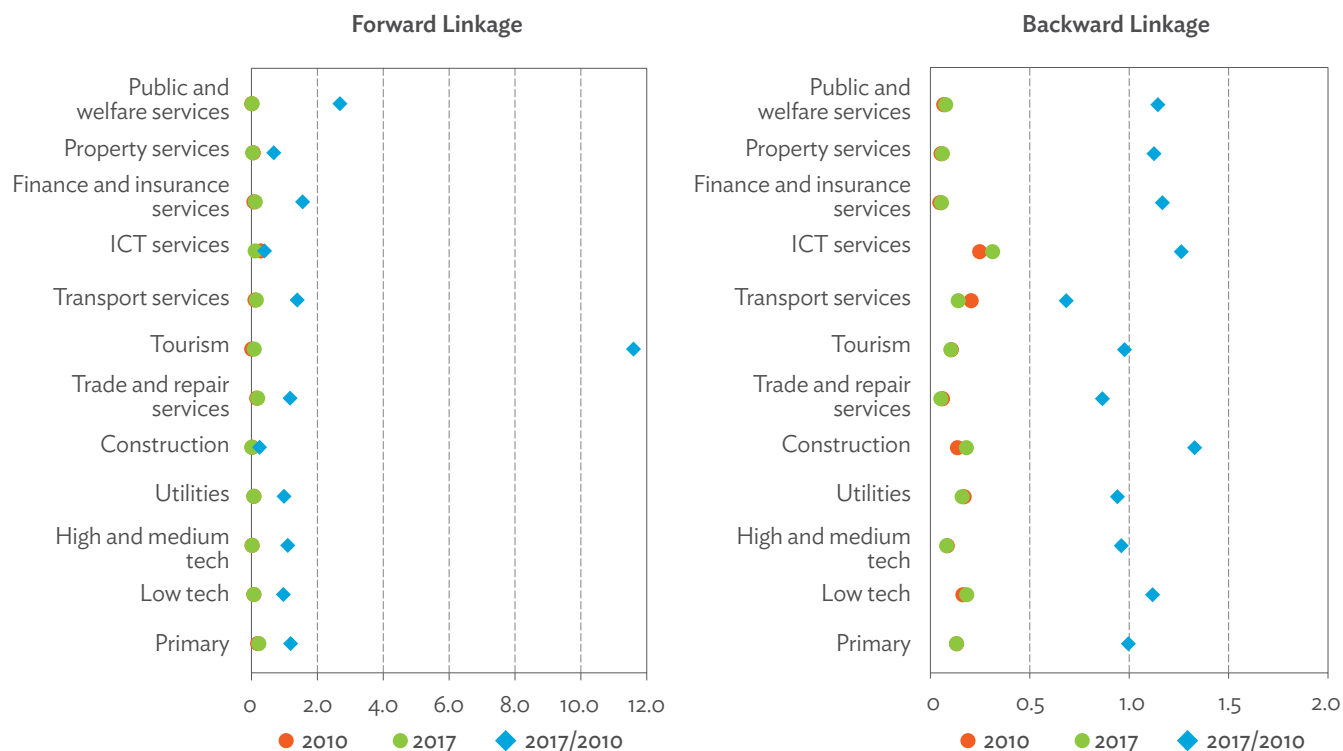


GVC = global value chain.

Source: Asian Development Bank Multi-Regional Input–Output Database.

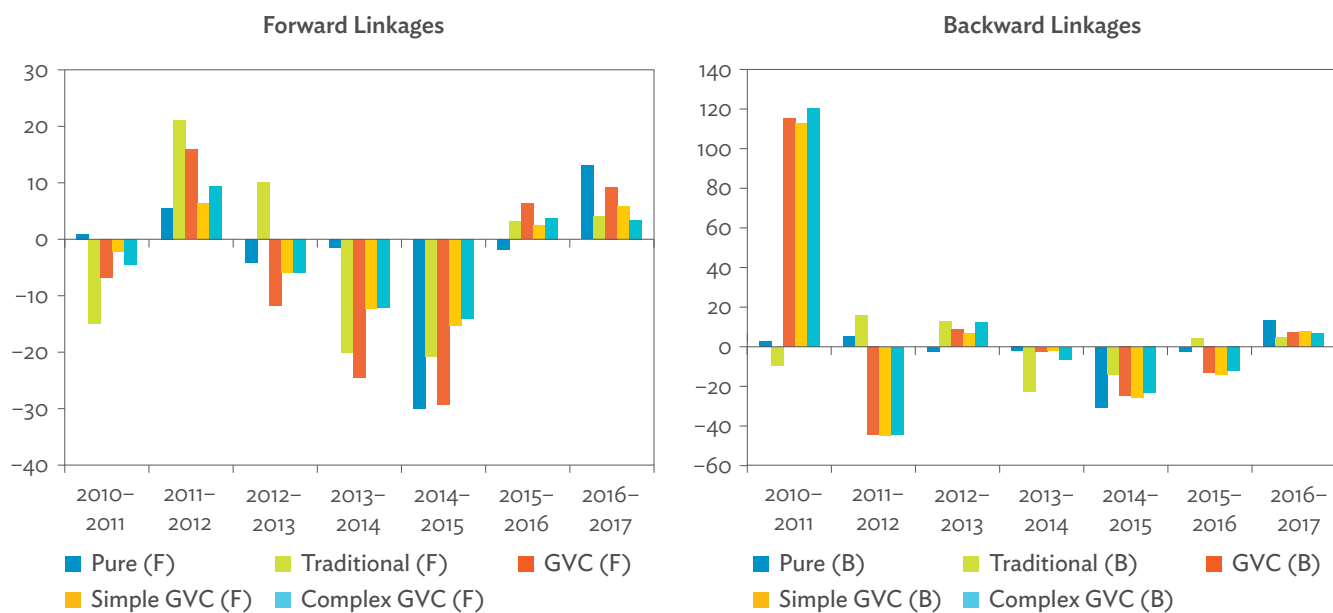
[Click here for figure data](#)

**Figure 9.4.10: Global Value Chain Participation Based on Forward and Backward Linkages at the Sectoral Level, 2010 and 2017**



[Click here for figure data](#)

**Figure 9.4.11: Nominal Growth Rates of Different Value-Added Activities in the Manufacturing Sector, 2010–2017 (%)**



[Click here for figure data](#)





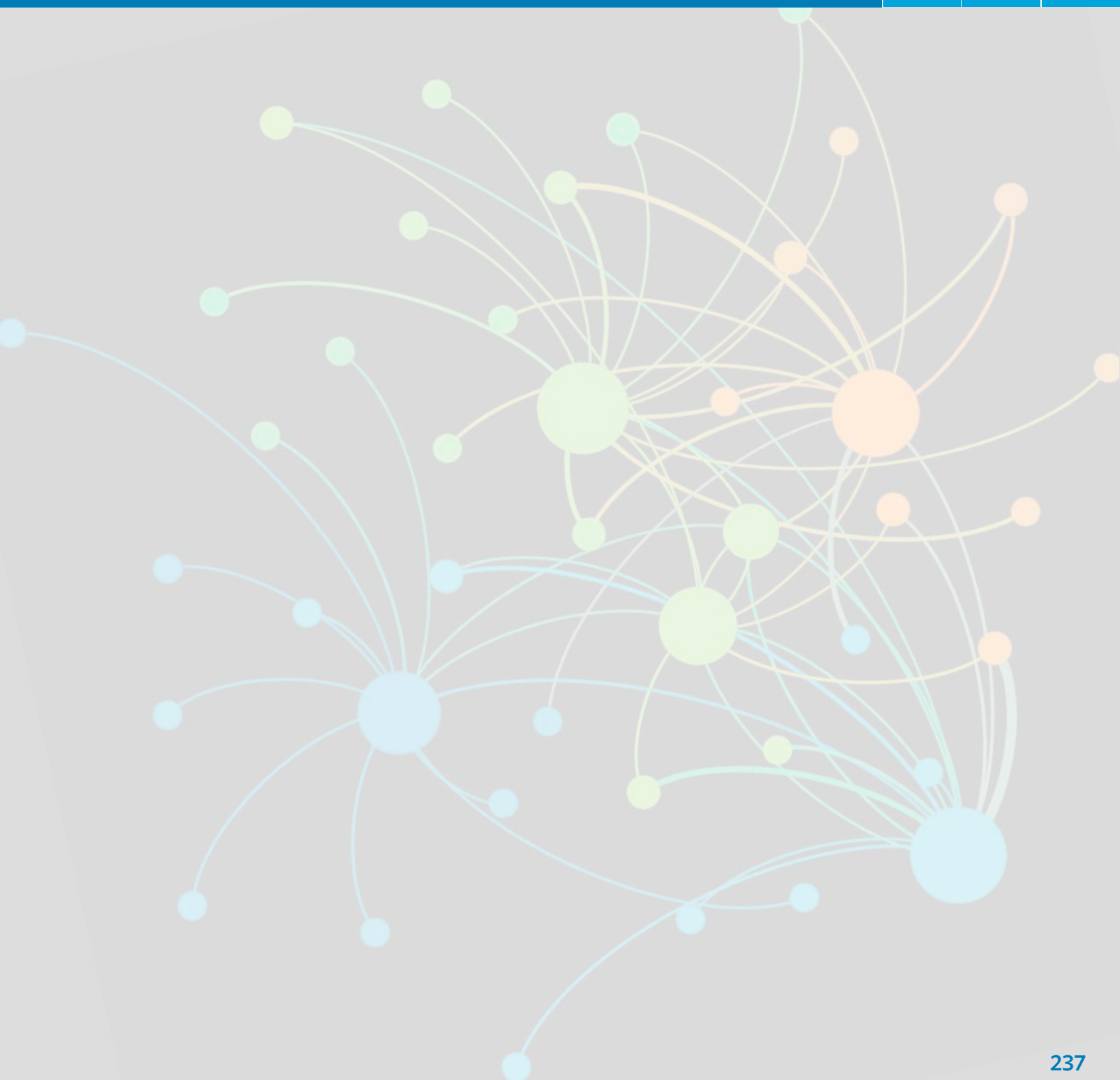
# APPENDIXES

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## South and Central Asia

# APPENDIX 1: INPUT-OUTPUT TABLES FOR 2010 AND 2017— BANGLADESH

# A1



**Table A1.1: Bangladesh Input–Output Table, 2010** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	2,567	–	2,336	1,869	367	240	44
Mining and quarrying	c2	21	22	101	131	19	–	7
Food, beverages, and tobacco	c3	530	1	447	117	9	5	7
Textiles and textile products	c4	156	0	186	8,181	161	8	5
Leather, leather products, and footwear	c5	1	0	1	8	294	25	0
Wood and products of wood and cork	c6	40	3	5	4	0	19	21
Pulp, paper, paper products, printing, and publishing	c7	6	1	99	106	2	0	49
Coke, refined petroleum, and nuclear fuel	c8	2	0	0	5	0	0	0
Chemicals and chemical products	c9	345	4	26	115	2	4	33
Rubber and plastics	c10	3	4	11	23	3	0	0
Other nonmetallic minerals	c11	8	14	28	74	0	0	1
Basic metals and fabricated metal	c12	102	7	18	121	5	4	7
Machinery, nec	c13	2	0	1	6	0	1	1
Electrical and optical equipment	c14	2	0	1	4	0	0	1
Transport equipment	c15	32	6	23	47	5	6	10
Manufacturing, nec; recycling	c16	1	0	56	2	0	0	0
Electricity, gas, and water supply	c17	105	37	28	397	0	7	26
Construction	c18	255	19	27	226	2	6	30
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	17	0	11	65	–	1	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	845	15	723	1,583	191	69	56
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	81	1	12	130	–	1	–
Hotels and restaurants	c22	15	–	87	198	–	2	–
Inland transport	c23	288	7	292	539	66	27	20
Water transport	c24	30	0	24	42	6	7	3
Air transport	c25	2	0	6	28	7	5	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	35	15	49	41	6	23	10
Post and telecommunications	c27	18	1	21	205	13	16	20
Financial intermediation	c28	152	8	117	1,107	15	43	42
Real estate activities	c29	5	1	61	113	1	3	4
Renting of M&Eq and other business activities	c30	49	15	48	107	6	25	38
Public administration and defense; compulsory social security	c31	79	3	26	212	2	5	10
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	12	–	32	–	–	–	–
Other community, social, and personal services	c34	137	13	68	496	13	6	12
Private households with employed persons	c35	67	6	33	242	6	3	6

continued on next page

Table A1.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
-	0	36	-	-	-	-	-	212	-	776	-	-
-	32	25	158	146	7	3	4	22	189	571	-	-
0	65	2	3	4	0	0	1	6	1	30	0	0
0	2	24	39	7	0	0	25	142	10	132	1	43
0	0	75	47	0	0	0	33	210	0	38	-	36
0	5	6	6	15	2	2	10	112	15	113	0	1
0	13	7	11	9	1	0	0	9	12	8	-	109
0	0	0	0	1	0	0	0	0	0	1	0	0
0	62	15	20	14	2	2	12	16	11	139	-	19
0	8	2	7	8	0	0	0	29	7	447	-	8
0	28	7	23	33	0	0	1	96	24	1,562	-	28
1	19	1	1	805	25	7	96	138	48	994	1	17
0	0	0	0	1	0	0	2	1	0	6	0	1
0	0	0	0	1	0	0	1	0	0	5	-	2
0	4	5	6	15	4	2	16	7	7	75	0	1
0	0	0	0	59	0	0	1	305	0	187	2	37
2	34	31	119	136	4	6	35	37	25	254	0	2
1	11	11	52	68	2	3	20	52	12	1,621	4	54
0	-	-	-	4	0	-	1	5	1	24	0	1
0	78	53	77	267	11	5	51	259	75	795	3	1
0	-	-	-	5	0	-	2	36	3	430	0	7
-	-	-	82	146	-	-	3	75	21	150	4	100
0	31	22	39	133	10	12	54	98	64	422	1	31
0	4	7	6	19	1	0	14	17	8	43	-	18
0	0	0	0	1	0	1	0	1	0	5	-	18
2	20	8	24	25	6	9	27	14	22	20	-	23
4	15	34	19	83	1	11	29	22	11	39	2	37
2	47	18	206	238	4	6	40	109	23	643	6	127
0	5	4	11	19	3	1	33	36	13	1	1	77
1	69	13	23	56	9	11	27	66	105	200	-	150
1	11	6	14	33	2	3	17	15	9	146	2	19
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
0	27	8	66	173	2	3	27	56	68	495	157	223
0	13	4	32	85	1	2	13	27	33	242	77	109

*continued on next page*

Table A1.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	-	871	-	-	-	-
Mining and quarrying	c2	-	45	421	-	-	-
Food, beverages, and tobacco	c3	1	252	29	0	0	0
Textiles and textile products	c4	48	53	70	2	5	1
Leather, leather products, and footwear	c5	-	12	174	0	11	0
Wood and products of wood and cork	c6	2	1	1	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	-	10	23	3	2	9
Coke, refined petroleum, and nuclear fuel	c8	0	0	4	0	1	0
Chemicals and chemical products	c9	-	11	35	5	12	2
Rubber and plastics	c10	-	11	8	1	0	0
Other nonmetallic minerals	c11	-	36	26	5	0	0
Basic metals and fabricated metal	c12	21	4	57	7	6	5
Machinery, nec	c13	1	1	3	1	1	1
Electrical and optical equipment	c14	-	0	3	1	0	1
Transport equipment	c15	13	8	31	4	2	5
Manufacturing, nec; recycling	c16	71	56	63	9	8	11
Electricity, gas, and water supply	c17	7	8	184	10	10	5
Construction	c18	135	53	328	158	62	12
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	2	5	5	-	-	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	81	233	159	13	21	10
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	17	74	90	-	-	-
Hotels and restaurants	c22	147	1	78	8	9	-
Inland transport	c23	34	151	91	10	11	10
Water transport	c24	-	6	12	6	0	0
Air transport	c25	-	1	3	0	12	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	31	10	14	-
Post and telecommunications	c27	51	17	26	8	38	2
Financial intermediation	c28	162	36	261	16	25	7
Real estate activities	c29	21	24	50	0	15	18
Renting of M&Eq and other business activities	c30	-	22	122	16	15	21
Public administration and defense; compulsory social security	c31	80	5	88	8	10	6
Education	c32	-	-	-	-	-	-
Health and social work	c33	-	-	-	-	-	-
Other community, social, and personal services	c34	245	63	209	26	23	10
Private households with employed persons	c35	120	31	102	13	11	5

*continued on next page*

Table A1.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
-	-	-	0	1	-	19	15	8	17,006	-
-	-	-	-	-	0	0	0	0	134	-
-	-	-	0	0	2	1	52	25	6,041	-
0	-	-	-	0	7	8	97	48	4,107	-
0	-	-	-	0	10	1	12	6	807	-
0	0	0	0	0	1	1	1	1	688	-
0	0	1	0	0	31	2	52	26	139	-
-	-	-	-	-	0	0	0	0	3	-
0	-	0	-	0	4	223	6	3	401	-
0	0	-	-	-	12	0	18	9	158	-
3	0	-	0	1	41	6	62	30	501	-
0	-	1	-	-	1	2	13	6	133	-
-	-	-	-	-	0	1	1	1	33	-
-	-	-	-	-	0	0	1	0	30	-
-	-	-	-	-	1	5	3	2	415	-
0	0	0	0	0	28	30	68	33	902	-
3	0	2	1	3	6	6	8	4	612	-
5	0	5	-	33	13	-	54	27	-	-
0	0	0	0	0	1	-	1	1	1,137	-
0	0	0	0	0	32	123	90	44	306	-
0	0	1	0	0	4	-	4	2	6,339	-
0	0	-	2	-	17	2	91	45	1,812	-
1	2	1	1	4	39	40	55	27	8,542	-
0	0	0	0	0	5	4	7	3	937	-
0	0	0	0	1	3	6	11	5	426	-
0	0	0	0	0	-	-	-	-	174	-
1	1	2	2	3	16	12	24	12	1,347	-
0	0	1	-	9	17	1	156	76	596	-
1	2	-	-	4	16	13	35	17	5,578	-
2	0	-	-	2	21	8	74	36	1,068	-
1	0	-	1	1	11	1	26	13	-	-
-	0	-	1	3	-	-	38	19	1,559	-
-	-	-	-	-	-	-	-	-	2,016	-
0	0	0	1	1	26	4	75	37	7,129	-
-	-	-	-	-	13	2	37	18	3,485	-

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Table A1.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	24	–	329	26,743
Mining and quarrying	c2	–	–	–	2	2,069
Food, beverages, and tobacco	c3	–	22	–	47	7,720
Textiles and textile products	c4	–	71	–	12,647	26,325
Leather, leather products, and footwear	c5	–	6	–	280	2,101
Wood and products of wood and cork	c6	–	17	–	1	1,103
Pulp, paper, paper products, printing, and publishing	c7	–	2	–	15	916
Coke, refined petroleum, and nuclear fuel	c8	–	0	–	3	25
Chemicals and chemical products	c9	–	4	–	30	1,608
Rubber and plastics	c10	–	0	–	16	806
Other nonmetallic minerals	c11	–	9	–	46	2,732
Basic metals and fabricated metal	c12	–	1,422	–	74	4,186
Machinery, nec	c13	–	131	–	7	208
Electrical and optical equipment	c14	–	147	–	6	214
Transport equipment	c15	–	2,013	–	101	2,892
Manufacturing, nec; recycling	c16	–	2,382	–	16	4,463
Electricity, gas, and water supply	c17	–	–	–	(0)	2,226
Construction	c18	–	16,276	–	0	19,923
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	44	–	370	1,697
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	1,736	–	435	8,573
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	525	–	416	8,200
Hotels and restaurants	c22	–	–	–	18	3,416
Inland transport	c23	–	460	–	154	11,945
Water transport	c24	–	30	–	10	1,282
Air transport	c25	–	3	–	15	590
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	0	625
Post and telecommunications	c27	–	–	–	145	2,472
Financial intermediation	c28	–	–	–	14	4,783
Real estate activities	c29	–	–	–	0	6,286
Renting of M&Eq and other business activities	c30	–	–	–	0	2,612
Public administration and defense; compulsory social security	c31	3,930	–	–	0	4,890
Education	c32	1,166	–	–	–	3,092
Health and social work	c33	669	–	–	0	3,042
Other community, social, and personal services	c34	30	–	–	264	10,605
Private households with employed persons	c35	14	–	–	129	5,184

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Table A1.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	280	0	234	224	37	22	5
Mining and quarrying	m2	3	4	14	22	2	0	1
Food, beverages, and tobacco	m3	142	0	145	24	6	1	2
Textiles and textile products	m4	27	0	25	1,250	13	0	1
Leather, leather products, and footwear	m5	0	0	0	2	12	1	0
Wood and products of wood and cork	m6	5	0	2	1	0	4	2
Pulp, paper, paper products, printing, and publishing	m7	3	0	31	39	0	0	19
Coke, refined petroleum, and nuclear fuel	m8	114	7	29	223	5	10	13
Chemicals and chemical products	m9	394	3	26	139	2	4	40
Rubber and plastics	m10	0	1	2	7	0	0	0
Other nonmetallic minerals	m11	9	4	8	28	0	0	1
Basic metals and fabricated metal	m12	52	3	11	64	3	2	4
Machinery, nec	m13	6	1	3	31	1	2	3
Electrical and optical equipment	m14	3	1	1	15	0	1	2
Transport equipment	m15	17	6	11	16	2	6	10
Manufacturing, nec; recycling	m16	1	0	0	2	0	0	0
Electricity, gas, and water supply	m17	2	0	1	1	0	0	0
Construction	m18	1	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	18	1	40	9	3	3	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	2	1	0	3	0
Hotels and restaurants	m22	1	0	3	8	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	37	0	32	55	7	9	5
Air transport	m25	9	0	10	42	9	7	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	1	0	0	2	0	0	0
Financial intermediation	m28	19	1	7	18	1	3	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	4	0	2	12	0	0	0
Private households with employed persons	m35	1	0	0	5	0	0	0
Total intermediate consumption	r60	7,161	239	5,646	18,783	1,305	638	572
Taxes less subsidies on products	r99	115	14	86	288	4	14	29
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	19,468	1,816	1,988	7,254	791	451	315
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	26,743	2,069	7,720	26,325	2,101	1,103	916

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Table A1.1 Import Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	4	0	0	0	0
Mining and quarrying	m2	0	6	4	29	25	1	0
Food, beverages, and tobacco	m3	0	19	0	0	1	0	0
Textiles and textile products	m4	0	1	1	5	1	0	0
Leather, leather products, and footwear	m5	0	0	3	2	0	0	0
Wood and products of wood and cork	m6	0	1	1	1	2	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	5	3	5	3	0	0
Coke, refined petroleum, and nuclear fuel	m8	1	18	6	13	50	3	3
Chemicals and chemical products	m9	0	75	18	26	15	2	2
Rubber and plastics	m10	0	2	1	2	2	0	0
Other nonmetallic minerals	m11	0	10	2	8	10	0	0
Basic metals and fabricated metal	m12	0	10	0	0	417	12	3
Machinery, nec	m13	0	1	1	2	6	2	1
Electrical and optical equipment	m14	0	1	1	1	2	0	3
Transport equipment	m15	0	3	5	4	10	5	3
Manufacturing, nec; recycling	m16	0	0	0	0	3	0	0
Electricity, gas, and water supply	m17	0	0	0	0	1	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	1	1	0	7	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	1	0	0
Hotels and restaurants	m22	0	0	0	3	5	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	6	9	8	26	1	0
Air transport	m25	0	1	1	0	2	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	1	0	0
Financial intermediation	m28	0	1	0	2	6	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	1	0	2	4	0	0
Private households with employed persons	m35	0	0	0	1	1	0	0
Total intermediate consumption	r60	18	767	486	1,208	3,211	127	108
Taxes less subsidies on products	r99	2	31	19	41	140	7	10
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	5	810	301	1,484	836	74	95
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	25	1,608	806	2,732	4,186	208	214

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Table A1.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	21	0	71	0	0	0	87	0	0	0	0
0	3	39	63	0	0	0	6	71	0	0	0
0	2	0	3	0	0	0	76	6	0	0	0
2	13	2	18	0	5	5	7	4	0	0	0
1	8	0	2	0	1	0	0	6	0	0	0
1	10	2	15	0	0	0	1	0	0	0	0
0	3	4	3	0	29	0	3	7	1	1	2
20	11	40	124	1	3	4	8	192	15	38	2
11	17	13	140	0	17	0	11	37	5	11	2
0	8	2	117	0	2	0	3	2	0	0	0
1	27	8	424	0	7	0	10	9	2	1	0
47	70	27	498	0	7	9	3	28	3	3	3
10	3	1	34	0	2	4	2	11	3	3	3
3	1	1	18	0	3	0	1	6	2	1	1
27	2	7	62	0	1	13	3	31	4	2	6
1	2	1	3	0	0	0	0	1	0	0	0
0	0	5	1	0	0	0	3	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	4	2	27	4	40	12	8	63	4	16	1
1	3	0	3	0	1	1	1	8	0	2	0
0	2	1	4	0	1	3	0	2	0	0	0
0	0	0	0	0	0	0	0	1	0	0	0
14	18	11	55	0	20	1	7	17	14	2	3
0	2	1	13	0	22	0	1	4	1	18	0
0	0	0	3	0	0	0	1	1	0	0	1
0	0	1	5	0	0	0	1	2	0	0	0
2	5	4	81	0	3	3	14	7	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	1	2	10	3	4	6	0	4	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
<b>740</b>	<b>2,469</b>	<b>993</b>	<b>12,416</b>	<b>269</b>	<b>1,469</b>	<b>1,321</b>	<b>2,356</b>	<b>3,309</b>	<b>396</b>	<b>426</b>	<b>166</b>
52	40	35	404	10	48	46	51	195	34	46	19
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
2,100	1,953	1,198	7,103	1,418	7,056	6,832	1,009	8,440	852	118	440
–	–	–	–	–	–	–	–	–	–	–	–
<b>2,892</b>	<b>4,463</b>	<b>2,226</b>	<b>19,923</b>	<b>1,697</b>	<b>8,573</b>	<b>8,200</b>	<b>3,416</b>	<b>11,945</b>	<b>1,282</b>	<b>590</b>	<b>625</b>

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Table A1.1 Import Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	3	0	0
Mining and quarrying	m2	0	0	1	0	0
Food, beverages, and tobacco	m3	0	3	0	1	0
Textiles and textile products	m4	0	1	2	1	2
Leather, leather products, and footwear	m5	0	0	0	1	0
Wood and products of wood and cork	m6	0	0	1	0	0
Pulp, paper, paper products, printing, and publishing	m7	10	20	0	14	7
Coke, refined petroleum, and nuclear fuel	m8	4	11	0	5	45
Chemicals and chemical products	m9	12	12	0	4	3
Rubber and plastics	m10	0	2	0	0	0
Other nonmetallic minerals	m11	2	8	0	1	1
Basic metals and fabricated metal	m12	2	1	3	0	3
Machinery, nec	m13	3	5	0	3	2
Electrical and optical equipment	m14	1	2	0	3	1
Transport equipment	m15	2	8	0	2	6
Manufacturing, nec; recycling	m16	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	10	9	4	1	14
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	0	0	2
Hotels and restaurants	m22	3	3	0	2	0
Inland transport	m23	0	0	0	0	0
Water transport	m24	7	2	3	5	11
Air transport	m25	9	16	0	2	17
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	1	0	0	1
Post and telecommunications	m27	1	2	0	0	0
Financial intermediation	m28	3	14	1	1	1
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	1	1	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	3	5	2	4	1
Private households with employed persons	m35	0	0	0	0	0
Total intermediate consumption	r60	734	1,337	513	527	1,196
Taxes less subsidies on products	r99	35	80	11	31	44
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	1,703	3,367	5,761	2,054	3,651
International transport margins		–	–	–	–	–
Output at basic prices	r69	2,472	4,783	6,286	2,612	4,890

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Table A1.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	2	1	1	1,577	–	0	2	–	–	2,571
0	0	0	0	20	–	–	–	–	–	315
1	0	12	6	1,538	–	0	0	–	–	1,990
1	5	12	6	503	–	0	0	–	–	1,913
0	0	0	0	29	–	0	0	–	–	70
0	1	0	0	62	–	0	1	–	–	113
9	2	15	7	47	–	0	0	–	–	293
8	6	3	2	431	–	0	15	–	–	1,486
4	267	6	3	443	–	0	0	–	–	1,763
3	0	8	2	40	–	0	0	–	–	209
10	7	16	8	145	–	0	5	–	–	771
0	2	6	3	29	–	0	764	–	–	2,094
3	2	6	3	114	–	0	286	–	–	564
1	4	8	1	49	–	0	277	–	–	416
1	3	4	1	331	–	0	2,504	–	–	3,119
0	0	1	0	18	–	0	8	–	–	44
0	0	0	0	15	–	0	0	–	–	32
0	0	0	0	0	–	0	46	–	–	49
0	0	0	0	0	–	0	0	–	–	0
3	2	4	1	650	–	0	21	–	–	985
0	0	0	1	121	–	0	0	–	–	155
0	0	3	2	62	–	0	0	–	–	109
0	0	0	0	8	–	0	0	–	–	10
6	5	7	3	1,151	–	0	35	–	–	1,591
5	9	14	7	655	–	0	7	–	–	888
0	0	0	0	13	–	0	4	–	–	29
0	0	0	0	15	–	0	14	–	–	51
4	0	1	4	91	–	0	30	–	–	331
0	0	0	0	3	–	0	0	–	–	4
0	1	1	–	7	–	0	4	–	–	17
0	0	0	0	1	–	0	0	–	–	3
0	0	0	0	3	–	0	0	–	–	4
0	0	0	–	0	–	0	0	–	–	0
1	0	2	1	188	–	0	0	–	–	263
0	0	0	0	7	–	0	0	–	–	19
<b>442</b>	<b>841</b>	<b>1,318</b>	<b>644</b>	<b>82,927</b>	–	<b>5,811</b>	<b>29,352</b>	–	<b>15,590</b>	<b>207,832</b>
28	1	59	29	1,940	–	1	1,067	–	–	5,107
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
2,621	2,200	9,228	4,511	–	–	–	–	–	–	109,304
–	–	–	–	–	–	–	–	–	–	–
<b>3,092</b>	<b>3,042</b>	<b>10,605</b>	<b>5,184</b>	<b>84,867</b>	–	<b>5,812</b>	<b>30,419</b>	–	<b>15,590</b>	<b>322,243</b>

\$ = United States dollar; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A1.2: Bangladesh Input–Output Table, 2017** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	4,312	–	5,191	3,158	775	541	99
Mining and quarrying	c2	43	57	270	307	47	–	20
Food, beverages, and tobacco	c3	1,060	3	1,182	272	22	13	18
Textiles and textile products	c4	366	1	576	22,218	474	24	16
Leather, leather products, and footwear	c5	1	0	3	18	756	68	1
Wood and products of wood and cork	c6	79	7	12	10	0	50	54
Pulp, paper, paper products, printing, and publishing	c7	12	2	261	244	4	1	131
Coke, refined petroleum, and nuclear fuel	c8	4	0	1	11	0	0	1
Chemicals and chemical products	c9	688	9	68	265	5	10	88
Rubber and plastics	c10	6	10	27	50	6	1	0
Other nonmetallic minerals	c11	16	35	72	164	0	0	2
Basic metals and fabricated metal	c12	196	18	47	270	11	9	18
Machinery, nec	c13	4	1	2	14	1	1	2
Electrical and optical equipment	c14	4	1	3	9	1	1	2
Transport equipment	c15	62	15	59	105	12	17	25
Manufacturing, nec; recycling	c16	1	0	144	5	1	0	0
Electricity, gas, and water supply	c17	193	89	69	846	1	17	63
Construction	c18	512	49	72	749	5	15	81
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	35	0	30	151	–	3	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,489	35	1,686	3,228	423	164	133
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	152	3	30	281	–	3	–
Hotels and restaurants	c22	30	–	224	447	–	4	–
Inland transport	c23	531	18	712	1,150	153	66	49
Water transport	c24	51	1	55	84	13	16	7
Air transport	c25	3	0	13	51	13	11	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	58	33	108	80	14	52	23
Post and telecommunications	c27	28	2	44	372	26	33	42
Financial intermediation	c28	288	20	295	2,850	35	109	107
Real estate activities	c29	10	3	166	270	2	8	10
Renting of M&Eq and other business activities	c30	90	36	117	227	13	61	94
Public administration and defense; compulsory social security	c31	179	10	79	624	5	16	30
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	23	–	78	–	–	–	–
Other community, social, and personal services	c34	369	45	244	1,414	45	21	42
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A1.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
-	1	76	-	-	-	-	-	446	-	1,296	-	-
-	85	64	399	388	19	7	9	57	587	1,232	-	-
0	172	4	8	12	0	0	3	15	3	84	0	0
0	7	70	113	22	0	0	75	417	36	435	2	108
0	0	197	119	0	0	0	86	538	0	109	-	79
0	12	15	14	39	5	5	25	275	46	312	0	2
0	34	17	28	24	1	0	1	23	36	23	-	233
0	1	0	1	2	0	0	1	0	1	1	0	0
1	164	38	50	38	7	4	30	40	34	390	-	41
0	19	6	16	21	0	0	1	70	20	1,209	-	17
0	71	17	55	83	1	0	2	231	70	4,208	-	58
1	50	2	2	2,037	63	17	238	334	143	2,697	1	35
0	1	1	1	3	1	1	4	1	1	16	0	1
0	1	1	1	3	1	1	4	1	1	15	-	3
1	10	13	14	38	11	6	41	16	21	206	0	2
0	0	0	0	149	0	0	1	740	1	647	4	76
4	82	72	274	327	9	13	83	85	70	657	0	3
3	30	29	131	178	4	8	53	131	38	5,590	8	117
0	-	-	-	10	0	-	2	12	3	69	0	3
1	182	118	169	617	25	12	116	571	204	1,969	6	3
0	-	-	-	12	1	-	6	85	9	1,132	1	15
-	-	-	201	373	-	-	8	182	62	412	9	210
0	77	52	89	323	24	26	128	227	182	1,095	2	62
0	8	15	12	43	2	0	30	36	22	102	-	32
0	0	0	0	1	0	2	0	1	0	12	-	32
4	45	17	50	54	13	19	58	28	57	47	-	41
9	31	69	37	170	3	21	58	44	27	86	3	63
5	119	44	489	594	9	15	99	260	68	2,113	13	260
1	13	11	30	51	8	4	87	93	41	3	3	170
2	168	32	52	135	22	24	65	152	297	516	-	296
3	33	17	40	97	5	7	49	42	31	467	5	46
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1	96	27	224	614	6	10	93	190	281	1,388	457	648
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A1.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	-	1,972	-	-	-	-
Mining and quarrying	c2	-	122	920	-	-	-
Food, beverages, and tobacco	c3	2	680	63	1	1	0
Textiles and textile products	c4	117	166	179	4	11	3
Leather, leather products, and footwear	c5	-	34	385	0	23	0
Wood and products of wood and cork	c6	3	3	2	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	-	27	49	5	4	18
Coke, refined petroleum, and nuclear fuel	c8	0	0	10	1	2	0
Chemicals and chemical products	c9	-	29	76	10	22	4
Rubber and plastics	c10	-	29	17	2	0	0
Other nonmetallic minerals	c11	-	92	54	9	1	0
Basic metals and fabricated metal	c12	43	9	119	12	12	10
Machinery, nec	c13	3	1	7	2	1	2
Electrical and optical equipment	c14	-	1	6	1	1	1
Transport equipment	c15	26	22	65	7	4	9
Manufacturing, nec; recycling	c16	143	146	132	17	14	22
Electricity, gas, and water supply	c17	13	19	365	17	17	9
Construction	c18	283	145	920	297	120	25
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	3	15	10	-	-	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	148	554	303	22	36	17
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	32	187	182	-	-	-
Hotels and restaurants	c22	299	2	164	15	16	-
Inland transport	c23	66	375	182	18	19	18
Water transport	c24	-	13	22	9	1	0
Air transport	c25	-	1	5	0	19	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	55	16	22	-
Post and telecommunications	c27	83	37	44	12	58	4
Financial intermediation	c28	321	93	535	28	46	14
Real estate activities	c29	44	67	112	0	30	38
Renting of M&Eq and other business activities	c30	-	54	242	27	26	40
Public administration and defense; compulsory social security	c31	189	15	216	17	21	13
Education	c32	-	-	-	-	-	-
Health and social work	c33	-	-	-	-	-	-
Other community, social, and personal services	c34	690	228	421	65	59	28
Private households with employed persons	c35	-	-	-	-	-	-

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Table A1.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
–	–	49	–	–	–	43	40	–	27,618	–
–	–	20	0	0	0	1	0	–	220	–
1	36	2	5	6	7	3	162	–	14,199	–
7	14	44	15	39	24	25	357	–	11,245	–
0	1	0	26	2	31	3	39	–	1,425	–
1	5	14	2	2	2	3	4	–	1,522	–
63	194	0	79	64	91	6	163	–	326	–
0	1	0	0	3	0	1	0	–	6	–
22	35	0	8	8	12	600	18	–	926	–
2	24	0	2	3	34	1	53	–	219	–
8	86	0	5	10	117	17	185	–	626	–
7	3	13	1	18	2	5	39	–	197	–
1	3	0	1	2	1	2	4	–	50	–
1	2	0	1	1	1	1	2	–	46	–
5	20	1	4	15	3	12	11	–	480	–
42	185	10	28	74	79	79	206	–	1,600	–
32	131	0	13	22	17	15	23	–	2,343	–
77	132	482	13	63	38	–	171	–	–	–
1	3	0	–	1	1	–	3	–	2,114	–
36	113	24	43	69	84	291	247	–	395	–
5	37	4	–	3	12	–	11	–	12,463	–
175	326	–	138	72	49	4	278	–	4,480	–
49	181	36	44	71	107	100	159	–	17,195	–
6	3	4	5	12	13	9	18	–	1,779	–
9	28	0	0	26	7	13	28	–	783	–
–	–	–	–	37	–	–	–	–	298	–
43	252	25	6	32	37	25	59	–	2,289	–
196	399	70	177	228	48	3	466	–	2,397	–
18	161	1	64	47	49	36	112	–	12,798	–
66	230	48	53	44	57	20	213	–	1,989	–
11	121	22	37	113	37	4	91	–	–	–
–	–	–	–	984	–	–	134	–	4,583	–
–	–	–	–	835	–	–	–	–	4,536	–
226	531	201	258	145	105	13	319	–	19,312	–
–	–	–	–	–	–	–	–	–	–	–

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Table A1.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	77	–	458	46,151
Mining and quarrying	c2	–	–	–	6	4,882
Food, beverages, and tobacco	c3	–	85	–	72	18,197
Textiles and textile products	c4	–	352	–	24,516	62,079
Leather, leather products, and footwear	c5	–	21	–	950	4,917
Wood and products of wood and cork	c6	–	62	–	4	2,593
Pulp, paper, paper products, printing, and publishing	c7	–	8	–	6	2,178
Coke, refined petroleum, and nuclear fuel	c8	–	0	–	8	59
Chemicals and chemical products	c9	–	15	–	51	3,806
Rubber and plastics	c10	–	1	–	29	1,899
Other nonmetallic minerals	c11	–	23	–	71	6,389
Basic metals and fabricated metal	c12	–	3,173	–	142	9,997
Machinery, nec	c13	–	337	–	22	498
Electrical and optical equipment	c14	–	358	–	30	504
Transport equipment	c15	–	5,141	–	276	6,774
Manufacturing, nec; recycling	c16	–	5,892	–	17	10,456
Electricity, gas, and water supply	c17	–	118	–	9	6,122
Construction	c18	–	41,148	–	12	51,730
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	111	–	794	3,373
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	3,158	–	419	17,114
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	1,148	–	500	16,315
Hotels and restaurants	c22	–	–	–	56	8,236
Inland transport	c23	–	1,572	–	72	25,232
Water transport	c24	–	72	–	31	2,525
Air transport	c25	–	10	–	24	1,097
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	–	4	1,234
Post and telecommunications	c27	–	–	–	66	4,237
Financial intermediation	c28	–	–	–	27	12,842
Real estate activities	c29	–	–	–	1	14,563
Renting of M&Eq and other business activities	c30	–	–	–	18	5,528
Public administration and defense; compulsory social security	c31	10,526	–	–	16	13,235
Education	c32	2,719	–	–	3	8,423
Health and social work	c33	1,403	–	–	1	6,876
Other community, social, and personal services	c34	82	–	–	2,025	30,921
Private households with employed persons	c35	–	–	–	–	–

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Table A1.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	469	0	574	425	87	59	9
Mining and quarrying	m2	5	9	35	39	6	0	2
Food, beverages, and tobacco	m3	257	0	294	49	6	1	3
Textiles and textile products	m4	52	0	66	2,759	30	1	2
Leather, leather products, and footwear	m5	0	0	0	2	22	2	0
Wood and products of wood and cork	m6	10	1	3	3	0	12	5
Pulp, paper, paper products, printing, and publishing	m7	7	1	83	82	1	0	35
Coke, refined petroleum, and nuclear fuel	m8	180	18	56	422	8	18	22
Chemicals and chemical products	m9	675	9	64	271	5	10	72
Rubber and plastics	m10	1	3	6	14	0	0	0
Other nonmetallic minerals	m11	15	10	20	53	0	0	2
Basic metals and fabricated metal	m12	78	8	19	107	4	3	6
Machinery, nec	m13	9	2	5	55	2	3	5
Electrical and optical equipment	m14	4	1	2	21	0	2	2
Transport equipment	m15	31	16	24	32	3	12	18
Manufacturing, nec; recycling	m16	1	0	1	5	0	0	0
Electricity, gas, and water supply	m17	2	0	1	2	0	0	0
Construction	m18	1	0	0	1	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	21	0	71	17	3	5	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	2	1	0	3	0
Hotels and restaurants	m22	1	0	12	24	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	60	1	59	97	15	18	7
Air transport	m25	11	0	22	91	22	15	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	1	0	0	0	0
Post and telecommunications	m27	6	1	4	8	0	2	0
Financial intermediation	m28	35	5	17	53	1	8	22
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	0	1	0	0	0	0
Public administration and defense; compulsory social security	m31	1	0	0	1	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	5	1	5	23	0	0	1
Total intermediate consumption	r60	12,838	594	13,389	44,602	3,081	1,516	1,376
Taxes less subsidies on products	r99	295	37	221	742	11	36	75
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	33,017	4,252	4,587	16,735	1,825	1,041	727
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	46,151	4,882	18,197	62,079	4,917	2,593	2,178

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Table A1.2 Imports Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	8	0	0	0	0
Mining and quarrying	m2	0	10	8	24	59	2	1
Food, beverages, and tobacco	m3	0	38	0	0	1	0	0
Textiles and textile products	m4	0	3	3	5	3	0	0
Leather, leather products, and footwear	m5	0	0	6	2	0	0	0
Wood and products of wood and cork	m6	0	2	2	1	5	1	1
Pulp, paper, paper products, printing, and publishing	m7	0	11	6	4	8	0	0
Coke, refined petroleum, and nuclear fuel	m8	3	32	12	10	103	7	10
Chemicals and chemical products	m9	0	144	36	23	38	6	6
Rubber and plastics	m10	0	5	1	2	6	0	0
Other nonmetallic minerals	m11	0	19	5	7	25	0	0
Basic metals and fabricated metal	m12	0	16	0	0	837	26	9
Machinery, nec	m13	0	2	2	1	11	4	2
Electrical and optical equipment	m14	0	1	1	1	4	1	9
Transport equipment	m15	1	5	9	4	25	12	8
Manufacturing, nec; recycling	m16	0	0	0	0	6	0	0
Electricity, gas, and water supply	m17	0	0	0	0	1	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	1	1	0	11	1	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	5	20	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	8	17	6	52	2	1
Air transport	m25	0	1	1	0	3	1	4
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	1	0	0
Post and telecommunications	m27	0	0	0	0	4	0	0
Financial intermediation	m28	0	43	12	143	16	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	2	1	2	12	0	0
Total intermediate consumption	r60	42	1,856	1,155	2,860	7,709	309	258
Taxes less subsidies on products	r99	4	81	48	104	360	17	26
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	12	1,869	695	3,424	1,928	172	220
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	59	3,806	1,899	6,389	9,997	498	504

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Table A1.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	51	0	185	0	0	0	227	0	0	0	0
1	7	84	150	0	0	0	18	149	0	0	0
0	3	0	6	0	0	0	134	16	0	0	0
7	33	5	48	1	10	9	17	12	1	1	0
3	16	0	4	0	2	0	1	15	0	1	0
3	29	5	47	0	0	1	1	1	0	0	0
0	6	12	6	0	60	0	9	20	3	2	6
49	18	73	218	1	5	6	13	429	39	62	5
30	38	34	338	0	32	0	28	96	21	25	4
0	18	6	299	0	4	0	8	5	1	0	0
2	60	20	990	0	13	0	26	21	7	1	1
100	130	54	969	1	11	12	4	51	7	4	5
18	5	2	57	1	3	5	3	29	12	7	5
5	1	1	25	0	4	0	2	12	5	2	2
76	5	16	150	1	2	19	6	62	12	4	12
1	4	1	8	0	0	1	0	2	1	0	0
0	1	6	1	0	0	0	3	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2	8	3	38	6	78	39	13	147	9	27	1
1	3	0	3	0	2	2	2	21	1	2	0
0	8	3	18	1	5	10	0	12	1	1	0
0	0	0	0	0	0	0	0	1	0	0	0
31	37	21	121	0	33	2	12	30	38	3	4
1	3	1	25	0	45	2	4	9	3	35	0
0	0	0	3	0	0	0	0	2	1	0	2
1	2	4	32	0	3	2	4	10	1	1	2
6	12	9	193	1	7	8	24	14	2	1	2
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	3	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	2	6	11	6	2	3	1	10	2	0	0
<b>1,795</b>	<b>5,846</b>	<b>2,762</b>	<b>32,487</b>	<b>533</b>	<b>2,979</b>	<b>2,629</b>	<b>5,696</b>	<b>7,038</b>	<b>782</b>	<b>767</b>	<b>327</b>
135	104	90	1,041	25	124	120	132	504	87	120	50
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
4,845	4,506	3,269	18,202	2,815	14,011	13,566	2,407	17,690	1,656	211	857
-	-	-	-	-	-	-	-	-	-	-	-
<b>6,774</b>	<b>10,456</b>	<b>6,122</b>	<b>51,730</b>	<b>3,373</b>	<b>17,114</b>	<b>16,315</b>	<b>8,236</b>	<b>25,232</b>	<b>2,525</b>	<b>1,097</b>	<b>1,234</b>

*continued on next page*

Table A1.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	32	0	0
Mining and quarrying	m2	0	0	16	0	0
Food, beverages, and tobacco	m3	0	6	0	2	1
Textiles and textile products	m4	1	1	23	2	4
Leather, leather products, and footwear	m5	0	0	0	2	0
Wood and products of wood and cork	m6	1	1	7	1	0
Pulp, paper, paper products, printing, and publishing	m7	26	42	0	56	18
Coke, refined petroleum, and nuclear fuel	m8	8	21	1	16	113
Chemicals and chemical products	m9	27	23	0	15	7
Rubber and plastics	m10	1	5	0	1	1
Other nonmetallic minerals	m11	3	16	0	4	3
Basic metals and fabricated metal	m12	3	2	16	1	7
Machinery, nec	m13	4	8	0	14	5
Electrical and optical equipment	m14	2	3	0	4	2
Transport equipment	m15	5	15	0	5	16
Manufacturing, nec; recycling	m16	0	1	0	1	0
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	15	12	6	2	30
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	2	0	0	4
Hotels and restaurants	m22	11	12	0	14	2
Inland transport	m23	0	0	0	0	0
Water transport	m24	11	10	4	8	30
Air transport	m25	18	34	0	2	47
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	0	0	0	1
Post and telecommunications	m27	5	6	1	1	1
Financial intermediation	m28	7	36	2	3	5
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	2	4	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	4	1	72	8	1
Total intermediate consumption	r60	1,266	3,515	1,259	1,192	3,350
Taxes less subsidies on products	r99	91	207	30	79	112
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	2,880	9,120	13,275	4,256	9,772
International transport margins		–	–	–	–	–
Output at basic prices	r69	4,237	12,842	14,563	5,528	13,235

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Table A1.2 Imports Industry *continued*

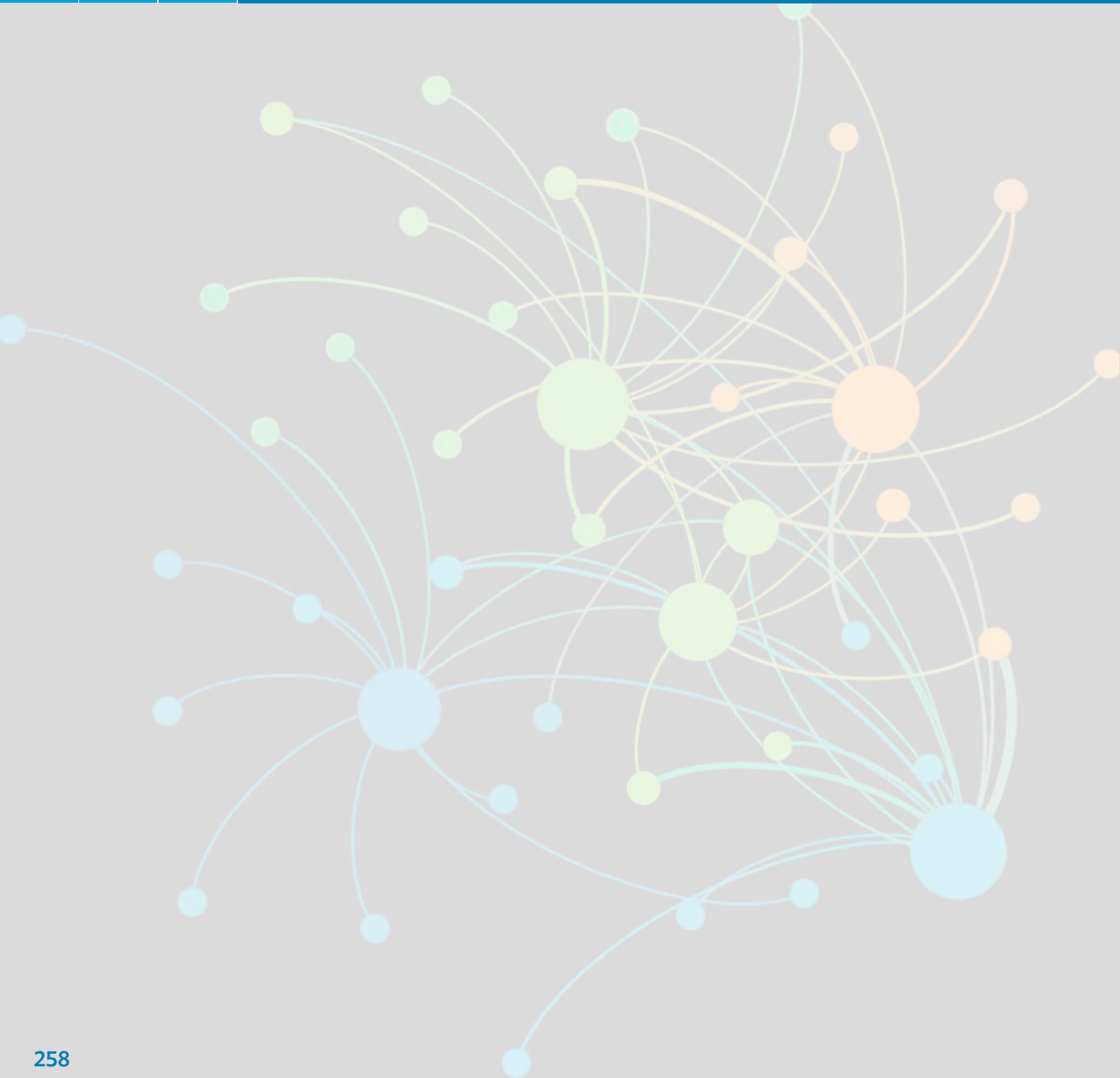
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	5	5	–	2,473	–	0	6	–	–	4,616
0	0	0	–	35	–	–	–	–	–	662
1	0	37	–	2,301	–	0	1	–	–	3,159
1	10	39	–	1,057	–	0	1	–	–	4,210
2	0	2	–	46	–	–	0	–	–	128
0	2	1	–	134	–	0	1	–	–	281
44	5	54	–	94	–	0	0	–	–	702
14	13	11	–	359	–	0	22	–	–	2,396
7	580	17	–	801	–	0	0	–	–	3,483
17	0	14	–	77	–	0	0	–	–	496
62	14	51	–	257	–	0	12	–	–	1,721
1	4	15	–	37	–	0	1,580	–	–	4,126
4	5	19	–	107	–	0	466	–	–	881
1	4	8	–	49	–	0	398	–	–	579
1	6	8	–	470	–	0	7,134	–	–	8,225
0	0	2	–	18	–	0	18	–	–	74
0	0	0	–	8	–	0	0	–	–	26
0	0	0	–	0	–	0	73	–	–	77
0	0	0	–	0	–	0	0	–	–	0
4	2	2	–	808	–	0	27	–	–	1,411
1	0	1	–	141	–	0	1	–	–	198
4	0	14	–	201	–	0	0	–	–	377
0	0	0	–	8	–	0	0	–	–	11
11	10	19	–	1,853	–	1	72	–	–	2,707
10	21	46	–	1,223	–	0	19	–	–	1,720
0	0	0	–	3	–	0	1	–	–	18
3	0	3	–	45	–	0	39	–	–	192
8	0	13	–	177	–	0	67	–	–	953
0	0	0	–	2	–	0	0	–	–	4
0	1	1	–	19	–	0	7	–	–	40
0	0	0	–	0	–	0	1	–	–	7
0	0	0	–	5	–	0	0	–	–	8
0	0	0	–	0	–	0	0	–	–	1
0	0	0	–	1	–	0	0	–	–	2
4	0	5	–	52	–	0	0	–	–	245
<b>1,267</b>	<b>2,017</b>	<b>4,006</b>	–	<b>163,320</b>	–	<b>14,734</b>	<b>72,829</b>	–	<b>30,734</b>	<b>454,716</b>
73	2	228	–	5,000	–	3	2,750	–	–	13,165
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
7,083	4,857	26,687	–	–	–	–	–	–	–	232,469
–	–	–	–	–	–	–	–	–	–	–
<b>8,423</b>	<b>6,876</b>	<b>30,921</b>	–	<b>168,320</b>	–	<b>14,736</b>	<b>75,579</b>	–	<b>30,734</b>	<b>700,350</b>

\$ = United States dollar; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# A2

## APPENDIX 2: INPUT-OUTPUT TABLES FOR 2010 AND 2017—BHUTAN





**Table A2.1: Bhutan Input–Output Table, 2010** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	9	–	12	–	–	1	2
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	1	–	–	–	–	–	0
Textiles and textile products	c4	–	–	0	5	1	–	1
Leather, leather products, and footwear	c5	–	–	0	1	0	–	0
Wood and products of wood and cork	c6	–	0	0	0	0	0	–
Pulp, paper, paper products, printing, and publishing	c7	–	0	0	1	0	0	–
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–	–	–
Chemicals and chemical products	c9	1	0	0	1	0	–	0
Rubber and plastics	c10	–	0	1	–	–	–	–
Other nonmetallic minerals	c11	–	–	–	–	–	–	–
Basic metals and fabricated metal	c12	–	–	–	–	–	–	–
Machinery, nec	c13	–	–	–	–	–	–	–
Electrical and optical equipment	c14	–	–	–	–	–	–	0
Transport equipment	c15	–	–	–	–	–	–	–
Manufacturing, nec; recycling	c16	1	0	0	1	0	0	0
Electricity, gas, and water supply	c17	0	3	2	0	0	0	1
Construction	c18	0	2	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	0	0	1	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1	0	1	1	0	0	0
Hotels and restaurants	c22	–	–	–	–	–	–	–
Inland transport	c23	1	0	1	2	0	0	0
Water transport	c24	0	0	0	0	0	0	0
Air transport	c25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	0	0	0
Post and telecommunications	c27	0	0	0	0	0	0	0
Financial intermediation	c28	3	0	1	1	0	0	0
Real estate activities	c29	–	0	0	–	–	0	–
Renting of M&Eq and other business activities	c30	0	1	–	–	–	–	–
Public administration and defense; compulsory social security	c31	–	1	0	2	0	0	–
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	0	0	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A2.1 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	-	-	-	-	-	-	-
Mining and quarrying	c2	-	2	-	10	2	1	1
Food, beverages, and tobacco	c3	-	-	-	-	-	-	-
Textiles and textile products	c4	-	0	-	-	0	0	0
Leather, leather products, and footwear	c5	-	0	-	-	0	0	0
Wood and products of wood and cork	c6	-	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	-	0	0	0	1	0	0
Coke, refined petroleum, and nuclear fuel	c8	-	-	-	-	-	-	-
Chemicals and chemical products	c9	-	0	1	2	2	0	1
Rubber and plastics	c10	-	0	-	-	0	0	0
Other nonmetallic minerals	c11	-	0	-	-	-	-	-
Basic metals and fabricated metal	c12	-	0	-	-	0	0	0
Machinery, nec	c13	-	-	-	-	-	-	-
Electrical and optical equipment	c14	-	-	-	-	-	-	-
Transport equipment	c15	-	-	-	-	-	-	-
Manufacturing, nec; recycling	c16	-	0	1	2	2	1	1
Electricity, gas, and water supply	c17	-	7	0	60	9	3	3
Construction	c18	-	0	0	1	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	0	0	2	1	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	1	0	3	1	0	0
Hotels and restaurants	c22	-	-	-	-	-	-	-
Inland transport	c23	-	1	0	5	2	1	1
Water transport	c24	-	0	0	0	0	0	0
Air transport	c25	-	0	0	3	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	0	0	0	0	0	0
Post and telecommunications	c27	-	0	0	1	0	0	0
Financial intermediation	c28	-	1	0	8	2	1	1
Real estate activities	c29	-	0	0	-	0	0	0
Renting of M&Eq and other business activities	c30	-	0	0	2	0	0	0
Public administration and defense; compulsory social security	c31	-	2	0	3	1	0	0
Education	c32	-	-	-	-	-	-	-
Health and social work	c33	-	-	-	-	-	-	-
Other community, social, and personal services	c34	-	0	0	0	0	0	0
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A2.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
-	-	-	26	-	-	-	4	-	-	0	-
2	3	-	3	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0	-	-	0	-
0	0	-	-	-	-	-	-	-	-	-	-
0	0	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
1	0	4	7	-	-	-	0	-	-	0	-
0	0	0	-	-	-	-	0	2	0	-	-
-	0	-	77	-	-	-	-	-	-	-	-
0	0	3	7	-	-	-	-	1	0	0	-
-	-	-	-	-	-	-	-	-	-	0	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1	0	4	7	0	0	0	0	1	0	1	0
6	8	2	1	0	0	0	0	0	0	0	0
0	0	3	16	0	0	0	0	-	-	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	1	6	0	0	0	0	1	0	0	0
1	1	2	9	0	0	0	0	2	0	1	0
-	-	0	0	0	0	0	-	0	0	1	1
1	1	3	25	1	6	10	0	3	0	7	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	3	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	3	0	1	2	0	4	0	1	0
1	1	0	8	0	2	3	0	19	0	1	0
0	0	2	-	1	5	8	1	3	0	-	-
0	0	3	5	0	0	0	1	-	-	0	0
1	2	-	2	0	1	1	0	1	0	0	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-

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Table A2.1 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	-	-	-	0	1
Mining and quarrying	c2	-	-	-	-	-
Food, beverages, and tobacco	c3	-	-	-	0	0
Textiles and textile products	c4	0	-	-	-	0
Leather, leather products, and footwear	c5	0	-	-	-	0
Wood and products of wood and cork	c6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	1	0	0
Coke, refined petroleum, and nuclear fuel	c8	-	-	-	-	-
Chemicals and chemical products	c9	0	-	0	-	0
Rubber and plastics	c10	0	0	-	-	-
Other nonmetallic minerals	c11	3	0	-	0	1
Basic metals and fabricated metal	c12	0	-	1	-	-
Machinery, nec	c13	-	-	-	-	-
Electrical and optical equipment	c14	-	-	-	-	-
Transport equipment	c15	-	-	-	-	-
Manufacturing, nec; recycling	c16	0	0	0	0	0
Electricity, gas, and water supply	c17	3	0	2	1	3
Construction	c18	5	0	5	-	33
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	1	0	0
Hotels and restaurants	c22	0	0	-	2	-
Inland transport	c23	1	2	1	1	4
Water transport	c24	0	0	0	0	0
Air transport	c25	0	0	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	0
Post and telecommunications	c27	1	1	2	2	3
Financial intermediation	c28	0	0	1	-	9
Real estate activities	c29	1	2	-	-	4
Renting of M&Eq and other business activities	c30	2	0	-	-	2
Public administration and defense; compulsory social security	c31	1	0	-	1	1
Education	c32	-	0	-	1	3
Health and social work	c33	-	-	-	-	-
Other community, social, and personal services	c34	0	0	0	1	1
Private households with employed persons	c35	-	-	-	-	-

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Table A2.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
0	0	0	–	179	–	–	0	13	49	<b>297</b>
–	–	–	–	1	–	–	0	(0)	24	<b>48</b>
0	–	0	–	33	–	–	–	(0)	5	<b>40</b>
3	0	0	–	23	–	–	1	(0)	0	<b>33</b>
0	0	0	–	3	–	–	0	(0)	0	<b>4</b>
1	0	0	–	1	–	–	0	(0)	0	<b>4</b>
2	0	0	–	3	–	–	0	(0)	2	<b>13</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
0	2	0	–	2	–	–	0	0	7	<b>31</b>
–	–	0	–	0	–	–	0	0	1	<b>6</b>
–	0	–	–	18	–	–	0	4	63	<b>167</b>
–	–	0	–	0	–	–	9	(1)	34	<b>55</b>
–	–	–	–	2	–	–	15	(0)	0	<b>17</b>
–	–	–	–	1	–	–	18	0	–	<b>20</b>
–	–	–	–	16	–	–	17	1	0	<b>35</b>
0	1	0	–	2	–	–	1	0	6	<b>34</b>
1	0	0	–	4	–	–	22	–	196	<b>340</b>
1	1	–	–	20	–	–	498	–	0	<b>584</b>
0	0	0	–	1	–	–	1	–	2	<b>6</b>
1	0	0	–	10	–	–	9	–	14	<b>49</b>
1	0	0	–	15	–	–	17	–	22	<b>79</b>
4	2	0	–	1	–	–	–	–	12	<b>24</b>
6	2	0	–	24	–	–	19	–	48	<b>181</b>
0	0	0	–	0	–	–	0	–	0	<b>1</b>
0	0	0	–	5	–	–	4	–	19	<b>39</b>
0	0	0	–	0	–	–	1	–	1	<b>3</b>
1	1	1	–	25	–	–	0	–	1	<b>54</b>
–	–	–	–	25	–	–	–	–	5	<b>95</b>
0	0	0	–	29	–	–	–	–	0	<b>57</b>
3	2	–	–	3	–	–	5	–	0	<b>29</b>
1	0	0	–	8	–	163	–	–	9	<b>199</b>
1	1	0	–	14	–	70	–	–	–	<b>89</b>
–	–	–	–	7	–	39	–	–	–	<b>46</b>
1	1	0	–	6	–	–	–	–	0	<b>11</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A2.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	4	0	3	0	0	0	1
Mining and quarrying	m2	–	–	–	–	–	–	–
Food, beverages, and tobacco	m3	1	0	0	0	0	0	0
Textiles and textile products	m4	0	0	0	3	0	0	0
Leather, leather products, and footwear	m5	0	–	0	1	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	1	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	0	0	0
Chemicals and chemical products	m9	2	1	0	1	0	0	1
Rubber and plastics	m10	0	0	2	0	0	0	0
Other nonmetallic minerals	m11	0	0	0	0	0	0	0
Basic metals and fabricated metal	m12	0	0	0	0	0	0	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	1
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	3	1	1	1	0	0	1
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	–
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	30	13	27	23	3	3	9
Taxes less subsidies on products	r99	1	0	0	0	0	0	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	266	35	12	10	1	1	4
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	297	48	40	33	4	4	13

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Table A2.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	2	0	0	0	0
Mining and quarrying	m2	–	–	–	–	–	–
Food, beverages, and tobacco	m3	0	0	0	0	0	0
Textiles and textile products	m4	0	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	0	0
Chemicals and chemical products	m9	0	0	0	0	0	0
Rubber and plastics	m10	0	0	12	0	0	0
Other nonmetallic minerals	m11	0	0	0	0	0	0
Basic metals and fabricated metal	m12	0	0	2	0	0	0
Machinery, nec	m13	0	0	0	0	3	0
Electrical and optical equipment	m14	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	27	0	12	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	4	0	1	0	2	0
Water transport	m24	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0
Financial intermediation	m28	0	0	1	0	0	0
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	31	10	81	0	31	1
Taxes less subsidies on products	r99	0	0	2	0	1	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	49	13	98	0	8	2
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	79	24	181	1	39	3

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Table A2.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	0	0	1	0	0	0	–	96	–
–	–	–	–	–	–	–	–	–	0	–
0	0	0	0	0	0	0	0	–	34	–
0	0	0	0	0	1	0	0	–	11	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	1	0	0	–	2	–
0	0	1	0	0	2	0	0	–	5	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	1	0	–	3	–
0	0	0	0	0	0	0	0	–	1	–
1	0	0	0	1	0	0	0	–	7	–
0	0	3	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	16	–
0	0	0	0	0	0	0	0	–	4	–
0	0	0	0	0	0	0	0	–	18	–
2	0	3	1	1	1	1	1	–	13	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	2	0	0	0	–	4	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	1	0	0	0	–	1	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	1	1	0	0	–	9	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	0	–
1	0	0	0	1	1	1	0	–	2	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	1	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	–	0	0	–	–	–	0	–
<b>24</b>	<b>8</b>	<b>24</b>	<b>12</b>	<b>78</b>	<b>35</b>	<b>18</b>	<b>4</b>	<b>–</b>	<b>721</b>	<b>–</b>
0	0	0	0	1	0	0	0	–	17	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
29	87	33	17	121	54	28	7	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>54</b>	<b>95</b>	<b>57</b>	<b>29</b>	<b>199</b>	<b>89</b>	<b>46</b>	<b>11</b>	<b>–</b>	<b>739</b>	<b>–</b>

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Table A2.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	2	–	116
Mining and quarrying	m2	–	0	(0)	–	5
Food, beverages, and tobacco	m3	0	0	0	–	36
Textiles and textile products	m4	0	0	0	–	17
Leather, leather products, and footwear	m5	–	0	(0)	–	3
Wood and products of wood and cork	m6	0	0	0	–	5
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	–	15
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	–	3
Chemicals and chemical products	m9	0	0	0	–	36
Rubber and plastics	m10	0	0	0	–	21
Other nonmetallic minerals	m11	0	0	0	–	30
Basic metals and fabricated metal	m12	0	35	(0)	–	79
Machinery, nec	m13	0	93	(1)	–	112
Electrical and optical equipment	m14	0	67	1	–	73
Transport equipment	m15	0	19	0	–	38
Manufacturing, nec; recycling	m16	0	32	0	–	200
Electricity, gas, and water supply	m17	0	2	0	–	5
Construction	m18	0	47	0	–	59
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	–	4
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	1
Hotels and restaurants	m22	0	0	0	–	0
Inland transport	m23	0	7	0	–	43
Water transport	m24	–	0	0	–	0
Air transport	m25	–	0	0	–	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	0
Post and telecommunications	m27	0	0	0	–	5
Financial intermediation	m28	0	0	0	–	4
Real estate activities	m29	0	0	0	–	0
Renting of M&Eq and other business activities	m30	0	3	0	–	15
Public administration and defense; compulsory social security	m31	1	0	0	–	1
Education	m32	37	0	0	–	41
Health and social work	m33	8	0	0	–	9
Other community, social, and personal services	m34	0	0	0	–	3
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	317	947	20	521	3,672
Taxes less subsidies on products	r99	–	12	(0)	–	52
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	1,522
International transport margins		–	–	–	–	–
Output at basic prices	r69	317	959	19	521	5,245

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A2.2: Bhutan Input–Output Table, 2017** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	16	–	17	–	–	2	2
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	2	–	–	–	–	–	0
Textiles and textile products	c4	–	–	0	2	0	–	1
Leather, leather products, and footwear	c5	–	–	0	0	0	–	0
Wood and products of wood and cork	c6	–	0	0	0	0	0	–
Pulp, paper, paper products, printing, and publishing	c7	–	0	0	1	0	0	–
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–	–	–
Chemicals and chemical products	c9	3	1	0	0	0	–	1
Rubber and plastics	c10	–	0	1	–	–	–	–
Other nonmetallic minerals	c11	–	–	–	–	–	–	–
Basic metals and fabricated metal	c12	–	–	–	–	–	–	–
Machinery, nec	c13	–	–	–	–	–	–	–
Electrical and optical equipment	c14	–	–	–	–	–	–	1
Transport equipment	c15	–	–	–	–	–	–	–
Manufacturing, nec; recycling	c16	3	1	0	0	0	0	1
Electricity, gas, and water supply	c17	0	10	4	0	0	0	2
Construction	c18	0	8	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1	0	1	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2	0	2	1	0	0	1
Hotels and restaurants	c22	–	–	–	–	–	–	–
Inland transport	c23	3	1	2	1	0	0	1
Water transport	c24	0	0	0	0	0	0	0
Air transport	c25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	0	0	0
Post and telecommunications	c27	0	1	0	0	0	0	0
Financial intermediation	c28	6	0	2	1	0	0	0
Real estate activities	c29	–	1	0	–	–	0	–
Renting of M&Eq and other business activities	c30	0	2	–	–	–	–	–
Public administration and defense; compulsory social security	c31	–	1	0	0	0	0	–
Education	c32	–	–	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	0	0	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A2.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	-	-	-	-	-	-	-
Mining and quarrying	c2	-	7	-	19	7	2	2
Food, beverages, and tobacco	c3	-	-	-	-	-	-	-
Textiles and textile products	c4	-	0	-	-	0	0	0
Leather, leather products, and footwear	c5	-	0	-	-	0	0	0
Wood and products of wood and cork	c6	-	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	-	0	0	0	1	0	1
Coke, refined petroleum, and nuclear fuel	c8	-	-	-	-	-	-	-
Chemicals and chemical products	c9	-	1	1	1	2	1	1
Rubber and plastics	c10	-	1	-	-	0	0	0
Other nonmetallic minerals	c11	-	0	-	-	-	-	-
Basic metals and fabricated metal	c12	-	0	-	-	1	0	0
Machinery, nec	c13	-	-	-	-	-	-	-
Electrical and optical equipment	c14	-	-	-	-	-	-	-
Transport equipment	c15	-	-	-	-	-	-	-
Manufacturing, nec; recycling	c16	-	1	1	1	2	1	1
Electricity, gas, and water supply	c17	-	12	0	25	14	5	5
Construction	c18	-	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	1	0	1	1	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	1	0	2	2	1	1
Hotels and restaurants	c22	-	-	-	-	-	-	-
Inland transport	c23	-	2	0	2	2	1	1
Water transport	c24	-	0	0	0	0	0	0
Air transport	c25	-	0	0	1	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	0	0	0	0	0	0
Post and telecommunications	c27	-	0	0	0	0	0	0
Financial intermediation	c28	-	1	0	3	2	1	1
Real estate activities	c29	-	0	0	-	0	0	0
Renting of M&Eq and other business activities	c30	-	0	0	1	0	0	0
Public administration and defense; compulsory social security	c31	-	1	0	0	0	0	0
Education	c32	-	-	-	-	-	-	-
Health and social work	c33	-	-	-	-	-	-	-
Other community, social, and personal services	c34	-	0	0	0	0	0	0
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A2.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
-	-	-	38	-	-	-	8	-	-	0	-
4	7	-	9	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	0	-	-	0	-
0	0	-	-	-	-	-	-	-	-	-	-
0	0	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
2	1	4	12	-	-	-	0	-	-	0	-
0	1	0	-	-	-	-	0	5	0	-	-
-	0	-	70	-	-	-	-	-	-	-	-
1	0	3	13	-	-	-	-	1	0	0	-
-	-	-	-	-	-	-	-	-	-	1	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
2	1	4	14	0	0	0	0	1	0	1	0
9	12	1	2	0	0	0	1	0	0	0	0
0	0	4	52	0	0	0	1	-	-	0	0
0	0	0	2	0	0	0	0	0	0	0	0
1	1	1	12	0	0	0	0	3	0	1	0
1	1	2	20	0	0	0	1	5	0	1	0
-	-	1	0	0	0	1	-	1	0	1	0
2	2	3	54	1	10	17	1	5	0	9	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	4	0	0	0	0	1	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	2	0	1	2	0	3	0	1	0
1	1	0	11	0	2	3	0	30	0	1	0
0	0	1	-	1	5	9	3	3	0	-	-
0	0	3	7	0	0	0	2	-	-	0	0
0	1	-	1	0	0	0	0	0	0	0	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-

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Table A2.2 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	-	-	-	0	1
Mining and quarrying	c2	-	-	-	-	-
Food, beverages, and tobacco	c3	-	-	-	0	0
Textiles and textile products	c4	0	-	-	-	0
Leather, leather products, and footwear	c5	0	-	-	-	0
Wood and products of wood and cork	c6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	1	0	1	0
Coke, refined petroleum, and nuclear fuel	c8	-	-	-	-	-
Chemicals and chemical products	c9	0	-	0	-	0
Rubber and plastics	c10	0	0	-	-	-
Other nonmetallic minerals	c11	2	0	-	0	1
Basic metals and fabricated metal	c12	0	-	0	-	-
Machinery, nec	c13	-	-	-	-	-
Electrical and optical equipment	c14	-	-	-	-	-
Transport equipment	c15	-	-	-	-	-
Manufacturing, nec; recycling	c16	0	0	0	0	0
Electricity, gas, and water supply	c17	3	1	0	1	4
Construction	c18	6	1	1	-	49
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	0	0	0
Hotels and restaurants	c22	0	0	-	4	-
Inland transport	c23	1	5	0	2	4
Water transport	c24	0	0	0	0	0
Air transport	c25	0	0	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	0
Post and telecommunications	c27	0	2	0	2	2
Financial intermediation	c28	0	0	0	-	8
Real estate activities	c29	1	3	-	-	3
Renting of M&Eq and other business activities	c30	3	2	-	-	3
Public administration and defense; compulsory social security	c31	0	0	-	0	0
Education	c32	-	0	-	0	1
Health and social work	c33	-	-	-	-	-
Other community, social, and personal services	c34	0	0	0	1	0
Private households with employed persons	c35	-	-	-	-	-

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Table A2.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
0	0	1	–	318	–	–	0	(5)	52	<b>450</b>
–	–	–	–	4	–	–	1	0	52	<b>115</b>
0	–	0	–	50	–	–	–	0	5	<b>58</b>
1	0	0	–	20	–	–	0	0	0	<b>25</b>
0	0	0	–	3	–	–	0	0	0	<b>3</b>
0	0	0	–	2	–	–	0	0	1	<b>5</b>
1	0	0	–	9	–	–	0	0	2	<b>21</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
0	1	0	–	4	–	–	0	(0)	11	<b>48</b>
–	–	0	–	0	–	–	0	(0)	2	<b>10</b>
–	0	–	–	26	–	–	0	(2)	38	<b>137</b>
–	–	0	–	1	–	–	12	1	50	<b>83</b>
–	–	–	–	6	–	–	19	0	0	<b>26</b>
–	–	–	–	3	–	–	27	(0)	0	<b>30</b>
–	–	–	–	34	–	–	19	(1)	0	<b>52</b>
0	1	0	–	5	–	–	1	(0)	9	<b>52</b>
0	0	1	–	9	–	–	25	–	245	<b>393</b>
0	1	–	–	101	–	–	735	–	17	<b>977</b>
0	0	0	–	4	–	–	2	–	3	<b>12</b>
0	0	0	–	29	–	–	12	–	21	<b>91</b>
1	0	0	–	49	–	–	20	–	33	<b>149</b>
2	3	1	–	2	–	–	–	–	52	<b>67</b>
2	1	0	–	59	–	–	23	–	59	<b>276</b>
0	0	0	–	0	–	–	0	–	0	<b>1</b>
0	0	0	–	10	–	–	4	–	31	<b>56</b>
0	0	0	–	1	–	–	0	–	0	<b>3</b>
0	0	1	–	29	–	–	0	–	18	<b>67</b>
–	–	–	–	65	–	–	–	–	5	<b>145</b>
0	0	0	–	23	–	–	–	–	1	<b>54</b>
1	2	–	–	7	–	–	6	–	2	<b>43</b>
0	0	0	–	6	–	234	–	–	15	<b>264</b>
0	0	0	–	2	–	77	–	–	4	<b>84</b>
–	–	–	–	5	–	47	–	–	3	<b>54</b>
0	0	0	–	9	–	–	–	–	6	<b>17</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A2.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	7	0	4	0	0	1	1
Mining and quarrying	m2	–	–	–	–	–	–	–
Food, beverages, and tobacco	m3	2	0	0	0	0	0	0
Textiles and textile products	m4	0	0	0	2	0	0	0
Leather, leather products, and footwear	m5	0	–	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	0	0	0
Chemicals and chemical products	m9	4	1	0	0	0	0	1
Rubber and plastics	m10	0	1	4	0	0	0	0
Other nonmetallic minerals	m11	0	0	0	0	0	0	0
Basic metals and fabricated metal	m12	0	0	0	0	0	0	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	2
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	5	3	2	0	0	0	1
Electricity, gas, and water supply	m17	0	0	0	0	0	0	0
Construction	m18	0	1	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	1	0	1	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	1	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	57	34	41	11	1	4	15
Taxes less subsidies on products	r99	1	0	0	0	0	0	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	392	80	16	13	2	1	5
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	450	115	58	25	3	5	21

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Table A2.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
-	0	0	0	0	0	0	0	0	0	11	0	0
-	0	-	2	1	0	0	0	1	-	1	-	-
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	-	-
-	0	0	0	1	0	0	0	0	0	0	0	0
-	0	0	0	1	0	1	1	0	0	1	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	2	2	3	1	1	2	1	5	16	0	0
-	1	0	0	0	0	0	0	3	0	0	0	0
-	0	0	0	0	0	0	0	0	0	33	0	0
-	0	0	0	2	1	1	1	0	7	27	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	1	1	1	11	4	4	7	1	8	134	0	0
-	0	0	1	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	1	8	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	1
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	1	1	0	0	1	1	1	27	0	3
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	1	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	1	0	0
-	0	0	0	0	0	0	0	0	0	1	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	1	0	0	0	0	0	2	5	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0
-	-	-	-	0	0	-	0	0	0	0	0	0
-	<b>35</b>	<b>7</b>	<b>67</b>	<b>59</b>	<b>19</b>	<b>21</b>	<b>37</b>	<b>37</b>	<b>54</b>	<b>592</b>	<b>3</b>	<b>25</b>
-	1	0	1	1	0	1	1	1	1	18	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	13	2	68	23	7	8	14	14	338	368	9	66
-	-	-	-	-	-	-	-	-	-	-	-	-
-	<b>48</b>	<b>10</b>	<b>137</b>	<b>83</b>	<b>26</b>	<b>30</b>	<b>52</b>	<b>52</b>	<b>393</b>	<b>977</b>	<b>12</b>	<b>91</b>

*continued on next page*



Table A2.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	2	0	0	0	0
Mining and quarrying	m2	–	–	–	–	–	–
Food, beverages, and tobacco	m3	0	0	0	0	0	0
Textiles and textile products	m4	0	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	0	0	0
Chemicals and chemical products	m9	0	0	0	0	0	0
Rubber and plastics	m10	0	0	19	0	0	0
Other nonmetallic minerals	m11	0	0	0	0	0	0
Basic metals and fabricated metal	m12	0	0	3	0	0	0
Machinery, nec	m13	0	0	0	0	4	0
Electrical and optical equipment	m14	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	49	0	18	0
Electricity, gas, and water supply	m17	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	5	0	2	0	3	0
Water transport	m24	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0
Post and telecommunications	m27	0	0	1	0	0	0
Financial intermediation	m28	0	0	2	0	0	0
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	1	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	41	22	136	0	44	1
Taxes less subsidies on products	r99	0	0	3	0	1	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	108	44	137	0	11	2
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	149	67	276	1	56	3

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Table A2.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	0	0	1	0	0	0	-	154	-
-	-	-	-	-	-	-	-	-	0	-
0	0	0	0	0	0	0	0	-	52	-
0	0	0	0	0	1	0	0	-	21	-
0	0	0	0	0	0	0	0	-	4	-
0	0	0	0	0	1	0	0	-	5	-
0	1	0	1	0	1	0	0	-	12	-
0	0	0	0	0	0	0	0	-	0	-
0	0	0	0	0	0	1	0	-	5	-
0	0	0	0	0	0	0	0	-	1	-
1	0	0	0	1	0	0	0	-	11	-
0	0	0	0	0	0	0	0	-	2	-
0	0	0	0	0	0	0	0	-	31	-
0	0	0	0	0	0	0	0	-	8	-
0	0	0	0	0	0	0	0	-	33	-
2	1	1	2	2	0	2	1	-	27	-
0	0	0	0	0	0	0	0	-	1	-
1	0	0	0	8	0	1	0	-	14	-
0	0	0	0	0	0	0	0	-	0	-
0	0	0	0	1	0	0	0	-	3	-
0	0	0	0	0	0	0	0	-	0	-
0	0	0	0	0	0	0	0	-	0	-
0	2	0	1	2	1	1	0	-	18	-
0	0	0	0	1	0	0	0	-	0	-
0	0	0	0	1	0	0	0	-	1	-
0	0	0	0	0	0	0	0	-	0	-
0	0	0	0	0	0	0	0	-	6	-
0	0	0	0	1	0	0	0	-	3	-
0	0	0	0	0	0	0	0	-	0	-
1	1	0	0	2	1	2	0	-	4	-
0	0	0	0	0	0	0	0	-	0	-
0	1	0	1	2	0	1	0	-	5	-
0	0	0	0	0	0	0	0	-	4	-
0	0	0	1	0	0	0	0	-	6	-
0	0	0	-	0	0	-	-	-	0	-
<b>25</b>	<b>22</b>	<b>5</b>	<b>19</b>	<b>101</b>	<b>17</b>	<b>19</b>	<b>8</b>	-	<b>1,329</b>	-
0	0	0	0	1	0	1	0	-	28	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
41	123	49	24	162	67	34	9	-	-	-
-	-	-	-	-	-	-	-	-	-	-
<b>67</b>	<b>145</b>	<b>54</b>	<b>43</b>	<b>264</b>	<b>84</b>	<b>54</b>	<b>17</b>	-	<b>1,357</b>	-

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Table A2.2 Imports Industry *continued*

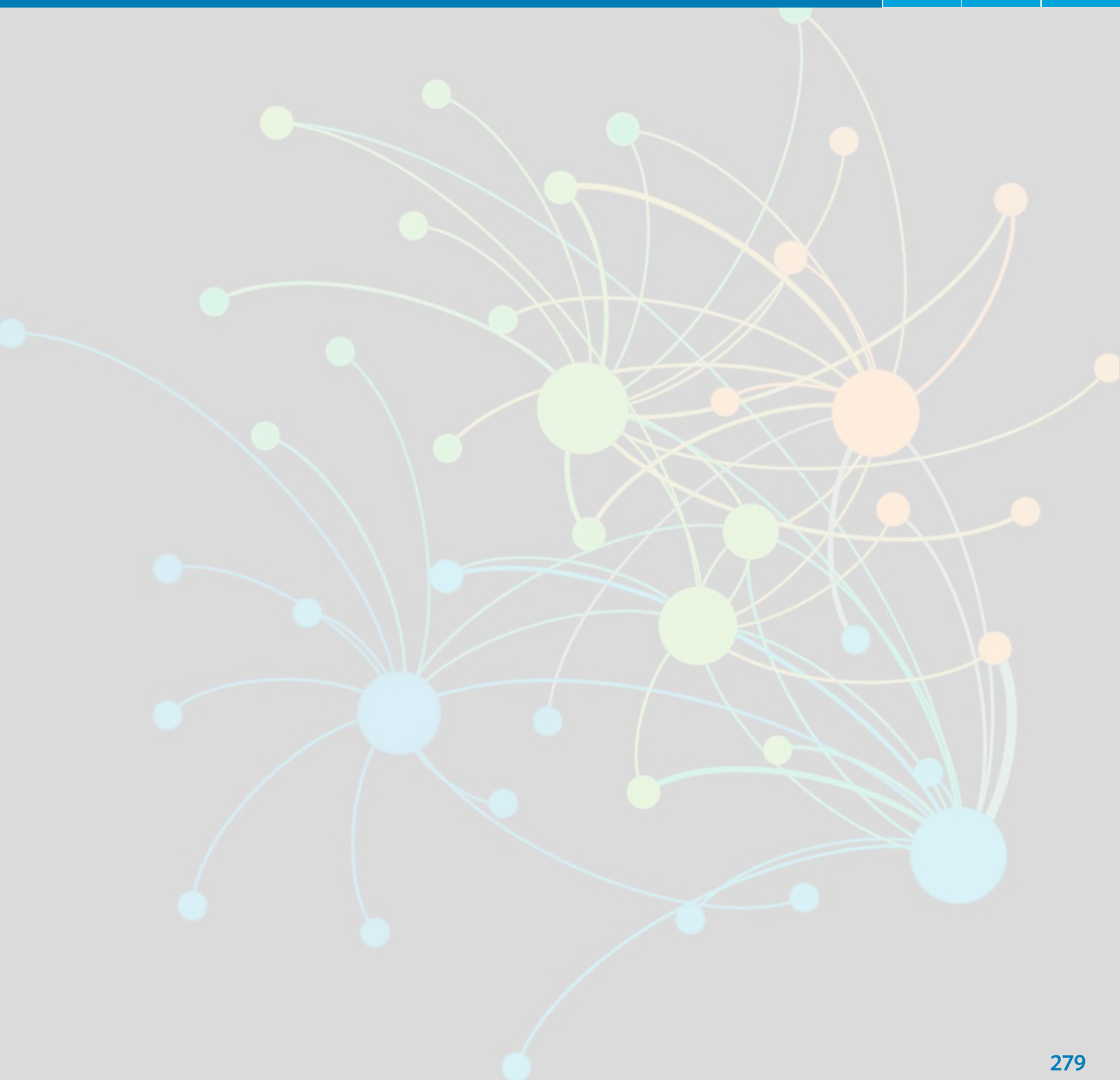
		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Imports</b>						
Agriculture, hunting, forestry, and fishing	m1	0	0	3	–	183
Mining and quarrying	m2	–	0	(0)	–	6
Food, beverages, and tobacco	m3	0	0	(0)	–	56
Textiles and textile products	m4	0	0	(0)	–	25
Leather, leather products, and footwear	m5	–	0	(0)	–	4
Wood and products of wood and cork	m6	0	0	(0)	–	9
Pulp, paper, paper products, printing, and publishing	m7	0	1	(0)	–	22
Coke, refined petroleum, and nuclear fuel	m8	0	0	0	–	4
Chemicals and chemical products	m9	0	0	0	–	47
Rubber and plastics	m10	0	0	0	–	31
Other nonmetallic minerals	m11	0	0	1	–	47
Basic metals and fabricated metal	m12	0	36	(1)	–	79
Machinery, nec	m13	0	113	(2)	–	146
Electrical and optical equipment	m14	0	85	1	–	96
Transport equipment	m15	0	22	1	–	55
Manufacturing, nec; recycling	m16	0	41	(1)	–	331
Electricity, gas, and water supply	m17	0	4	0	–	9
Construction	m18	0	86	0	–	121
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	–	8
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	1
Hotels and restaurants	m22	0	0	0	–	0
Inland transport	m23	0	12	(0)	–	84
Water transport	m24	0	0	0	–	2
Air transport	m25	0	1	0	–	4
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	1
Post and telecommunications	m27	0	0	0	–	11
Financial intermediation	m28	0	0	0	–	9
Real estate activities	m29	0	0	0	–	1
Renting of M&Eq and other business activities	m30	0	4	0	–	25
Public administration and defense; compulsory social security	m31	1	0	0	–	1
Education	m32	64	0	0	–	73
Health and social work	m33	14	0	0	–	17
Other community, social, and personal services	m34	0	0	0	–	8
Private households with employed persons	m35	0	0	0	–	0
<b>Total intermediate consumption</b>	<b>r60</b>	<b>436</b>	<b>1,311</b>	<b>(5)</b>	<b>736</b>	<b>5,385</b>
Taxes less subsidies on products	r99	–	19	(0)	–	84
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	2,252
International transport margins		–	–	–	–	–
<b>Output at basic prices</b>	<b>r69</b>	<b>436</b>	<b>1,330</b>	<b>(6)</b>	<b>736</b>	<b>7,721</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 3: INPUT-OUTPUT TABLES FOR 2010 AND 2017—INDIA

A3



**Table A3.1: India Input–Output Table, 2010** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	47,026	1	65,481	11,165	2,206	4,590	1,765
Mining and quarrying	c2	–	84	29	120	4	21	91
Food, beverages, and tobacco	c3	2,811	30	27,489	614	44	26	232
Textiles and textile products	c4	1,048	68	500	28,606	335	49	311
Leather, leather products, and footwear	c5	10	7	49	349	2,559	27	24
Wood and products of wood and cork	c6	44	71	787	337	17	197	403
Pulp, paper, paper products, printing, and publishing	c7	70	35	1,667	652	22	181	6,396
Coke, refined petroleum, and nuclear fuel	c8	2,367	881	1,188	1,393	79	72	444
Chemicals and chemical products	c9	6,153	796	1,606	5,459	314	311	1,454
Rubber and plastics	c10	320	167	821	1,399	108	121	394
Other nonmetallic minerals	c11	52	87	187	56	13	10	47
Basic metals and fabricated metal	c12	151	601	273	455	31	115	197
Machinery, nec	c13	309	979	319	916	32	33	73
Electrical and optical equipment	c14	119	91	182	232	17	23	121
Transport equipment	c15	424	311	617	435	53	46	67
Manufacturing, nec; recycling	c16	274	132	305	486	258	81	157
Electricity, gas, and water supply	c17	2,716	974	2,907	3,001	107	88	641
Construction	c18	1,971	999	965	2,047	27	46	516
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	657	29	1,224	634	76	76	90
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	5,103	222	9,507	4,928	590	591	699
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	8,332	363	15,524	8,047	964	965	1,142
Hotels and restaurants	c22	132	122	–	12	–	–	–
Inland transport	c23	4,001	1,267	6,571	8,066	765	779	1,819
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	3	3	9	7	2	4	3
Other supporting and auxiliary transport activities; activities of travel agencies	c26	267	95	409	590	68	51	117
Post and telecommunications	c27	25	45	422	409	18	31	64
Financial intermediation	c28	2,531	687	5,671	3,476	292	363	708
Real estate activities	c29	1	–	–	–	–	–	–
Renting of M&Eq and other business activities	c30	42	264	443	586	53	39	143
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–	–
Education	c32	3	267	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	61	409	546	4,390	212	19	144
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A3.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
10	1,482	1,998	80	40	51	27	28	829	6	7,371	0	1
29,748	724	10	1,239	7,308	47	31	18	583	1,550	1,257	-	-
134	4,062	482	531	622	35	60	56	97	60	213	1	6
58	919	1,076	287	297	158	339	245	555	131	1,181	10	78
5	127	359	55	46	24	128	352	167	5	13	0	2
27	626	121	143	176	137	148	128	1,197	30	4,077	11	86
32	641	252	208	176	80	261	100	281	152	665	103	801
7,343	5,264	689	3,440	5,576	201	527	306	247	3,755	7,309	130	1,013
2,302	31,910	9,233	1,377	2,112	312	1,373	987	1,294	323	2,665	3	23
139	2,291	6,224	1,473	808	463	810	1,448	1,090	37	384	7	52
62	257	74	3,501	305	118	506	336	157	32	32,420	1	6
60	494	433	698	58,258	14,561	11,348	16,147	2,634	454	38,489	109	849
60	428	96	116	2,094	8,522	1,828	6,702	589	515	1,234	6	49
22	271	128	100	1,873	2,333	12,753	4,510	1,557	1,631	3,084	4	28
59	278	490	207	1,414	1,185	686	14,375	307	384	1,696	8	59
76	908	347	158	713	697	919	1,195	10,015	384	1,868	26	201
1,148	3,064	824	1,738	5,021	634	1,612	1,814	697	9,809	4,017	83	647
102	817	147	2,196	589	1,134	999	491	505	1,392	43,804	60	468
116	358	121	187	1,059	123	119	268	118	143	1,244	80	-
898	2,783	940	1,453	8,228	952	926	2,079	916	1,110	9,665	-	622
1,466	4,544	1,534	2,372	13,435	1,555	1,513	3,394	1,496	1,813	15,782	-	-
-	-	-	-	-	-	-	-	-	332	115	161	1,248
2,190	5,310	1,409	3,221	9,592	1,814	2,218	2,826	6,931	2,199	14,124	525	4,078
-	-	-	-	-	-	0	-	-	-	-	-	0
35	31	6	15	77	17	18	21	20	2	8	0	1
79	285	102	131	415	92	81	146	237	67	947	52	401
156	275	55	118	482	158	2,947	359	285	318	226	29	226
2,198	3,134	624	831	4,909	2,061	2,410	5,034	3,719	2,955	8,688	528	4,103
-	-	-	-	-	-	-	-	-	-	488	-	-
144	274	66	67	639	726	484	488	451	36	734	29	224
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
80	937	799	187	1,721	325	1,308	178	803	152	153	2	12
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A3.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	1	15,142	3,257	5	0	0
Mining and quarrying	c2	–	4	6	0	–	–
Food, beverages, and tobacco	c3	9	12,310	157	7	4	3
Textiles and textile products	c4	127	681	2,111	16	15	30
Leather, leather products, and footwear	c5	3	28	1,110	3	24	12
Wood and products of wood and cork	c6	141	40	127	2	13	13
Pulp, paper, paper products, printing, and publishing	c7	1,308	333	1,080	7	12	330
Coke, refined petroleum, and nuclear fuel	c8	1,654	376	33,876	61	253	118
Chemicals and chemical products	c9	38	177	1,135	115	124	45
Rubber and plastics	c10	85	36	4,475	23	177	84
Other nonmetallic minerals	c11	10	33	301	12	4	2
Basic metals and fabricated metal	c12	1,386	113	1,591	21	21	14
Machinery, nec	c13	81	253	1,645	8	3	16
Electrical and optical equipment	c14	46	290	1,170	22	21	57
Transport equipment	c15	96	157	5,057	158	46	70
Manufacturing, nec; recycling	c16	328	431	1,094	20	152	15
Electricity, gas, and water supply	c17	1,057	764	2,669	45	43	379
Construction	c18	764	1,354	2,489	28	113	201
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	278	576	5	7	5
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	2,157	4,475	41	54	37
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,016	3,522	7,307	68	88	60
Hotels and restaurants	c22	2,037	2,448	13,917	34	42	862
Inland transport	c23	6,659	1,961	4,268	121	259	1,102
Water transport	c24	–	–	0	–	–	–
Air transport	c25	2	3	4	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	655	159	214	1	3	30
Post and telecommunications	c27	369	132	1,532	29	73	306
Financial intermediation	c28	6,700	1,379	2,717	46	53	392
Real estate activities	c29	–	–	–	5	–	–
Renting of M&Eq and other business activities	c30	366	82	1,111	14	51	116
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	–	–	19	5	45	–
Health and social work	c33	–	–	294	–	–	–
Other community, social, and personal services	c34	20	182	343	2	3	121
Private households with employed persons	c35	–	–	–	–	–	–

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Table A3.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	1	2	39	–	91	268	24	–	197,427	–
–	–	0	0	–	–	–	0	–	45	–
2	56	1	13	–	7	117	9	–	105,082	–
16	89	3	138	–	69	341	46	–	55,919	–
2	5	0	0	–	1	2	0	–	4,012	–
4	16	1	42	–	9	30	65	–	2,872	–
119	769	6	226	–	155	134	57	–	6,679	–
217	382	1	13	–	85	334	19	–	30,661	–
8	16	3	60	–	164	4,090	89	–	15,166	–
30	46	1	15	–	11	177	12	–	6,777	–
2	6	2	37	–	2	27	21	–	2,336	–
110	189	9	214	–	14	70	120	–	5,240	–
45	56	1	20	–	8	23	10	–	2,784	–
1,883	393	11	1,363	–	8	272	450	–	5,912	–
65	398	10	630	–	28	57	136	–	16,009	–
140	227	17	623	–	126	396	886	–	11,116	–
359	1,312	4	2,461	–	51	82	168	–	6,887	–
207	1,153	5,411	2,497	–	774	385	249	–	1,117	–
8	13	0	18	–	5	24	8	–	4,525	–
61	103	2	142	–	41	185	64	–	35,155	–
99	169	3	232	–	68	302	104	–	57,405	–
50	2,188	342	2,896	–	787	2,514	174	–	39,792	–
241	2,092	5	741	–	1,935	675	374	–	87,577	–
–	–	–	0	–	–	–	–	–	–	–
1	18	0	17	–	2	2	0	–	385	–
4	18	0	14	–	6	43	6	–	2,564	–
122	2,105	51	783	–	148	243	367	–	5,721	–
61	4,546	1,057	2,518	–	1,446	399	1,101	–	27,263	–
5	–	878	969	–	–	–	–	–	98,200	–
37	174	683	3,212	–	38	58	262	–	7,283	–
–	–	–	–	–	–	–	–	–	–	–
132	–	–	1,517	–	273	97	–	–	53,555	–
26	180	–	1,239	–	–	–	–	–	34,079	–
47	242	158	460	–	26	89	1,753	–	16,675	–
–	–	–	–	–	–	–	–	–	–	–

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Table A3.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	2,165	516	(156)	10,053	372,988
Mining and quarrying	c2	36	-	(478)	14,852	57,330
Food, beverages, and tobacco	c3	5,804	118	5,065	8,115	174,482
Textiles and textile products	c4	1,804	1,269	4,918	20,292	124,136
Leather, leather products, and footwear	c5	19	463	232	2,462	12,686
Wood and products of wood and cork	c6	43	842	1,128	1,002	15,154
Pulp, paper, paper products, printing, and publishing	c7	2,306	206	1,215	932	28,646
Coke, refined petroleum, and nuclear fuel	c8	1,699	21	9,300	27,678	148,969
Chemicals and chemical products	c9	1,032	937	7,964	18,049	119,219
Rubber and plastics	c10	162	6,805	2,421	4,046	43,939
Other nonmetallic minerals	c11	18	1,712	2,394	2,005	47,152
Basic metals and fabricated metal	c12	296	35,155	13,363	22,582	226,864
Machinery, nec	c13	167	26,116	4,758	6,222	67,113
Electrical and optical equipment	c14	1,141	24,650	957	8,205	75,932
Transport equipment	c15	2,100	38,958	(1,324)	16,052	101,803
Manufacturing, nec; recycling	c16	649	11,591	9,357	12,170	68,539
Electricity, gas, and water supply	c17	4,426	-	-	3	62,254
Construction	c18	2,777	283,936	-	1,187	363,915
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	139	596	-	957	13,885
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,082	4,633	-	7,437	107,880
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,766	7,566	-	12,144	176,161
Hotels and restaurants	c22	908	-	-	0	71,113
Inland transport	c23	4,138	8,198	-	11,188	211,238
Water transport	c24	-	-	-	3,795	3,795
Air transport	c25	54	17	-	3,647	4,436
Other supporting and auxiliary transport activities; activities of travel agencies	c26	170	945	-	2,981	12,442
Post and telecommunications	c27	1,550	-	-	2,903	23,083
Financial intermediation	c28	2,570	-	-	1,652	108,819
Real estate activities	c29	-	-	-	13	100,558
Renting of M&Eq and other business activities	c30	2,848	3,414	-	81,864	107,545
Public administration and defense; compulsory social security	c31	129,542	-	-	49	129,590
Education	c32	13,641	-	-	0	69,554
Health and social work	c33	2,918	-	-	0	38,736
Other community, social, and personal services	c34	4,734	-	-	10,789	48,079
Private households with employed persons	c35	-	-	-	-	-

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Table A3.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	243	2	355	93	17	325	130
Mining and quarrying	m2	9	157	59	246	3	40	186
Food, beverages, and tobacco	m3	250	4	3,075	55	4	2	28
Textiles and textile products	m4	64	5	25	1,488	82	3	21
Leather, leather products, and footwear	m5	2	0	1	61	288	1	1
Wood and products of wood and cork	m6	2	3	28	16	1	43	21
Pulp, paper, paper products, printing, and publishing	m7	13	10	327	150	7	34	1,191
Coke, refined petroleum, and nuclear fuel	m8	242	134	102	154	8	11	48
Chemicals and chemical products	m9	2,139	269	423	1,702	132	94	503
Rubber and plastics	m10	11	16	138	117	28	16	36
Other nonmetallic minerals	m11	5	5	23	16	1	2	4
Basic metals and fabricated metal	m12	14	38	27	52	5	16	29
Machinery, nec	m13	86	302	78	286	9	9	24
Electrical and optical equipment	m14	15	16	25	60	3	4	47
Transport equipment	m15	83	68	18	38	2	2	5
Manufacturing, nec; recycling	m16	26	38	20	258	6	43	62
Electricity, gas, and water supply	m17	2	2	5	9	0	0	1
Construction	m18	9	6	10	18	1	1	3
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	3	2	3	6	0	0	3
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	72	19	88	116	12	6	44
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	9	3	28	21	2	1	7
Hotels and restaurants	m22	28	2	10	1	0	0	0
Inland transport	m23	18	6	36	32	4	2	9
Water transport	m24	94	14	210	40	4	28	22
Air transport	m25	27	17	62	64	4	26	21
Other supporting and auxiliary transport activities; activities of travel agencies	m26	43	16	70	97	8	10	19
Post and telecommunications	m27	3	6	37	43	2	2	4
Financial intermediation	m28	16	5	62	89	5	3	12
Real estate activities	m29	0	0	1	1	0	0	0
Renting of M&Eq and other business activities	m30	39	162	623	908	75	21	77
Public administration and defense; compulsory social security	m31	4	20	32	48	4	5	5
Education	m32	3	151	23	33	4	1	1
Health and social work	m33	0	1	4	6	0	0	1
Other community, social, and personal services	m34	1	3	7	11	1	0	1
Private households with employed persons	m35	0	0	0	0	0	0	0
Total intermediate consumption	r60	90,602	11,590	151,732	95,204	9,987	9,708	20,828
Taxes less subsidies on products	r99	(6,596)	827	(1,563)	22	2	143	1,023
Cif/ fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	288,693	44,816	24,061	28,446	2,681	5,229	6,574
International transport margins		289	97	253	464	16	74	221
Output at basic prices	r69	372,988	57,330	174,482	124,136	12,686	15,154	28,646

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Table A3.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
<b>Imports</b>								
Agriculture, hunting, forestry, and fishing	m1	7	40	84	3	4	3	1
Mining and quarrying	m2	61,314	1,520	25	2,450	15,131	118	77
Food, beverages, and tobacco	m3	38	465	45	61	78	10	10
Textiles and textile products	m4	13	72	57	17	41	16	28
Leather, leather products, and footwear	m5	1	9	6	1	2	1	5
Wood and products of wood and cork	m6	9	31	5	6	18	9	11
Pulp, paper, paper products, printing, and publishing	m7	16	134	32	37	56	47	70
Coke, refined petroleum, and nuclear fuel	m8	751	710	123	276	520	45	92
Chemicals and chemical products	m9	925	11,167	2,814	418	751	124	475
Rubber and plastics	m10	48	140	817	134	93	81	152
Other nonmetallic minerals	m11	230	31	9	237	82	13	55
Basic metals and fabricated metal	m12	486	167	63	122	21,895	4,491	3,068
Machinery, nec	m13	38	144	27	32	583	2,624	393
Electrical and optical equipment	m14	16	74	20	11	359	453	3,596
Transport equipment	m15	8	28	11	6	102	143	73
Manufacturing, nec; recycling	m16	17	181	23	44	184	123	226
Electricity, gas, and water supply	m17	226	12	2	10	84	16	13
Construction	m18	54	8	2	13	29	22	13
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	20	10	4	2	17	9	9
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1,831	228	71	90	964	188	187
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	95	30	9	7	76	23	23
Hotels and restaurants	m22	0	1	0	2	1	2	0
Inland transport	m23	1,715	62	13	72	532	31	29
Water transport	m24	72	82	10	71	180	10	17
Air transport	m25	216	188	40	94	467	102	116
Other supporting and auxiliary transport activities; activities of travel agencies	m26	37	54	18	27	82	18	19
Post and telecommunications	m27	10	20	4	8	45	36	176
Financial intermediation	m28	25	49	8	13	59	49	61
Real estate activities	m29	1	0	0	0	1	1	1
Renting of M&Eq and other business activities	m30	121	288	52	89	819	1,143	699
Public administration and defense; compulsory social security	m31	14	14	3	5	40	56	35
Education	m32	3	9	2	3	28	44	26
Health and social work	m33	0	2	0	1	5	7	6
Other community, social, and personal services	m34	15	6	1	3	19	13	11
Private households with employed persons	m35	0	0	0	0	0	0	0
<b>Total intermediate consumption</b>	<b>r60</b>	<b>117,119</b>	<b>88,473</b>	<b>33,038</b>	<b>30,492</b>	<b>171,331</b>	<b>48,584</b>	<b>56,155</b>
Taxes less subsidies on products	r99	5,550	2,791	1,838	1,895	11,788	3,441	3,633
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	18,092	26,522	8,682	14,317	39,450	14,359	15,428
International transport margins		8,208	1,433	381	448	4,295	728	715
<b>Output at basic prices</b>	<b>r69</b>	<b>148,969</b>	<b>119,219</b>	<b>43,939</b>	<b>47,152</b>	<b>226,864</b>	<b>67,113</b>	<b>75,932</b>

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Table A3.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
2	67	1	511	0	0	0	84	17	0	0	1
60	1,239	3,178	2,629	0	3	5	10	59	0	0	0
9	36	5	25	0	2	4	1,438	18	1	0	1
29	115	9	86	1	6	10	43	164	1	1	2
9	9	1	4	0	0	0	3	18	0	0	0
9	135	4	172	1	5	8	4	10	0	0	1
28	98	27	197	19	145	242	64	266	3	5	53
56	59	300	607	10	69	124	29	2,459	60	183	26
316	505	105	940	2	14	24	13	190	29	20	19
169	157	6	37	1	7	13	3	415	5	22	22
15	36	14	1,021	0	2	3	2	15	0	0	1
3,709	765	45	8,814	8	60	98	16	126	2	1	2
2,003	318	128	246	2	17	28	77	523	3	1	6
917	759	325	536	2	17	28	97	278	17	11	27
5,373	294	91	204	3	20	34	15	2,110	108	41	24
159	8,920	251	968	21	135	250	315	561	1	3	3
11	15	14	47	1	5	8	1	29	0	0	1
13	14	10	228	1	7	12	7	43	1	0	2
23	8	2	12	0	1	1	1	10	0	0	0
231	143	112	343	1	9	11	35	88	20	17	7
41	64	9	45	0	3	4	14	25	1	1	1
1	1	1	0	0	0	0	5	2	2	4	4
37	40	91	126	1	9	18	12	19	1	2	1
14	81	61	218	1	38	13	77	220	25	8	6
132	128	16	76	1	24	19	20	27	9	12	7
27	38	14	149	8	60	98	26	43	2	7	11
32	34	21	93	3	26	42	8	160	6	6	17
88	45	32	145	5	38	59	22	81	3	2	2
1	1	0	4	0	0	1	0	3	0	0	0
506	696	123	2,988	73	551	914	72	3,175	87	34	149
25	52	8	175	4	30	50	4	175	1	2	6
19	27	5	127	3	23	37	2	145	2	11	4
3	30	1	19	0	3	5	1	20	16	2	5
12	21	6	35	1	12	23	3	49	1	2	9
0	0	0	0	0	0	1	0	0	0	1	0
<b>78,106</b>	<b>52,726</b>	<b>34,791</b>	<b>225,750</b>	<b>2,140</b>	<b>16,624</b>	<b>27,146</b>	<b>47,350</b>	<b>111,669</b>	<b>1,329</b>	<b>2,101</b>	<b>4,842</b>
4,276	1,982	776	11,476	85	661	1,080	150	12,701	24	159	138
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
18,342	12,433	26,155	125,029	11,655	90,549	147,860	23,488	86,213	2,422	2,150	7,450
1,078	1,398	533	1,661	6	46	74	126	655	20	25	12
<b>101,803</b>	<b>68,539</b>	<b>62,254</b>	<b>363,915</b>	<b>13,885</b>	<b>107,880</b>	<b>176,161</b>	<b>71,113</b>	<b>211,238</b>	<b>3,795</b>	<b>4,436</b>	<b>12,442</b>

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Table A3.1 Import Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	11	0	20	0
Mining and quarrying	m2	1	2	0	13	0
Food, beverages, and tobacco	m3	1	7	0	17	0
Textiles and textile products	m4	1	7	1	16	0
Leather, leather products, and footwear	m5	0	0	0	1	0
Wood and products of wood and cork	m6	1	2	1	8	0
Pulp, paper, paper products, printing, and publishing	m7	23	137	3	188	1
Coke, refined petroleum, and nuclear fuel	m8	17	29	4	27	0
Chemicals and chemical products	m9	3	8	2	121	0
Rubber and plastics	m10	4	6	1	11	0
Other nonmetallic minerals	m11	0	1	2	12	0
Basic metals and fabricated metal	m12	5	17	1	57	0
Machinery, nec	m13	15	22	1	63	0
Electrical and optical equipment	m14	771	162	16	675	0
Transport equipment	m15	18	139	6	464	0
Manufacturing, nec; recycling	m16	37	148	8	496	0
Electricity, gas, and water supply	m17	0	2	0	40	0
Construction	m18	1	7	7	58	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	1	1	0	6	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	22	11	1	43	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	3	3	0	16	0
Hotels and restaurants	m22	0	3	0	3	0
Inland transport	m23	2	2	1	7	0
Water transport	m24	3	7	0	3	1
Air transport	m25	8	112	1	102	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	2	8	2	8	0
Post and telecommunications	m27	10	118	3	173	1
Financial intermediation	m28	1	73	3	36	0
Real estate activities	m29	0	0	0	4	0
Renting of M&Eq and other business activities	m30	31	267	74	5,331	1
Public administration and defense; compulsory social security	m31	7	14	0	330	0
Education	m32	78	10	0	1,087	41
Health and social work	m33	1	3	0	37	0
Other community, social, and personal services	m34	2	4	2	51	0
Private households with employed persons	m35	0	0	0	1	–
Total intermediate consumption	r60	5,170	18,307	8,804	32,674	48
Taxes less subsidies on products	r99	320	672	224	1,005	–
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	17,522	89,780	91,527	73,723	129,542
International transport margins		71	60	3	143	–
Output at basic prices	r69	23,083	108,819	100,558	107,545	129,590

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Table A3.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
1	2	0	–	2,124	–	26	7	15	–	4,197
1	6	5	–	135	–	72	69	45	–	88,869
1	12	4	–	648	–	37	36	56	–	6,486
5	25	9	–	617	–	24	66	69	–	3,238
0	2	1	–	119	–	1	4	5	–	560
1	4	10	–	107	–	6	92	93	–	876
28	25	29	–	97	–	26	49	37	–	3,912
16	66	6	–	969	–	64	49	16	–	8,461
60	1,491	48	–	736	–	365	146	91	–	27,183
1	8	6	–	519	–	11	128	60	–	3,438
1	4	4	–	86	–	4	93	37	–	2,065
5	19	36	–	419	–	25	1,461	539	–	46,703
5	13	21	–	208	–	17	10,750	2,192	–	21,293
7	122	213	–	2,152	–	687	11,298	1,715	–	25,533
13	26	130	–	715	–	62	11,394	886	–	22,755
97	267	719	–	7,513	–	405	7,099	7,972	–	37,599
1	1	5	–	13	–	3	23	7	–	612
4	2	7	–	97	–	228	352	9	–	1,296
0	2	1	–	60	–	16	66	22	–	324
2	32	17	–	270	–	55	934	295	–	6,614
1	5	7	–	123	–	21	160	81	–	961
1	0	1	–	109	–	12	1	1	–	200
4	4	6	–	424	–	35	107	18	–	3,523
3	3	2	–	1,366	–	54	92	7	–	3,156
15	13	5	–	2,401	–	328	125	1	–	5,028
2	8	2	–	440	–	25	21	4	–	1,522
10	12	35	–	241	0	59	16	3	–	1,526
11	3	11	–	407	–	30	12	7	–	1,572
0	0	0	–	4	–	2	3	0	–	30
101	14	554	–	798	–	201	167	39	–	22,061
18	5	31	–	159	–	40	18	16	–	1,455
156	57	23	–	447	–	117	6	2	–	2,757
1	1	5	–	35	–	4	30	24	–	280
11	5	20	–	5,219	–	1,506	18	14	–	7,121
0	1	1	–	4	–	1	0	0	–	14
<b>6,959</b>	<b>13,694</b>	<b>8,550</b>	–	<b>976,000</b>	<b>0</b>	<b>197,269</b>	<b>503,551</b>	<b>75,491</b>	<b>315,328</b>	<b>3,701,260</b>
158	645	632	–	16,221	–	4,168	21,293	–	–	103,640
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
62,414	24,198	38,773	–	–	–	–	–	–	–	1,618,577
23	199	124	–	1,637	–	163	3,532	1,228	–	30,440
<b>69,554</b>	<b>38,736</b>	<b>48,079</b>	–	<b>993,858</b>	<b>0</b>	<b>201,599</b>	<b>528,377</b>	<b>76,719</b>	<b>315,328</b>	<b>5,453,918</b>

\$ = United States dollar; (–) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A3.2: India Input–Output Table, 2017** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	57,889	1	78,478	14,386	1,810	7,531	1,839
Mining and quarrying	c2	–	266	49	205	6	56	154
Food, beverages, and tobacco	c3	3,294	62	30,972	685	65	44	266
Textiles and textile products	c4	1,286	152	581	35,023	299	132	416
Leather, leather products, and footwear	c5	45	26	95	786	5,187	22	28
Wood and products of wood and cork	c6	92	248	1,418	625	55	574	760
Pulp, paper, paper products, printing, and publishing	c7	76	82	2,108	799	65	369	8,546
Coke, refined petroleum, and nuclear fuel	c8	2,663	1,859	1,325	1,533	113	128	505
Chemicals and chemical products	c9	9,303	2,208	2,338	7,823	794	731	2,224
Rubber and plastics	c10	373	381	984	1,609	243	236	505
Other nonmetallic minerals	c11	75	262	292	89	18	24	77
Basic metals and fabricated metal	c12	112	960	206	352	52	157	176
Machinery, nec	c13	315	1,927	310	936	57	53	77
Electrical and optical equipment	c14	116	198	171	225	44	38	156
Transport equipment	c15	465	807	732	532	89	91	87
Manufacturing, nec; recycling	c16	486	517	516	1,271	217	264	330
Electricity, gas, and water supply	c17	4,393	2,873	4,564	4,798	163	224	1,040
Construction	c18	1,553	1,453	744	1,569	57	58	426
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1,176	94	2,128	1,087	166	213	162
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	9,136	729	16,533	8,445	1,288	1,657	1,261
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	14,917	1,191	26,994	13,788	2,104	2,706	2,058
Hotels and restaurants	c22	138	324	–	17	–	–	–
Inland transport	c23	5,848	3,472	9,544	11,381	1,630	1,824	2,759
Water transport	c24	34	10	72	5	1	17	6
Air transport	c25	3	5	8	8	1	6	3
Other supporting and auxiliary transport activities; activities of travel agencies	c26	402	262	599	868	111	120	179
Post and telecommunications	c27	35	129	641	598	60	75	100
Financial intermediation	c28	3,459	1,719	7,542	4,623	503	778	987
Real estate activities	c29	1	–	–	–	–	–	–
Renting of M&Eq and other business activities	c30	137	1,214	2,614	3,299	362	232	962
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–	–
Education	c32	5	988	–	–	–	–	–
Health and social work	c33	–	–	–	–	–	–	–
Other community, social, and personal services	c34	79	1,272	900	7,020	682	50	255
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A3.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
10	2,045	2,643	92	30	69	35	45	1,585	7	6,199	0	1
45,501	1,405	18	2,048	8,754	91	58	46	1,797	2,929	1,705	-	-
134	5,292	594	587	493	44	72	88	209	72	180	1	7
59	1,349	1,698	391	267	223	484	788	1,501	172	1,143	15	118
11	176	317	34	34	45	175	336	200	22	75	1	8
47	1,373	288	266	251	305	324	382	5,246	85	5,960	27	207
37	935	348	259	160	118	367	188	664	219	663	164	1,272
7,541	6,663	801	3,817	4,492	261	650	508	500	4,769	6,654	182	1,416
3,100	54,514	15,077	2,011	2,243	541	2,250	2,180	3,523	558	3,181	6	45
149	3,196	8,380	1,769	711	666	1,100	2,607	2,459	50	365	10	79
87	453	124	5,512	354	229	912	621	490	58	41,904	2	13
46	496	398	592	39,725	15,711	11,573	21,606	4,320	433	28,018	115	893
55	513	105	115	1,590	10,384	2,123	10,349	1,130	606	1,017	8	63
19	340	145	102	1,561	3,140	16,999	7,695	3,425	2,088	2,786	5	39
65	408	699	258	1,428	2,038	1,103	25,999	747	577	1,861	13	99
125	1,986	716	301	1,034	1,728	2,214	3,544	40,483	930	3,097	69	539
1,652	5,593	1,437	2,701	5,665	1,163	2,833	4,209	2,021	17,398	4,944	163	1,265
72	733	126	1,675	332	1,020	862	567	718	1,282	27,420	58	449
184	726	233	322	1,323	249	231	695	378	281	1,755	173	-
1,429	5,641	1,813	2,498	10,283	1,932	1,799	5,402	2,939	2,183	13,640	-	1,346
2,333	9,211	2,959	4,079	16,789	3,154	2,937	8,820	4,798	3,564	22,270	-	-
-	-	-	-	-	-	-	-	-	542	131	280	2,178
2,910	9,004	2,270	4,626	10,021	3,074	3,590	6,127	18,571	3,811	16,646	948	7,363
18	28	2	22	38	1	2	2	45	23	58	0	3
29	33	6	14	50	18	18	29	33	2	6	0	1
106	488	165	190	438	158	133	319	641	111	1,127	94	731
216	491	93	177	526	280	5,045	813	799	548	278	55	426
2,670	4,913	921	1,096	4,715	3,214	3,601	9,969	9,122	4,471	9,397	874	6,786
-	-	-	-	-	-	-	-	-	-	646	-	-
852	1,978	442	420	2,876	4,692	2,890	3,300	4,104	269	3,455	201	1,559
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	0	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
121	1,807	1,462	305	2,067	624	2,407	448	2,444	285	205	3	25
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A3.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	1	22,299	4,405	5	0	0
Mining and quarrying	c2	–	8	11	0	–	–
Food, beverages, and tobacco	c3	12	17,085	193	6	5	3
Textiles and textile products	c4	192	1,018	3,335	15	35	38
Leather, leather products, and footwear	c5	12	93	1,312	6	18	14
Wood and products of wood and cork	c6	339	123	343	4	38	23
Pulp, paper, paper products, printing, and publishing	c7	2,077	522	1,555	7	17	409
Coke, refined petroleum, and nuclear fuel	c8	2,312	519	43,163	57	312	128
Chemicals and chemical products	c9	73	311	1,980	142	201	65
Rubber and plastics	c10	129	53	6,160	22	236	99
Other nonmetallic minerals	c11	21	64	456	9	6	2
Basic metals and fabricated metal	c12	1,459	114	1,468	12	18	11
Machinery, nec	c13	102	319	1,927	6	3	16
Electrical and optical equipment	c14	63	423	1,473	21	26	69
Transport equipment	c15	161	236	6,441	84	46	87
Manufacturing, nec; recycling	c16	881	1,130	2,555	35	364	29
Electricity, gas, and water supply	c17	2,065	1,466	4,742	52	72	577
Construction	c18	732	1,288	2,176	18	96	150
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	595	1,135	8	13	8
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	4,624	8,821	60	103	62
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2,197	7,549	14,402	98	168	101
Hotels and restaurants	c22	3,557	4,237	22,153	40	65	1,174
Inland transport	c23	12,024	3,511	7,026	147	413	1,552
Water transport	c24	5	34	92	0	1	0
Air transport	c25	2	3	4	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	1,194	288	355	2	4	42
Post and telecommunications	c27	695	247	2,634	37	121	449
Financial intermediation	c28	11,081	2,264	4,142	52	78	511
Real estate activities	c29	–	–	–	6	–	–
Renting of M&Eq and other business activities	c30	2,546	544	6,065	50	314	428
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–
Education	c32	–	–	43	9	97	–
Health and social work	c33	–	–	533	–	–	–
Other community, social, and personal services	c34	41	371	641	2	5	194
Private households with employed persons	c35	–	–	–	–	–	–

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Table A3.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
0	1	4	48	–	148	398	38	–	259,480	–
–	–	0	1	–	–	–	1	–	84	–
2	65	1	13	–	10	160	14	–	136,975	–
16	109	6	143	–	114	492	72	–	77,105	–
2	12	0	11	–	7	50	4	–	8,378	–
8	43	6	111	–	35	96	229	–	5,944	–
121	989	12	253	–	271	213	95	–	9,522	–
195	431	1	14	–	129	436	27	–	40,781	–
9	24	7	91	–	329	7,483	168	–	23,858	–
30	56	3	17	–	18	258	19	–	9,154	–
3	9	3	40	–	5	50	36	–	4,124	–
78	160	12	170	–	17	74	131	–	4,724	–
38	58	1	19	–	11	28	14	–	3,053	–
1,899	486	23	1,616	–	12	424	729	–	8,325	–
70	515	13	558	–	49	87	121	–	23,288	–
249	491	60	1,338	–	374	1,042	2,507	–	20,458	–
452	2,037	11	2,877	–	109	159	341	–	11,585	–
128	871	6,772	1,593	–	817	370	248	–	1,032	–
11	23	1	28	–	13	52	18	–	8,696	–
85	180	5	220	–	99	401	143	–	67,567	–
138	295	8	359	–	161	655	234	–	110,320	–
57	3,067	780	3,955	–	1,512	4,401	315	–	61,762	–
280	3,038	12	906	–	3,845	1,222	700	–	140,577	–
0	1	0	0	–	0	0	1	–	507	–
1	16	0	13	–	3	2	0	–	4,474	–
4	26	1	19	–	11	78	11	–	4,138	–
149	3,180	126	1,120	–	307	460	718	–	9,540	–
65	5,966	2,271	2,693	–	2,627	658	1,881	–	40,201	–
6	–	2,324	1,754	–	–	–	–	–	177,047	–
117	918	2,024	14,145	–	276	220	1,386	–	25,465	–
–	–	–	–	–	–	–	–	–	–	–
208	–	–	2,084	–	733	237	–	–	102,066	–
33	300	–	1,386	–	–	–	–	–	60,134	–
62	391	423	655	–	59	182	3,729	–	37,500	–
–	–	–	–	–	–	–	–	–	–	–

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Table A3.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	2,544	932	(171)	13,567	478,390
Mining and quarrying	c2	59	–	(621)	9,804	74,434
Food, beverages, and tobacco	c3	6,753	205	8,247	16,449	229,360
Textiles and textile products	c4	2,181	3,017	8,639	31,578	174,203
Leather, leather products, and footwear	c5	139	357	430	4,454	22,922
Wood and products of wood and cork	c6	88	3,357	3,027	1,703	34,049
Pulp, paper, paper products, printing, and publishing	c7	2,957	404	2,041	1,340	40,242
Coke, refined petroleum, and nuclear fuel	c8	2,013	34	16,565	48,926	202,427
Chemicals and chemical products	c9	1,653	2,185	13,299	29,304	195,831
Rubber and plastics	c10	200	12,637	3,485	6,588	65,036
Other nonmetallic minerals	c11	28	4,152	4,002	4,032	68,635
Basic metals and fabricated metal	c12	248	47,093	13,587	22,228	217,545
Machinery, nec	c13	166	40,883	5,737	10,412	94,528
Electrical and optical equipment	c14	1,655	38,519	739	10,974	106,769
Transport equipment	c15	2,754	77,158	(1,465)	33,876	182,174
Manufacturing, nec; recycling	c16	1,127	38,338	25,587	18,694	175,627
Electricity, gas, and water supply	c17	6,120	–	–	130	101,893
Construction	c18	2,290	331,797	–	570	392,121
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	239	1,571	–	792	24,780
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,855	12,206	–	6,128	192,509
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	3,029	19,930	–	10,040	314,354
Hotels and restaurants	c22	1,258	–	–	227	112,171
Inland transport	c23	5,928	18,036	–	7,519	332,156
Water transport	c24	20	45	–	2,620	3,713
Air transport	c25	560	346	–	3,578	9,276
Other supporting and auxiliary transport activities; activities of travel agencies	c26	244	1,912	–	1,831	17,401
Post and telecommunications	c27	2,306	–	–	2,633	36,107
Financial intermediation	c28	3,378	–	–	1,029	160,255
Real estate activities	c29	–	–	–	0	181,785
Renting of M&Eq and other business activities	c30	7,032	15,980	–	71,270	184,641
Public administration and defense; compulsory social security	c31	192,014	–	–	11	192,026
Education	c32	23,200	–	–	44	129,715
Health and social work	c33	4,595	–	–	26	67,006
Other community, social, and personal services	c34	9,502	–	–	11,214	87,431
Private households with employed persons	c35	–	–	–	–	–

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Table A3.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	380	5	501	136	23	687	192
Mining and quarrying	m2	12	995	111	708	3	157	515
Food, beverages, and tobacco	m3	383	15	4,081	90	8	6	45
Textiles and textile products	m4	75	7	28	1,553	131	6	25
Leather, leather products, and footwear	m5	4	2	3	112	630	2	3
Wood and products of wood and cork	m6	3	8	47	24	2	62	32
Pulp, paper, paper products, printing, and publishing	m7	14	11	412	166	14	68	1,475
Coke, refined petroleum, and nuclear fuel	m8	256	185	116	165	16	17	60
Chemicals and chemical products	m9	2,793	665	502	2,167	225	188	687
Rubber and plastics	m10	12	31	176	117	50	19	49
Other nonmetallic minerals	m11	6	11	26	20	2	2	7
Basic metals and fabricated metal	m12	18	73	33	53	9	26	35
Machinery, nec	m13	90	435	76	273	14	13	24
Electrical and optical equipment	m14	22	30	27	48	9	6	62
Transport equipment	m15	87	121	13	25	6	2	5
Manufacturing, nec; recycling	m16	11	29	8	93	9	23	25
Electricity, gas, and water supply	m17	5	6	3	7	0	1	3
Construction	m18	9	16	6	16	1	2	6
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	5	3	3	8	1	1	4
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	96	48	110	154	23	12	50
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	13	6	31	23	5	2	9
Hotels and restaurants	m22	74	5	16	2	0	0	0
Inland transport	m23	17	19	40	33	5	5	16
Water transport	m24	62	12	139	39	3	25	16
Air transport	m25	27	20	61	59	4	35	20
Other supporting and auxiliary transport activities; activities of travel agencies	m26	23	14	39	45	6	7	10
Post and telecommunications	m27	2	5	19	19	2	2	2
Financial intermediation	m28	24	9	46	62	4	2	8
Real estate activities	m29	1	1	0	0	0	0	0
Renting of M&Eq and other business activities	m30	28	114	277	401	47	17	59
Public administration and defense; compulsory social security	m31	3	33	14	22	2	8	6
Education	m32	2	214	11	16	2	1	1
Health and social work	m33	1	2	3	4	0	0	0
Other community, social, and personal services	m34	5	10	9	11	1	1	2
Private households with employed persons	m35	0	0	0	0	0	0	0
Total intermediate consumption	r60	122,465	28,850	200,448	131,056	17,502	19,816	29,797
Taxes less subsidies on products	r99	(15,253)	1,685	(3,608)	48	6	483	2,395
Cif/ fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	371,178	43,899	32,520	43,099	5,414	13,750	8,050
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	478,390	74,434	229,360	174,203	22,922	34,049	40,242

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Table A3.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
<b>Imports</b>								
Agriculture, hunting, forestry, and fishing	m1	9	102	172	3	5	5	3
Mining and quarrying	m2	87,587	4,279	56	5,436	17,829	356	178
Food, beverages, and tobacco	m3	75	810	85	83	84	10	16
Textiles and textile products	m4	17	99	73	17	33	14	26
Leather, leather products, and footwear	m5	1	13	7	2	14	9	14
Wood and products of wood and cork	m6	21	58	8	10	20	13	20
Pulp, paper, paper products, printing, and publishing	m7	13	172	40	43	52	32	71
Coke, refined petroleum, and nuclear fuel	m8	759	1,114	176	375	421	30	87
Chemicals and chemical products	m9	1,406	15,614	3,766	521	767	163	604
Rubber and plastics	m10	120	182	1,047	148	121	119	272
Other nonmetallic minerals	m11	381	56	11	291	102	16	53
Basic metals and fabricated metal	m12	955	234	71	152	15,183	4,603	3,004
Machinery, nec	m13	55	164	31	31	509	2,309	403
Electrical and optical equipment	m14	24	101	26	12	368	509	4,412
Transport equipment	m15	11	38	15	6	136	158	89
Manufacturing, nec; recycling	m16	23	84	14	15	77	57	83
Electricity, gas, and water supply	m17	347	25	2	24	86	15	13
Construction	m18	550	32	2	43	119	17	10
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	21	15	5	3	32	12	15
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2,393	320	93	166	984	175	228
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	80	47	15	10	86	26	50
Hotels and restaurants	m22	0	3	0	3	2	1	3
Inland transport	m23	2,070	116	12	129	477	20	23
Water transport	m24	34	65	10	49	103	7	20
Air transport	m25	101	178	36	74	309	76	104
Other supporting and auxiliary transport activities; activities of travel agencies	m26	22	35	10	14	38	8	13
Post and telecommunications	m27	5	12	3	5	19	14	102
Financial intermediation	m28	22	31	6	8	46	33	41
Real estate activities	m29	0	0	0	0	1	1	1
Renting of M&Eq and other business activities	m30	1,154	211	29	106	492	464	308
Public administration and defense; compulsory social security	m31	218	18	2	15	55	21	14
Education	m32	0	5	1	1	10	19	12
Health and social work	m33	0	2	0	0	3	4	6
Other community, social, and personal services	m34	212	15	2	17	57	10	17
Private households with employed persons	m35	0	0	0	0	0	0	1
<b>Total intermediate consumption</b>	<b>r60</b>	<b>168,262</b>	<b>146,037</b>	<b>50,105</b>	<b>44,092</b>	<b>156,893</b>	<b>64,498</b>	<b>77,100</b>
Taxes less subsidies on products	r99	11,777	7,346	4,575	4,579	25,056	6,892	7,129
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	22,387	42,448	10,356	19,964	35,596	23,138	22,541
International transport margins		–	–	–	–	–	–	–
<b>Output at basic prices</b>	<b>r69</b>	<b>202,427</b>	<b>195,831</b>	<b>65,036</b>	<b>68,635</b>	<b>217,545</b>	<b>94,528</b>	<b>106,769</b>

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Table A3.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
4	132	1	336	0	0	0	161	29	0	0	1
218	5,069	8,026	3,056	0	2	4	25	88	0	0	0
18	37	10	22	0	2	3	2,502	19	1	1	1
40	79	8	63	1	5	10	45	179	1	1	2
25	36	3	14	0	1	3	19	74	0	0	0
17	115	3	226	1	7	12	2	7	0	0	1
34	117	26	130	24	154	268	90	266	2	2	56
45	73	446	478	15	112	217	48	4,197	37	144	20
581	903	206	796	1	9	16	17	233	22	22	12
239	228	15	43	1	8	17	2	586	2	15	15
19	41	36	1,226	0	1	2	2	17	0	0	0
5,470	958	104	6,990	13	80	138	12	158	1	1	2
2,314	303	121	212	2	13	24	85	595	2	1	5
1,341	1,054	394	525	1	12	16	136	344	7	7	24
8,536	239	100	161	2	14	24	13	3,073	104	26	20
123	4,493	81	182	7	49	96	123	214	1	11	4
17	29	34	26	0	1	3	1	13	0	0	0
15	41	58	132	1	4	7	8	25	0	0	0
35	12	4	19	0	1	1	1	14	0	0	0
333	254	237	393	1	13	12	46	138	7	5	3
54	41	12	50	0	2	4	19	31	1	1	1
2	1	2	1	0	0	1	12	9	1	2	8
35	121	188	117	1	9	20	14	26	1	1	2
14	73	42	152	1	35	12	52	153	6	5	1
127	157	18	76	2	28	24	24	28	5	9	3
16	28	14	69	5	32	52	15	27	1	4	5
17	21	13	33	2	14	22	6	85	2	3	8
63	33	33	90	0	58	48	16	66	2	1	1
1	0	0	2	0	0	0	0	1	0	0	0
276	498	159	1,077	37	251	433	43	1,470	17	33	43
15	42	23	65	2	14	24	3	85	1	3	2
11	19	3	52	2	12	21	1	89	2	15	2
3	15	1	15	0	2	4	1	11	1	0	1
17	28	22	30	2	13	30	5	48	1	3	10
1	0	0	1	0	0	1	0	3	0	0	0
<b>137,756</b>	<b>130,184</b>	<b>58,785</b>	<b>223,644</b>	<b>3,591</b>	<b>27,889</b>	<b>45,542</b>	<b>74,890</b>	<b>164,141</b>	<b>1,235</b>	<b>3,195</b>	<b>6,500</b>
10,687	6,912	2,048	25,163	237	1,838	3,001	376	33,223	55	269	331
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
33,731	38,532	41,060	143,314	20,953	162,782	265,812	36,904	134,792	2,423	5,813	10,571
-	-	-	-	-	-	-	-	-	-	-	-
<b>182,174</b>	<b>175,627</b>	<b>101,893</b>	<b>392,121</b>	<b>24,780</b>	<b>192,509</b>	<b>314,354</b>	<b>112,171</b>	<b>332,156</b>	<b>3,713</b>	<b>9,276</b>	<b>17,401</b>

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Table A3.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	16	0	45	-
Mining and quarrying	m2	1	1	0	6	-
Food, beverages, and tobacco	m3	1	8	0	8	-
Textiles and textile products	m4	1	5	0	10	-
Leather, leather products, and footwear	m5	0	2	0	3	-
Wood and products of wood and cork	m6	1	1	0	3	-
Pulp, paper, paper products, printing, and publishing	m7	18	142	2	83	-
Coke, refined petroleum, and nuclear fuel	m8	10	26	2	24	-
Chemicals and chemical products	m9	3	5	1	66	-
Rubber and plastics	m10	3	5	1	10	-
Other nonmetallic minerals	m11	1	1	1	5	-
Basic metals and fabricated metal	m12	3	15	1	28	-
Machinery, nec	m13	10	17	0	25	-
Electrical and optical equipment	m14	688	172	12	711	-
Transport equipment	m15	12	139	9	470	-
Manufacturing, nec; recycling	m16	6	32	9	171	-
Electricity, gas, and water supply	m17	0	1	0	10	-
Construction	m18	1	3	7	24	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	1	1	0	3	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	26	13	1	46	-
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	7	4	0	15	-
Hotels and restaurants	m22	1	3	0	12	-
Inland transport	m23	2	4	1	9	-
Water transport	m24	3	11	0	3	-
Air transport	m25	6	98	0	74	-
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	6	1	6	-
Post and telecommunications	m27	7	73	1	68	-
Financial intermediation	m28	2	47	1	21	-
Real estate activities	m29	0	0	0	1	-
Renting of M&Eq and other business activities	m30	22	110	35	2,043	-
Public administration and defense; compulsory social security	m31	7	5	0	170	-
Education	m32	38	5	0	606	-
Health and social work	m33	1	2	0	23	-
Other community, social, and personal services	m34	4	6	1	28	-
Private households with employed persons	m35	0	1	0	0	-
Total intermediate consumption	r60	5,405	24,741	14,998	43,079	-
Taxes less subsidies on products	r99	534	1,621	610	2,265	-
Cif/ fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	30,167	133,893	166,177	139,297	192,026
International transport margins		-	-	-	-	-
Output at basic prices	r69	36,107	160,255	181,785	184,641	192,026

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Table A3.2 Imports Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
1	3	0	–	2,826	–	42	13	17	–	5,854
1	8	5	–	284	–	203	52	29	–	135,301
2	32	3	–	652	–	50	25	78	–	9,265
6	30	6	–	959	–	33	59	35	–	3,680
2	7	2	–	297	–	17	7	3	–	1,333
1	4	5	–	95	–	7	33	17	–	886
28	28	21	–	97	–	24	30	25	–	4,251
11	108	9	–	645	–	62	131	14	–	10,649
107	2,305	58	–	793	–	476	199	74	–	36,976
1	8	4	–	634	–	19	230	22	–	4,569
1	6	2	–	131	–	7	120	36	–	2,639
4	20	25	–	651	–	45	1,398	293	–	40,856
4	13	11	–	200	–	19	10,696	1,996	–	21,099
6	171	299	–	2,388	–	832	15,944	2,215	–	32,953
15	31	182	–	584	–	49	9,619	756	–	24,889
52	112	327	–	6,807	–	423	1,581	1,560	–	17,015
0	1	2	–	16	–	2	24	4	–	725
6	2	3	–	8	–	2	51	6	–	1,230
0	2	1	–	29	–	10	72	16	–	352
3	40	23	–	343	–	65	1,103	272	–	8,230
1	8	6	–	114	–	23	155	34	–	986
4	1	2	–	219	–	10	1	2	–	403
6	5	7	–	446	–	47	119	519	–	4,680
4	3	3	–	889	–	47	61	89	–	2,245
16	12	6	–	673	–	92	25	0	–	2,608
2	5	2	–	244	–	16	25	3	–	861
7	9	23	–	149	–	32	15	3	–	822
10	4	16	–	233	–	19	10	7	–	1,125
0	0	0	–	1	–	0	1	0	–	16
49	11	281	–	448	–	103	344	87	–	11,576
25	8	14	–	80	–	21	4	2	–	1,045
169	53	13	–	246	–	77	5	1	–	1,737
0	0	5	–	29	–	3	20	6	–	169
21	8	37	–	2,168	–	747	20	5	–	3,624
3	0	0	–	4	–	1	0	0	–	19
<b>12,668</b>	<b>23,453</b>	<b>15,335</b>	–	<b>1,522,240</b>	–	<b>291,760</b>	<b>713,283</b>	<b>111,356</b>	<b>383,592</b>	<b>5,296,181</b>
418	1,614	1,660	–	42,537	–	10,712	44,217	–	–	243,438
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
116,629	41,940	70,436	–	–	–	–	–	–	–	2,481,590
–	–	–	–	–	–	–	–	–	–	–
<b>129,715</b>	<b>67,006</b>	<b>87,431</b>	–	<b>1,564,777</b>	–	<b>302,472</b>	<b>757,500</b>	<b>111,356</b>	<b>383,592</b>	<b>8,021,209</b>

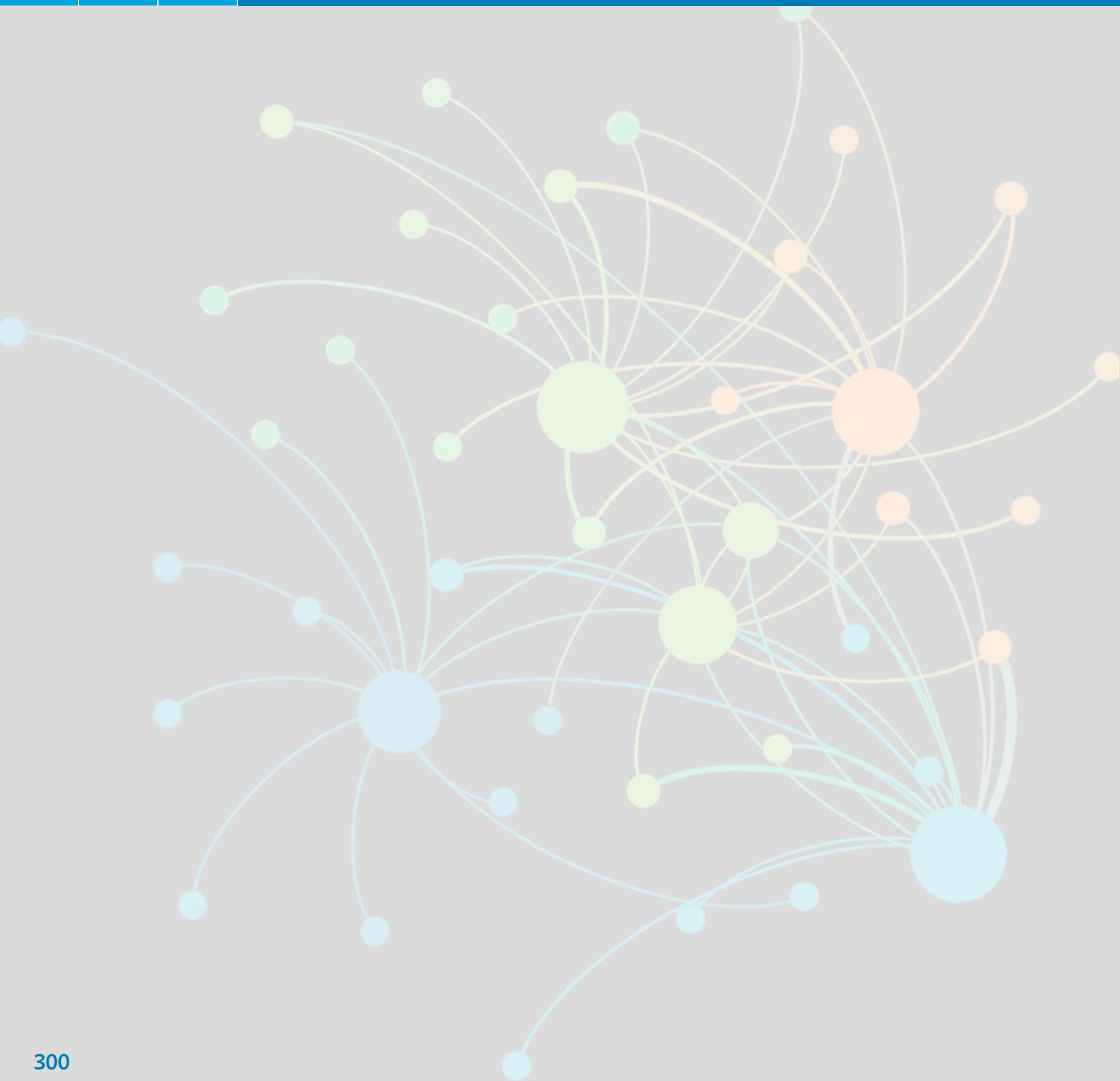
\$ = United States dollar; (–) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.



# A4

## APPENDIX 4: INPUT-OUTPUT TABLES FOR 2010 AND 2017— KAZAKHSTAN



**Table A4.1: Kazakhstan Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	2,432	3	1,713	73	1	3	–
Mining and quarrying	c2	524	10,113	5	0	0	0	–
Food, beverages, and tobacco	c3	105	1	327	3	1	–	0
Textiles and textile products	c4	2	2	2	29	0	0	0
Leather, leather products, and footwear	c5	0	0	0	–	–	0	–
Wood and products of wood and cork	c6	1	2	0	0	0	2	4
Pulp, paper, paper products, printing, and publishing	c7	2	0	74	0	0	0	14
Coke, refined petroleum, and nuclear fuel	c8	133	386	9	0	0	0	1
Chemicals and chemical products	c9	99	88	11	1	1	1	4
Rubber and plastics	c10	7	27	41	0	0	0	1
Other nonmetallic minerals	c11	7	30	9	0	0	0	–
Basic metals and fabricated metal	c12	3	1,575	3	0	0	0	0
Machinery, nec	c13	34	391	30	0	0	0	4
Electrical and optical equipment	c14	1	3	0	0	0	0	0
Transport equipment	c15	1	2	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	0	0	0	0	0	0
Electricity, gas, and water supply	c17	79	706	129	4	2	2	8
Construction	c18	55	121	4	0	0	0	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	22	27	7	0	0	0	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	519	2,750	419	15	2	3	27
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	276	179	279	8	1	1	7
Hotels and restaurants	c22	0	11	0	0	0	–	0
Inland transport	c23	199	1,248	215	6	1	1	6
Water transport	c24	0	59	0	–	–	0	0
Air transport	c25	1	101	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	93	347	78	1	0	0	1
Post and telecommunications	c27	5	133	19	0	0	0	1
Financial intermediation	c28	56	1,073	52	1	1	0	5
Real estate activities	c29	12	66	6	0	0	0	0
Renting of M&Eq and other business activities	c30	42	841	72	0	0	0	3
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–	–
Education	c32	0	2	0	0	–	–	–
Health and social work	c33	0	1	0	–	–	–	–
Other community, social, and personal services	c34	0	2	0	0	–	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	0	6	–	0	0	2	–
Mining and quarrying	c2	1,759	184	11	140	4,325	36	0
Food, beverages, and tobacco	c3	0	18	0	0	2	0	0
Textiles and textile products	c4	0	0	0	0	1	1	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	1	1	1	0
Pulp, paper, paper products, printing, and publishing	c7	0	1	0	1	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	203	15	2	28	142	4	0
Chemicals and chemical products	c9	11	54	13	6	36	10	2
Rubber and plastics	c10	0	2	2	1	3	2	0
Other nonmetallic minerals	c11	0	0	0	89	1	5	0
Basic metals and fabricated metal	c12	13	1	1	62	2,372	366	121
Machinery, nec	c13	6	0	0	6	58	78	13
Electrical and optical equipment	c14	0	0	0	0	2	2	4
Transport equipment	c15	0	0	0	0	0	4	0
Manufacturing, nec; recycling	c16	0	0	0	0	2	0	0
Electricity, gas, and water supply	c17	25	10	5	38	56	44	3
Construction	c18	1	0	0	4	9	2	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	4	5	3	4	9	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	341	47	29	126	1,251	150	31
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	4	29	25	20	118	29	11
Hotels and restaurants	c22	0	0	0	0	1	1	0
Inland transport	c23	132	30	9	51	389	47	11
Water transport	c24	10	0	0	0	0	0	0
Air transport	c25	0	0	0	0	3	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	2	1	23	10	11	1
Post and telecommunications	c27	1	0	0	3	5	6	0
Financial intermediation	c28	1	3	1	20	42	63	2
Real estate activities	c29	0	0	0	5	3	9	0
Renting of M&Eq and other business activities	c30	4	3	2	16	31	27	2
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–	–
Education	c32	–	0	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0	–
Other community, social, and personal services	c34	0	0	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
–	0	1	20	–	0	1	25	1	0	–	1
0	0	797	111	0	7	0	0	553	0	0	22
0	0	0	1	–	167	21	141	1	0	3	3
0	0	1	3	0	1	0	4	6	0	0	0
0	–	0	0	–	–	–	0	0	0	0	0
0	4	1	24	–	–	0	0	7	–	0	0
0	1	2	0	0	116	23	4	10	0	0	5
1	0	28	29	4	9	3	7	266	10	150	4
1	0	30	13	0	1	0	0	5	0	0	1
0	0	8	157	0	22	12	1	14	0	0	1
0	0	6	963	1	6	–	0	11	3	0	22
65	25	551	1,686	0	18	1	0	400	0	0	132
6	0	149	49	7	32	31	19	508	10	88	84
0	0	4	10	0	4	0	0	2	0	0	0
0	0	2	1	1	1	0	1	33	0	0	1
0	2	0	1	0	0	0	0	0	0	0	0
4	1	527	48	14	96	69	119	209	6	2	109
0	–	154	1,908	2	68	151	5	214	–	0	129
4	0	15	24	15	8	8	3	44	1	5	3
24	9	337	1,052	53	2,164	1,133	126	753	6	6	320
6	7	74	285	5	546	10	35	167	5	53	68
0	0	0	10	0	2	0	3	3	0	0	0
9	6	144	314	25	688	167	23	297	6	19	30
0	0	1	0	–	108	–	0	1	14	–	0
0	0	0	16	1	19	4	0	1	0	25	2
0	0	34	58	9	1,334	290	43	538	9	50	70
1	0	33	43	4	209	56	12	32	1	5	11
3	0	94	129	77	741	221	36	237	8	18	106
0	1	12	19	14	326	84	12	39	1	5	25
2	3	56	296	50	379	80	68	413	23	9	140
–	–	–	–	–	–	–	–	–	–	–	–
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	–	0	0
0	0	0	1	0	2	1	4	3	–	–	0
–	–	–	–	–	–	–	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	0	0	7	14	1,123
Mining and quarrying	c2	1	0	30	14	8
Food, beverages, and tobacco	c3	0	21	20	23	1
Textiles and textile products	c4	0	0	1	10	2
Leather, leather products, and footwear	c5	0	–	0	0	0
Wood and products of wood and cork	c6	0	1	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	36	3	6	8	9
Coke, refined petroleum, and nuclear fuel	c8	7	8	11	29	96
Chemicals and chemical products	c9	1	1	3	42	5
Rubber and plastics	c10	1	0	6	21	0
Other nonmetallic minerals	c11	0	2	–	3	1
Basic metals and fabricated metal	c12	24	0	0	1	16
Machinery, nec	c13	85	7	14	279	50
Electrical and optical equipment	c14	17	0	0	4	3
Transport equipment	c15	0	0	0	1	1
Manufacturing, nec; recycling	c16	0	0	4	1	4
Electricity, gas, and water supply	c17	78	36	543	248	72
Construction	c18	91	112	533	240	6
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	4	3	6	36	13
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	362	229	24	155	202
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	118	75	26	99	90
Hotels and restaurants	c22	0	2	20	22	56
Inland transport	c23	42	58	22	75	91
Water transport	c24	0	7	0	1	0
Air transport	c25	1	70	2	49	34
Other supporting and auxiliary transport activities; activities of travel agencies	c26	73	80	14	149	41
Post and telecommunications	c27	251	93	198	299	114
Financial intermediation	c28	366	599	1,214	739	303
Real estate activities	c29	65	166	301	223	20
Renting of M&Eq and other business activities	c30	192	471	1,707	1,096	481
Public administration and defense; compulsory social security	c31	–	–	–	–	0
Education	c32	1	1	0	18	5
Health and social work	c33	0	3	0	3	8
Other community, social, and personal services	c34	5	16	9	12	1
Private households with employed persons	c35	–	–	–	–	–

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Table A4.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
171	43	6	–	5,445	–	175	698	207	958	<b>13,129</b>
14	12	10	–	919	–	–	–	1,199	34,362	<b>55,155</b>
101	40	9	–	6,381	–	–	–	(358)	769	<b>7,804</b>
1	3	24	–	122	–	–	8	53	24	<b>301</b>
0	–	0	–	12	–	–	–	(1)	27	<b>40</b>
0	0	2	–	21	–	–	0	0	2	<b>74</b>
9	4	5	–	37	–	–	–	3	22	<b>396</b>
13	44	18	–	630	–	–	–	(3)	2,201	<b>4,487</b>
23	48	4	–	136	–	–	75	3	370	<b>1,101</b>
2	15	5	–	172	–	–	–	5	39	<b>570</b>
2	8	5	–	294	–	–	1	(7)	94	<b>1,558</b>
1	7	12	–	137	–	–	112	129	9,479	<b>17,317</b>
23	48	30	–	1	–	–	155	(2)	157	<b>2,451</b>
2	1	1	–	37	–	–	299	(17)	105	<b>484</b>
0	1	2	–	5	–	–	193	(13)	126	<b>364</b>
6	1	1	–	126	–	–	80	4	4	<b>237</b>
166	261	326	–	2,574	–	356	–	30	312	<b>7,316</b>
251	98	35	–	631	–	18	13,866	–	23	<b>18,733</b>
9	15	10	–	350	–	–	279	4	70	<b>1,016</b>
229	266	33	–	2,191	–	–	1,519	293	6,685	<b>23,881</b>
125	117	37	–	3,633	–	–	520	21	904	<b>8,013</b>
15	2	2	–	2,019	–	–	–	–	–	<b>2,169</b>
90	33	35	–	4,259	–	635	505	119	4,418	<b>14,458</b>
0	0	2	–	0	–	27	0	1	53	<b>286</b>
6	1	26	–	730	–	2	2	0	241	<b>1,337</b>
42	46	15	–	1,204	–	–	–	–	252	<b>4,919</b>
23	24	39	–	4,324	–	2	94	145	94	<b>6,280</b>
66	142	43	–	554	–	–	–	–	103	<b>7,119</b>
17	16	53	–	14,221	–	21	–	–	0	<b>15,744</b>
77	82	85	–	866	0	457	2,689	(0)	370	<b>11,136</b>
–	–	–	–	132	–	5,932	–	–	358	<b>6,422</b>
0	1	0	–	1,188	7	3,962	–	–	–	<b>5,187</b>
0	13	5	–	425	8	3,325	–	–	0	<b>3,794</b>
46	1	25	–	1,457	1,198	328	85	–	1	<b>3,200</b>
–	–	–	–	76	–	–	–	–	0	<b>76</b>

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Table A4.1 Import Industry *continued*

			Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry			c1	c2	c3	c4	c5	c6	c7
Imports									
Agriculture, hunting, forestry, and fishing	m1		148	1	209	3	0	3	0
Mining and quarrying	m2		115	1,365	8	0	0	0	0
Food, beverages, and tobacco	m3		19	1	95	0	0	0	1
Textiles and textile products	m4		3	3	6	8	1	0	0
Leather, leather products, and footwear	m5		0	0	0	1	3	0	0
Wood and products of wood and cork	m6		6	26	0	0	0	11	21
Pulp, paper, paper products, printing, and publishing	m7		6	1	69	0	0	0	53
Coke, refined petroleum, and nuclear fuel	m8		122	131	9	1	0	1	2
Chemicals and chemical products	m9		109	297	26	3	2	2	25
Rubber and plastics	m10		10	38	47	0	0	0	2
Other nonmetallic minerals	m11		5	17	57	0	0	0	0
Basic metals and fabricated metal	m12		4	1,003	15	0	0	1	1
Machinery, nec	m13		51	324	64	0	0	0	2
Electrical and optical equipment	m14		25	27	2	0	0	0	1
Transport equipment	m15		17	38	6	0	0	0	0
Manufacturing, nec; recycling	m16		0	0	1	0	0	0	0
Electricity, gas, and water supply	m17		1	8	3	0	0	0	0
Construction	m18		5	11	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19		0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20		0	1	2	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21		0	0	0	0	0	0	0
Hotels and restaurants	m22		0	0	0	0	0	0	0
Inland transport	m23		1	46	11	0	0	0	0
Water transport	m24		0	2	0	0	0	0	0
Air transport	m25		1	15	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26		2	10	2	0	0	0	0
Post and telecommunications	m27		0	10	1	0	0	0	0
Financial intermediation	m28		5	56	3	0	0	0	0
Real estate activities	m29		0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30		27	397	13	0	0	0	2
Public administration and defense; compulsory social security	m31		0	0	0	–	0	0	0
Education	m32		0	0	0	0	0	0	0
Health and social work	m33		0	0	0	0	0	0	0
Other community, social, and personal services	m34		0	0	0	0	0	0	0
Private households with employed persons	m35		0	0	0	0	–	0	–
Total intermediate consumption	r60		5,393	24,120	4,156	157	19	35	199
Taxes less subsidies on products	r99		(18)	874	100	2	0	1	9
Cif/ fob adjustments on exports	r61		–	–	–	–	–	–	–
Direct purchases abroad by residents	r62		–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63		–	–	–	–	–	–	–
Value added at basic prices	r64		7,753	30,161	3,549	142	20	38	188
International transport margins			–	–	–	–	–	–	–
Output at basic prices	r69		13,129	55,155	7,804	301	40	74	396

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Table A4.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	3	1	0	0	0	0	0	0	0	1	0	0
352	14	3	36	213	7	0	0	0	165	19	0	0
0	4	0	0	0	0	0	0	0	0	0	0	40
0	0	0	1	13	2	0	0	5	1	3	0	0
0	0	0	0	0	0	0	0	1	0	0	0	0
0	0	0	2	2	3	0	0	50	4	129	0	0
0	2	0	3	0	2	0	0	1	0	1	0	14
69	16	0	24	119	5	0	2	1	25	99	4	16
6	173	190	35	42	42	22	12	4	49	21	0	17
0	2	21	2	8	14	0	4	0	11	147	3	32
0	2	1	25	4	5	7	0	0	6	248	5	34
4	3	3	44	165	95	16	25	3	158	1,225	3	12
2	5	0	5	23	74	0	8	0	90	188	12	6
0	0	0	1	8	19	24	4	0	75	81	0	112
0	0	0	2	2	43	0	15	0	40	14	20	10
0	0	0	0	0	0	0	0	4	0	4	0	0
0	0	0	1	1	1	0	0	0	4	1	0	1
0	0	0	0	1	0	0	0	0	13	211	0	10
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	1	42
0	0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	3	1	1	0	0	0	3	2	2	31
1	0	0	0	0	1	0	0	0	0	0	0	5
0	0	0	0	0	0	0	0	0	0	5	0	5
0	0	0	1	0	0	0	0	0	1	2	0	35
0	0	0	0	0	0	0	0	0	2	4	0	7
1	0	0	1	4	5	0	0	0	8	10	6	56
0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	0	6	20	13	0	0	0	17	81	5	68
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	–	–	–	0	0	–	0	0	0	0	0	0
<b>2,951</b>	<b>637</b>	<b>327</b>	<b>838</b>	<b>9,495</b>	<b>1,242</b>	<b>274</b>	<b>201</b>	<b>133</b>	<b>3,737</b>	<b>9,771</b>	<b>341</b>	<b>7,627</b>
(38)	24	9	51	535	43	7	7	3	93	350	25	970
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
1,574	440	234	670	7,287	1,165	202	155	101	3,486	8,612	650	15,284
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>4,487</b>	<b>1,101</b>	<b>570</b>	<b>1,558</b>	<b>17,317</b>	<b>2,451</b>	<b>484</b>	<b>364</b>	<b>237</b>	<b>7,316</b>	<b>18,733</b>	<b>1,016</b>	<b>23,881</b>

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Table A4.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	44	1	0	0	1
Mining and quarrying	m2	0	0	123	0	0	4
Food, beverages, and tobacco	m3	5	51	0	0	1	1
Textiles and textile products	m4	0	6	10	2	0	3
Leather, leather products, and footwear	m5	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	4	34	0	0	2
Pulp, paper, paper products, printing, and publishing	m7	2	13	2	0	0	3
Coke, refined petroleum, and nuclear fuel	m8	2	7	235	9	133	5
Chemicals and chemical products	m9	2	16	16	0	1	5
Rubber and plastics	m10	14	6	90	0	1	4
Other nonmetallic minerals	m11	0	1	48	1	0	23
Basic metals and fabricated metal	m12	5	2	192	0	0	59
Machinery, nec	m13	5	8	87	13	1	26
Electrical and optical equipment	m14	0	2	35	2	0	6
Transport equipment	m15	0	14	197	11	119	13
Manufacturing, nec; recycling	m16	0	0	0	0	0	0
Electricity, gas, and water supply	m17	1	2	3	0	0	0
Construction	m18	17	1	21	0	0	15
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	4	0	2	1	5	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	9	0	2	0	0	1
Water transport	m24	0	0	0	3	1	2
Air transport	m25	2	0	0	0	2	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	11	2	25	0	2	3
Post and telecommunications	m27	4	1	2	0	0	1
Financial intermediation	m28	17	3	25	1	1	13
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	17	19	326	2	1	57
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	2,485	898	6,240	151	708	1,538
Taxes less subsidies on products	r99	480	52	184	4	14	136
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	5,048	1,219	8,034	132	615	3,245
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	8,013	2,169	14,458	286	1,337	4,919

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Table A4.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	0	27	93	4	11	2	0	345	0
0	0	0	1	0	1	2	8	0	133	0
0	15	3	12	1	61	16	2	0	2,192	0
0	0	0	4	1	2	5	7	0	294	0
0	0	0	1	1	0	0	0	–	75	0
1	0	0	1	1	0	0	9	0	167	0
27	2	3	102	1	28	25	6	–	191	0
6	8	10	20	86	15	42	20	0	158	0
14	9	19	64	67	74	237	32	–	1,802	0
2	3	32	27	1	8	26	17	–	407	0
1	2	0	0	2	12	24	10	–	453	0
11	0	6	9	2	3	9	20	0	530	0
7	8	4	67	1	7	40	18	0	225	0
163	2	14	52	7	48	8	72	–	889	0
3	5	11	16	18	6	20	37	–	260	0
0	0	3	2	5	20	8	6	0	367	0
2	1	4	4	1	2	10	2	0	81	0
8	9	54	25	1	29	15	4	0	68	0
0	0	0	0	0	0	0	0	0	0	0
4	4	1	0	12	1	0	0	0	66	0
0	0	0	0	2	0	0	0	0	15	0
0	0	0	0	0	0	0	0	0	0	0
1	0	0	1	2	1	0	0	0	17	0
1	1	0	0	9	0	0	0	–	1	–
0	2	0	1	6	1	0	1	–	16	–
3	4	1	8	2	2	2	1	–	63	0
33	9	13	20	13	7	1	5	0	234	0
38	30	55	52	16	6	13	3	0	174	–
0	0	0	0	0	0	0	0	0	0	0
42	45	487	145	155	2	15	5	–	130	0
0	0	0	0	0	0	0	0	–	13	–
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	–	5	0
0	0	0	–	0	0	–	0	–	0	0
<b>2,189</b>	<b>2,224</b>	<b>5,442</b>	<b>4,574</b>	<b>3,361</b>	<b>1,869</b>	<b>1,924</b>	<b>1,191</b>	<b>0</b>	<b>64,678</b>	<b>1,214</b>
126	112	68	95	43	102	119	21	–	1,077	0
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	1,221	–
–	–	–	–	–	–	–	–	–	(1,005)	–
3,965	4,783	10,233	6,467	3,019	3,216	1,751	1,988	76	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>6,280</b>	<b>7,119</b>	<b>15,744</b>	<b>11,136</b>	<b>6,422</b>	<b>5,187</b>	<b>3,794</b>	<b>3,200</b>	<b>76</b>	<b>65,971</b>	<b>1,214</b>

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Table A4.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	196	11	(0)	–	1,103
Mining and quarrying	m2	0	0	458	–	3,027
Food, beverages, and tobacco	m3	0	0	(88)	–	2,433
Textiles and textile products	m4	0	17	1	–	400
Leather, leather products, and footwear	m5	0	0	(3)	–	81
Wood and products of wood and cork	m6	0	0	4	–	478
Pulp, paper, paper products, printing, and publishing	m7	0	0	3	–	561
Coke, refined petroleum, and nuclear fuel	m8	0	0	62	–	1,463
Chemicals and chemical products	m9	0	133	4	–	3,575
Rubber and plastics	m10	0	0	52	–	1,032
Other nonmetallic minerals	m11	0	18	3	–	1,016
Basic metals and fabricated metal	m12	0	784	97	–	4,509
Machinery, nec	m13	0	3,480	(61)	–	4,788
Electrical and optical equipment	m14	0	2,943	(48)	–	4,574
Transport equipment	m15	0	2,607	(36)	–	3,510
Manufacturing, nec; recycling	m16	0	217	27	–	669
Electricity, gas, and water supply	m17	0	0	(4)	–	131
Construction	m18	1	1,117	0	–	1,634
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	1	0	–	151
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	20
Hotels and restaurants	m22	0	0	0	–	0
Inland transport	m23	8	0	0	–	144
Water transport	m24	1	0	(0)	–	30
Air transport	m25	0	0	0	–	58
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	185
Post and telecommunications	m27	0	71	44	–	482
Financial intermediation	m28	0	1	0	–	603
Real estate activities	m29	0	0	0	–	0
Renting of M&Eq and other business activities	m30	281	2,698	(0)	–	5,077
Public administration and defense; compulsory social security	m31	245	0	0	–	258
Education	m32	0	0	0	–	0
Health and social work	m33	0	0	0	–	0
Other community, social, and personal services	m34	8	27	0	–	40
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	15,980	35,307	2,332	62,624	288,585
Taxes less subsidies on products	r99	27	709	48	–	6,464
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	1,221
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	(1,005)
Value added at basic prices	r64	–	–	–	–	135,500
International transport margins		–	–	–	–	–
Output at basic prices	r69	16,007	36,016	2,380	62,624	430,765

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A4.2: Kazakhstan Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing	
		c1	c2	c3	c4	c5	c6	c7	
Domestic									
Agriculture, hunting, forestry, and fishing	c1	1,899	2	1,601	37	–	6	2	
Mining and quarrying	c2	3	6,154	2	0	0	0	0	
Food, beverages, and tobacco	c3	275	10	392	0	1	–	1	
Textiles and textile products	c4	2	7	4	48	0	–	0	
Leather, leather products, and footwear	c5	0	0	0	0	1	–	–	
Wood and products of wood and cork	c6	2	7	1	0	–	0	0	
Pulp, paper, paper products, printing, and publishing	c7	1	4	19	0	0	0	3	
Coke, refined petroleum, and nuclear fuel	c8	103	317	9	0	0	7	0	
Chemicals and chemical products	c9	198	278	6	0	0	0	2	
Rubber and plastics	c10	7	21	41	0	0	0	0	
Other nonmetallic minerals	c11	12	103	5	0	–	1	–	
Basic metals and fabricated metal	c12	16	567	6	3	0	0	0	
Machinery, nec	c13	39	358	1	0	0	0	0	
Electrical and optical equipment	c14	0	2	0	0	–	–	0	
Transport equipment	c15	0	0	0	–	–	0	0	
Manufacturing, nec; recycling	c16	0	2	0	0	0	–	0	
Electricity, gas, and water supply	c17	48	516	142	0	0	0	67	
Construction	c18	23	215	0	0	–	–	0	
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	5	13	0	0	0	0	0	
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	733	2,268	724	35	3	7	25	
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	109	122	74	1	0	0	2	
Hotels and restaurants	c22	0	66	1	0	–	0	0	
Inland transport	c23	259	1,583	248	11	1	3	9	
Water transport	c24	2	8	3	0	0	0	0	
Air transport	c25	1	3	0	0	0	0	0	
Other supporting and auxiliary transport activities; activities of travel agencies	c26	20	307	1	0	–	0	0	
Post and telecommunications	c27	0	30	0	0	0	0	1	
Financial intermediation	c28	556	187	43	4	0	0	1	
Real estate activities	c29	5	10	1	0	0	0	0	
Renting of M&Eq and other business activities	c30	162	1,297	16	0	–	1	5	
Public administration and defense; compulsory social security	c31	–	–	1	0	–	–	0	
Education	c32	0	10	0	0	–	0	0	
Health and social work	c33	0	37	0	0	0	–	0	
Other community, social, and personal services	c34	5	40	1	0	–	0	0	
Private households with employed persons	c35	–	–	–	–	–	–	–	

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Table A4.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	–	0	–	0	0	0	–
Mining and quarrying	c2	1,459	409	81	219	4,564	4	0
Food, beverages, and tobacco	c3	0	1	–	0	0	0	0
Textiles and textile products	c4	0	0	1	1	0	1	0
Leather, leather products, and footwear	c5	0	–	0	0	0	0	–
Wood and products of wood and cork	c6	0	–	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	1	0	1	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	0	0	–	20	103	3	0
Chemicals and chemical products	c9	1	27	4	3	3	1	0
Rubber and plastics	c10	1	2	2	13	3	1	0
Other nonmetallic minerals	c11	1	0	1	103	3	5	0
Basic metals and fabricated metal	c12	8	0	3	91	830	314	140
Machinery, nec	c13	1	0	0	1	2	9	1
Electrical and optical equipment	c14	0	0	0	0	0	1	2
Transport equipment	c15	0	–	–	0	–	0	–
Manufacturing, nec; recycling	c16	0	0	0	0	0	0	0
Electricity, gas, and water supply	c17	9	2	21	13	3	8	2
Construction	c18	–	–	1	7	8	8	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0	1	–
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	418	165	89	195	1,825	195	57
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	1	0	2	1	3	0
Hotels and restaurants	c22	0	0	0	1	1	5	0
Inland transport	c23	226	64	31	77	701	71	22
Water transport	c24	2	1	0	1	7	1	0
Air transport	c25	0	0	0	0	1	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	2	0	3	0
Post and telecommunications	c27	0	0	0	0	0	0	0
Financial intermediation	c28	6	9	6	2	21	13	35
Real estate activities	c29	0	0	0	0	0	0	–
Renting of M&Eq and other business activities	c30	4	2	1	16	21	10	0
Public administration and defense; compulsory social security	c31	–	–	–	0	0	–	–
Education	c32	0	–	0	0	0	–	–
Health and social work	c33	0	0	–	0	1	0	0
Other community, social, and personal services	c34	0	0	–	0	0	2	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A4.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	0	1	3	–	7	14	166	0	–	–	4
0	3	397	912	1	63	26	1	236	0	0	2
–	–	7	2	1	64	12	253	2	–	1	8
0	0	6	16	1	6	9	7	16	0	4	0
0	–	0	0	0	0	0	0	0	0	0	0
0	4	1	10	0	0	0	0	0	0	6	2
0	0	2	10	2	98	25	1	3	0	0	11
0	0	91	18	24	45	124	1	1,215	16	64	45
1	0	26	34	0	3	4	1	8	1	0	1
0	0	19	116	1	14	20	2	12	1	0	2
0	0	35	1,070	0	3	1	8	16	1	0	13
96	14	456	1,663	3	37	8	3	220	12	0	26
0	0	154	25	2	151	55	6	221	12	1	33
1	0	12	4	0	0	2	0	8	0	0	0
1	–	0	0	7	0	0	0	4	0	1	0
0	0	1	1	0	2	0	0	1	–	3	0
1	0	497	44	14	381	274	14	154	3	0	56
2	0	143	357	0	64	359	5	66	1	0	1
11	0	2	1	27	8	2	0	112	0	6	3
43	19	404	1,580	10	131	97	154	640	8	17	75
0	0	41	61	5	199	33	22	515	9	30	26
–	–	3	4	0	8	8	4	4	–	28	3
21	7	159	596	37	878	213	51	325	4	17	122
0	0	2	5	0	104	0	1	3	0	0	0
0	0	0	1	8	104	46	0	7	0	1	38
0	0	6	8	49	782	288	1	73	26	183	2
0	0	16	1	13	240	118	0	168	0	3	18
3	8	110	159	248	1,254	285	12	747	22	41	149
0	0	1	39	7	145	169	18	54	0	24	23
3	0	63	596	142	1,317	789	25	348	17	11	155
–	–	0	0	–	0	0	0	0	–	–	1
0	0	0	0	0	0	0	0	2	–	0	1
0	0	2	1	1	1	1	0	50	0	0	6
0	0	4	1	0	6	7	1	5	–	1	1
–	–	–	–	–	–	–	–	–	–	–	–

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Table A4.2 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	0	6	5	7	295
Mining and quarrying	c2	0	0	52	60	1
Food, beverages, and tobacco	c3	12	0	3	23	1
Textiles and textile products	c4	1	0	1	22	1
Leather, leather products, and footwear	c5	0	0	0	1	0
Wood and products of wood and cork	c6	0	0	17	3	0
Pulp, paper, paper products, printing, and publishing	c7	44	13	1	27	24
Coke, refined petroleum, and nuclear fuel	c8	2	8	73	48	67
Chemicals and chemical products	c9	2	0	7	63	8
Rubber and plastics	c10	13	0	64	19	2
Other nonmetallic minerals	c11	1	0	76	36	4
Basic metals and fabricated metal	c12	179	49	16	143	4
Machinery, nec	c13	51	1	2	219	63
Electrical and optical equipment	c14	9	2	0	6	2
Transport equipment	c15	0	0	0	1	0
Manufacturing, nec; recycling	c16	0	0	0	2	0
Electricity, gas, and water supply	c17	89	11	166	119	221
Construction	c18	19	3	331	487	100
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	2	1	15	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	120	10	478	285	88
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	48	49	81	140	67
Hotels and restaurants	c22	5	4	2	113	17
Inland transport	c23	65	294	299	196	639
Water transport	c24	0	0	1	96	0
Air transport	c25	8	31	2	107	36
Other supporting and auxiliary transport activities; activities of travel agencies	c26	8	4	1	163	62
Post and telecommunications	c27	150	120	6	95	121
Financial intermediation	c28	94	1,094	372	344	713
Real estate activities	c29	49	149	17	179	0
Renting of M&Eq and other business activities	c30	249	300	350	1,360	1,418
Public administration and defense; compulsory social security	c31	0	–	22	–	0
Education	c32	2	2	0	83	0
Health and social work	c33	0	–	0	17	2
Other community, social, and personal services	c34	20	17	3	32	17
Private households with employed persons	c35	–	–	–	–	–

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Table A4.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
5	3	15	–	6,884	–	194	517	378	817	<b>12,869</b>
0	1	4	–	807	–	–	–	4,181	19,406	<b>39,050</b>
25	11	35	–	6,151	–	–	–	(201)	617	<b>7,708</b>
1	22	17	–	115	–	–	8	(11)	27	<b>336</b>
0	0	1	–	7	–	–	–	(5)	23	<b>29</b>
0	0	2	–	16	–	–	3	(4)	11	<b>83</b>
45	2	2	–	25	–	–	–	(23)	22	<b>362</b>
4	44	65	–	93	–	–	–	(36)	1,056	<b>3,631</b>
15	213	11	–	390	–	–	0	(122)	406	<b>1,595</b>
4	44	2	–	163	–	–	–	13	40	<b>644</b>
1	12	14	–	240	–	–	1	(84)	65	<b>1,745</b>
1	5	11	–	89	–	–	161	4,650	6,112	<b>15,937</b>
1	8	3	–	11	–	–	374	(181)	151	<b>1,776</b>
1	3	16	–	91	–	–	327	(125)	171	<b>537</b>
0	1	0	–	99	–	–	359	(121)	110	<b>464</b>
1	1	3	–	70	–	–	81	(23)	16	<b>164</b>
142	274	360	–	2,465	–	91	–	(1)	183	<b>6,390</b>
785	57	30	–	320	–	41	12,579	–	133	<b>16,144</b>
0	0	1	–	497	–	–	1,761	–	90	<b>2,560</b>
47	115	88	–	3,197	–	–	2,152	–	9,459	<b>25,956</b>
125	196	68	–	7,417	–	–	2,694	–	0	<b>12,141</b>
1	2	179	–	1,760	–	–	–	–	1	<b>2,219</b>
233	359	42	–	6,130	–	705	758	–	2,138	<b>17,596</b>
0	1	0	–	16	–	15	7	–	8	<b>286</b>
1	3	11	–	520	–	0	1	–	160	<b>1,089</b>
13	13	5	–	1,024	–	–	–	–	155	<b>3,198</b>
26	2	17	–	2,541	–	2	396	(5)	114	<b>4,196</b>
570	495	71	–	1,836	–	–	–	–	85	<b>9,596</b>
0	0	651	–	15,197	–	10	–	–	13	<b>16,760</b>
107	302	217	–	1,031	0	389	3,045	(0)	388	<b>14,157</b>
0	0	0	–	264	–	7,618	–	–	–	<b>7,906</b>
0	0	1	–	1,931	20	4,339	–	–	1	<b>6,392</b>
3	73	14	–	905	21	3,393	–	–	1	<b>4,527</b>
115	7	8	–	4,208	1,708	206	139	(0)	250	<b>6,804</b>
–	–	–	–	159	–	–	–	–	0	<b>159</b>

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Table A4.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	299	0	120	0	0	3	1
Mining and quarrying	m2	0	110	0	0	0	0	0
Food, beverages, and tobacco	m3	59	2	149	0	0	0	0
Textiles and textile products	m4	21	8	5	24	1	0	0
Leather, leather products, and footwear	m5	0	0	0	0	2	0	0
Wood and products of wood and cork	m6	8	26	2	0	0	1	0
Pulp, paper, paper products, printing, and publishing	m7	1	7	29	0	0	1	20
Coke, refined petroleum, and nuclear fuel	m8	60	86	4	1	0	4	0
Chemicals and chemical products	m9	193	303	180	2	1	0	34
Rubber and plastics	m10	9	37	61	0	0	0	1
Other nonmetallic minerals	m11	6	71	23	0	0	1	0
Basic metals and fabricated metal	m12	26	399	9	1	0	0	0
Machinery, nec	m13	74	335	6	4	1	0	1
Electrical and optical equipment	m14	1	33	1	0	0	0	0
Transport equipment	m15	2	11	1	0	0	0	0
Manufacturing, nec; recycling	m16	0	23	1	1	0	0	0
Electricity, gas, and water supply	m17	4	43	4	0	0	0	0
Construction	m18	3	95	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	1	3	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	1	5	1	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	1	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	25	0	0	0	0	0
Post and telecommunications	m27	0	9	0	0	0	0	2
Financial intermediation	m28	8	2	1	0	0	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	11	351	2	0	0	0	2
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	7	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	5,271	16,537	3,945	177	13	38	180
Taxes less subsidies on products	r99	76	172	(45)	1	0	0	2
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	7,522	22,342	3,808	158	15	45	180
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	12,869	39,050	7,708	336	29	83	362

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Table A4.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	2	0	0	0	0	0	0	0	0	1	0	1
29	9	1	9	303	0	0	0	0	8	61	0	2
0	0	0	0	0	0	0	0	0	1	0	0	9
0	1	2	2	0	1	0	0	1	4	13	1	3
0	0	0	0	0	0	0	0	0	1	0	0	0
0	0	1	2	2	1	0	2	27	3	50	3	1
0	1	0	1	0	0	0	0	0	3	15	4	27
4	0	0	10	63	3	0	0	0	39	15	14	30
0	84	109	21	3	10	11	3	3	32	49	2	5
1	8	2	27	1	3	0	1	0	20	77	29	22
1	2	0	24	1	4	0	0	0	16	238	0	4
1	0	3	47	69	120	19	23	0	161	431	3	25
1	0	0	4	5	60	0	2	0	23	31	5	20
0	0	0	0	1	13	8	3	0	63	39	1	36
0	0	0	0	0	1	0	38	0	0	3	132	6
0	0	0	1	1	0	0	1	0	4	8	1	4
1	1	0	1	1	1	0	0	0	26	2	1	22
0	0	0	2	1	1	0	0	0	17	55	0	19
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	1	1	43
0	0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	2	0	0	0	0	0	2	5	9
0	0	0	0	0	0	0	0	0	0	0	0	3
0	0	0	0	0	0	0	0	0	0	0	3	22
0	0	0	0	0	0	0	0	0	0	1	3	36
0	0	0	0	0	0	0	0	0	3	0	2	43
0	0	0	0	1	1	1	0	0	2	4	3	17
0	0	0	0	0	0	0	0	0	0	0	0	1
1	0	0	4	0	1	0	0	0	16	244	16	663
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	–	–	–	0	0	–	0	0	0	0	0	0
<b>2,178</b>	<b>793</b>	<b>362</b>	<b>922</b>	<b>8,554</b>	<b>879</b>	<b>299</b>	<b>258</b>	<b>88</b>	<b>3,104</b>	<b>8,675</b>	<b>835</b>	<b>7,192</b>
136	14	6	5	40	6	3	2	2	23	61	4	13
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
1,317	788	276	817	7,343	891	235	203	74	3,263	7,409	1,721	18,750
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>3,631</b>	<b>1,595</b>	<b>644</b>	<b>1,745</b>	<b>15,937</b>	<b>1,776</b>	<b>537</b>	<b>464</b>	<b>164</b>	<b>6,390</b>	<b>16,144</b>	<b>2,560</b>	<b>25,956</b>

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Table A4.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	1	22	0	0	0	0
Mining and quarrying	m2	1	0	6	0	0	0
Food, beverages, and tobacco	m3	2	83	0	0	0	1
Textiles and textile products	m4	3	19	11	0	4	4
Leather, leather products, and footwear	m5	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	5	2	0	2	6
Pulp, paper, paper products, printing, and publishing	m7	6	4	2	0	0	13
Coke, refined petroleum, and nuclear fuel	m8	59	1	494	6	21	21
Chemicals and chemical products	m9	3	1	31	1	2	3
Rubber and plastics	m10	19	2	111	4	0	7
Other nonmetallic minerals	m11	0	5	7	0	0	4
Basic metals and fabricated metal	m12	26	4	476	0	3	30
Machinery, nec	m13	22	1	212	5	1	14
Electrical and optical equipment	m14	0	1	24	0	0	2
Transport equipment	m15	0	0	32	2	19	2
Manufacturing, nec; recycling	m16	0	1	2	0	7	0
Electricity, gas, and water supply	m17	14	1	11	0	0	5
Construction	m18	46	0	78	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	4	1	5	1	15	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	1	0	1	0	0	0
Water transport	m24	0	0	0	2	1	1
Air transport	m25	12	0	3	0	2	3
Other supporting and auxiliary transport activities; activities of travel agencies	m26	14	0	5	1	7	0
Post and telecommunications	m27	20	0	56	0	2	6
Financial intermediation	m28	3	2	10	0	1	2
Real estate activities	m29	1	0	0	0	0	0
Renting of M&Eq and other business activities	m30	245	2	55	0	1	26
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	3,489	914	6,872	158	530	979
Taxes less subsidies on products	r99	22	5	200	2	5	5
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	8,629	1,300	10,524	127	555	2,214
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	12,141	2,219	17,596	286	1,089	3,198

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Table A4.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	1	2	16	2	19	5	–	507	0
0	0	4	4	0	0	0	0	–	17	0
4	0	1	9	0	15	7	7	–	1,576	0
1	1	0	44	4	2	4	46	–	750	0
0	0	0	4	0	0	0	2	–	425	0
1	0	37	22	8	0	0	7	–	97	0
42	2	3	50	1	14	6	2	–	164	0
1	6	37	29	34	8	31	45	–	9	–
4	0	16	130	9	21	404	22	–	1,004	0
8	1	43	27	1	3	59	4	–	275	0
1	0	31	21	1	5	12	1	–	200	0
11	0	18	98	10	3	13	6	–	286	0
7	1	4	70	25	4	14	2	–	222	0
61	6	1	60	9	17	11	45	–	1,239	0
4	2	1	28	2	0	18	0	–	1,249	0
2	0	2	8	0	2	6	7	–	366	0
6	1	9	11	15	6	12	18	–	46	0
3	2	148	90	8	82	24	4	–	0	0
0	0	0	0	0	0	0	0	–	0	0
5	10	1	0	36	4	0	0	–	58	0
0	1	0	0	5	0	0	0	–	6	0
0	0	0	0	0	0	0	0	–	0	0
0	2	1	1	3	1	1	1	–	0	0
1	4	0	0	16	1	0	0	–	1	–
4	18	1	53	16	1	0	5	–	3	–
1	1	0	15	4	1	1	1	–	0	0
43	34	2	42	18	67	2	9	–	41	0
2	28	5	3	11	12	7	1	–	2	–
0	1	0	1	0	0	0	4	–	0	0
23	244	12	327	311	2	11	4	–	2	0
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	–	0	0
1	0	0	1	0	1	0	1	–	7	0
0	0	0	–	0	0	–	0	–	0	–
<b>1,479</b>	<b>2,537</b>	<b>2,826</b>	<b>5,666</b>	<b>4,536</b>	<b>2,544</b>	<b>2,931</b>	<b>2,214</b>	<b>–</b>	<b>75,223</b>	<b>1,750</b>
6	331	55	15	78	33	56	45	–	2,757	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	1,816	–
–	–	–	–	–	–	–	–	–	(1,621)	–
2,711	6,727	13,879	8,475	3,291	3,814	1,540	4,544	159	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>4,196</b>	<b>9,596</b>	<b>16,760</b>	<b>14,157</b>	<b>7,905</b>	<b>6,392</b>	<b>4,527</b>	<b>6,804</b>	<b>159</b>	<b>78,175</b>	<b>1,750</b>

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Table A4.2 Imports Industry *continued*

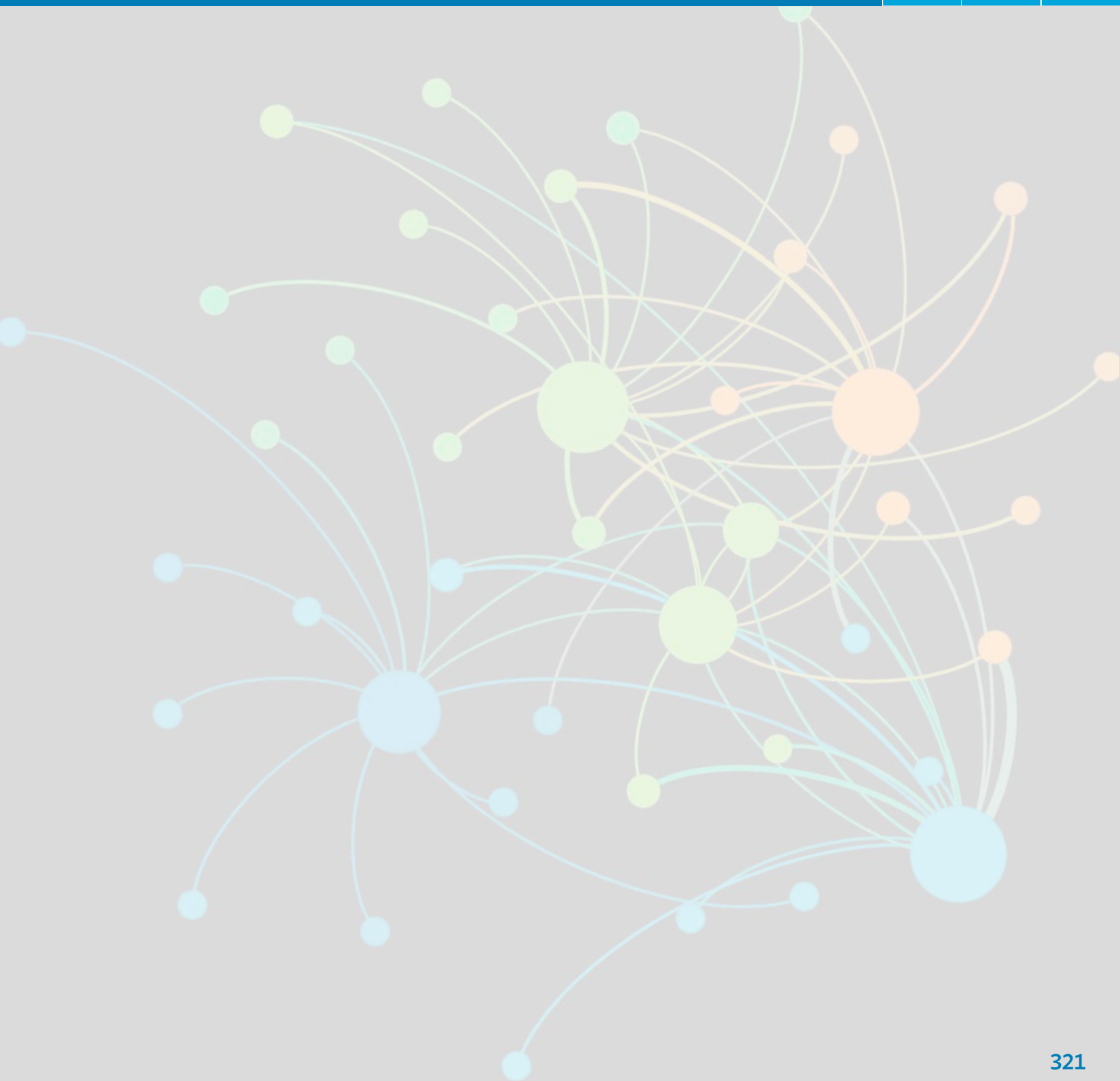
		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	19	29	–	1,052
Mining and quarrying	m2	0	0	367	–	932
Food, beverages, and tobacco	m3	0	0	36	–	1,964
Textiles and textile products	m4	0	12	24	–	1,019
Leather, leather products, and footwear	m5	0	0	3	–	439
Wood and products of wood and cork	m6	0	1	1	–	316
Pulp, paper, paper products, printing, and publishing	m7	0	0	15	–	434
Coke, refined petroleum, and nuclear fuel	m8	–	0	0	–	1,135
Chemicals and chemical products	m9	0	0	44	–	2,739
Rubber and plastics	m10	0	0	3	–	865
Other nonmetallic minerals	m11	0	13	10	–	702
Basic metals and fabricated metal	m12	0	382	234	–	2,934
Machinery, nec	m13	0	2,249	978	–	4,402
Electrical and optical equipment	m14	0	1,710	573	–	3,958
Transport equipment	m15	0	2,426	466	–	4,446
Manufacturing, nec; recycling	m16	0	242	112	–	802
Electricity, gas, and water supply	m17	0	0	0	–	264
Construction	m18	0	329	0	–	1,007
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	2	0	–	193
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	18
Hotels and restaurants	m22	0	0	0	–	0
Inland transport	m23	0	0	2	–	41
Water transport	m24	–	0	13	–	47
Air transport	m25	0	0	0	–	149
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	117
Post and telecommunications	m27	0	26	1	–	433
Financial intermediation	m28	–	2	0	–	133
Real estate activities	m29	0	0	0	–	11
Renting of M&Eq and other business activities	m30	0	858	0	–	3,437
Public administration and defense; compulsory social security	m31	–	0	0	–	0
Education	m32	0	0	0	–	0
Health and social work	m33	0	0	0	–	0
Other community, social, and personal services	m34	0	0	0	–	19
Private households with employed persons	m35	–	0	0	–	0
Total intermediate consumption	r60	17,004	33,635	11,192	42,230	279,009
Taxes less subsidies on products	r99	–	929	–	–	5,065
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	1,816
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	(1,621)
Value added at basic prices	r64	–	–	–	–	145,647
International transport margins		–	–	–	–	–
Output at basic prices	r69	17,004	34,564	11,192	42,230	429,917

\$ = United States dollar; (–) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 5: INPUT-OUTPUT TABLES FOR 2010 AND 2017— KYRGYZ REPUBLIC

# A5



**Table A5.1: Kyrgyz Republic Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	1,120	0	40	11	1	0	0
Mining and quarrying	c2	0	1	4	–	–	0	0
Food, beverages, and tobacco	c3	0	0	69	0	0	0	0
Textiles and textile products	c4	0	0	2	25	3	0	0
Leather, leather products, and footwear	c5	0	0	0	3	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	1	1	1	0	0	2
Coke, refined petroleum, and nuclear fuel	c8	0	0	2	0	0	0	0
Chemicals and chemical products	c9	0	0	1	0	0	0	0
Rubber and plastics	c10	0	0	1	0	0	0	0
Other nonmetallic minerals	c11	0	0	2	0	0	0	0
Basic metals and fabricated metal	c12	0	0	7	2	0	0	2
Machinery, nec	c13	0	0	1	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	–	–	0	0	0	0
Electricity, gas, and water supply	c17	0	1	13	2	0	0	2
Construction	c18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	0	1	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	30	0	14	5	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	113	1	53	17	2	0	1
Hotels and restaurants	c22	0	0	22	0	0	0	0
Inland transport	c23	1	1	14	1	0	0	0
Water transport	c24	0	0	0	0	0	0	0
Air transport	c25	0	0	1	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	4	0	0	0	0
Post and telecommunications	c27	1	1	15	1	0	0	0
Financial intermediation	c28	0	0	2	0	0	0	0
Real estate activities	c29	0	0	1	0	0	0	0
Renting of M&Eq and other business activities	c30	0	0	1	0	0	0	0
Public administration and defense; compulsory social security	c31	–	–	–	–	–	–	–
Education	c32	–	–	0	–	–	–	–
Health and social work	c33	0	0	0	0	0	0	0
Other community, social, and personal services	c34	0	0	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	0	0	0	1	0	0	0	–	0	2	0	8
1	0	0	1	3	0	0	0	0	10	1	0	1
0	0	0	1	5	0	0	0	0	2	6	0	5
2	1	0	0	6	0	0	0	0	0	1	0	1
0	0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
1	0	0	1	1	0	0	0	1	1	4	0	1
2	1	0	1	3	0	0	0	0	1	9	0	1
1	0	0	0	1	0	0	0	0	1	4	0	1
0	0	1	3	0	0	0	0	0	0	9	0	0
0	0	3	10	0	0	0	0	0	0	34	0	1
1	0	3	10	624	4	1	2	2	3	106	0	5
0	0	0	0	1	0	0	0	0	3	4	0	0
0	0	0	0	0	0	0	0	0	1	1	0	0
0	0	0	0	0	0	0	0	0	2	2	0	0
–	–	–	–	–	0	0	0	–	–	0	–	–
1	1	0	2	11	1	0	0	0	23	4	0	4
0	0	0	0	2	0	0	0	0	3	13	0	4
0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	2	4	0	0	0	0	3	11	0	2
4	2	2	7	17	1	0	1	0	10	42	0	8
0	0	0	0	1	0	0	0	0	1	2	0	2
1	1	1	4	12	1	0	0	0	4	14	0	3
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	1	0	0
0	0	0	1	4	0	0	0	0	1	4	0	1
1	1	1	4	12	1	0	0	0	4	15	0	3
0	0	0	0	1	0	0	0	0	0	0	0	1
0	0	0	0	3	0	0	0	0	0	1	0	6
0	0	0	0	1	0	0	0	0	0	0	0	3
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	0	0	–	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	–	0	0	0	0
0	0	0	0	0	0	0	0	–	0	0	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	29	2	1	0	0	0
Mining and quarrying	c2	2	–	0	0	0	0
Food, beverages, and tobacco	c3	20	16	3	0	0	1
Textiles and textile products	c4	3	2	1	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	2	1	1	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	4	0	4	0	0	1
Chemicals and chemical products	c9	2	0	2	0	0	1
Rubber and plastics	c10	1	0	0	0	0	0
Other nonmetallic minerals	c11	2	0	0	0	0	0
Basic metals and fabricated metal	c12	17	1	2	0	0	1
Machinery, nec	c13	0	0	3	0	0	1
Electrical and optical equipment	c14	0	0	1	0	0	0
Transport equipment	c15	0	0	2	0	0	1
Manufacturing, nec; recycling	c16	–	1	–	–	–	–
Electricity, gas, and water supply	c17	16	6	3	0	0	1
Construction	c18	15	2	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	8	3	3	0	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	31	13	11	0	1	3
Hotels and restaurants	c22	7	5	1	0	0	0
Inland transport	c23	12	4	7	0	0	2
Water transport	c24	0	0	0	0	0	0
Air transport	c25	1	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	4	1	2	0	0	1
Post and telecommunications	c27	13	5	7	0	0	2
Financial intermediation	c28	3	2	1	0	0	0
Real estate activities	c29	24	6	5	0	0	2
Renting of M&Eq and other business activities	c30	12	3	3	0	0	1
Public administration and defense; compulsory social security	c31	–	–	0	0	0	0
Education	c32	1	0	0	0	0	0
Health and social work	c33	1	1	0	0	0	0
Other community, social, and personal services	c34	1	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
1	0	0	0	4	1	0	1	–	575	0
0	–	0	0	1	2	0	4	–	11	0
3	1	2	1	21	13	6	3	–	302	0
1	0	1	0	1	0	3	1	–	61	0
0	0	0	0	0	0	0	0	–	6	0
0	0	0	0	0	0	0	0	–	1	0
1	0	0	0	2	1	1	3	–	5	0
4	0	1	1	0	0	0	0	–	18	0
2	0	1	0	0	0	0	0	–	9	0
0	0	0	0	0	0	0	0	–	3	0
0	0	0	0	0	0	0	1	–	12	0
2	0	1	1	2	1	0	2	–	27	0
4	0	0	0	1	0	0	1	–	8	0
1	0	0	0	0	0	0	0	–	2	0
2	0	0	0	0	0	0	1	–	5	0
–	0	–	–	–	0	–	0	–	5	0
3	0	10	5	14	15	6	7	–	76	–
0	0	4	2	0	3	1	6	–	172	–
0	0	0	0	0	0	0	0	–	5	0
3	0	1	1	4	3	2	2	–	120	0
12	1	5	3	16	10	7	6	–	453	0
1	0	1	0	7	4	2	1	–	104	–
7	0	3	1	12	1	1	3	–	123	0
0	0	0	0	0	0	0	0	–	1	0
0	0	0	0	1	0	0	0	–	6	0
2	0	1	0	4	0	0	1	–	38	0
8	0	3	1	13	1	1	3	–	132	0
1	212	1	0	0	0	–	1	–	19	–
6	0	12	6	17	0	1	2	–	91	–
3	0	6	3	8	0	1	1	–	44	–
0	–	0	0	–	–	–	–	–	0	–
0	0	0	0	0	3	0	0	–	51	–
0	0	1	0	0	0	1	1	–	36	–
0	0	1	0	0	1	1	2	–	84	62
–	–	–	–	–	–	–	–	–	–	–

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Table A5.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	6	12	(27)	714	2,503
Mining and quarrying	c2	0	6	(1)	4	53
Food, beverages, and tobacco	c3	–	18	2	25	524
Textiles and textile products	c4	–	0	(1)	39	153
Leather, leather products, and footwear	c5	–	0	(0)	4	16
Wood and products of wood and cork	c6	0	0	(0)	0	5
Pulp, paper, paper products, printing, and publishing	c7	0	0	(0)	1	36
Coke, refined petroleum, and nuclear fuel	c8	–	0	0	13	70
Chemicals and chemical products	c9	–	0	0	6	32
Rubber and plastics	c10	–	10	0	1	30
Other nonmetallic minerals	c11	–	38	0	4	110
Basic metals and fabricated metal	c12	–	1	14	626	1,468
Machinery, nec	c13	–	0	(0)	3	33
Electrical and optical equipment	c14	–	0	(0)	1	8
Transport equipment	c15	–	0	(0)	2	20
Manufacturing, nec; recycling	c16	–	0	5	1	13
Electricity, gas, and water supply	c17	0	49	(1)	39	315
Construction	c18	0	583	1	17	830
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	(0)	1	11
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	6	(0)	27	260
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	24	(0)	104	983
Hotels and restaurants	c22	–	7	(0)	0	170
Inland transport	c23	3	92	(6)	34	356
Water transport	c24	0	1	(0)	0	3
Air transport	c25	0	5	(0)	2	19
Other supporting and auxiliary transport activities; activities of travel agencies	c26	1	28	(2)	11	110
Post and telecommunications	c27	3	100	(7)	37	384
Financial intermediation	c28	–	5	(0)	0	251
Real estate activities	c29	25	35	4	0	249
Renting of M&Eq and other business activities	c30	12	17	2	0	122
Public administration and defense; compulsory social security	c31	336	63	(0)	59	457
Education	c32	222	18	0	0	296
Health and social work	c33	139	2	(0)	0	182
Other community, social, and personal services	c34	48	2	(1)	0	204
Private households with employed persons	c35	–	–	–	–	–

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Table A5.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	386	0	13	4	0	0	0
Mining and quarrying	m2	0	1	6	0	0	0	0
Food, beverages, and tobacco	m3	0	0	45	0	0	0	0
Textiles and textile products	m4	0	0	3	36	4	0	0
Leather, leather products, and footwear	m5	0	0	0	4	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	2	2	2	0	0	3
Coke, refined petroleum, and nuclear fuel	m8	0	5	25	4	0	0	3
Chemicals and chemical products	m9	0	2	10	2	0	0	1
Rubber and plastics	m10	0	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	0	1	0	0	0	0
Basic metals and fabricated metal	m12	0	0	1	0	0	0	0
Machinery, nec	m13	0	1	5	1	0	0	1
Electrical and optical equipment	m14	0	0	1	0	0	0	0
Transport equipment	m15	0	1	3	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	0	1	0	0	1
Electricity, gas, and water supply	m17	0	0	3	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	5	0	0	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	1	0	0	0	0
Post and telecommunications	m27	1	0	6	0	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	1	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	–
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	1,657	22	405	124	13	3	22
Taxes less subsidies on products	r99	30	1	7	2	0	0	1
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	817	30	112	27	3	2	14
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	2,503	53	524	153	16	5	36

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Table A5.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	1	0	0
Mining and quarrying	m2	1	0	0	2	3	1	0
Food, beverages, and tobacco	m3	0	0	0	1	4	0	0
Textiles and textile products	m4	3	1	0	0	9	0	0
Leather, leather products, and footwear	m5	0	0	0	0	1	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	1	1	0	2	2	0	0
Coke, refined petroleum, and nuclear fuel	m8	19	9	2	8	38	2	0
Chemicals and chemical products	m9	7	3	1	3	14	1	0
Rubber and plastics	m10	0	0	0	1	0	0	0
Other nonmetallic minerals	m11	0	0	1	4	0	0	0
Basic metals and fabricated metal	m12	0	0	0	1	67	0	0
Machinery, nec	m13	1	0	1	2	4	3	1
Electrical and optical equipment	m14	0	0	0	0	1	1	0
Transport equipment	m15	1	0	0	1	2	2	0
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	0	0	0	0	2	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	1	3	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	1	0	0
Post and telecommunications	m27	0	0	0	1	4	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	1	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	–	–	–	0	0	–
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	–	–	–	0	0	–
Total intermediate consumption	r60	53	25	21	76	876	19	4
Taxes less subsidies on products	r99	1	0	1	4	42	1	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	15	7	8	31	550	13	3
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	70	32	30	110	1,468	33	8

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Table A5.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	0	0	1	0	3	11	1	0	0	0	0
0	0	13	1	0	1	3	0	0	0	0	0
0	0	1	5	0	4	14	11	2	0	0	1
0	0	1	2	0	1	4	3	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	1	0	0	0	0	0
0	2	3	8	0	1	4	1	2	0	0	0
1	0	16	108	1	14	54	3	49	0	2	15
0	0	5	38	0	5	18	1	16	0	1	5
0	0	0	2	0	0	0	0	0	0	0	0
0	0	0	16	0	0	1	0	0	0	0	0
0	0	0	12	0	0	2	0	0	0	0	0
2	0	22	30	0	1	3	1	24	0	1	7
0	0	5	7	0	0	1	0	6	0	0	2
1	0	13	17	0	1	2	1	14	0	1	4
0	0	0	0	0	0	0	1	0	0	0	0
0	0	5	1	0	1	4	1	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	4	0	1	3	1	2	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	1	0	1	0	0	0
0	0	1	5	0	1	4	1	2	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	2	9	3	2	0	0	1
0	0	0	0	0	1	4	1	1	0	0	0
0	0	0	0	–	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
11	8	164	550	4	99	376	108	186	2	10	57
0	0	4	21	0	4	15	3	5	0	0	2
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
8	5	147	260	7	156	592	59	166	1	9	51
–	–	–	–	–	–	–	–	–	–	–	–
20	13	315	830	11	260	983	170	356	3	19	110

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Table A5.1 Import Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	1
Mining and quarrying	m2	0	0	0	0	2
Food, beverages, and tobacco	m3	2	1	1	1	13
Textiles and textile products	m4	1	0	1	1	2
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	2	0	1	0	4
Coke, refined petroleum, and nuclear fuel	m8	51	1	15	8	1
Chemicals and chemical products	m9	20	0	7	3	0
Rubber and plastics	m10	0	0	0	0	0
Other nonmetallic minerals	m11	0	0	0	0	0
Basic metals and fabricated metal	m12	0	0	0	0	0
Machinery, nec	m13	26	0	1	0	4
Electrical and optical equipment	m14	6	0	0	0	1
Transport equipment	m15	15	0	0	0	2
Manufacturing, nec; recycling	m16	0	0	0	0	0
Electricity, gas, and water supply	m17	1	0	2	1	3
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	2	0	1	0	4
Water transport	m24	0	0	0	0	0
Air transport	m25	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	0	0	0	1
Post and telecommunications	m27	2	0	1	0	4
Financial intermediation	m28	0	3	0	0	0
Real estate activities	m29	2	0	4	2	6
Renting of M&Eq and other business activities	m30	1	0	2	1	3
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	200	222	91	44	184
Taxes less subsidies on products	r99	5	1	6	3	11
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	178	28	152	74	262
International transport margins		–	–	–	–	–
Output at basic prices	r69	384	251	249	122	457

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Table A5.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
0	0	0	–	195	0	2	4	(4)	–	618
3	0	4	–	18	0	0	6	(1)	–	65
9	4	2	–	164	0	0	12	1	–	299
0	5	1	–	93	0	0	0	(1)	–	174
0	1	0	–	8	0	0	0	(0)	–	16
0	0	1	–	1	0	0	0	(0)	–	8
2	1	6	–	10	0	1	1	(0)	–	68
0	6	3	–	233	1	0	0	2	–	700
0	2	1	–	95	0	0	0	1	–	263
0	0	0	–	1	0	0	5	0	–	10
0	0	0	–	6	0	0	18	0	–	49
0	0	0	–	3	0	0	0	1	–	91
3	1	10	–	59	1	0	2	(1)	–	217
1	0	2	–	14	0	0	0	(0)	–	50
2	1	6	–	38	1	0	1	(0)	–	132
0	0	1	–	10	0	0	0	6	–	21
3	1	1	–	19	0	0	9	(0)	–	59
0	0	0	–	0	0	0	1	0	–	2
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	2	0	0	0	0	–	5
0	0	0	–	0	0	0	0	0	–	1
0	0	0	–	0	0	0	0	0	–	0
0	0	1	–	40	0	1	26	(1)	–	98
0	0	0	–	0	0	0	0	(0)	–	1
0	0	0	–	2	0	0	1	(0)	–	5
0	0	0	–	12	0	0	8	(0)	–	30
0	0	1	–	45	0	1	28	(1)	–	110
0	0	0	–	0	0	0	0	(0)	–	4
0	0	1	–	44	0	8	11	0	–	98
0	0	0	–	21	0	4	6	0	–	46
0	–	0	–	0	0	54	10	0	–	64
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	1	0	3	0	(0)	–	4
0	0	0	–	0	0	0	0	0	–	0
0	–	–	–	0	0	0	0	0	–	0
<b>88</b>	<b>61</b>	<b>95</b>	<b>–</b>	<b>3,742</b>	<b>67</b>	<b>869</b>	<b>1,274</b>	<b>(18)</b>	<b>1,774</b>	<b>13,588</b>
4	1	3	–	246	0	0	57	0	–	483
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
205	120	107	–	–	–	–	–	–	–	4,219
–	–	–	–	–	–	–	–	–	–	–
<b>296</b>	<b>182</b>	<b>204</b>	<b>–</b>	<b>3,988</b>	<b>67</b>	<b>869</b>	<b>1,331</b>	<b>(17)</b>	<b>1,774</b>	<b>18,289</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.



**Table A5.2: Kyrgyz Republic Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	1,378	0	115	17	2	0	0
Mining and quarrying	c2	0	5	3	0	0	0	0
Food, beverages, and tobacco	c3	7	0	60	1	0	0	0
Textiles and textile products	c4	0	0	0	3	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	0	0	1
Coke, refined petroleum, and nuclear fuel	c8	2	1	0	0	0	0	0
Chemicals and chemical products	c9	1	0	0	0	0	0	0
Rubber and plastics	c10	0	0	1	0	0	0	0
Other nonmetallic minerals	c11	0	0	3	0	0	0	0
Basic metals and fabricated metal	c12	5	1	1	1	0	0	0
Machinery, nec	c13	3	0	0	0	0	0	0
Electrical and optical equipment	c14	1	0	0	0	0	0	0
Transport equipment	c15	2	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	0	0	0	3	0	-	0
Electricity, gas, and water supply	c17	0	2	7	2	0	0	2
Construction	c18	0	0	2	1	0	-	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	8	1	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	85	1	20	2	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	324	5	77	10	1	0	1
Hotels and restaurants	c22	22	0	15	1	0	0	0
Inland transport	c23	24	3	9	4	0	0	1
Water transport	c24	0	0	0	0	0	0	0
Air transport	c25	1	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	7	1	3	1	0	0	0
Post and telecommunications	c27	11	2	10	3	0	0	0
Financial intermediation	c28	0	0	12	0	0	0	0
Real estate activities	c29	1	10	7	2	0	0	2
Renting of M&Eq and other business activities	c30	1	8	5	2	0	0	1
Public administration and defense; compulsory social security	c31	-	-	-	-	-	-	-
Education	c32	-	-	1	-	-	-	-
Health and social work	c33	0	0	0	0	0	-	0
Other community, social, and personal services	c34	0	1	1	0	0	0	0
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A5.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	0	0	0	0	-	-	-	-	-	0	-	1
8	4	2	7	14	1	0	1	1	22	14	0	0
2	1	0	2	1	0	0	0	0	1	34	0	5
1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	1	0	3	0	0
0	0	0	0	2	0	0	0	0	2	9	0	1
0	0	0	0	1	0	0	0	0	1	4	0	0
0	0	2	8	0	0	0	0	0	1	28	0	1
0	0	7	27	0	0	0	0	0	3	97	0	4
0	0	1	4	681	1	0	1	1	4	40	0	0
0	0	0	0	1	0	0	0	0	1	4	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	1	2	0	0
-	-	0	0	0	0	0	0	1	0	3	0	0
2	1	1	5	9	2	1	1	0	10	15	0	3
0	0	1	3	3	0	0	0	0	1	300	-	6
0	0	0	1	0	0	0	0	0	1	0	0	1
1	0	0	2	15	0	0	0	0	2	12	0	1
5	2	2	8	29	1	0	1	1	10	82	0	9
0	0	0	1	1	0	0	0	0	0	8	0	1
1	1	2	6	16	0	0	0	1	7	30	0	4
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	2	0	0
0	0	1	2	5	0	0	0	0	2	9	0	2
2	1	4	11	7	0	0	0	0	4	33	0	5
0	0	0	1	0	0	0	0	0	3	0	0	4
1	0	2	7	3	0	0	0	0	1	5	0	6
0	0	1	5	2	0	0	0	0	0	4	0	5
-	-	0	2	-	-	-	-	-	-	-	-	-
0	0	-	-	-	0	0	0	0	1	0	-	0
0	0	0	0	-	0	0	0	-	0	0	0	0
1	0	0	1	-	0	0	0	0	0	9	0	2
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A5.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	0	12	-	-	-	-
Mining and quarrying	c2	0	0	1	0	0	0
Food, beverages, and tobacco	c3	57	24	3	0	0	1
Textiles and textile products	c4	0	1	0	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	1	1	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8	7	0	5	0	0	2
Chemicals and chemical products	c9	3	0	2	0	0	1
Rubber and plastics	c10	4	0	1	0	0	0
Other nonmetallic minerals	c11	17	2	4	0	0	1
Basic metals and fabricated metal	c12	1	0	0	0	0	0
Machinery, nec	c13	1	0	1	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0
Transport equipment	c15	1	0	1	0	0	0
Manufacturing, nec; recycling	c16	0	0	0	0	0	0
Electricity, gas, and water supply	c17	5	7	1	0	0	0
Construction	c18	31	3	2	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	1	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	14	6	2	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	73	24	19	0	1	7
Hotels and restaurants	c22	15	7	1	0	0	0
Inland transport	c23	12	3	9	0	0	3
Water transport	c24	0	0	0	0	0	0
Air transport	c25	1	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	4	1	3	0	0	1
Post and telecommunications	c27	12	3	6	0	0	2
Financial intermediation	c28	4	5	8	0	0	3
Real estate activities	c29	9	7	10	0	1	3
Renting of M&Eq and other business activities	c30	7	5	8	0	0	2
Public administration and defense; compulsory social security	c31	-	0	0	0	0	0
Education	c32	1	0	0	0	0	0
Health and social work	c33	0	0	0	0	0	0
Other community, social, and personal services	c34	3	5	1	0	0	0
Private households with employed persons	c35	-	-	-	-	-	-

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Table A5.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
-	-	0	0	21	11	12	0	-	1,088	0
1	-	0	0	2	6	0	0	-	25	-
4	0	5	4	21	10	6	2	-	323	0
0	0	0	0	1	0	1	0	-	85	0
0	0	0	0	0	0	0	0	-	9	0
0	0	0	0	0	0	0	0	-	2	0
0	0	0	0	0	1	0	1	-	16	0
2	0	0	0	1	0	0	0	-	30	1
1	0	0	0	0	0	0	0	-	14	0
1	0	1	1	0	0	0	0	-	13	0
3	0	3	2	0	0	0	0	-	50	0
1	0	0	0	0	0	0	1	-	13	0
2	0	0	0	0	0	0	0	-	13	0
1	0	0	0	0	0	0	0	-	3	0
1	0	0	0	0	0	0	0	-	7	0
0	0	0	0	0	0	0	2	-	10	0
2	1	2	2	7	8	7	3	-	55	0
0	0	10	7	-	16	1	5	-	0	-
2	0	0	0	2	0	0	1	-	4	-
2	0	1	1	6	3	2	1	-	143	0
14	1	6	5	26	13	11	4	-	710	1
1	1	1	1	9	3	2	1	-	206	-
5	0	1	1	4	2	3	2	-	113	0
0	0	0	0	0	0	0	0	-	1	0
0	0	0	0	0	0	0	0	-	6	0
2	0	0	0	1	1	1	1	-	34	0
19	1	8	6	17	2	2	8	-	190	0
6	1,307	3	2	4	3	-	7	-	76	-
4	-	9	7	1	4	6	8	-	95	-
3	-	8	6	0	3	4	6	-	72	-
0	-	1	1	1	-	-	0	-	0	-
1	0	1	1	2	8	1	1	-	40	-
0	0	0	0	2	5	2	1	-	33	-
2	0	7	5	1	3	2	13	-	43	62
-	-	-	-	-	-	-	-	-	-	-

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Table A5.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	10	11	(6)	380	3,054
Mining and quarrying	c2	-	4	(0)	25	145
Food, beverages, and tobacco	c3	-	24	16	25	643
Textiles and textile products	c4	-	0	1	32	128
Leather, leather products, and footwear	c5	-	0	0	3	14
Wood and products of wood and cork	c6	-	0	0	1	4
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	10	39
Coke, refined petroleum, and nuclear fuel	c8	-	7	2	9	85
Chemicals and chemical products	c9	-	3	1	4	39
Rubber and plastics	c10	-	3	1	9	76
Other nonmetallic minerals	c11	-	13	4	40	280
Basic metals and fabricated metal	c12	-	0	9	961	1,728
Machinery, nec	c13	-	0	0	5	34
Electrical and optical equipment	c14	-	0	0	1	8
Transport equipment	c15	-	0	0	3	20
Manufacturing, nec; recycling	c16	-	1	4	2	28
Electricity, gas, and water supply	c17	1	68	(3)	126	359
Construction	c18	0	1,425	35	120	1,972
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	1	-	1	26
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1	8	4	35	372
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	24	3	174	1,687
Hotels and restaurants	c22	-	5	(0)	4	309
Inland transport	c23	1	48	0	179	495
Water transport	c24	0	0	0	2	5
Air transport	c25	0	2	0	9	26
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	15	0	54	151
Post and telecommunications	c27	0	66	(0)	81	518
Financial intermediation	c28	27	33	2	81	1,593
Real estate activities	c29	50	12	0	1	274
Renting of M&Eq and other business activities	c30	38	7	0	1	206
Public administration and defense; compulsory social security	c31	242	27	10	325	609
Education	c32	432	94	0	9	593
Health and social work	c33	278	10	0	0	333
Other community, social, and personal services	c34	48	19	(1)	0	230
Private households with employed persons	c35	-	-	-	-	-

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Table A5.2 Imports Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	61	0	5	1	0	0	0
Mining and quarrying	m2	0	3	1	0	0	0	0
Food, beverages, and tobacco	m3	7	0	56	1	0	0	0
Textiles and textile products	m4	0	0	1	8	1	0	0
Leather, leather products, and footwear	m5	0	0	0	1	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	2
Pulp, paper, paper products, printing, and publishing	m7	0	0	2	0	0	1	6
Coke, refined petroleum, and nuclear fuel	m8	22	10	2	1	0	0	2
Chemicals and chemical products	m9	10	4	1	0	0	0	1
Rubber and plastics	m10	0	0	1	0	0	0	0
Other nonmetallic minerals	m11	0	0	2	0	0	0	0
Basic metals and fabricated metal	m12	4	1	1	1	0	0	0
Machinery, nec	m13	57	3	4	0	0	0	1
Electrical and optical equipment	m14	14	1	1	0	0	0	0
Transport equipment	m15	34	2	2	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	1	8	1	0	0
Electricity, gas, and water supply	m17	0	0	2	0	0	0	1
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	23	4	9	4	0	0	1
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	1	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	7	1	3	1	0	0	0
Post and telecommunications	m27	4	1	3	1	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	-	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	-	0	-
Total intermediate consumption	r60	2,131	72	454	84	9	2	26
Taxes less subsidies on products	r99	15	3	15	3	0	0	1
Cif/ fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	908	71	174	41	4	2	13
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	3,054	145	643	128	14	4	39

*continued on next page*

Table A5.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0	0	0
Mining and quarrying	m2	7	3	1	4	2	0	0
Food, beverages, and tobacco	m3	2	1	0	2	0	0	0
Textiles and textile products	m4	2	1	0	1	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	1	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	1	0	1	2	2	0	0
Coke, refined petroleum, and nuclear fuel	m8	4	2	0	2	5	1	0
Chemicals and chemical products	m9	2	1	0	1	2	0	0
Rubber and plastics	m10	0	0	2	6	0	0	0
Other nonmetallic minerals	m11	0	0	4	18	0	0	0
Basic metals and fabricated metal	m12	0	0	1	4	211	1	0
Machinery, nec	m13	1	0	2	6	5	3	1
Electrical and optical equipment	m14	0	0	0	1	1	1	0
Transport equipment	m15	0	0	1	4	3	2	0
Manufacturing, nec; recycling	m16	0	0	0	1	0	0	0
Electricity, gas, and water supply	m17	1	0	0	1	1	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	2	1	2	7	5	0	0
Water transport	m24	0	0	0	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	1	2	2	0	0
Post and telecommunications	m27	1	0	2	5	1	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	1	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	-	-	-	0	0	-
Total intermediate consumption	r60	52	24	47	171	1,034	18	4
Taxes less subsidies on products	r99	3	1	2	9	26	1	0
Cif/ fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	30	14	27	100	669	15	4
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	85	39	76	280	1,728	34	8

*continued on next page*

Table A5.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
Imports											
0	0	0	0	0	0	0	1	0	0	0	0
0	1	12	9	0	0	0	0	0	0	0	0
0	0	1	41	0	5	61	23	4	0	0	1
0	1	0	0	0	0	1	3	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	4	0	1	1	1	0	0	0	0
0	4	1	15	0	3	8	4	0	0	0	0
0	0	15	87	1	10	75	0	57	0	2	17
0	0	6	34	1	4	32	0	20	0	1	6
0	0	1	22	0	1	4	0	1	0	0	0
0	0	2	63	0	3	12	1	3	0	0	1
1	0	3	40	0	0	1	0	0	0	0	0
2	0	27	89	0	8	44	8	36	0	2	10
0	0	7	21	0	2	10	2	10	0	0	3
1	0	18	53	0	5	26	5	24	0	1	7
0	2	0	9	0	1	2	1	1	0	0	0
0	0	2	4	0	1	2	2	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	1	7	36	0	5	17	3	13	0	0	4
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	2	0	0	1	0	1	0	0	0
0	0	2	11	0	2	5	1	4	0	0	1
0	0	1	16	0	2	6	1	4	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
10	17	188	1,305	6	118	594	174	272	3	14	82
0	1	13	60	1	7	41	8	15	0	1	4
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
9	10	158	607	20	247	1,051	126	208	2	11	64
-	-	-	-	-	-	-	-	-	-	-	-
20	28	359	1,972	26	372	1,687	309	495	5	26	151

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Table A5.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	1
Mining and quarrying	m2	0	0	0	0	1
Food, beverages, and tobacco	m3	4	1	5	4	20
Textiles and textile products	m4	0	0	0	0	2
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	1	1	0	0	2
Coke, refined petroleum, and nuclear fuel	m8	23	1	4	3	7
Chemicals and chemical products	m9	10	0	2	1	2
Rubber and plastics	m10	1	0	1	0	0
Other nonmetallic minerals	m11	2	0	2	1	0
Basic metals and fabricated metal	m12	1	0	0	0	0
Machinery, nec	m13	55	1	5	4	8
Electrical and optical equipment	m14	14	0	1	1	2
Transport equipment	m15	32	1	3	2	5
Manufacturing, nec; recycling	m16	1	0	0	0	0
Electricity, gas, and water supply	m17	0	1	0	0	2
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	5	1	1	1	4
Water transport	m24	0	0	0	0	0
Air transport	m25	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	2	0	0	0	1
Post and telecommunications	m27	6	1	3	3	7
Financial intermediation	m28	0	39	0	0	0
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	1
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	-	0
Total intermediate consumption	r60	237	1,358	99	76	198
Taxes less subsidies on products	r99	16	21	7	3	9
Cif/ fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	265	214	168	126	402
International transport margins		-	-	-	-	-
Output at basic prices	r69	518	1,593	274	206	609

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Table A5.2 Imports Industry *continued*

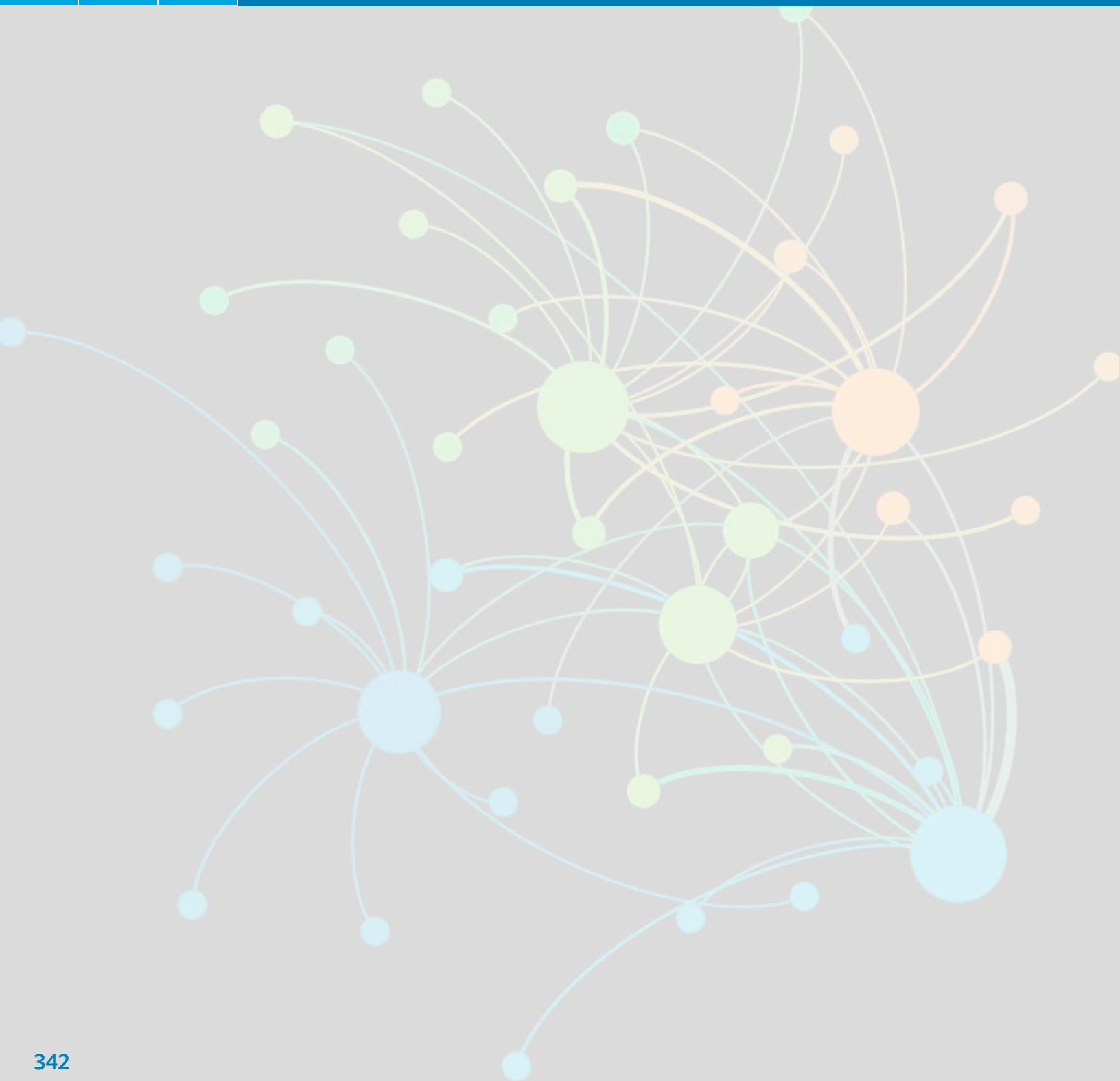
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
1	1	0	-	49	0	1	0	(0)	-	119
5	0	0	-	15	-	-	2	(0)	-	68
9	5	2	-	308	1	0	21	22	-	610
1	1	1	-	254	1	0	0	5	-	287
0	0	0	-	26	0	-	0	0	-	30
0	0	1	-	26	0	0	0	0	-	39
3	1	3	-	92	0	1	0	2	-	157
0	4	2	-	341	8	0	81	43	-	835
0	1	1	-	134	3	0	39	21	-	341
0	0	0	-	11	0	0	3	2	-	56
0	0	0	-	36	0	0	12	6	-	170
0	0	1	-	14	0	0	0	13	-	300
4	2	10	-	253	1	0	3	1	-	656
1	1	2	-	62	0	0	1	0	-	161
2	1	6	-	193	1	0	3	1	-	440
1	0	4	-	28	0	0	2	15	-	80
2	2	1	-	14	0	0	13	(1)	-	54
0	0	0	-	0	0	0	3	0	-	5
0	0	0	-	0	0	0	0	0	-	1
0	0	0	-	5	0	0	0	0	-	12
0	0	0	-	0	0	0	0	0	-	2
0	0	0	-	0	0	0	0	0	-	0
2	3	3	-	129	0	1	46	0	-	343
0	0	0	-	1	0	0	0	1	-	4
0	0	0	-	7	0	0	2	0	-	18
1	1	1	-	38	0	0	13	0	-	101
1	1	4	-	79	0	0	20	(0)	-	174
0	0	0	-	1	0	0	0	0	-	43
0	0	0	-	0	0	0	0	0	-	2
0	0	0	-	0	0	0	0	0	-	1
0	0	0	-	0	0	156	12	7	-	177
0	0	0	-	0	0	0	0	0	-	0
0	0	0	-	1	0	13	0	0	-	15
0	0	0	-	0	0	0	0	0	-	0
0	-	-	-	0	0	0	0	0	-	0
<b>138</b>	<b>90</b>	<b>110</b>	<b>-</b>	<b>5,641</b>	<b>82</b>	<b>1,302</b>	<b>2,211</b>	<b>218</b>	<b>2,713</b>	<b>21,385</b>
5	3	4	-	545	2	18	133	7	-	1,004
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
450	240	116	-	-	-	-	-	-	-	6,568
-	-	-	-	-	-	-	-	-	-	-
<b>593</b>	<b>333</b>	<b>230</b>	<b>-</b>	<b>6,186</b>	<b>84</b>	<b>1,320</b>	<b>2,344</b>	<b>226</b>	<b>2,713</b>	<b>28,957</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

# A6

## APPENDIX 6: INPUT-OUTPUT TABLES FOR 2010 AND 2017—MALDIVES



**Table A6.1: Maldives Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	102	–	2	0	–	0	0
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	0	–	0	0	–	0	0
Textiles and textile products	c4	0	–	–	4	–	–	–
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	0	–	0	0	–	0	0
Pulp, paper, paper products, printing, and publishing	c7	0	–	0	0	–	0	0
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–	–	–
Chemicals and chemical products	c9	–	–	–	–	–	–	–
Rubber and plastics	c10	–	–	–	–	–	–	–
Other nonmetallic minerals	c11	0	–	1	0	–	0	0
Basic metals and fabricated metal	c12	0	–	–	–	–	–	–
Machinery, nec	c13	–	–	–	–	–	–	–
Electrical and optical equipment	c14	–	–	–	–	–	–	–
Transport equipment	c15	0	–	0	0	–	0	0
Manufacturing, nec; recycling	c16	1	–	0	0	–	0	0
Electricity, gas, and water supply	c17	18	–	3	0	–	0	0
Construction	c18	8	–	0	0	–	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	–	0	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	23	–	1	2	–	1	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	16	–	1	1	–	0	0
Hotels and restaurants	c22	0	–	0	0	–	0	0
Inland transport	c23	1	–	0	0	–	0	0
Water transport	c24	3	–	0	0	–	0	0
Air transport	c25	5	–	0	0	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	–	0	0	–	0	0
Post and telecommunications	c27	6	–	0	0	–	0	0
Financial intermediation	c28	3	–	0	0	–	0	0
Real estate activities	c29	2	–	1	0	–	1	1
Renting of M&Eq and other business activities	c30	3	–	0	0	–	0	0
Public administration and defense; compulsory social security	c31	1	–	0	0	–	0	0
Education	c32	0	–	0	0	–	0	0
Health and social work	c33	0	–	0	0	–	0	0
Other community, social, and personal services	c34	0	–	0	0	–	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A6.1 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	-	-	-	0	0	-	-
Mining and quarrying	c2	-	-	-	-	-	-	-
Food, beverages, and tobacco	c3	-	-	-	0	0	-	-
Textiles and textile products	c4	-	-	-	0	-	-	-
Leather, leather products, and footwear	c5	-	-	-	-	-	-	-
Wood and products of wood and cork	c6	-	-	-	0	0	-	-
Pulp, paper, paper products, printing, and publishing	c7	-	-	-	0	0	-	-
Coke, refined petroleum, and nuclear fuel	c8	-	-	-	-	-	-	-
Chemicals and chemical products	c9	-	-	-	-	-	-	-
Rubber and plastics	c10	-	-	-	-	-	-	-
Other nonmetallic minerals	c11	-	-	-	1	0	-	-
Basic metals and fabricated metal	c12	-	-	-	-	0	-	-
Machinery, nec	c13	-	-	-	-	-	-	-
Electrical and optical equipment	c14	-	-	-	-	-	-	-
Transport equipment	c15	-	-	-	0	0	-	-
Manufacturing, nec; recycling	c16	-	-	-	0	0	-	-
Electricity, gas, and water supply	c17	-	-	-	0	0	-	-
Construction	c18	-	-	-	0	0	-	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	-	-	0	0	-	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	-	-	0	0	-	-
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	-	-	0	0	-	-
Hotels and restaurants	c22	-	-	-	0	0	-	-
Inland transport	c23	-	-	-	0	0	-	-
Water transport	c24	-	-	-	0	0	-	-
Air transport	c25	-	-	-	0	0	-	-
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	-	0	0	-	-
Post and telecommunications	c27	-	-	-	0	0	-	-
Financial intermediation	c28	-	-	-	0	0	-	-
Real estate activities	c29	-	-	-	0	0	-	-
Renting of M&Eq and other business activities	c30	-	-	-	0	0	-	-
Public administration and defense; compulsory social security	c31	-	-	-	0	0	-	-
Education	c32	-	-	-	0	0	-	-
Health and social work	c33	-	-	-	0	0	-	-
Other community, social, and personal services	c34	-	-	-	0	0	-	-
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A6.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	0	0	0	0	0	0	239	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	14	0	0	0	0
-	0	-	0	-	-	-	17	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	6	0	0	0	4	0	0	0	0
0	0	0	6	0	0	0	4	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	9	0	0	0	1	0	0	0	0
-	-	0	0	0	0	0	1	-	-	-	0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	1	0	1	1	1	0	0	0	0
0	0	1	1	0	0	0	1	0	0	1	0
0	0	14	12	0	6	4	17	1	6	9	2
0	0	1	41	1	15	9	61	0	0	1	0
0	0	1	1	0	0	0	3	0	0	0	0
1	0	14	23	0	3	2	57	2	7	10	2
1	0	10	16	0	2	1	40	1	5	7	2
0	0	0	0	0	8	5	10	0	1	2	0
0	0	0	3	0	1	0	8	0	0	0	0
0	0	2	10	0	3	2	32	0	1	2	0
0	0	3	16	0	4	3	49	0	2	3	0
0	0	0	0	0	2	1	8	1	4	6	0
0	0	1	9	0	9	6	31	1	6	8	0
0	0	1	5	0	9	5	44	0	1	2	0
0	0	0	2	2	46	29	9	0	0	1	1
0	0	3	5	0	5	3	55	1	5	8	0
0	0	0	1	0	2	2	2	0	0	0	0
0	0	0	2	0	1	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	3	0	1	1	0
-	-	-	-	-	-	-	-	-	-	-	-

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Table A6.1 Domestic Industry *continued*

			Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry			c27	c28	c29	c30	c31
Domestic							
Agriculture, hunting, forestry, and fishing	c1		0	0	0	1	0
Mining and quarrying	c2		-	-	-	-	-
Food, beverages, and tobacco	c3		0	0	0	0	0
Textiles and textile products	c4		0	0	0	-	0
Leather, leather products, and footwear	c5		-	-	-	-	-
Wood and products of wood and cork	c6		0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	c7		0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	c8		-	-	-	-	-
Chemicals and chemical products	c9		-	-	-	-	-
Rubber and plastics	c10		-	-	-	-	-
Other nonmetallic minerals	c11		0	0	1	0	0
Basic metals and fabricated metal	c12		0	-	0	-	0
Machinery, nec	c13		-	-	-	-	-
Electrical and optical equipment	c14		-	-	-	-	-
Transport equipment	c15		0	-	0	0	0
Manufacturing, nec; recycling	c16		0	0	0	0	0
Electricity, gas, and water supply	c17		3	1	0	1	3
Construction	c18		1	5	36	1	4
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19		0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20		0	0	1	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21		0	0	1	0	1
Hotels and restaurants	c22		0	0	0	1	5
Inland transport	c23		0	0	0	0	0
Water transport	c24		0	0	0	0	1
Air transport	c25		0	0	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26		0	0	0	0	0
Post and telecommunications	c27		35	1	1	5	2
Financial intermediation	c28		0	5	1	2	4
Real estate activities	c29		1	0	0	9	1
Renting of M&Eq and other business activities	c30		20	1	2	6	2
Public administration and defense; compulsory social security	c31		4	0	0	0	1
Education	c32		0	2	0	0	7
Health and social work	c33		0	0	0	0	0
Other community, social, and personal services	c34		1	0	0	0	1
Private households with employed persons	c35		-	-	-	-	-

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Table A6.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
0	0	0	–	118	0	–	0	7	20	<b>489</b>
–	–	–	–	–	–	–	–	–	–	–
0	0	0	–	11	0	–	0	4	12	<b>42</b>
0	0	0	–	11	–	–	–	(6)	0	<b>26</b>
–	–	–	–	–	–	–	–	–	–	–
0	0	0	–	1	0	–	0	(5)	0	<b>9</b>
0	0	0	–	1	0	–	0	(4)	0	<b>9</b>
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
0	0	0	–	2	0	–	–	(4)	0	<b>11</b>
0	0	0	–	1	–	–	5	(2)	0	<b>5</b>
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
0	0	0	–	4	–	–	13	(10)	1	<b>12</b>
0	0	0	–	1	0	–	0	0	1	<b>8</b>
2	5	3	–	23	0	–	25	5	15	<b>182</b>
2	1	0	–	30	0	–	265	(40)	1	<b>444</b>
0	0	0	–	2	0	–	2	(2)	1	<b>10</b>
0	2	3	–	34	1	–	40	(2)	18	<b>247</b>
0	2	2	–	25	1	–	28	(22)	15	<b>157</b>
0	1	1	–	50	0	–	0	94	1,399	<b>1,580</b>
0	0	0	–	5	0	–	1	3	11	<b>35</b>
0	1	1	–	20	0	–	5	13	120	<b>218</b>
0	1	2	–	31	0	–	7	19	36	<b>184</b>
0	0	0	–	3	3	–	0	23	54	<b>105</b>
1	1	3	–	39	6	–	27	(0)	51	<b>250</b>
0	0	0	–	41	0	–	–	(20)	0	<b>107</b>
1	1	6	–	157	0	–	–	0	0	<b>270</b>
2	1	2	–	6	5	–	0	0	3	<b>141</b>
0	0	0	–	1	264	–	0	(0)	4	<b>285</b>
4	0	0	–	21	90	–	0	(0)	0	<b>129</b>
0	1	0	–	22	94	–	0	(0)	0	<b>118</b>
0	0	0	–	28	3	–	0	19	27	<b>87</b>
–	–	–	–	–	–	–	–	–	–	–

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Table A6.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	29	–	1	0	–	0	0
Mining and quarrying	m2	–	–	–	–	–	–	–
Food, beverages, and tobacco	m3	6	–	1	0	–	0	0
Textiles and textile products	m4	1	–	0	2	–	0	0
Leather, leather products, and footwear	m5	0	–	0	0	–	–	0
Wood and products of wood and cork	m6	0	–	0	0	–	0	1
Pulp, paper, paper products, printing, and publishing	m7	0	–	0	0	–	0	1
Coke, refined petroleum, and nuclear fuel	m8	19	–	1	1	–	0	0
Chemicals and chemical products	m9	2	–	0	0	–	0	0
Rubber and plastics	m10	0	–	0	0	–	0	0
Other nonmetallic minerals	m11	0	–	2	0	–	0	0
Basic metals and fabricated metal	m12	3	–	0	0	–	0	0
Machinery, nec	m13	1	–	0	0	–	0	0
Electrical and optical equipment	m14	0	–	0	0	–	0	0
Transport equipment	m15	1	–	0	0	–	0	0
Manufacturing, nec; recycling	m16	40	–	2	0	–	0	0
Electricity, gas, and water supply	m17	15	–	2	0	–	0	0
Construction	m18	1	–	0	0	–	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	–	0	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	12	–	2	0	–	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	–	0	0	–	0	0
Hotels and restaurants	m22	0	–	0	0	–	0	0
Inland transport	m23	0	–	0	0	–	0	0
Water transport	m24	4	–	0	0	–	0	0
Air transport	m25	1	–	0	0	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	–	0	0	–	0	0
Post and telecommunications	m27	1	–	0	0	–	0	0
Financial intermediation	m28	4	–	0	0	–	0	0
Real estate activities	m29	0	–	0	0	–	0	0
Renting of M&Eq and other business activities	m30	2	–	0	0	–	0	0
Public administration and defense; compulsory social security	m31	0	–	0	0	–	0	0
Education	m32	0	–	0	0	–	0	0
Health and social work	m33	0	–	0	0	–	0	0
Other community, social, and personal services	m34	0	–	0	0	–	0	0
Private households with employed persons	m35	0	–	0	0	–	0	–
Total intermediate consumption	r60	340	–	21	13	–	5	5
Taxes less subsidies on products	r99	3	–	(0)	0	–	0	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	146	–	21	13	–	4	4
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	489	–	42	26	–	9	9

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Table A6.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	48	0	0	0	0
Mining and quarrying	m2	–	–	–	–	–	–
Food, beverages, and tobacco	m3	0	12	0	0	0	0
Textiles and textile products	m4	0	8	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	4	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	4	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	2	1	3	3	1
Chemicals and chemical products	m9	0	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	2	0	0	0	0
Basic metals and fabricated metal	m12	0	9	0	0	0	3
Machinery, nec	m13	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0
Transport equipment	m15	2	2	0	1	1	0
Manufacturing, nec; recycling	m16	0	25	5	21	25	6
Electricity, gas, and water supply	m17	3	10	2	8	9	3
Construction	m18	1	4	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	6	4	2	10	6	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	1	0	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	0	1	0	0	0	0
Water transport	m24	0	2	1	78	0	13
Air transport	m25	0	3	0	0	4	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	2	1	4	2	4
Post and telecommunications	m27	0	1	0	0	1	1
Financial intermediation	m28	1	5	1	3	1	2
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	2	22	1	5	5	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	93	883	25	176	120	48
Taxes less subsidies on products	r99	(0)	21	0	1	2	0
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	64	677	10	41	62	57
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	157	1,580	35	218	184	105

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Table A6.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	0	0	0	0	0	0	–	35	0
–	0	–	–	–	–	–	–	–	–	–
0	0	0	0	0	0	0	0	–	10	0
0	0	0	0	0	0	0	0	–	7	0
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	2	0
0	0	0	0	0	0	0	0	–	2	0
1	0	0	0	1	2	0	0	–	24	0
0	0	0	0	0	0	1	0	–	1	–
0	1	0	0	0	0	0	0	–	0	0
0	0	1	0	0	0	0	0	–	3	0
1	0	2	0	0	0	1	0	–	15	0
1	0	0	0	0	0	0	0	–	4	0
0	0	0	0	0	0	0	1	–	2	0
0	0	0	0	0	0	0	0	–	19	0
1	0	0	0	1	0	5	9	–	38	0
4	1	0	1	2	2	6	4	–	20	0
0	0	5	0	0	0	0	0	–	4	0
0	0	0	0	0	0	0	0	–	0	0
15	0	3	0	1	0	1	1	–	15	1
0	0	0	0	0	0	0	0	–	3	0
0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	–	1	0
4	0	0	0	3	0	0	0	–	2	0
1	0	0	0	1	0	0	0	–	17	0
2	0	0	0	1	0	0	0	–	2	1
3	0	0	0	0	0	0	0	–	2	1
5	1	0	0	0	1	0	0	–	6	0
0	0	0	0	0	0	0	0	–	0	0
18	0	2	5	1	1	1	2	–	3	5
1	0	0	0	0	0	0	0	–	0	108
0	0	0	0	1	0	0	0	–	5	32
0	0	0	0	0	0	0	0	–	5	37
0	0	0	0	0	0	0	0	–	1	0
0	0	0	–	0	0	–	–	–	0	–
<b>124</b>	<b>23</b>	<b>61</b>	<b>35</b>	<b>49</b>	<b>23</b>	<b>35</b>	<b>43</b>	<b>–</b>	<b>937</b>	<b>654</b>
(0)	(0)	1	(0)	(0)	(0)	(0)	1	–	19	(0)
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
127	85	209	106	236	106	83	43	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>250</b>	<b>107</b>	<b>270</b>	<b>141</b>	<b>285</b>	<b>129</b>	<b>118</b>	<b>87</b>	<b>–</b>	<b>956</b>	<b>654</b>

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Table A6.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	–	0	(2)	–	111
Mining and quarrying	m2	–	–	–	–	0
Food, beverages, and tobacco	m3	–	0	5	–	35
Textiles and textile products	m4	–	0	(5)	–	14
Leather, leather products, and footwear	m5	–	0	0	–	0
Wood and products of wood and cork	m6	–	0	(7)	–	12
Pulp, paper, paper products, printing, and publishing	m7	–	0	(7)	–	12
Coke, refined petroleum, and nuclear fuel	m8	–	2	0	–	83
Chemicals and chemical products	m9	–	0	0	–	6
Rubber and plastics	m10	–	0	0	–	1
Other nonmetallic minerals	m11	–	0	(9)	–	21
Basic metals and fabricated metal	m12	–	97	(48)	–	103
Machinery, nec	m13	–	22	0	–	31
Electrical and optical equipment	m14	–	20	2	–	27
Transport equipment	m15	–	58	(36)	–	56
Manufacturing, nec; recycling	m16	–	2	12	–	265
Electricity, gas, and water supply	m17	–	24	6	–	154
Construction	m18	–	49	(8)	–	67
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	–	0	(0)	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	–	7	1	–	112
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	–	2	(2)	–	8
Hotels and restaurants	m22	–	0	1	–	2
Inland transport	m23	–	0	0	–	3
Water transport	m24	–	1	1	–	113
Air transport	m25	–	1	2	–	34
Other supporting and auxiliary transport activities; activities of travel agencies	m26	–	1	9	–	31
Post and telecommunications	m27	–	2	(0)	–	14
Financial intermediation	m28	–	5	0	–	43
Real estate activities	m29	–	0	0	–	1
Renting of M&Eq and other business activities	m30	–	1	0	–	85
Public administration and defense; compulsory social security	m31	–	0	(0)	–	113
Education	m32	–	0	(0)	–	40
Health and social work	m33	–	0	0	–	43
Other community, social, and personal services	m34	–	0	1	–	2
Private households with employed persons	m35	–	0	0	–	0
Total intermediate consumption	r60	–	710	(12)	1,790	6,802
Taxes less subsidies on products	r99	–	26	0	–	80
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	2,401
International transport margins		–	–	–	–	–
Output at basic prices	r69	–	736	(12)	1,790	9,283

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A6.2: Maldives Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	6	–	126	–	–	0	–
Mining and quarrying	c2	–	–	–	–	–	–	–
Food, beverages, and tobacco	c3	6	–	5	0	–	0	0
Textiles and textile products	c4	1	–	–	6	–	–	–
Leather, leather products, and footwear	c5	–	–	–	–	–	–	–
Wood and products of wood and cork	c6	0	–	–	–	–	0	–
Pulp, paper, paper products, printing, and publishing	c7	0	–	0	0	–	0	1
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–	–	–
Chemicals and chemical products	c9	–	–	–	–	–	–	–
Rubber and plastics	c10	–	–	–	–	–	–	–
Other nonmetallic minerals	c11	0	–	2	0	–	0	0
Basic metals and fabricated metal	c12	0	–	0	–	–	–	–
Machinery, nec	c13	–	–	–	–	–	–	–
Electrical and optical equipment	c14	–	–	–	–	–	–	–
Transport equipment	c15	0	–	0	0	–	0	0
Manufacturing, nec; recycling	c16	0	–	0	0	–	0	0
Electricity, gas, and water supply	c17	2	–	21	1	–	1	0
Construction	c18	7	–	42	1	–	1	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	–	0	0	–	0	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	18	–	15	2	–	1	–
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	4	–	0	0	–	0	–
Hotels and restaurants	c22	0	–	0	0	–	0	0
Inland transport	c23	0	–	0	0	–	–	0
Water transport	c24	9	–	7	1	–	0	0
Air transport	c25	0	–	3	0	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	–	1	0	–	0	0
Post and telecommunications	c27	8	–	5	0	–	0	0
Financial intermediation	c28	4	–	7	0	–	0	0
Real estate activities	c29	0	–	6	0	–	1	1
Renting of M&Eq and other business activities	c30	1	–	1	0	–	0	0
Public administration and defense; compulsory social security	c31	1	–	9	0	–	0	0
Education	c32	0	–	0	0	–	0	0
Health and social work	c33	0	–	0	0	–	0	0
Other community, social, and personal services	c34	0	–	0	0	–	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A6.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	-	-	-	-	-	-	-
Mining and quarrying	c2	-	-	-	-	-	-	-
Food, beverages, and tobacco	c3	-	-	-	0	0	-	-
Textiles and textile products	c4	-	-	-	0	-	-	-
Leather, leather products, and footwear	c5	-	-	-	-	-	-	-
Wood and products of wood and cork	c6	-	-	-	-	-	-	-
Pulp, paper, paper products, printing, and publishing	c7	-	-	-	0	0	-	-
Coke, refined petroleum, and nuclear fuel	c8	-	-	-	-	-	-	-
Chemicals and chemical products	c9	-	-	-	-	-	-	-
Rubber and plastics	c10	-	-	-	-	-	-	-
Other nonmetallic minerals	c11	-	-	-	1	0	-	-
Basic metals and fabricated metal	c12	-	-	-	-	0	-	-
Machinery, nec	c13	-	-	-	-	-	-	-
Electrical and optical equipment	c14	-	-	-	-	-	-	-
Transport equipment	c15	-	-	-	0	0	-	-
Manufacturing, nec; recycling	c16	-	-	-	0	0	-	-
Electricity, gas, and water supply	c17	-	-	-	0	0	-	-
Construction	c18	-	-	-	1	0	-	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	-	-	0	0	-	-
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	-	-	-	0	-	-
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	-	-	-	0	-	-
Hotels and restaurants	c22	-	-	-	0	0	-	-
Inland transport	c23	-	-	-	0	0	-	-
Water transport	c24	-	-	-	0	0	-	-
Air transport	c25	-	-	-	0	0	-	-
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	-	0	0	-	-
Post and telecommunications	c27	-	-	-	0	0	-	-
Financial intermediation	c28	-	-	-	0	0	-	-
Real estate activities	c29	-	-	-	0	0	-	-
Renting of M&Eq and other business activities	c30	-	-	-	0	0	-	-
Public administration and defense; compulsory social security	c31	-	-	-	0	0	-	-
Education	c32	-	-	-	0	0	-	-
Health and social work	c33	-	-	-	0	0	-	-
Other community, social, and personal services	c34	-	-	-	0	0	-	-
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A6.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
1	–	0	0	–	–	–	91	–	–	–	0
–	–	–	–	–	–	–	–	–	–	–	–
0	0	0	1	0	0	0	199	0	0	0	0
–	–	–	0	–	–	–	22	–	–	–	0
–	–	–	–	–	–	–	–	–	–	–	–
0	0	–	12	–	–	–	3	–	–	–	–
0	0	0	2	1	–	–	6	0	0	0	0
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
0	0	0	11	0	–	–	1	0	0	0	0
–	–	2	3	–	–	–	2	–	–	–	0
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
0	0	0	0	0	1	1	0	0	1	0	0
0	0	0	1	0	0	0	4	0	0	1	0
0	0	7	10	1	5	7	11	0	1	1	4
1	0	10	204	4	29	20	299	1	6	8	3
0	0	0	1	0	0	0	1	0	8	5	5
1	0	23	27	0	1	0	40	0	10	9	–
0	0	2	34	0	0	0	25	0	–	–	–
0	0	0	0	0	1	0	2	0	0	1	0
0	0	0	2	0	0	0	8	–	0	0	0
1	0	10	29	3	–	–	34	1	3	9	2
0	0	1	20	5	–	–	75	0	4	0	0
0	0	0	9	4	–	–	5	1	0	11	0
0	0	1	9	0	5	2	49	0	4	39	0
0	0	2	26	1	8	4	90	0	2	7	2
0	0	0	5	2	37	3	15	0	3	0	3
0	0	1	2	2	–	–	14	1	0	5	0
0	0	1	12	2	9	9	34	2	3	0	1
0	0	0	3	0	0	0	1	0	0	2	0
0	0	0	0	1	–	–	0	0	0	0	0
0	0	0	0	0	–	–	1	0	1	0	0
–	–	–	–	–	–	–	–	–	–	–	–

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Table A6.2 Domestic Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	–	–	0	–
Mining and quarrying	c2	–	–	–	–	–
Food, beverages, and tobacco	c3	0	0	0	0	0
Textiles and textile products	c4	0	0	0	–	0
Leather, leather products, and footwear	c5	–	–	–	–	–
Wood and products of wood and cork	c6	–	–	0	–	–
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	0	2
Coke, refined petroleum, and nuclear fuel	c8	–	–	–	–	–
Chemicals and chemical products	c9	–	–	–	–	–
Rubber and plastics	c10	–	–	–	–	–
Other nonmetallic minerals	c11	0	0	0	0	0
Basic metals and fabricated metal	c12	0	–	0	–	–
Machinery, nec	c13	–	–	–	–	–
Electrical and optical equipment	c14	–	–	–	–	–
Transport equipment	c15	0	–	0	0	0
Manufacturing, nec; recycling	c16	1	0	0	0	0
Electricity, gas, and water supply	c17	12	5	0	1	31
Construction	c18	5	14	49	2	61
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	0	0	–	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	0	0	0	–	0
Hotels and restaurants	c22	0	0	0	0	5
Inland transport	c23	0	0	0	0	1
Water transport	c24	0	0	0	0	1
Air transport	c25	0	1	0	0	5
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	0
Post and telecommunications	c27	55	1	0	3	8
Financial intermediation	c28	0	11	1	2	30
Real estate activities	c29	0	0	0	5	3
Renting of M&Eq and other business activities	c30	6	1	0	1	2
Public administration and defense; compulsory social security	c31	40	0	0	1	29
Education	c32	0	5	0	0	48
Health and social work	c33	0	0	0	0	6
Other community, social, and personal services	c34	1	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–

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Table A6.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
–	–	0	–	28	–	–	–	0	32	<b>285</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
0	0	0	–	104	–	0	0	5	92	<b>416</b>
0	0	0	–	13	–	–	–	1	0	<b>43</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	0	–	–	–	0	0	<b>16</b>
1	0	0	–	2	–	0	0	(0)	0	<b>15</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
0	0	0	–	1	–	0	–	0	1	<b>18</b>
–	–	–	–	0	–	–	0	0	0	<b>8</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>
0	0	0	–	6	–	–	6	(0)	3	<b>19</b>
0	0	0	–	3	–	0	0	0	2	<b>13</b>
6	11	1	–	59	–	0	0	5	6	<b>208</b>
7	6	2	–	226	–	1	420	0	57	<b>1,488</b>
0	2	3	–	6	–	0	0	0	1	<b>35</b>
0	–	–	–	6	–	0	9	0	17	<b>183</b>
0	–	–	–	31	–	0	1	0	8	<b>107</b>
0	0	0	–	11	–	0	0	(0)	2,603	<b>2,624</b>
0	0	0	–	3	–	–	–	–	15	<b>30</b>
0	1	1	–	18	–	0	4	0	52	<b>188</b>
0	1	1	–	33	–	0	0	–	124	<b>273</b>
0	0	0	–	2	–	0	0	0	86	<b>119</b>
1	1	6	–	46	–	0	0	(0)	83	<b>329</b>
1	1	1	–	2	–	0	–	(0)	16	<b>220</b>
1	1	6	–	165	–	0	–	(0)	0	<b>258</b>
0	0	1	–	4	–	0	0	0	6	<b>50</b>
3	4	1	–	12	–	667	–	0	38	<b>878</b>
5	0	0	–	69	–	28	0	(0)	0	<b>162</b>
0	3	0	–	85	–	58	–	0	1	<b>154</b>
0	0	0	–	6	–	0	0	(0)	67	<b>77</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A6.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	2	–	53	0	–	0	0
Mining and quarrying	m2	–	–	–	–	–	–	–
Food, beverages, and tobacco	m3	3	–	2	0	–	0	0
Textiles and textile products	m4	0	–	0	7	–	0	0
Leather, leather products, and footwear	m5	0	–	0	0	–	0	0
Wood and products of wood and cork	m6	0	–	0	0	–	2	0
Pulp, paper, paper products, printing, and publishing	m7	0	–	0	0	–	0	2
Coke, refined petroleum, and nuclear fuel	m8	5	–	1	0	–	0	0
Chemicals and chemical products	m9	1	–	0	0	–	0	0
Rubber and plastics	m10	0	–	0	0	–	0	0
Other nonmetallic minerals	m11	0	–	6	0	–	0	0
Basic metals and fabricated metal	m12	3	–	0	0	–	0	0
Machinery, nec	m13	0	–	0	0	–	0	0
Electrical and optical equipment	m14	0	–	0	0	–	0	0
Transport equipment	m15	0	–	0	0	–	0	0
Manufacturing, nec; recycling	m16	1	–	0	0	–	0	0
Electricity, gas, and water supply	m17	1	–	0	0	–	0	0
Construction	m18	0	–	1	0	–	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	1	–	0	0	–	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	65	–	8	0	–	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	11	–	1	0	–	0	0
Hotels and restaurants	m22	0	–	0	0	–	0	0
Inland transport	m23	0	–	0	0	–	0	0
Water transport	m24	0	–	1	0	–	0	0
Air transport	m25	0	–	0	0	–	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	–	0	0	–	0	0
Post and telecommunications	m27	1	–	0	0	–	0	0
Financial intermediation	m28	2	–	1	0	–	0	0
Real estate activities	m29	0	–	0	0	–	0	0
Renting of M&Eq and other business activities	m30	2	–	6	0	–	0	0
Public administration and defense; compulsory social security	m31	0	–	0	0	–	0	0
Education	m32	0	–	0	0	–	0	0
Health and social work	m33	0	–	0	0	–	0	0
Other community, social, and personal services	m34	0	–	0	0	–	0	0
Private households with employed persons	m35	0	–	0	0	–	0	–
Total intermediate consumption	r60	168	–	332	18	–	8	8
Taxes less subsidies on products	r99	5	–	(1)	1	–	0	(0)
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	112	–	85	24	–	8	7
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	285	–	416	43	–	16	15

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Table A6.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
-	-	-	0	0	-	-	1	0	0	0	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	0	-	-
-	-	-	0	0	-	-	2	0	0	84	0	0
-	-	-	0	0	-	-	0	0	0	5	1	0
-	-	-	0	0	-	-	0	0	8	13	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	4	0	-	-	0	0	0	70	0	0
-	-	-	0	2	-	-	0	0	9	36	0	0
-	-	-	0	0	-	-	0	0	0	1	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	1	0	0	2	0	1
-	-	-	0	0	-	-	0	0	0	3	0	0
-	-	-	0	0	-	-	0	0	1	3	0	0
-	-	-	0	0	-	-	0	0	0	21	0	0
-	-	-	0	0	-	-	0	0	1	3	0	0
-	-	-	0	0	-	-	0	0	75	72	1	3
-	-	-	0	0	-	-	0	0	6	88	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	1	0	0
-	-	-	0	0	-	-	0	0	1	2	0	0
-	-	-	0	0	-	-	0	0	0	7	0	0
-	-	-	0	0	-	-	0	0	0	1	0	0
-	-	-	0	0	-	-	0	0	1	3	0	1
-	-	-	0	0	-	-	0	0	2	10	0	1
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	5	14	3	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	0	0	0
-	-	-	0	0	-	-	0	0	0	3	0	0
-	-	-	-	0	-	-	0	0	0	0	0	0
-	-	-	8	4	-	-	9	4	172	865	32	104
-	-	-	0	0	-	-	1	0	0	20	(0)	(9)
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	10	4	-	-	9	9	35	602	4	88
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	18	8	-	-	19	13	208	1,488	35	183

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Table A6.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	0	61	0	0	0	0
Mining and quarrying	m2	–	–	–	–	–	–
Food, beverages, and tobacco	m3	0	168	0	0	0	0
Textiles and textile products	m4	0	39	0	0	0	0
Leather, leather products, and footwear	m5	0	2	0	0	0	0
Wood and products of wood and cork	m6	0	20	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	12	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	2	0	1	3	0
Chemicals and chemical products	m9	0	0	0	0	0	0
Rubber and plastics	m10	0	0	0	0	0	0
Other nonmetallic minerals	m11	0	6	0	0	0	0
Basic metals and fabricated metal	m12	0	20	0	0	0	1
Machinery, nec	m13	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0
Transport equipment	m15	5	6	0	1	1	3
Manufacturing, nec; recycling	m16	0	21	0	0	0	0
Electricity, gas, and water supply	m17	0	25	0	0	0	0
Construction	m18	0	11	0	0	1	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	1	0	39	38	6
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	2	32	3	3	7	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	16	1	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	0	2	0	0	0	0
Water transport	m24	0	1	0	28	1	4
Air transport	m25	0	22	0	1	6	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	4	0	1	1	2
Post and telecommunications	m27	0	8	1	1	5	2
Financial intermediation	m28	1	16	0	1	2	2
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	110	2	0	14	1
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	0	7	0	0	0	2
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	56	1,644	16	122	180	44
Taxes less subsidies on products	r99	(6)	97	0	7	4	1
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	56	883	14	59	89	74
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	107	2,624	30	188	273	119

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Table A6.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	0	0	0	0	0	0	0	–	16	–
–	–	–	–	–	–	–	–	–	–	–
0	0	0	0	0	0	0	0	–	60	–
0	0	0	0	1	0	0	0	–	22	–
0	0	0	0	0	0	0	0	–	9	–
0	0	2	0	0	0	0	0	–	2	–
0	1	0	0	3	1	2	1	–	3	–
0	0	0	0	2	1	0	0	–	30	–
0	0	0	0	0	0	1	0	–	0	–
0	0	0	0	0	0	0	0	–	0	–
0	0	3	0	0	0	0	0	–	5	–
0	0	2	0	0	0	0	0	–	3	–
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	0	0	0	1	–	38	–
0	0	0	0	0	0	0	0	–	14	–
0	0	0	0	0	0	0	0	–	15	–
1	0	2	0	1	0	0	0	–	1	–
0	0	0	0	0	0	1	5	–	0	–
5	1	1	0	9	0	0	0	–	18	–
0	0	0	0	0	0	0	0	–	9	–
0	0	0	0	1	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	1	–
2	1	0	0	11	0	0	0	–	1	–
0	0	0	0	3	0	1	1	–	25	–
1	0	0	0	1	0	0	0	–	0	–
9	1	0	0	2	0	1	2	–	8	–
2	4	0	0	4	1	1	0	–	6	–
0	0	0	0	0	0	0	0	–	0	–
16	3	3	3	14	2	3	4	–	6	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	5	0	0	0	–	8	–
0	0	0	0	1	0	3	0	–	15	–
1	0	0	0	1	0	0	1	–	19	–
0	0	0	–	0	0	–	–	–	0	–
<b>162</b>	<b>51</b>	<b>65</b>	<b>22</b>	<b>293</b>	<b>31</b>	<b>45</b>	<b>41</b>	<b>–</b>	<b>1,282</b>	<b>–</b>
(2)	(2)	3	(1)	(8)	(3)	(2)	5	–	48	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
169	171	191	29	593	135	111	32	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>329</b>	<b>220</b>	<b>258</b>	<b>50</b>	<b>878</b>	<b>162</b>	<b>154</b>	<b>77</b>	<b>–</b>	<b>1,331</b>	<b>–</b>

*continued on next page*

Table A6.2 Imports Industry *continued*

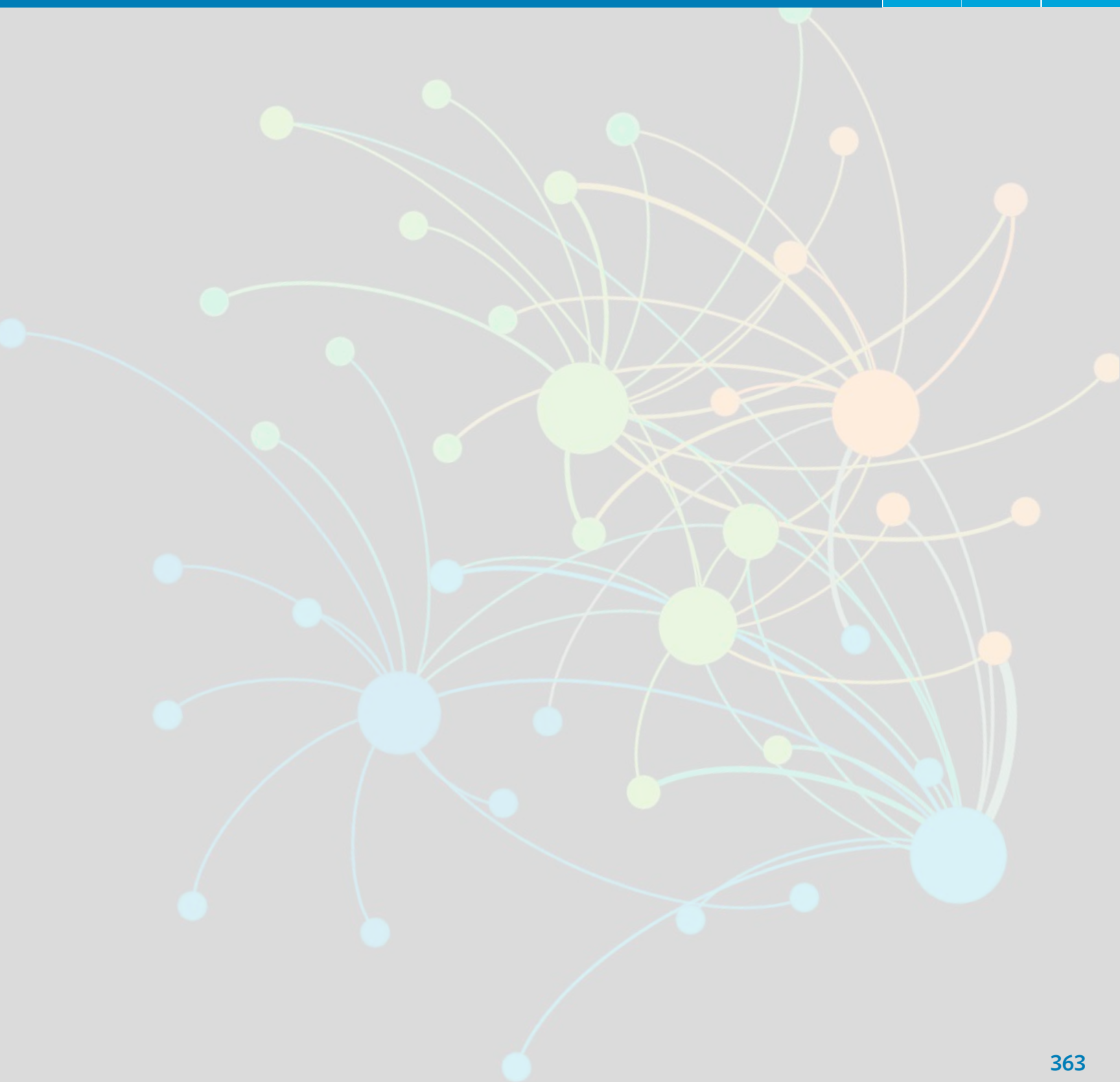
		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Imports</b>						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	–	133
Mining and quarrying	m2	–	–	–	–	–
Food, beverages, and tobacco	m3	0	0	3	–	235
Textiles and textile products	m4	0	0	1	–	70
Leather, leather products, and footwear	m5	–	0	0	–	12
Wood and products of wood and cork	m6	0	0	2	–	114
Pulp, paper, paper products, printing, and publishing	m7	0	0	(1)	–	30
Coke, refined petroleum, and nuclear fuel	m8	0	2	0	–	70
Chemicals and chemical products	m9	0	0	0	–	2
Rubber and plastics	m10	0	0	0	–	0
Other nonmetallic minerals	m11	0	0	2	–	97
Basic metals and fabricated metal	m12	0	15	3	–	93
Machinery, nec	m13	1	12	0	–	17
Electrical and optical equipment	m14	0	9	1	–	13
Transport equipment	m15	1	157	5	–	224
Manufacturing, nec; recycling	m16	0	4	1	–	45
Electricity, gas, and water supply	m17	0	2	1	–	48
Construction	m18	0	8	0	–	50
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	(0)	–	95
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	2	1	–	310
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	(0)	–	133
Hotels and restaurants	m22	0	0	0	–	3
Inland transport	m23	0	0	(0)	–	5
Water transport	m24	0	1	2	–	56
Air transport	m25	0	1	0	–	68
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	–	13
Post and telecommunications	m27	1	3	0	–	50
Financial intermediation	m28	0	5	0	–	62
Real estate activities	m29	0	0	0	–	1
Renting of M&Eq and other business activities	m30	5	1	0	–	218
Public administration and defense; compulsory social security	m31	6	0	0	–	7
Education	m32	29	0	0	–	43
Health and social work	m33	77	0	0	–	96
Other community, social, and personal services	m34	0	61	2	–	102
Private households with employed persons	m35	0	0	0	–	0
<b>Total intermediate consumption</b>	<b>r60</b>	<b>875</b>	<b>723</b>	<b>33</b>	<b>3,310</b>	<b>10,729</b>
Taxes less subsidies on products	r99	(2)	131	3	–	289
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	3,602
International transport margins		–	–	–	–	–
<b>Output at basic prices</b>	<b>r69</b>	<b>873</b>	<b>854</b>	<b>36</b>	<b>3,310</b>	<b>14,620</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 7: INPUT-OUTPUT TABLES FOR 2010 AND 2017—NEPAL

A7





**Table A7.1: Nepal Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	517	–	550	22	10	22	1
Mining and quarrying	c2	–	–	0	0	0	0	–
Food, beverages, and tobacco	c3	192	1	125	6	0	0	0
Textiles and textile products	c4	5	0	1	9	0	0	0
Leather, leather products, and footwear	c5	0	0	0	0	0	0	0
Wood and products of wood and cork	c6	4	1	0	0	0	12	0
Pulp, paper, paper products, printing, and publishing	c7	2	0	3	0	0	0	3
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	0	0	0
Chemicals and chemical products	c9	42	0	2	1	1	2	0
Rubber and plastics	c10	4	0	4	9	1	1	0
Other nonmetallic minerals	c11	3	0	4	3	0	0	0
Basic metals and fabricated metal	c12	19	0	1	0	0	1	0
Machinery, nec	c13	0	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	21	0	2	3	0	3	2
Electricity, gas, and water supply	c17	21	2	3	3	0	1	1
Construction	c18	15	1	4	1	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	16	0	10	1	0	1	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	18	0	12	2	0	1	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	157	2	101	14	2	6	5
Hotels and restaurants	c22	2	0	3	1	0	1	0
Inland transport	c23	56	1	41	4	1	4	2
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	4	0	0	0	0	0	0
Post and telecommunications	c27	5	0	2	1	0	1	0
Financial intermediation	c28	0	–	2	0	0	0	0
Real estate activities	c29	68	4	5	2	0	2	1
Renting of M&Eq and other business activities	c30	178	6	8	2	0	2	0
Public administration and defense; compulsory social security	c31	0	0	–	–	–	–	–
Education	c32	0	0	0	0	0	0	0
Health and social work	c33	9	0	1	0	0	0	0
Other community, social, and personal services	c34	4	1	0	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A7.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
-	12	2	7	0	-	-	-	16	16	-	-	-
2	0	-	33	2	-	0	-	0	-	46	-	-
0	8	1	1	1	0	0	0	1	3	3	0	0
0	0	0	0	0	0	0	0	0	1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	1	0	0	0	19	0	38	0	0
0	0	0	0	0	0	0	0	0	0	2	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	9	3	0	0	0	0	0	0	0	3	0	0
1	1	24	1	0	0	1	0	0	1	9	0	0
1	0	0	94	2	0	0	0	0	0	242	0	0
0	0	1	1	149	1	6	1	32	2	129	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	2	3	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	4	9	0	0	0	4	1	8	0	0
1	1	3	22	9	0	0	0	1	12	30	3	2
0	2	0	6	3	0	0	0	1	5	2	1	1
0	1	2	3	4	0	0	0	1	1	11	0	0
0	1	2	3	4	0	0	0	1	1	12	0	0
2	12	21	30	35	0	2	0	10	6	105	1	1
0	0	0	1	1	0	0	0	0	2	2	0	0
1	7	7	11	13	0	1	0	3	9	29	9	15
-	-	-	-	-	-	-	-	-	-	-	-	-
0	0	0	0	0	0	0	0	0	0	2	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0
0	1	0	1	1	0	0	0	0	2	3	3	3
0	0	0	1	0	0	0	-	0	-	-	6	2
0	4	1	3	2	0	1	0	4	9	34	20	27
0	6	0	3	2	0	1	0	3	23	16	4	2
-	-	-	-	-	-	-	-	-	1	0	0	0
0	0	0	0	0	0	0	0	0	2	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	7	4	3	3
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A7.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	-	135	-	-	-	-
Mining and quarrying	c2	-	0	-	-	-	-
Food, beverages, and tobacco	c3	1	37	3	-	0	3
Textiles and textile products	c4	0	1	1	-	0	1
Leather, leather products, and footwear	c5	0	0	0	-	0	0
Wood and products of wood and cork	c6	0	0	1	-	1	3
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	-	0	0
Coke, refined petroleum, and nuclear fuel	c8	0	0	8	-	1	0
Chemicals and chemical products	c9	0	0	0	-	0	0
Rubber and plastics	c10	0	0	0	-	0	1
Other nonmetallic minerals	c11	0	1	0	-	0	0
Basic metals and fabricated metal	c12	0	0	10	-	0	0
Machinery, nec	c13	0	0	0	-	0	0
Electrical and optical equipment	c14	0	0	0	-	0	0
Transport equipment	c15	0	0	0	-	0	0
Manufacturing, nec; recycling	c16	1	1	1	-	0	1
Electricity, gas, and water supply	c17	34	30	1	-	1	4
Construction	c18	3	0	7	-	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	3	11	-	1	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	3	12	-	1	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	3	25	108	-	8	3
Hotels and restaurants	c22	1	15	2	-	10	10
Inland transport	c23	249	10	51	-	9	20
Water transport	c24	-	-	-	-	-	-
Air transport	c25	6	0	1	-	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	1	7	-	4	2
Post and telecommunications	c27	47	9	2	-	12	12
Financial intermediation	c28	14	6	54	-	5	2
Real estate activities	c29	93	2	11	-	6	11
Renting of M&Eq and other business activities	c30	18	1	20	-	4	6
Public administration and defense; compulsory social security	c31	0	0	1	-	0	0
Education	c32	0	0	0	-	5	0
Health and social work	c33	1	0	1	-	0	0
Other community, social, and personal services	c34	12	1	13	-	1	3
Private households with employed persons	c35	-	-	-	-	-	-

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Table A7.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
81	–	–	–	48	207	–	–	–	2,827	8
0	–	–	0	–	–	–	–	–	21	–
30	3	2	6	46	9	1	3	–	791	0
1	1	0	3	2	1	0	1	–	94	0
0	0	0	0	0	0	0	0	–	24	0
2	0	0	0	0	0	0	2	–	12	0
0	0	0	0	0	1	0	0	–	28	0
0	0	0	0	0	0	0	0	–	6	–
0	0	0	0	0	0	11	0	–	82	0
0	0	0	1	0	0	0	0	–	49	0
0	0	0	1	1	0	0	0	–	72	0
0	1	0	3	0	1	0	1	–	156	0
0	0	0	1	0	0	0	0	–	5	0
0	0	0	2	0	0	0	0	–	22	0
0	0	0	0	0	0	0	0	–	3	0
1	2	1	3	1	2	1	2	–	97	0
30	5	7	2	6	15	3	8	–	93	0
0	2	367	5	6	6	3	5	–	16	2
2	1	0	2	2	3	1	0	–	126	0
2	1	0	2	3	3	1	0	–	140	0
18	5	1	20	22	27	12	3	–	1,208	2
15	7	0	23	1	22	0	21	–	377	43
24	7	2	20	19	67	8	40	–	545	73
–	–	–	–	–	–	–	–	–	–	–
0	2	1	4	1	4	1	2	–	291	0
5	2	2	3	0	1	0	1	–	34	0
10	12	1	28	2	15	2	13	–	314	15
8	5	16	–	1	4	13	11	–	639	–
5	42	11	25	16	32	17	33	–	320	0
3	26	16	41	7	25	9	24	–	218	0
0	0	0	1	1	1	1	6	–	120	2
0	0	1	35	3	12	6	10	–	274	73
0	2	0	1	0	0	3	4	–	143	28
2	3	1	6	13	12	8	15	–	169	11
–	–	–	–	–	–	–	–	–	–	–

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Table A7.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	320	1,699	77	6,578
Mining and quarrying	c2	–	–	2	2	109
Food, beverages, and tobacco	c3	–	2	79	66	1,426
Textiles and textile products	c4	–	0	2	62	187
Leather, leather products, and footwear	c5	–	0	1	5	31
Wood and products of wood and cork	c6	–	0	7	3	109
Pulp, paper, paper products, printing, and publishing	c7	1	0	1	3	46
Coke, refined petroleum, and nuclear fuel	c8	–	0	0	0	18
Chemicals and chemical products	c9	0	0	1	11	170
Rubber and plastics	c10	1	1	16	18	145
Other nonmetallic minerals	c11	–	0	21	25	473
Basic metals and fabricated metal	c12	–	30	13	47	607
Machinery, nec	c13	–	4	(0)	0	11
Electrical and optical equipment	c14	–	7	0	1	38
Transport equipment	c15	–	1	0	0	4
Manufacturing, nec; recycling	c16	–	8	14	26	219
Electricity, gas, and water supply	c17	–	3	1	3	362
Construction	c18	26	1,666	–	37	2,193
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	16	–	9	231
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	20	–	10	259
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	172	–	90	2,239
Hotels and restaurants	c22	3	3	–	6	575
Inland transport	c23	17	59	–	80	1,513
Water transport	c24	–	–	–	–	–
Air transport	c25	3	24	–	6	354
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	–	108	177
Post and telecommunications	c27	1	1	–	36	555
Financial intermediation	c28	–	–	–	1	791
Real estate activities	c29	–	519	–	0	1,330
Renting of M&Eq and other business activities	c30	6	8	–	7	697
Public administration and defense; compulsory social security	c31	317	–	–	99	550
Education	c32	952	1	–	0	1,376
Health and social work	c33	155	6	–	1	358
Other community, social, and personal services	c34	257	28	–	228	803
Private households with employed persons	c35	–	–	–	–	–

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Table A7.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	41	0	43	2	1	2	0
Mining and quarrying	m2	0	0	0	0	0	0	0
Food, beverages, and tobacco	m3	85	0	54	2	0	0	0
Textiles and textile products	m4	6	0	1	10	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	1	0	0	0	0	2	0
Pulp, paper, paper products, printing, and publishing	m7	3	0	6	0	0	0	6
Coke, refined petroleum, and nuclear fuel	m8	4	6	3	3	0	1	0
Chemicals and chemical products	m9	123	0	5	2	2	5	1
Rubber and plastics	m10	4	0	4	8	1	1	0
Other nonmetallic minerals	m11	2	0	2	2	0	0	0
Basic metals and fabricated metal	m12	23	0	1	0	0	1	0
Machinery, nec	m13	1	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	14	0	1	2	0	2	1
Electricity, gas, and water supply	m17	3	0	0	0	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	1	0	4	0	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	9	0	5	1	0	0	0
Water transport	m24	0	0	1	0	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	11	0	0	0	0	0	0
Post and telecommunications	m27	1	0	0	0	0	0	0
Financial intermediation	m28	1	0	1	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	3	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	1,698	28	1,015	120	22	74	28
Taxes less subsidies on products	r99	86	1	32	5	1	4	2
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	4,793	80	380	62	8	32	15
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	6,578	109	1,426	187	31	109	46

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Table A7.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	1	0	1	0	0	0
Mining and quarrying	m2	1	0	0	9	1	0	0
Food, beverages, and tobacco	m3	0	4	0	0	1	0	0
Textiles and textile products	m4	0	0	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	1	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	1	2	2	20	6	0	0
Chemicals and chemical products	m9	1	28	8	1	1	0	0
Rubber and plastics	m10	1	1	23	1	0	0	1
Other nonmetallic minerals	m11	0	0	0	48	1	0	0
Basic metals and fabricated metal	m12	0	0	1	2	180	1	7
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	4
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	0	3	6	0	0
Electricity, gas, and water supply	m17	0	0	0	3	1	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	1	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	1	1	2	2	0	0
Water transport	m24	0	0	0	0	1	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	0	0	0	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	–	–	–	0	0	–
Total intermediate consumption	r60	13	108	106	317	444	5	27
Taxes less subsidies on products	r99	1	8	7	16	43	0	3
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	4	54	32	140	120	6	8
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	18	170	145	473	607	11	38

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Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
Imports											
0	1	1	0	0	0	0	10	0	-	0	0
0	0	0	12	0	0	0	0	0	-	0	0
0	0	1	1	0	0	1	17	1	-	0	1
0	0	1	1	0	0	0	1	1	-	0	1
0	0	0	0	0	0	0	0	0	-	0	0
0	2	0	5	0	0	0	0	0	-	0	0
0	0	1	3	0	0	0	0	0	-	0	0
0	2	11	35	1	1	8	1	300	-	30	2
0	1	1	7	0	0	0	1	0	-	0	0
0	0	1	9	0	0	0	0	0	-	0	1
0	0	0	122	0	0	0	0	0	-	0	0
1	38	2	156	0	0	0	0	10	-	0	0
0	0	0	6	0	0	0	0	4	-	0	0
0	0	25	33	0	0	0	0	4	-	3	0
0	0	0	1	0	0	0	0	0	-	0	0
0	2	1	5	0	0	0	0	1	-	0	0
0	0	2	4	0	0	3	2	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	1	1	1	8	1	21	-	6	0
0	0	0	0	0	0	1	0	2	-	1	0
0	0	0	0	0	0	0	0	0	-	0	0
0	1	1	5	1	2	36	1	7	-	1	3
0	0	0	0	0	0	0	0	30	-	1	2
0	0	0	0	0	0	0	0	4	-	1	0
0	0	1	1	0	0	1	2	15	-	9	4
0	0	0	1	0	0	7	1	0	-	2	2
0	0	1	3	0	0	2	2	4	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	-	0	0
3	151	159	1,145	57	64	554	326	733	-	124	102
0	12	11	73	1	2	14	11	69	-	9	5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1	56	191	975	172	193	1,671	238	711	-	220	71
-	-	-	-	-	-	-	-	-	-	-	-
4	219	362	2,193	231	259	2,239	575	1,513	-	354	177

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Table A7.1 Import Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	6	0	0	0	3
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	11	1	1	3	17
Textiles and textile products	m4	1	1	0	4	2
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	11	0	0	3
Chemicals and chemical products	m9	1	0	0	0	0
Rubber and plastics	m10	0	0	0	1	0
Other nonmetallic minerals	m11	0	0	0	1	0
Basic metals and fabricated metal	m12	0	1	0	3	0
Machinery, nec	m13	0	2	0	19	0
Electrical and optical equipment	m14	0	4	0	23	0
Transport equipment	m15	0	0	0	1	0
Manufacturing, nec; recycling	m16	0	1	1	2	0
Electricity, gas, and water supply	m17	3	0	1	0	0
Construction	m18	0	0	1	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	5	2	2	0	3
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	1
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	3	1	0	3	2
Water transport	m24	1	0	0	0	1
Air transport	m25	1	0	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	11	4	3	7	1
Post and telecommunications	m27	2	2	0	5	0
Financial intermediation	m28	1	4	1	0	0
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	1	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	287	165	439	313	239
Taxes less subsidies on products	r99	11	10	16	15	5
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	258	616	875	369	305
International transport margins		–	–	–	–	–
Output at basic prices	r69	555	791	1,330	697	550

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Table A7.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
16	0	0	–	225	1	0	25	119	–	496
0	0	0	–	5	0	0	–	0	–	28
4	1	1	–	352	0	0	1	33	–	594
1	0	1	–	113	0	0	0	4	–	150
0	0	0	–	31	0	0	0	2	–	35
0	0	0	–	2	0	0	0	1	–	13
2	1	0	–	53	0	2	0	1	–	82
8	1	5	–	270	1	0	0	2	–	740
0	32	0	–	237	0	0	1	5	–	462
0	0	0	–	47	0	1	1	23	–	128
0	0	0	–	36	0	0	0	16	–	230
1	0	1	–	188	0	0	35	17	–	675
0	0	0	–	92	0	0	73	(1)	–	199
0	0	5	–	291	0	0	91	3	–	487
0	0	0	–	44	0	0	17	0	–	66
1	0	1	–	63	0	0	5	9	–	123
1	0	1	–	9	0	0	0	0	–	36
0	0	0	–	0	0	0	4	0	–	5
0	0	0	–	0	0	0	0	0	–	0
1	0	0	–	31	1	0	1	1	–	95
0	0	0	–	8	0	0	0	0	–	15
0	0	0	–	1	0	0	0	0	–	1
9	1	7	–	87	9	3	8	0	–	215
0	0	0	–	1	–	0	0	(0)	–	41
0	0	0	–	10	0	0	0	0	–	20
1	1	2	–	81	0	1	1	0	–	159
2	0	2	–	53	2	0	0	0	–	86
2	1	1	–	35	0	0	1	0	–	62
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	4	0	0	0	0	–	12
0	0	0	–	2	0	7	0	0	–	9
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	0	0	0	0	0	–	0
0	0	0	–	5	0	9	1	0	–	18
0	–	–	–	0	0	0	0	0	–	0
<b>520</b>	<b>142</b>	<b>234</b>	<b>–</b>	<b>11,690</b>	<b>274</b>	<b>1,763</b>	<b>3,167</b>	<b>2,092</b>	<b>1,067</b>	<b>29,814</b>
7	5	9	–	712	7	9	231	8	–	1,463
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
848	210	560	–	–	–	–	–	–	–	14,274
–	–	–	–	–	–	–	–	–	–	–
<b>1,376</b>	<b>358</b>	<b>803</b>	<b>–</b>	<b>12,403</b>	<b>281</b>	<b>1,771</b>	<b>3,398</b>	<b>2,100</b>	<b>1,067</b>	<b>45,551</b>

\$ = United States dollar; (–) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A7.2: Nepal Input–Output Table, 2017** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	756	–	976	31	16	37	2
Mining and quarrying	c2	–	–	0	0	0	0	–
Food, beverages, and tobacco	c3	403	2	296	9	0	1	1
Textiles and textile products	c4	18	1	2	19	0	0	1
Leather, leather products, and footwear	c5	1	0	0	0	1	0	0
Wood and products of wood and cork	c6	7	1	1	0	0	21	1
Pulp, paper, paper products, printing, and publishing	c7	5	0	5	0	0	0	5
Coke, refined petroleum, and nuclear fuel	c8	0	0	0	0	0	0	0
Chemicals and chemical products	c9	83	0	3	1	1	4	1
Rubber and plastics	c10	8	1	12	19	2	2	0
Other nonmetallic minerals	c11	6	0	6	4	0	1	0
Basic metals and fabricated metal	c12	45	1	3	0	0	1	0
Machinery, nec	c13	1	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0	0
Transport equipment	c15	1	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	55	1	6	4	1	7	3
Electricity, gas, and water supply	c17	42	5	8	6	1	2	2
Construction	c18	11	1	3	1	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	21	0	16	2	0	1	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	23	0	18	2	0	1	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	202	2	158	17	3	9	6
Hotels and restaurants	c22	6	0	9	3	0	2	0
Inland transport	c23	95	1	81	7	1	7	3
Water transport	c24	–	–	–	–	–	–	–
Air transport	c25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	36	1	2	0	0	0	0
Post and telecommunications	c27	11	0	7	2	0	1	0
Financial intermediation	c28	0	–	4	1	0	0	0
Real estate activities	c29	67	4	6	2	0	2	1
Renting of M&Eq and other business activities	c30	273	9	15	3	0	3	1
Public administration and defense; compulsory social security	c31	0	0	–	–	–	–	–
Education	c32	0	0	0	0	0	0	0
Health and social work	c33	17	0	2	0	0	0	0
Other community, social, and personal services	c34	9	2	1	0	0	0	0
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A7.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
756	–	976	31	16	37	2	1	–	0	0	–	–
–	–	0	0	0	0	–	–	–	–	–	–	–
403	2	296	9	0	1	1	0	0	0	1	0	0
18	1	2	19	0	0	1	–	–	–	0	–	–
1	0	0	0	1	0	0	–	–	–	–	–	–
7	1	1	0	0	21	1	0	0	–	12	–	–
5	0	5	0	0	0	5	0	0	0	2	1	–
0	0	0	0	0	0	0	–	–	–	–	–	–
83	0	3	1	1	4	1	–	–	–	–	–	–
8	1	12	19	2	2	0	–	–	–	–	–	–
6	0	6	4	0	1	0	0	0	0	11	0	–
45	1	3	0	0	1	0	–	–	2	3	–	–
1	0	0	0	0	0	0	–	–	–	–	–	–
0	0	0	0	0	0	0	–	–	–	–	–	–
1	0	0	0	0	0	0	0	0	0	0	0	1
55	1	6	4	1	7	3	0	0	0	1	0	0
42	5	8	6	1	2	2	0	0	7	10	1	5
11	1	3	1	0	0	0	1	0	10	204	4	29
21	0	16	2	0	1	1	0	0	0	1	0	0
23	0	18	2	0	1	1	1	0	23	27	0	1
202	2	158	17	3	9	6	0	0	2	34	0	0
6	0	9	3	0	2	0	0	0	0	0	0	1
95	1	81	7	1	7	3	0	0	0	2	0	0
–	–	–	–	–	–	–	1	0	10	29	3	–
0	0	0	0	0	0	0	0	0	1	20	5	–
36	1	2	0	0	0	0	0	0	0	9	4	–
11	0	7	2	0	1	0	0	0	1	9	0	5
0	–	4	1	0	0	0	0	0	2	26	1	8
67	4	6	2	0	2	1	0	0	0	5	2	37
273	9	15	3	0	3	1	0	0	1	2	2	–
0	0	–	–	–	–	–	0	0	1	12	2	9
0	0	0	0	0	0	0	0	0	0	3	0	0
17	0	2	0	0	0	0	0	0	0	0	1	–
9	2	1	0	0	0	0	0	0	0	0	0	–
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A7.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	-	386	-	-	-	-
Mining and quarrying	c2	-	0	-	-	-	-
Food, beverages, and tobacco	c3	2	134	5	-	1	9
Textiles and textile products	c4	1	5	1	-	0	2
Leather, leather products, and footwear	c5	0	0	0	-	0	0
Wood and products of wood and cork	c6	0	1	0	-	1	5
Pulp, paper, paper products, printing, and publishing	c7	0	0	0	-	0	0
Coke, refined petroleum, and nuclear fuel	c8	0	0	12	-	1	0
Chemicals and chemical products	c9	0	1	0	-	0	0
Rubber and plastics	c10	0	1	0	-	0	3
Other nonmetallic minerals	c11	0	1	0	-	0	0
Basic metals and fabricated metal	c12	1	0	12	-	0	1
Machinery, nec	c13	0	0	0	-	0	0
Electrical and optical equipment	c14	0	0	0	-	1	0
Transport equipment	c15	0	0	0	-	0	0
Manufacturing, nec; recycling	c16	1	2	2	-	0	3
Electricity, gas, and water supply	c17	42	112	1	-	1	10
Construction	c18	1	0	3	-	0	1
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	0	6	8	-	1	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	0	7	9	-	1	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2	63	77	-	6	4
Hotels and restaurants	c22	1	76	3	-	14	33
Inland transport	c23	257	30	40	-	8	45
Water transport	c24	-	-	-	-	-	-
Air transport	c25	5	0	1	-	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	c26	2	5	18	-	10	7
Post and telecommunications	c27	61	42	2	-	16	35
Financial intermediation	c28	20	27	69	-	6	6
Real estate activities	c29	55	3	6	-	4	15
Renting of M&Eq and other business activities	c30	16	3	17	-	3	11
Public administration and defense; compulsory social security	c31	0	0	1	-	0	0
Education	c32	0	0	0	-	4	0
Health and social work	c33	1	1	1	-	0	1
Other community, social, and personal services	c34	17	5	16	-	1	8
Private households with employed persons	c35	-	-	-	-	-	-

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Table A7.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
160	–	–	–	30	126	–	–	–	3,719	10
0	–	–	0	–	–	–	–	–	28	–
81	14	6	10	43	8	3	10	–	1,142	0
3	4	2	7	2	1	1	3	–	129	0
0	0	0	0	0	0	0	0	–	39	0
5	1	1	0	0	0	0	4	–	12	0
0	1	0	1	0	1	1	1	–	28	0
0	0	0	0	0	0	0	0	–	4	–
1	1	0	0	0	0	29	1	–	85	0
1	0	0	1	0	0	1	0	–	43	0
1	1	0	1	0	0	0	0	–	40	0
0	4	2	3	0	1	1	3	–	64	0
0	1	0	1	0	0	0	0	–	4	0
0	1	0	2	0	0	0	1	–	23	0
0	0	0	0	0	0	0	0	–	3	0
3	8	4	6	1	2	2	7	–	94	0
81	21	18	3	5	13	6	24	–	125	0
0	3	370	3	2	2	3	6	–	12	1
3	1	0	2	1	1	2	1	–	149	0
4	1	0	2	1	2	2	1	–	166	0
32	12	2	19	12	14	16	5	–	1,442	2
50	36	0	42	1	24	1	78	–	929	97
53	24	4	25	14	47	15	99	–	761	96
–	–	–	–	–	–	–	–	–	–	–
1	5	1	4	1	2	1	3	–	376	0
18	17	8	10	1	2	2	8	–	64	0
32	47	4	45	2	14	4	45	–	544	32
24	21	50	–	1	3	31	37	–	1,388	–
6	77	15	18	7	13	17	48	–	295	0
6	75	34	45	5	16	14	55	–	274	1
0	0	0	1	1	1	1	13	–	210	3
0	0	1	36	2	7	9	21	–	359	90
1	7	0	1	0	0	5	10	–	245	45
5	11	2	9	13	11	18	49	–	352	22
–	–	–	–	–	–	–	–	–	–	–

*continued on next page*

Table A7.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	1,193	1,686	58	9,284
Mining and quarrying	c2	–	–	2	3	191
Food, beverages, and tobacco	c3	–	15	101	59	2,400
Textiles and textile products	c4	–	2	3	63	280
Leather, leather products, and footwear	c5	–	0	2	5	49
Wood and products of wood and cork	c6	–	1	6	3	177
Pulp, paper, paper products, printing, and publishing	c7	4	1	1	4	69
Coke, refined petroleum, and nuclear fuel	c8	–	0	0	0	29
Chemicals and chemical products	c9	1	4	3	10	264
Rubber and plastics	c10	2	4	25	17	238
Other nonmetallic minerals	c11	–	1	21	17	759
Basic metals and fabricated metal	c12	–	17	20	60	988
Machinery, nec	c13	–	6	(0)	1	16
Electrical and optical equipment	c14	–	10	1	1	59
Transport equipment	c15	–	1	0	0	7
Manufacturing, nec; recycling	c16	–	11	21	27	348
Electricity, gas, and water supply	c17	–	14	1	5	743
Construction	c18	15	3,462	–	41	3,958
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	52	–	10	313
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	58	–	11	348
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	499	–	93	3,019
Hotels and restaurants	c22	8	24	–	15	1,474
Inland transport	c23	24	210	–	103	2,237
Water transport	c24	–	–	–	–	–
Air transport	c25	3	92	–	8	515
Other supporting and auxiliary transport activities; activities of travel agencies	c26	4	7	–	115	353
Post and telecommunications	c27	3	7	–	53	1,043
Financial intermediation	c28	–	–	–	1	1,706
Real estate activities	c29	–	1,354	–	0	2,117
Renting of M&Eq and other business activities	c30	8	34	–	6	1,052
Public administration and defense; compulsory social security	c31	483	–	–	120	838
Education	c32	1,399	4	–	1	1,940
Health and social work	c33	302	31	–	2	677
Other community, social, and personal services	c34	606	170	–	350	1,727
Private households with employed persons	c35	–	–	–	–	–

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Table A7.2 Imports Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	18	0	27	1	0	1	0
Mining and quarrying	m2	0	0	0	0	0	0	0
Food, beverages, and tobacco	m3	98	0	79	5	1	0	0
Textiles and textile products	m4	0	0	0	15	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	1	0	0
Wood and products of wood and cork	m6	1	0	0	0	0	2	0
Pulp, paper, paper products, printing, and publishing	m7	3	1	15	1	0	1	12
Coke, refined petroleum, and nuclear fuel	m8	7	14	4	6	1	2	1
Chemicals and chemical products	m9	255	0	11	3	3	11	1
Rubber and plastics	m10	7	0	7	9	1	1	0
Other nonmetallic minerals	m11	2	0	4	4	0	0	0
Basic metals and fabricated metal	m12	26	0	1	0	0	1	0
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	0
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	7	0	1	3	0	1	1
Electricity, gas, and water supply	m17	5	0	1	1	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	3	0	8	2	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	12	0	12	1	0	1	0
Water transport	m24	0	0	1	1	0	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	3	1	2	1	0	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	2,648	50	1,817	189	36	127	45
Taxes less subsidies on products	r99	188	3	66	10	2	7	4
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	6,447	138	517	82	11	43	20
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	9,284	191	2,400	280	49	177	69

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Table A7.2 Imports Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0	0	0
Mining and quarrying	m2	1	0	0	17	1	0	0
Food, beverages, and tobacco	m3	0	4	0	0	1	0	0
Textiles and textile products	m4	0	0	1	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	1	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	1	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	1	4	4	40	14	0	0
Chemicals and chemical products	m9	3	51	15	2	2	0	1
Rubber and plastics	m10	1	1	27	1	1	0	1
Other nonmetallic minerals	m11	0	0	0	69	2	0	0
Basic metals and fabricated metal	m12	0	0	1	2	234	1	9
Machinery, nec	m13	0	0	0	0	0	0	0
Electrical and optical equipment	m14	0	0	0	0	0	0	8
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	1	2	7	0	0
Electricity, gas, and water supply	m17	0	0	1	6	2	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	0	0	0	1	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	1	2	2	3	0	0
Water transport	m24	0	0	0	0	1	0	0
Air transport	m25	0	0	0	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	0	0	0	0	0	0	0
Financial intermediation	m28	0	0	0	0	2	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	0	0	0	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	–	–	–	0	0	–
Total intermediate consumption	r60	22	176	179	539	733	8	43
Taxes less subsidies on products	r99	1	16	15	32	89	1	5
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	6	72	44	188	166	8	11
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	29	264	238	759	988	16	59

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Table A7.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	1	1	0	0	0	0	10	0	–	0	0
0	0	0	28	0	0	0	0	0	–	0	0
0	1	0	0	0	0	0	39	0	–	0	2
0	1	0	0	0	0	0	5	0	–	0	1
0	0	0	0	0	0	0	0	0	–	0	0
0	2	0	6	0	0	0	0	3	–	0	0
0	1	1	7	0	0	0	0	0	–	0	0
0	3	29	88	3	2	14	1	700	–	65	5
0	2	2	17	0	0	0	4	0	–	0	0
0	0	4	14	0	0	0	1	0	–	0	1
0	0	0	216	0	0	0	2	0	–	0	0
1	53	7	220	0	0	0	0	6	–	0	0
0	0	0	15	0	0	0	0	8	–	0	1
0	0	80	87	0	0	0	0	8	–	5	1
0	0	0	1	0	0	0	0	0	–	0	0
0	1	0	2	0	0	0	1	0	–	0	0
0	0	5	10	0	0	3	12	0	–	0	1
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	0	–	0	0
0	0	2	2	0	3	7	4	12	–	18	1
0	1	0	1	0	0	1	0	0	–	2	0
0	0	0	0	0	0	0	0	0	–	0	0
0	1	3	6	1	1	31	5	3	–	1	6
0	0	0	1	0	0	0	0	19	–	1	2
0	0	0	0	0	0	0	0	4	–	1	0
0	0	0	0	0	0	0	8	17	–	12	9
0	0	1	2	1	0	9	2	0	–	1	3
0	2	3	9	0	0	2	5	1	–	0	1
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	1	0	0	–	0	1
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	0	–	0	0
0	0	0	0	0	0	0	0	0	–	0	0
4	250	465	2,231	58	64	555	1,016	1,088	–	187	241
1	24	22	150	3	3	29	24	138	–	18	10
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
1	75	256	1,576	252	281	2,435	435	1,010	–	310	102
–	–	–	–	–	–	–	–	–	–	–	–
7	348	743	3,958	313	348	3,019	1,474	2,237	–	515	353

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Table A7.2 Imports Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	4	0	0	0	1
Mining and quarrying	m2	0	0	0	0	0
Food, beverages, and tobacco	m3	21	0	0	1	11
Textiles and textile products	m4	2	0	0	4	1
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	1	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	0	37	0	0	5
Chemicals and chemical products	m9	2	0	0	0	0
Rubber and plastics	m10	0	0	0	1	0
Other nonmetallic minerals	m11	1	0	0	1	0
Basic metals and fabricated metal	m12	0	2	0	4	0
Machinery, nec	m13	0	7	0	32	0
Electrical and optical equipment	m14	0	16	0	40	0
Transport equipment	m15	0	1	0	1	0
Manufacturing, nec; recycling	m16	1	0	0	1	0
Electricity, gas, and water supply	m17	8	1	1	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	6	3	1	0	2
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	2	1	0	0	1
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	8	2	0	3	2
Water transport	m24	2	1	0	0	1
Air transport	m25	1	0	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	31	12	4	7	0
Post and telecommunications	m27	3	5	0	5	0
Financial intermediation	m28	3	7	1	0	0
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	0	1	0	1	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	665	492	534	398	169
Taxes less subsidies on products	r99	21	28	32	31	10
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	357	1,186	1,551	623	659
International transport margins		–	–	–	–	–
Output at basic prices	r69	1,043	1,706	2,117	1,052	838

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Table A7.2 Imports Industry *continued*

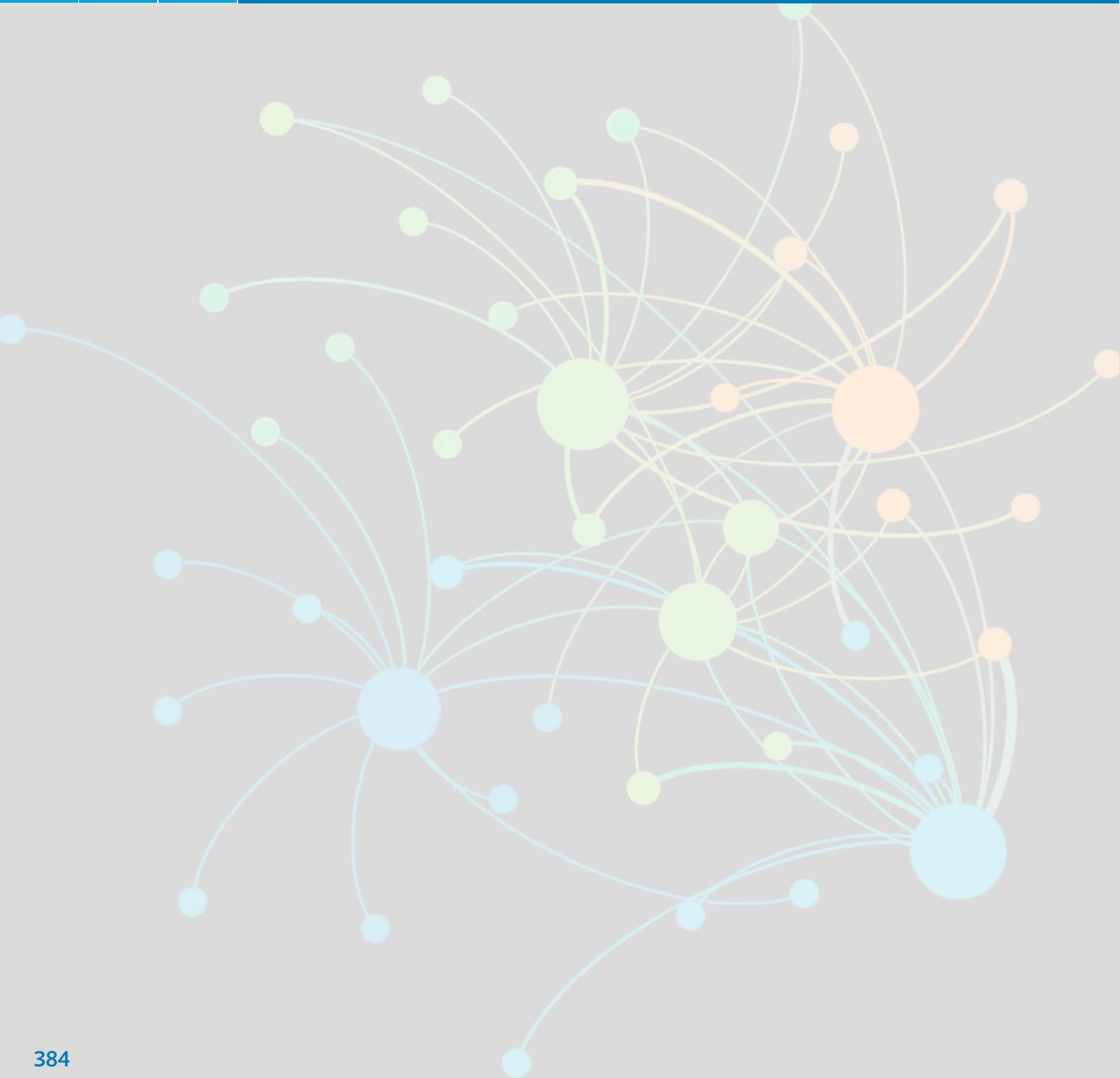
Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
4	0	0	0	1	–	0	0	0	–	133
0	0	0	0	0	–	–	–	–	–	–
21	0	0	1	11	–	0	0	3	–	235
2	0	0	4	1	–	0	0	1	–	70
0	0	0	0	0	–	–	0	0	–	12
1	0	0	0	0	–	0	0	2	–	114
0	0	0	0	0	–	0	0	(1)	–	30
0	37	0	0	5	–	0	2	0	–	70
2	0	0	0	0	–	0	0	0	–	2
0	0	0	1	0	–	0	0	0	–	0
1	0	0	1	0	–	0	0	2	–	97
0	2	0	4	0	–	0	15	3	–	93
0	7	0	32	0	–	1	12	0	–	17
0	16	0	40	0	–	0	9	1	–	13
0	1	0	1	0	–	1	157	5	–	224
1	0	0	1	0	–	0	4	1	–	45
8	1	1	0	0	–	0	2	1	–	48
0	0	0	0	0	–	0	8	0	–	50
0	0	0	0	0	–	0	0	(0)	–	95
6	3	1	0	2	–	0	2	1	–	310
2	1	0	0	1	–	0	0	(0)	–	133
0	0	0	0	0	–	0	0	0	–	3
8	2	0	3	2	–	0	0	(0)	–	5
2	1	0	0	1	–	0	1	2	–	56
1	0	0	0	0	–	0	1	0	–	68
31	12	4	7	0	–	0	0	0	–	13
3	5	0	5	0	–	1	3	0	–	50
3	7	1	0	0	–	0	5	0	–	62
0	0	0	0	0	–	0	0	0	–	1
0	1	0	1	0	–	5	1	0	–	218
0	0	0	0	0	–	6	0	0	–	7
0	0	0	0	0	–	29	0	0	–	43
0	0	0	0	0	–	77	0	0	–	96
0	0	0	0	0	–	0	61	2	–	102
0	0	0	–	0	–	0	0	0	–	0
<b>665</b>	<b>492</b>	<b>534</b>	<b>398</b>	<b>169</b>	<b>–</b>	<b>875</b>	<b>723</b>	<b>33</b>	<b>3,310</b>	<b>10,729</b>
21	28	32	31	10	–	(2)	131	3	–	289
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
357	1,186	1,551	623	659	–	–	–	–	–	3,602
–	–	–	–	–	–	–	–	–	–	–
<b>1,043</b>	<b>1,706</b>	<b>2,117</b>	<b>1,052</b>	<b>838</b>	<b>–</b>	<b>873</b>	<b>854</b>	<b>36</b>	<b>3,310</b>	<b>14,620</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# A8

## APPENDIX 8: INPUT-OUTPUT TABLES FOR 2010 AND 2017—PAKISTAN



**Table A8.1: Pakistan Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	10,364	36	13,571	9,633	157	10	19
Mining and quarrying	c2	12	18	7	62	1	2	5
Food, beverages, and tobacco	c3	365	5	558	190	7	0	5
Textiles and textile products	c4	30	47	46	1,005	29	4	31
Leather, leather products, and footwear	c5	3	–	0	11	69	11	10
Wood and products of wood and cork	c6	–	–	27	21	–	23	10
Pulp, paper, paper products, printing, and publishing	c7	–	1	4	69	–	65	371
Coke, refined petroleum, and nuclear fuel	c8	20	10	44	5	10	4	16
Chemicals and chemical products	c9	984	10	32	35	7	1	35
Rubber and plastics	c10	6	1	55	11	13	5	25
Other nonmetallic minerals	c11	68	74	87	35	19	20	114
Basic metals and fabricated metal	c12	0	0	16	77	0	3	1
Machinery, nec	c13	0	0	5	30	0	0	0
Electrical and optical equipment	c14	1	1	9	41	0	0	0
Transport equipment	c15	0	1	22	125	0	0	1
Manufacturing, nec; recycling	c16	6	0	6	15	1	0	0
Electricity, gas, and water supply	c17	241	73	143	1,372	0	1	0
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	94	2	103	91	3	3	13
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	789	17	869	767	29	28	106
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	1,326	28	1,461	1,289	49	48	178
Hotels and restaurants	c22	140	0	8	1	0	0	0
Inland transport	c23	31	56	129	216	119	1	21
Water transport	c24	0	0	0	1	0	0	0
Air transport	c25	2	3	7	13	6	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	34	0	8	158	0	0	0
Post and telecommunications	c27	43	134	9	41	10	0	47
Financial intermediation	c28	77	52	57	65	76	1	14
Real estate activities	c29	106	72	78	90	104	1	19
Renting of M&Eq and other business activities	c30	105	332	22	56	25	1	115
Public administration and defense; compulsory social security	c31	–	0	0	1	0	0	0
Education	c32	–	1	6	9	1	0	7
Health and social work	c33	–	1	4	6	1	0	5
Other community, social, and personal services	c34	25	75	12	30	8	1	33
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A8.1 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	1	152	142	4	3	0	6
Mining and quarrying	c2	1,473	56	3	290	209	0	1
Food, beverages, and tobacco	c3	0	354	2	14	3	7	6
Textiles and textile products	c4	13	230	7	25	5	188	10
Leather, leather products, and footwear	c5	–	–	–	8	3	26	–
Wood and products of wood and cork	c6	–	32	7	23	–	–	–
Pulp, paper, paper products, printing, and publishing	c7	–	64	–	38	–	–	1
Coke, refined petroleum, and nuclear fuel	c8	12	162	7	21	1	1	8
Chemicals and chemical products	c9	3	855	238	24	17	3	37
Rubber and plastics	c10	–	61	30	25	1	5	31
Other nonmetallic minerals	c11	–	23	2	57	40	18	4
Basic metals and fabricated metal	c12	0	13	1	11	49	38	81
Machinery, nec	c13	0	4	0	3	20	15	33
Electrical and optical equipment	c14	–	6	0	5	27	21	45
Transport equipment	c15	0	18	1	14	81	63	133
Manufacturing, nec; recycling	c16	0	8	1	5	25	12	18
Electricity, gas, and water supply	c17	513	34	2	351	192	4	2
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	13	31	6	8	6	6	6
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	106	263	54	66	47	49	47
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	178	442	91	111	79	83	78
Hotels and restaurants	c22	0	1	0	1	1	0	0
Inland transport	c23	111	336	4	216	347	10	31
Water transport	c24	0	1	0	1	1	0	0
Air transport	c25	6	20	0	12	19	1	2
Other supporting and auxiliary transport activities; activities of travel agencies	c26	6	178	0	0	0	0	8
Post and telecommunications	c27	7	239	4	17	9	2	6
Financial intermediation	c28	18	39	29	14	7	2	9
Real estate activities	c29	24	54	40	19	9	3	13
Renting of M&Eq and other business activities	c30	17	592	9	42	21	5	14
Public administration and defense; compulsory social security	c31	0	1	0	0	0	0	0
Education	c32	0	19	0	3	4	1	2
Health and social work	c33	0	14	0	2	3	1	1
Other community, social, and personal services	c34	4	146	3	13	14	6	15
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A8.1 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
0	69	64	138	6	16	50	1,238	2,542	0	7	3
0	53	2,455	193	0	1	2	96	141	2	31	2
3	125	11	36	16	47	147	294	71	3	56	3
6	20	381	32	4	10	32	243	1,219	6	112	31
7	-	-	-	-	-	-	12	-	-	-	-
-	33	-	30	11	31	98	-	-	-	-	-
-	79	2	49	12	34	106	55	26	3	53	5
4	17	429	35	0	0	1	28	2,013	7	125	28
3	19	435	329	33	96	301	20	1,616	1	21	5
13	3	11	1	0	1	4	144	14	0	2	-
5	47	5	1,205	4	12	38	85	56	1	23	1
347	10	3	167	11	31	96	0	7	0	3	0
140	1	1	65	4	11	33	0	3	0	1	0
191	0	2	101	5	14	44	2	5	0	1	0
571	0	5	266	15	42	132	1	17	0	5	1
68	755	3	46	57	165	517	0	11	0	1	0
0	32	5,511	175	2	5	17	854	50	2	34	11
-	-	-	216	10	29	90	-	-	-	-	-
18	12	36	42	2	7	23	22	138	0	7	1
149	100	303	352	21	61	191	181	1,083	3	58	10
250	168	510	592	35	103	322	305	2,040	5	98	16
0	80	36	3	0	1	3	46	42	2	33	0
8	38	1,514	785	80	233	730	132	552	0	6	29
0	0	3	3	0	1	2	0	1	0	0	0
0	2	54	42	4	13	39	7	31	0	3	5
0	28	0	4	0	0	0	0	1,000	12	217	360
5	13	12	4	4	12	38	114	327	1	14	18
11	10	32	251	64	185	578	179	80	1	26	20
15	14	44	345	87	254	796	247	111	2	36	27
12	33	27	11	5	14	45	283	810	2	33	44
0	0	0	-	1	2	5	0	1	0	0	0
1	3	0	-	8	22	70	5	10	0	0	0
0	2	0	-	6	16	50	3	7	0	0	0
48	10	7	28	9	25	79	69	189	0	9	10
-	-	-	-	-	-	-	-	-	-	-	-

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Table A8.1 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	2	11	2	9	138
Mining and quarrying	c2	24	12	3	12	40
Food, beverages, and tobacco	c3	0	0	0	1	1
Textiles and textile products	c4	123	43	8	35	303
Leather, leather products, and footwear	c5	-	-	-	-	-
Wood and products of wood and cork	c6	-	-	1	4	-
Pulp, paper, paper products, printing, and publishing	c7	29	21	1	3	107
Coke, refined petroleum, and nuclear fuel	c8	61	1	1	5	234
Chemicals and chemical products	c9	11	71	5	21	925
Rubber and plastics	c10	18	-	7	32	5
Other nonmetallic minerals	c11	14	6	3	13	33
Basic metals and fabricated metal	c12	3	0	1	5	1
Machinery, nec	c13	1	0	0	2	0
Electrical and optical equipment	c14	2	-	1	3	0
Transport equipment	c15	6	1	2	9	2
Manufacturing, nec; recycling	c16	1	0	1	3	5
Electricity, gas, and water supply	c17	53	17	24	106	550
Construction	c18	-	-	-	-	-
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	3	2	0	2	29
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	28	17	4	15	247
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	47	29	6	26	415
Hotels and restaurants	c22	0	12	4	16	3
Inland transport	c23	10	2	6	27	700
Water transport	c24	0	0	0	0	2
Air transport	c25	1	0	0	1	38
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	28
Post and telecommunications	c27	217	116	21	92	127
Financial intermediation	c28	290	207	70	306	270
Real estate activities	c29	399	285	96	421	372
Renting of M&Eq and other business activities	c30	537	285	49	213	282
Public administration and defense; compulsory social security	c31	0	1	0	1	7
Education	c32	0	21	2	9	108
Health and social work	c33	0	16	1	6	78
Other community, social, and personal services	c34	125	82	14	59	143
Private households with employed persons	c35	-	-	-	-	-

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Table A8.1 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
6	28	6	–	15,716	–	–	425	786	1,450	<b>56,809</b>
4	3	8	–	1,360	–	–	3	23	84	<b>6,691</b>
0	4	1	–	18,660	–	–	8	331	2,355	<b>23,690</b>
10	5	22	–	7,338	–	255	389	506	9,915	<b>22,716</b>
–	–	–	–	596	–	–	–	27	342	<b>1,124</b>
–	–	3	–	50	–	–	–	9	16	<b>431</b>
27	–	2	–	1,097	–	–	–	49	13	<b>2,385</b>
4	5	4	–	1,583	–	–	–	73	296	<b>5,277</b>
32	180	14	–	1,400	–	–	–	134	325	<b>8,278</b>
–	–	20	–	526	–	–	–	19	115	<b>1,205</b>
8	–	8	–	1,267	–	–	–	84	331	<b>3,811</b>
0	13	4	–	242	–	–	1,203	40	107	<b>2,584</b>
0	5	1	–	93	–	–	479	13	42	<b>1,006</b>
–	7	2	–	138	–	–	658	18	59	<b>1,410</b>
0	21	6	–	401	–	–	1,990	52	191	<b>4,194</b>
0	4	2	–	1,313	–	–	565	63	556	<b>4,233</b>
73	85	68	–	6,643	–	2	–	13	16	<b>17,270</b>
–	–	–	–	–	–	–	9,797	44	19	<b>10,203</b>
2	4	1	–	654	–	–	162	–	96	<b>1,648</b>
13	36	10	–	5,500	–	–	1,403	–	804	<b>13,826</b>
22	61	17	–	9,246	–	–	2,169	–	1,352	<b>23,273</b>
–	–	10	–	7,149	–	–	–	(0)	5	<b>7,599</b>
–	–	17	–	25,903	–	–	–	(0)	1,256	<b>33,657</b>
–	–	0	–	87	–	–	–	(0)	4	<b>110</b>
–	–	1	–	1,428	–	–	–	(0)	67	<b>1,829</b>
0	0	0	–	87	–	–	0	(0)	1	<b>2,129</b>
18	16	59	–	2,905	–	–	32	(0)	79	<b>4,812</b>
36	37	196	–	3,586	–	–	–	0	44	<b>6,940</b>
50	51	270	–	5,003	–	–	–	0	61	<b>9,619</b>
46	39	136	–	5,032	–	–	80	(0)	193	<b>9,568</b>
–	–	0	–	79	–	12,615	–	0	23	<b>12,738</b>
–	–	6	–	427	–	1,928	–	0	343	<b>3,015</b>
–	–	4	–	795	–	1,138	–	0	242	<b>2,404</b>
11	11	38	–	1,759	–	1,311	211	5	293	<b>4,928</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A8.1 Import Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	475	1	405	374	5	0	4
Mining and quarrying	m2	4	2	2	29	0	0	0
Food, beverages, and tobacco	m3	30	0	92	9	1	0	1
Textiles and textile products	m4	1	1	2	34	1	0	2
Leather, leather products, and footwear	m5	0	–	0	1	5	1	1
Wood and products of wood and cork	m6	0	0	4	3	0	3	1
Pulp, paper, paper products, printing, and publishing	m7	0	0	1	11	0	9	62
Coke, refined petroleum, and nuclear fuel	m8	63	11	57	47	8	5	12
Chemicals and chemical products	m9	580	4	17	20	4	0	21
Rubber and plastics	m10	2	0	21	4	1	1	10
Other nonmetallic minerals	m11	4	3	4	4	1	2	19
Basic metals and fabricated metal	m12	2	0	30	171	1	0	1
Machinery, nec	m13	2	1	3	1	1	0	0
Electrical and optical equipment	m14	0	0	1	0	0	0	0
Transport equipment	m15	1	0	1	1	0	0	0
Manufacturing, nec; recycling	m16	3	0	5	27	0	0	0
Electricity, gas, and water supply	m17	2	1	2	17	0	0	0
Construction	m18	1	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	6	0	79	3	1	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	1	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	5	0	15	10	0	2	1
Air transport	m25	4	0	2	1	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	0	1	2	0	0	0
Post and telecommunications	m27	3	4	2	1	0	0	2
Financial intermediation	m28	14	3	14	8	2	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	5	11	1	3	1	0	5
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	1	3	6	25	1	0	5
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	16,080	1,095	18,175	16,377	780	262	1,353
Taxes less subsidies on products	r99	102	16	122	(51)	8	9	55
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	40,628	5,580	5,393	6,390	336	160	977
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	56,809	6,691	23,690	22,716	1,124	431	2,385

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Table A8.1 Import Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	77	25	2	1	0	3	0	4	66	12	1	3
562	18	2	160	94	0	0	0	25	1,184	24	0	0
1	45	0	2	0	0	1	0	20	1	2	1	3
1	12	0	1	1	5	1	1	1	21	1	1	2
0	0	0	1	0	1	0	1	0	0	0	0	0
0	5	1	4	0	0	0	0	5	0	6	1	3
0	11	0	7	0	0	0	0	13	0	5	1	4
227	123	5	17	24	10	6	48	29	518	119	4	1
2	519	143	15	9	1	22	2	11	416	124	12	39
0	27	13	11	0	0	13	5	1	8	2	0	0
0	3	0	5	2	1	0	0	5	1	48	0	1
4	24	1	22	127	74	182	736	14	10	262	12	43
3	0	0	0	3	15	0	40	3	1	16	0	0
0	1	0	0	0	1	28	2	0	1	7	0	0
0	0	0	0	0	1	0	70	1	0	3	1	0
4	8	1	6	24	11	29	117	222	5	39	10	31
292	9	1	85	49	0	0	0	14	613	20	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	1	0	2	1	2	3	2	3	9	33	78
0	0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0	0	7	3	1	4	4	4	5	0	8
0	0	0	0	1	0	0	1	1	1	1	0	1
1	2	0	0	0	0	0	1	1	1	3	0	0
2	12	0	1	1	0	0	1	1	3	5	0	1
11	1	1	0	4	3	0	12	5	12	59	2	8
0	0	0	0	0	0	0	0	0	0	0	0	0
1	28	0	2	1	0	1	1	2	2	2	0	1
0	1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	17	0	4	14	9	22	88	2	2	32	4	14
0	-	-	-	0	0	-	0	0	0	0	0	0
<b>3,630</b>	<b>5,392</b>	<b>879</b>	<b>1,790</b>	<b>1,609</b>	<b>707</b>	<b>959</b>	<b>3,010</b>	<b>2,168</b>	<b>14,769</b>	<b>6,353</b>	<b>598</b>	<b>1,739</b>
928	169	31	211	191	36	82	276	373	37	299	33	97
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
719	2,716	295	1,811	784	264	369	909	1,693	2,464	3,551	1,017	11,990
-	-	-	-	-	-	-	-	-	-	-	-	-
<b>5,277</b>	<b>8,278</b>	<b>1,205</b>	<b>3,811</b>	<b>2,584</b>	<b>1,006</b>	<b>1,410</b>	<b>4,194</b>	<b>4,233</b>	<b>17,270</b>	<b>10,203</b>	<b>1,648</b>	<b>13,826</b>

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Table A8.1 Import Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	16	34	193	0	1	0
Mining and quarrying	m2	0	14	33	0	9	0
Food, beverages, and tobacco	m3	17	40	4	0	3	0
Textiles and textile products	m4	10	7	45	0	2	1
Leather, leather products, and footwear	m5	0	1	0	0	0	0
Wood and products of wood and cork	m6	12	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	15	8	3	0	6	0
Coke, refined petroleum, and nuclear fuel	m8	2	23	1,291	3	58	12
Chemicals and chemical products	m9	142	10	771	0	8	2
Rubber and plastics	m10	1	64	5	0	0	0
Other nonmetallic minerals	m11	5	5	4	0	2	0
Basic metals and fabricated metal	m12	155	2	13	0	4	0
Machinery, nec	m13	3	1	0	0	0	0
Electrical and optical equipment	m14	0	1	0	0	0	0
Transport equipment	m15	0	0	1	0	1	0
Manufacturing, nec; recycling	m16	129	0	6	0	1	0
Electricity, gas, and water supply	m17	1	12	17	0	5	0
Construction	m18	1	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	155	3	35	0	21	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	4	0	3	0	2	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	0	0	1	0	0	0
Water transport	m24	5	2	9	2	2	5
Air transport	m25	1	1	1	0	8	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	2	10	0	4	4
Post and telecommunications	m27	3	7	15	0	1	1
Financial intermediation	m28	33	36	9	0	2	1
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	2	12	29	0	1	1
Public administration and defense; compulsory social security	m31	2	0	0	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	47	5	11	0	1	0
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	5,443	4,956	16,724	63	1,155	663
Taxes less subsidies on products	r99	303	28	218	2	29	2
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	17,528	2,615	16,715	46	645	1,463
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	23,273	7,599	33,657	110	1,829	2,129

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Table A8.1 Import Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
0	2	0	2	44	1	13	1	–	773	–
1	0	0	2	10	0	1	0	–	282	–
0	0	0	0	0	0	0	0	–	2,216	–
2	3	0	3	22	0	0	1	–	467	–
0	0	0	0	0	0	0	0	–	52	–
0	0	0	1	0	0	0	0	–	7	–
3	2	0	1	15	4	0	0	–	176	–
27	2	1	4	152	7	3	3	–	1,180	–
4	27	2	11	440	14	95	6	–	882	–
4	0	2	12	2	0	0	8	–	164	–
1	1	0	1	4	1	0	0	–	109	–
4	0	1	10	2	0	27	5	–	496	–
1	1	0	0	4	0	0	0	–	36	–
0	0	0	2	2	0	3	5	–	11	–
0	1	0	0	1	0	0	2	–	100	–
1	0	0	2	2	0	5	1	–	539	–
0	0	0	1	6	0	0	1	–	152	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	0	–
14	5	4	2	67	1	2	4	–	337	–
0	0	0	0	6	0	0	0	–	57	–
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	0	0	0	0	–	5	–
5	0	0	1	97	0	0	0	–	6	–
1	1	0	1	31	1	0	0	–	82	–
2	1	0	0	18	0	0	0	–	10	–
10	6	1	4	7	1	1	2	–	94	–
10	17	2	8	18	4	1	7	–	132	–
0	0	0	0	0	0	0	0	–	2	–
17	10	2	10	11	2	2	6	–	204	–
0	0	0	0	3	0	0	0	–	52	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	0	–
4	10	1	7	47	0	3	4	–	609	–
0	0	0	–	0	0	–	–	–	0	–
<b>2,117</b>	<b>1,350</b>	<b>351</b>	<b>1,541</b>	<b>6,206</b>	<b>400</b>	<b>772</b>	<b>993</b>	<b>–</b>	<b>137,295</b>	<b>–</b>
31	18	4	18	19	(5)	8	12	–	1,815	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
2,664	5,572	9,264	8,010	6,513	2,619	1,624	3,924	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>4,812</b>	<b>6,940</b>	<b>9,619</b>	<b>9,568</b>	<b>12,738</b>	<b>3,015</b>	<b>2,404</b>	<b>4,928</b>	<b>–</b>	<b>139,110</b>	<b>–</b>

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Table A8.1 Import Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
<b>Imports</b>						
Agriculture, hunting, forestry, and fishing	m1	0	5	36	–	2,580
Mining and quarrying	m2	–	0	11	–	2,470
Food, beverages, and tobacco	m3	0	2	36	–	2,530
Textiles and textile products	m4	188	10	21	–	871
Leather, leather products, and footwear	m5	0	0	3	–	66
Wood and products of wood and cork	m6	0	0	1	–	59
Pulp, paper, paper products, printing, and publishing	m7	0	0	8	–	365
Coke, refined petroleum, and nuclear fuel	m8	1	7	52	–	4,162
Chemicals and chemical products	m9	0	0	77	–	4,452
Rubber and plastics	m10	0	0	6	–	390
Other nonmetallic minerals	m11	0	0	6	–	242
Basic metals and fabricated metal	m12	0	2,848	88	–	5,374
Machinery, nec	m13	3	69	0	–	208
Electrical and optical equipment	m14	0	62	6	–	134
Transport equipment	m15	1	85	2	–	274
Manufacturing, nec; recycling	m16	0	611	33	–	1,874
Electricity, gas, and water supply	m17	1	0	6	–	1,309
Construction	m18	0	118	1	–	125
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	11	4	–	894
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	0	–	78
Hotels and restaurants	m22	0	0	0	–	1
Inland transport	m23	0	0	0	–	7
Water transport	m24	0	2	(0)	–	216
Air transport	m25	0	0	0	–	144
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	2	0	–	67
Post and telecommunications	m27	0	5	0	–	200
Financial intermediation	m28	0	15	0	–	462
Real estate activities	m29	0	0	0	–	3
Renting of M&Eq and other business activities	m30	0	4	0	–	379
Public administration and defense; compulsory social security	m31	51	0	0	–	114
Education	m32	0	0	0	–	3
Health and social work	m33	0	0	0	–	0
Other community, social, and personal services	m34	482	313	9	–	1,802
Private households with employed persons	m35	0	0	0	–	1
<b>Total intermediate consumption</b>	<b>r60</b>	<b>17,978</b>	<b>23,748</b>	<b>2,695</b>	<b>21,099</b>	<b>343,272</b>
Taxes less subsidies on products	r99	25	1,040	97	–	6,686
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	167,249
International transport margins		–	–	–	–	–
<b>Output at basic prices</b>	<b>r69</b>	<b>18,003</b>	<b>24,788</b>	<b>2,792</b>	<b>21,099</b>	<b>517,207</b>

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

**Table A8.2: Pakistan Input–Output Table, 2017** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Domestic						
Agriculture, hunting, forestry, and fishing	c1	17,992	39	21,786	15,599	255	17	31
Mining and quarrying	c2	13	12	7	63	1	2	5
Food, beverages, and tobacco	c3	574	5	811	278	11	0	8
Textiles and textile products	c4	52	50	74	1,630	48	7	51
Leather, leather products, and footwear	c5	5	–	0	18	108	18	16
Wood and products of wood and cork	c6	–	–	39	31	–	34	14
Pulp, paper, paper products, printing, and publishing	c7	–	1	5	99	–	97	535
Coke, refined petroleum, and nuclear fuel	c8	28	9	58	7	13	6	22
Chemicals and chemical products	c9	1,468	9	45	48	10	2	49
Rubber and plastics	c10	9	1	81	17	19	8	37
Other nonmetallic minerals	c11	101	67	118	48	26	28	158
Basic metals and fabricated metal	c12	0	0	21	98	0	4	2
Machinery, nec	c13	0	0	7	39	0	0	0
Electrical and optical equipment	c14	1	1	11	53	0	0	0
Transport equipment	c15	0	1	28	162	0	0	1
Manufacturing, nec; recycling	c16	9	0	8	21	2	0	0
Electricity, gas, and water supply	c17	418	78	230	2,220	0	2	1
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	164	2	167	149	6	6	21
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	1,368	18	1,394	1,241	47	48	172
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	2,311	30	2,355	2,096	79	80	291
Hotels and restaurants	c22	232	0	13	1	1	0	0
Inland transport	c23	55	61	211	356	197	2	35
Water transport	c24	0	0	1	1	1	0	0
Air transport	c25	4	3	11	22	10	0	2
Other supporting and auxiliary transport activities; activities of travel agencies	c26	60	0	12	257	0	0	0
Post and telecommunications	c27	76	148	14	68	17	1	78
Financial intermediation	c28	105	44	72	83	96	1	18
Real estate activities	c29	194	81	133	153	178	2	33
Renting of M&Eq and other business activities	c30	203	394	38	100	46	1	209
Public administration and defense; compulsory social security	c31	–	0	1	1	0	0	1
Education	c32	–	1	11	17	2	0	13
Health and social work	c33	–	1	8	13	1	0	10
Other community, social, and personal services	c34	48	91	21	54	14	1	61
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A8.2 Domestic Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Domestic								
Agriculture, hunting, forestry, and fishing	c1	1	247	238	6	4	1	9
Mining and quarrying	c2	1,298	58	4	298	214	0	1
Food, beverages, and tobacco	c3	0	519	3	21	4	10	9
Textiles and textile products	c4	21	372	12	40	8	309	16
Leather, leather products, and footwear	c5	–	–	–	13	5	41	–
Wood and products of wood and cork	c6	–	46	11	33	–	–	–
Pulp, paper, paper products, printing, and publishing	c7	–	92	–	54	–	–	1
Coke, refined petroleum, and nuclear fuel	c8	16	214	9	28	1	1	11
Chemicals and chemical products	c9	5	1,191	342	33	24	4	54
Rubber and plastics	c10	–	91	45	37	2	7	48
Other nonmetallic minerals	c11	–	31	3	79	55	25	6
Basic metals and fabricated metal	c12	0	17	2	14	63	49	108
Machinery, nec	c13	0	5	0	4	26	20	44
Electrical and optical equipment	c14	–	8	1	7	35	28	61
Transport equipment	c15	0	23	1	18	105	83	181
Manufacturing, nec; recycling	c16	0	11	2	7	36	18	27
Electricity, gas, and water supply	c17	1,144	55	3	567	309	6	3
Construction	c18	–	–	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	20	51	11	13	9	10	9
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	170	425	91	106	76	81	79
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	286	718	153	179	128	137	133
Hotels and restaurants	c22	1	2	0	1	2	0	0
Inland transport	c23	182	554	8	355	572	17	54
Water transport	c24	1	2	0	1	2	0	0
Air transport	c25	10	32	0	19	30	1	3
Other supporting and auxiliary transport activities; activities of travel agencies	c26	10	290	0	0	0	0	13
Post and telecommunications	c27	11	400	6	28	14	3	10
Financial intermediation	c28	22	49	38	17	8	3	12
Real estate activities	c29	41	91	71	32	16	5	23
Renting of M&Eq and other business activities	c30	30	1,065	17	75	38	9	27
Public administration and defense; compulsory social security	c31	0	3	0	0	1	0	0
Education	c32	1	35	0	5	8	1	4
Health and social work	c33	0	27	0	4	6	1	3
Other community, social, and personal services	c34	8	269	5	23	26	12	29
Private households with employed persons	c35	–	–	–	–	–	–	–

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Table A8.2 Domestic Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Domestic</b>											
1	104	156	350	10	29	92	2,236	4,129	1	10	4
1	51	3,662	208	0	1	3	103	105	2	29	2
4	172	24	63	27	78	244	466	95	4	75	4
10	31	928	62	7	19	59	427	2,424	9	166	44
11	-	-	-	-	-	-	20	-	-	-	-
-	45	-	79	18	51	161	-	-	-	-	-
-	107	3	84	19	55	172	85	34	4	70	6
6	21	853	55	0	0	1	40	2,603	8	151	33
4	25	909	546	52	152	474	30	2,053	1	27	6
21	5	25	1	1	2	6	297	19	0	2	-
8	60	11	2,057	6	19	59	126	108	2	28	2
480	12	5	256	15	44	139	0	8	0	3	0
197	1	2	101	5	16	49	0	3	0	1	0
267	0	3	157	7	21	65	3	6	0	2	0
801	0	10	413	21	62	194	2	20	0	5	1
107	1,028	7	79	93	272	850	0	14	0	2	0
0	48	15,891	225	3	10	31	1,495	74	3	50	16
-	-	-	635	17	49	202	-	-	-	-	-
31	18	88	81	5	13	42	38	169	1	10	2
260	152	737	679	38	112	350	317	1,412	5	86	14
439	256	1,245	1,148	65	189	592	536	2,493	8	145	23
0	117	85	5	1	2	5	77	60	3	47	1
15	59	1,432	1,399	150	435	1,312	235	615	0	9	42
0	0	8	5	0	1	4	1	2	0	0	0
1	4	134	82	8	23	73	13	46	0	4	8
0	43	0	7	0	0	0	0	1,252	17	323	519
9	21	30	9	8	23	72	206	499	1	21	26
15	12	61	250	91	265	830	140	93	2	31	22
28	22	113	702	169	490	1,536	455	172	3	57	41
23	56	73	24	10	29	92	550	1,329	3	54	70
0	0	0	-	1	4	12	1	1	0	0	0
1	5	1	-	16	47	148	10	17	0	0	0
1	4	0	-	12	36	112	7	13	0	0	0
94	17	19	61	18	53	165	138	316	1	14	16
-	-	-	-	-	-	-	-	-	-	-	-

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Table A8.2 Domestic Industry *continued*

Industry		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
		c27	c28	c29	c30	c31
Domestic						
Agriculture, hunting, forestry, and fishing	c1	2	11	4	19	330
Mining and quarrying	c2	21	8	3	16	61
Food, beverages, and tobacco	c3	0	0	1	3	1
Textiles and textile products	c4	174	43	14	74	727
Leather, leather products, and footwear	c5	–	–	–	–	–
Wood and products of wood and cork	c6	–	–	2	8	–
Pulp, paper, paper products, printing, and publishing	c7	36	19	1	6	228
Coke, refined petroleum, and nuclear fuel	c8	70	1	2	9	458
Chemicals and chemical products	c9	14	61	7	39	1,903
Rubber and plastics	c10	22	–	11	61	12
Other nonmetallic minerals	c11	16	6	4	24	67
Basic metals and fabricated metal	c12	3	0	2	9	1
Machinery, nec	c13	1	0	1	3	0
Electrical and optical equipment	c14	2	–	1	5	1
Transport equipment	c15	7	1	3	15	4
Manufacturing, nec; recycling	c16	1	0	1	6	12
Electricity, gas, and water supply	c17	74	17	42	225	1,318
Construction	c18	–	–	–	–	–
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	5	2	1	4	71
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	40	17	6	33	591
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	67	29	10	55	998
Hotels and restaurants	c22	0	12	6	33	6
Inland transport	c23	14	2	11	58	1,709
Water transport	c24	0	0	0	0	5
Air transport	c25	1	0	1	3	92
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	67
Post and telecommunications	c27	315	120	38	201	314
Financial intermediation	c28	319	162	95	508	400
Real estate activities	c29	591	300	176	941	1,082
Renting of M&Eq and other business activities	c30	839	317	94	502	749
Public administration and defense; compulsory social security	c31	0	2	0	2	25
Education	c32	0	25	4	22	300
Health and social work	c33	0	19	3	16	226
Other community, social, and personal services	c34	198	93	27	142	388
Private households with employed persons	c35	–	–	–	–	–

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Table A8.2 Domestic Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Domestic</b>										
14	62	12	–	28,995	–	–	738	1,963	2,014	<b>97,514</b>
5	4	10	–	914	–	–	4	20	199	<b>7,408</b>
0	7	2	–	31,742	–	–	13	4	2,612	<b>37,893</b>
25	11	47	–	15,833	–	347	676	689	10,858	<b>36,390</b>
–	–	–	–	1,153	–	–	–	22	367	<b>1,798</b>
–	–	5	–	72	–	–	–	17	20	<b>687</b>
58	–	4	–	1,819	–	–	–	57	48	<b>3,796</b>
7	9	6	–	2,867	–	–	–	77	369	<b>8,072</b>
67	346	25	–	2,487	–	–	–	227	422	<b>13,158</b>
–	–	39	–	832	–	–	–	21	131	<b>1,910</b>
17	–	15	–	2,260	–	–	–	102	275	<b>6,016</b>
0	23	6	–	407	–	–	1,943	137	182	<b>4,055</b>
0	9	2	–	151	–	–	789	50	62	<b>1,593</b>
–	13	3	–	218	–	–	1,080	70	87	<b>2,214</b>
0	38	9	–	624	–	–	3,260	208	261	<b>6,564</b>
0	7	4	–	2,609	–	–	790	109	499	<b>6,634</b>
177	188	144	–	11,032	–	3	–	5	17	<b>36,124</b>
–	–	–	–	–	–	–	17,996	136	31	<b>19,066</b>
4	10	3	–	1,407	–	–	187	–	146	<b>2,973</b>
31	81	21	–	11,586	–	–	1,737	–	1,391	<b>25,009</b>
53	137	35	–	19,894	–	–	2,921	–	1,727	<b>42,043</b>
–	–	21	–	12,390	–	–	–	(0)	20	<b>13,144</b>
–	–	37	–	37,261	–	–	–	(0)	1,407	<b>48,861</b>
–	–	0	–	116	–	–	–	(0)	6	<b>159</b>
–	–	2	–	1,936	–	–	–	(0)	79	<b>2,656</b>
0	0	0	–	172	–	–	0	(0)	9	<b>3,054</b>
46	36	129	–	3,752	–	–	57	(0)	108	<b>6,915</b>
69	64	326	–	2,684	–	–	–	0	38	<b>7,046</b>
128	119	603	–	7,702	–	–	–	0	68	<b>16,550</b>
123	97	322	–	12,002	–	–	151	(0)	376	<b>20,137</b>
–	–	1	–	353	–	29,144	–	0	50	<b>29,605</b>
–	–	14	–	4,265	–	1,582	–	0	479	<b>7,036</b>
–	–	10	–	3,198	–	1,012	–	0	342	<b>5,086</b>
30	28	91	–	6,194	–	737	411	6	440	<b>10,361</b>
–	–	–	–	–	–	–	–	–	–	<b>–</b>

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Table A8.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Imports								
Agriculture, hunting, forestry, and fishing	m1	826	3	700	587	10	0	6
Mining and quarrying	m2	7	2	4	46	0	1	0
Food, beverages, and tobacco	m3	47	1	106	13	1	0	1
Textiles and textile products	m4	2	3	3	51	2	0	4
Leather, leather products, and footwear	m5	0	0	0	1	8	1	1
Wood and products of wood and cork	m6	0	0	6	5	0	5	2
Pulp, paper, paper products, printing, and publishing	m7	0	0	1	17	0	12	90
Coke, refined petroleum, and nuclear fuel	m8	60	10	66	48	13	6	18
Chemicals and chemical products	m9	902	5	27	31	6	1	30
Rubber and plastics	m10	4	0	33	6	1	2	15
Other nonmetallic minerals	m11	5	3	6	6	1	3	27
Basic metals and fabricated metal	m12	1	0	42	252	1	1	1
Machinery, nec	m13	1	0	2	1	0	0	0
Electrical and optical equipment	m14	0	0	1	0	0	0	0
Transport equipment	m15	1	0	2	1	0	0	0
Manufacturing, nec; recycling	m16	5	0	9	48	1	0	0
Electricity, gas, and water supply	m17	3	1	3	28	0	1	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	6	0	90	4	0	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	0	1	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	4	0	14	9	0	2	0
Air transport	m25	2	0	1	1	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	1	0	1	3	0	0	0
Post and telecommunications	m27	6	7	6	5	1	1	4
Financial intermediation	m28	18	3	19	12	3	3	1
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	8	13	2	4	2	0	8
Public administration and defense; compulsory social security	m31	1	0	1	1	0	0	1
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	2	5	11	45	1	0	9
Private households with employed persons	m35	0	0	0	0	–	0	–
Total intermediate consumption	r60	27,403	1,205	28,949	26,270	1,239	407	2,095
Taxes less subsidies on products	r99	260	33	297	(125)	20	23	135
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	69,850	6,169	8,647	10,244	539	257	1,567
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	97,514	7,408	37,893	36,390	1,798	687	3,796

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Table A8.2 Imports Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Imports</b>												
0	113	38	3	1	0	5	0	5	117	36	3	5
629	24	2	205	100	0	0	0	30	1,636	68	0	0
1	67	0	3	1	1	1	0	26	2	5	3	5
1	18	0	2	1	7	1	1	2	37	2	2	4
0	0	0	1	0	2	0	1	0	0	0	0	0
0	8	2	6	0	0	0	0	7	0	17	3	6
0	16	0	9	0	0	0	0	17	1	12	3	6
238	184	7	24	43	14	9	44	30	679	166	1	1
2	758	210	21	12	2	31	2	15	585	279	30	62
0	40	19	16	0	0	19	7	2	11	2	0	1
0	5	0	6	2	1	0	0	7	1	97	1	2
3	33	1	29	177	98	259	1,008	12	13	533	29	64
3	0	0	0	4	16	0	28	2	1	16	0	0
0	1	0	0	0	0	16	1	0	0	6	0	0
1	0	0	0	1	3	0	118	2	0	8	0	0
5	11	1	8	32	22	55	197	315	7	108	29	59
457	15	1	133	73	0	0	0	20	922	55	0	0
0	0	0	0	0	0	0	0	0	0	4	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	5	1	1	3	2	2	10	19	128
1	0	0	0	0	1	0	1	1	0	1	0	4
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
4	1	0	0	9	2	0	3	3	3	15	0	8
0	0	0	0	1	0	0	0	0	0	2	0	1
1	3	0	0	1	0	0	1	1	0	2	0	0
5	20	0	1	5	3	0	4	3	8	23	1	6
17	2	1	1	10	6	0	16	7	12	112	4	17
0	0	0	0	0	0	0	0	0	0	0	0	0
1	45	1	3	1	0	1	1	2	3	3	0	1
0	1	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	31	0	7	24	18	41	160	3	3	84	12	29
0	–	–	–	0	0	–	0	0	0	0	0	0
<b>4,654</b>	<b>8,390</b>	<b>1,361</b>	<b>2,599</b>	<b>2,332</b>	<b>1,082</b>	<b>1,422</b>	<b>4,433</b>	<b>3,011</b>	<b>30,558</b>	<b>11,486</b>	<b>1,036</b>	<b>3,013</b>
2,265	413	76	515	467	88	200	673	910	84	1,037	95	275
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
1,153	4,355	472	2,903	1,256	423	592	1,458	2,713	5,482	6,544	1,842	21,721
–	–	–	–	–	–	–	–	–	–	–	–	–
<b>8,072</b>	<b>13,158</b>	<b>1,910</b>	<b>6,016</b>	<b>4,055</b>	<b>1,593</b>	<b>2,214</b>	<b>6,564</b>	<b>6,634</b>	<b>36,124</b>	<b>19,066</b>	<b>2,973</b>	<b>25,009</b>

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Table A8.2 Imports Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Imports							
Agriculture, hunting, forestry, and fishing	m1	34	57	415	0	1	0
Mining and quarrying	m2	0	23	56	1	13	0
Food, beverages, and tobacco	m3	31	65	8	0	5	0
Textiles and textile products	m4	18	12	87	0	4	1
Leather, leather products, and footwear	m5	0	1	0	0	0	0
Wood and products of wood and cork	m6	24	1	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	26	12	5	0	9	1
Coke, refined petroleum, and nuclear fuel	m8	2	37	2,098	5	95	21
Chemicals and chemical products	m9	262	15	1,242	1	13	3
Rubber and plastics	m10	2	103	8	0	1	0
Other nonmetallic minerals	m11	8	8	7	0	3	0
Basic metals and fabricated metal	m12	272	3	20	0	6	1
Machinery, nec	m13	1	2	0	0	0	0
Electrical and optical equipment	m14	0	1	0	0	0	0
Transport equipment	m15	1	1	1	0	2	0
Manufacturing, nec; recycling	m16	287	0	12	0	1	0
Electricity, gas, and water supply	m17	1	21	33	0	9	0
Construction	m18	2	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	130	7	46	0	34	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	3	1	3	0	3	0
Hotels and restaurants	m22	0	0	0	0	0	0
Inland transport	m23	0	0	1	0	0	0
Water transport	m24	6	3	12	3	2	5
Air transport	m25	2	4	1	0	13	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	1	12	0	3	7
Post and telecommunications	m27	12	20	30	0	5	3
Financial intermediation	m28	46	61	12	0	4	3
Real estate activities	m29	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	4	20	47	0	2	2
Public administration and defense; compulsory social security	m31	5	0	1	0	0	0
Education	m32	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0
Other community, social, and personal services	m34	103	8	20	0	2	1
Private households with employed persons	m35	0	0	0	0	0	0
Total intermediate consumption	r60	9,430	8,540	24,359	90	1,654	955
Taxes less subsidies on products	r99	860	76	591	4	79	6
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–
Value added at basic prices	r64	31,752	4,527	23,912	66	923	2,093
International transport margins		–	–	–	–	–	–
Output at basic prices	r69	42,043	13,144	48,861	159	2,656	3,054

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Table A8.2 Imports Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Imports</b>										
1	2	0	5	104	3	38	2	–	1,450	–
1	0	0	6	20	1	2	2	–	550	–
0	0	0	0	1	0	1	0	–	4,004	–
5	4	1	6	50	1	1	4	–	832	–
0	0	0	0	0	0	0	0	–	92	–
0	0	0	1	0	0	0	1	–	13	–
5	3	0	1	32	8	0	1	–	305	–
44	2	1	8	315	13	7	5	–	1,895	–
7	29	3	25	973	31	208	15	–	1,580	–
8	0	4	28	4	0	0	16	–	294	–
2	1	0	2	9	2	0	1	–	193	–
6	0	2	23	3	0	58	13	–	848	–
1	0	0	0	5	0	0	0	–	16	–
0	0	0	2	2	0	2	2	–	7	–
0	1	0	0	4	0	0	2	–	92	–
1	0	1	7	5	0	14	3	–	1,006	–
0	0	0	2	16	1	1	1	–	280	–
0	0	0	0	0	0	0	0	–	0	–
0	0	0	0	0	0	0	0	–	0	–
15	3	6	1	129	1	1	2	–	538	–
1	0	0	0	12	0	0	0	–	57	–
0	0	0	0	0	0	0	0	–	1	–
0	0	0	0	1	0	0	0	–	7	–
6	3	0	1	214	2	0	0	–	10	–
1	0	0	0	44	1	0	0	–	64	–
2	0	0	0	17	0	0	0	–	3	–
23	8	2	9	25	5	2	6	–	155	–
16	16	4	17	41	10	2	12	–	164	–
0	0	0	0	0	0	0	0	–	1	–
30	12	5	18	28	4	3	14	–	358	–
0	0	0	1	7	0	0	0	–	91	–
0	0	0	0	0	0	0	0	–	2	–
0	0	0	0	0	0	0	0	–	0	–
9	13	3	16	128	1	9	12	–	1,212	–
0	0	0	–	0	0	–	–	–	0	–
<b>3,020</b>	<b>1,364</b>	<b>602</b>	<b>3,220</b>	<b>14,336</b>	<b>938</b>	<b>1,640</b>	<b>2,064</b>	<b>–</b>	<b>245,050</b>	<b>–</b>
84	31	12	63	66	(16)	28	40	–	5,164	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
3,811	5,651	15,936	16,853	15,204	6,114	3,417	8,256	–	–	–
–	–	–	–	–	–	–	–	–	–	–
<b>6,915</b>	<b>7,046</b>	<b>16,550</b>	<b>20,137</b>	<b>29,605</b>	<b>7,036</b>	<b>5,086</b>	<b>10,361</b>	<b>–</b>	<b>250,215</b>	<b>–</b>

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Table A8.2 Imports Industry *continued*

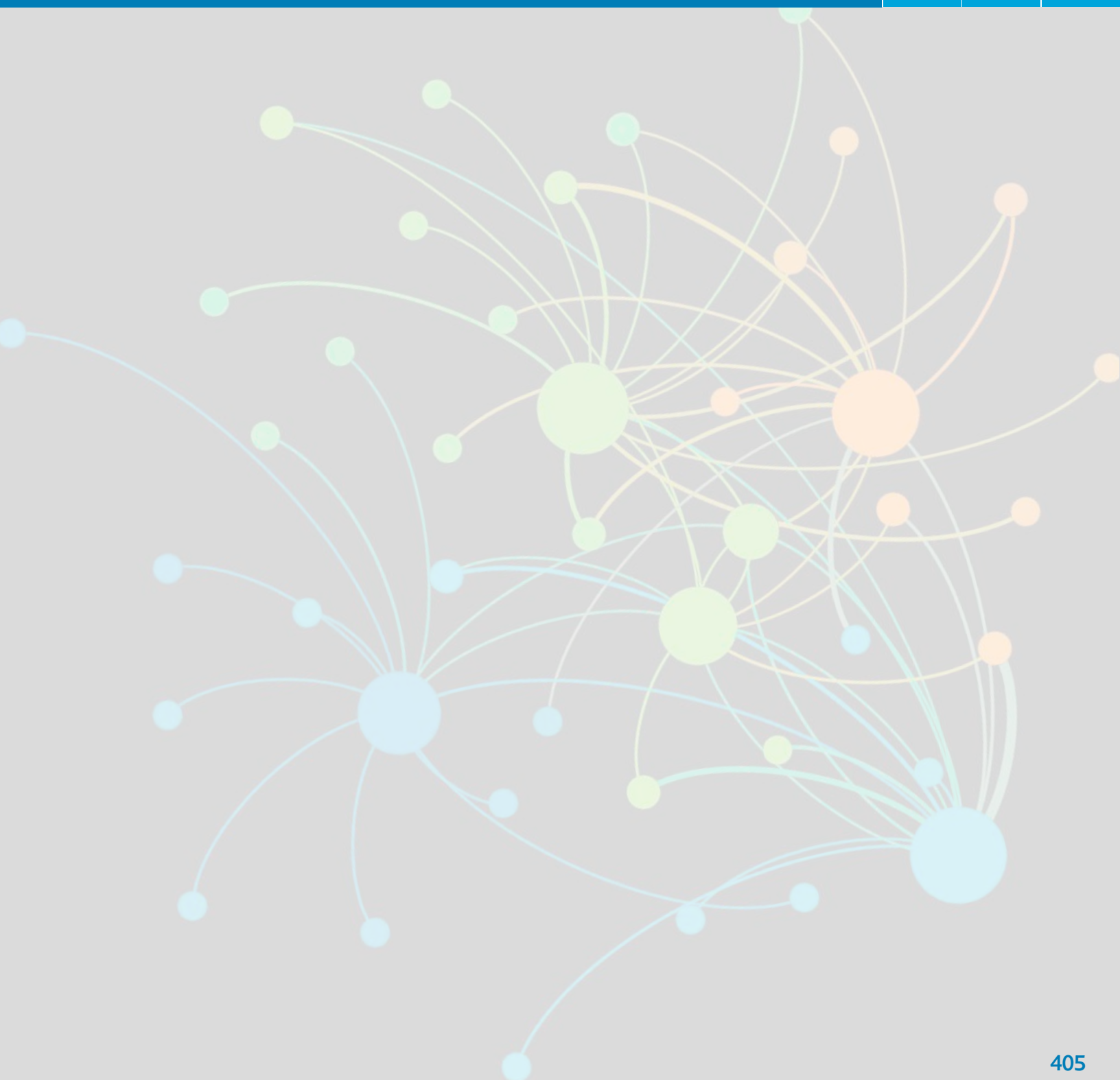
		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	8	38	–	4,617
Mining and quarrying	m2	–	0	11	–	3,439
Food, beverages, and tobacco	m3	0	5	47	–	4,453
Textiles and textile products	m4	398	19	41	–	1,623
Leather, leather products, and footwear	m5	–	0	6	–	114
Wood and products of wood and cork	m6	0	0	2	–	109
Pulp, paper, paper products, printing, and publishing	m7	0	0	11	–	605
Coke, refined petroleum, and nuclear fuel	m8	1	15	90	–	6,318
Chemicals and chemical products	m9	0	0	131	–	7,544
Rubber and plastics	m10	0	0	11	–	657
Other nonmetallic minerals	m11	0	0	10	–	422
Basic metals and fabricated metal	m12	0	5,256	137	–	9,208
Machinery, nec	m13	2	117	0	–	220
Electrical and optical equipment	m14	0	88	6	–	138
Transport equipment	m15	3	329	4	–	577
Manufacturing, nec; recycling	m16	0	1,173	44	–	3,471
Electricity, gas, and water supply	m17	3	0	8	–	2,092
Construction	m18	0	266	1	–	277
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	–	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	0	24	6	–	1,224
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	0	1	0	–	90
Hotels and restaurants	m22	0	0	0	–	1
Inland transport	m23	0	0	7	–	16
Water transport	m24	1	7	61	–	413
Air transport	m25	0	6	0	–	149
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	1	0	–	62
Post and telecommunications	m27	0	30	1	–	447
Financial intermediation	m28	1	50	1	–	723
Real estate activities	m29	0	0	0	–	2
Renting of M&Eq and other business activities	m30	0	11	0	–	658
Public administration and defense; compulsory social security	m31	94	0	0	–	209
Education	m32	0	0	0	–	4
Health and social work	m33	0	0	0	–	1
Other community, social, and personal services	m34	965	699	14	–	3,700
Private households with employed persons	m35	0	0	0	–	1
Total intermediate consumption	r60	34,293	40,858	4,612	25,141	585,113
Taxes less subsidies on products	r99	82	3,391	272	–	18,574
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	–	–	–	–	286,704
International transport margins		–	–	–	–	–
Output at basic prices	r69	34,374	44,248	4,884	25,141	890,391

\$ = United States dollar; (–) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi–Regional Input–Output Database.

# APPENDIX 9: INPUT-OUTPUT TABLES FOR 2010 AND 2017—SRI LANKA

# A9



**Table A9.1: Sri Lanka Input–Output Table, 2010** (current prices, \$ million)

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	176	12	2,156	6	0	109	0
Mining and quarrying	c2	2	0	3	0	0	0	0
Food, beverages, and tobacco	c3	117	3	1,012	48	1	2	2
Textiles and textile products	c4	10	1	15	647	7	1	1
Leather, leather products, and footwear	c5	0	0	0	8	21	0	0
Wood and products of wood and cork	c6	0	3	1	0	2	10	0
Pulp, paper, paper products, printing, and publishing	c7	0	1	4	14	1	1	79
Coke, refined petroleum, and nuclear fuel	c8	128	12	16	5	0	1	0
Chemicals and chemical products	c9	372	13	7	47	2	0	7
Rubber and plastics	c10	37	1	5	26	16	0	8
Other nonmetallic minerals	c11	1	0	4	3	0	0	0
Basic metals and fabricated metal	c12	5	2	1	1	0	1	0
Machinery, nec	c13	0	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	2	1	0	0	0
Transport equipment	c15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	2	0	6	9	0	0	0
Electricity, gas, and water supply	c17	18	68	98	131	3	15	9
Construction	c18	1	1	3	0	-	-	2
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	4	0	9	11	0	0	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	124	11	563	380	11	22	29
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	15	1	10	32	1	0	4
Hotels and restaurants	c22	0	1	0	0	0	0	0
Inland transport	c23	91	10	248	166	4	16	16
Water transport	c24	0	0	0	0	0	0	0
Air transport	c25	3	1	9	6	0	1	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	-	0	-
Post and telecommunications	c27	1	2	6	13	1	1	1
Financial intermediation	c28	23	2	50	214	1	2	3
Real estate activities	c29	-	-	-	-	-	-	-
Renting of M&Eq and other business activities	c30	9	23	4	44	1	1	0
Public administration and defense; compulsory social security	c31	-	-	-	-	-	-	-
Education	c32	-	-	-	-	-	-	-
Health and social work	c33	-	-	-	-	-	-	-
Other community, social, and personal services	c34	104	2	12	68	1	1	1
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
0	4	357	11	1	0	0	0	13	1	16	2	21
2	0	0	352	2	0	0	0	93	0	678	0	3
2	16	3	10	3	0	2	1	6	2	32	2	13
2	4	1	4	2	0	1	0	5	9	12	1	74
0	0	0	0	0	0	0	0	3	0	0	0	1
0	3	0	2	1	0	0	1	110	0	23	0	0
1	11	0	5	1	0	1	0	7	5	0	1	13
0	3	1	18	7	0	0	0	1	33	7	0	7
40	123	26	18	7	1	2	3	13	6	93	0	4
16	32	39	7	3	1	8	3	57	3	12	1	8
5	51	0	89	0	2	3	0	16	0	952	0	0
1	4	0	6	117	6	22	10	62	0	217	0	1
0	0	0	0	0	0	0	0	0	0	1	0	0
0	1	0	0	0	6	23	3	2	0	40	0	0
0	0	0	0	0	0	0	11	0	0	0	0	0
0	1	1	2	1	0	0	0	4	0	18	1	14
0	10	18	93	16	2	8	2	14	80	8	0	3
3	2	0	4	1	0	0	-	-	0	40	0	0
0	1	1	2	0	0	0	0	1	0	10	0	1
21	56	33	102	49	7	19	12	74	19	269	2	70
1	7	4	12	1	0	2	1	12	1	163	0	4
0	0	0	0	0	0	0	0	0	1	0	1	16
9	33	58	56	41	4	12	7	44	61	278	3	73
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	2	2	1	0	0	0	1	0	10	0	2
-	0	0	0	-	-	-	-	-	-	-	7	84
7	21	4	14	10	2	4	4	3	4	2	3	65
1	5	5	8	5	1	2	0	8	50	334	9	182
-	-	-	-	-	-	-	-	-	15	-	1	20
6	23	0	12	2	2	1	1	6	40	0	1	14
-	-	-	-	-	-	-	-	-	-	-	0	0
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
12	22	4	20	3	1	2	2	14	51	9	2	19
-	-	-	-	-	-	-	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods					Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	80	115	7	0	1	0
Mining and quarrying	c2	2	0	0	0	0	0
Food, beverages, and tobacco	c3	82	183	26	0	51	0
Textiles and textile products	c4	59	2	31	0	9	3
Leather, leather products, and footwear	c5	1	0	0	0	0	0
Wood and products of wood and cork	c6	0	0	0	0	0	1
Pulp, paper, paper products, printing, and publishing	c7	18	5	20	0	4	1
Coke, refined petroleum, and nuclear fuel	c8	8	6	291	0	67	10
Chemicals and chemical products	c9	5	1	61	0	3	0
Rubber and plastics	c10	10	1	175	0	7	1
Other nonmetallic minerals	c11	0	3	2	0	0	0
Basic metals and fabricated metal	c12	1	0	64	0	0	0
Machinery, nec	c13	0	0	0	0	0	0
Electrical and optical equipment	c14	0	0	0	0	0	0
Transport equipment	c15	0	0	0	0	0	0
Manufacturing, nec; recycling	c16	12	1	28	0	1	0
Electricity, gas, and water supply	c17	10	71	30	0	8	6
Construction	c18	1	21	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	2	4	0	1	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	37	59	135	0	39	4
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	7	18	68	0	5	1
Hotels and restaurants	c22	20	0	3	0	1	2
Inland transport	c23	73	57	480	0	30	4
Water transport	c24	0	0	0	0	0	0
Air transport	c25	3	2	6	0	1	0
Other supporting and auxiliary transport activities; activities of travel agencies	c26	112	-	26	0	0	10
Post and telecommunications	c27	72	3	59	0	25	0
Financial intermediation	c28	204	8	706	0	6	3
Real estate activities	c29	4	3	1	0	0	1
Renting of M&Eq and other business activities	c30	19	2	44	0	19	2
Public administration and defense; compulsory social security	c31	0	-	1	-	-	-
Education	c32	-	-	0	-	-	-
Health and social work	c33	-	-	0	0	0	0
Other community, social, and personal services	c34	26	59	136	0	58	5
Private households with employed persons	c35	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
1	0	1	0	1	0	6	28	-	2,758	-
2	0	25	0	0	0	0	6	-	21	-
5	21	7	5	19	1	7	85	-	5,459	-
4	3	7	3	5	0	1	89	-	1,482	-
0	0	0	0	0	0	0	5	-	82	-
2	0	2	1	1	1	0	30	-	53	-
11	39	5	58	2	15	0	126	-	37	-
1	0	4	2	6	0	1	17	-	67	-
0	0	6	18	0	0	19	46	-	210	-
5	1	1	2	0	0	0	12	-	65	-
10	0	37	2	0	0	0	10	-	58	-
37	0	3	0	0	0	0	8	-	7	-
0	0	0	0	1	0	0	0	-	22	-
20	0	1	0	1	0	0	15	-	12	-
0	0	0	0	0	0	0	1	-	1	-
11	12	59	1	1	0	0	25	-	222	-
61	40	24	53	13	5	8	72	-	245	-
1	0	73	1	0	-	0	105	-	382	-
1	0	0	0	0	0	0	2	-	81	-
50	15	23	22	13	5	17	118	-	142	-
6	5	3	3	1	0	2	14	-	2,555	-
3	2	9	12	0	0	4	80	-	1,360	-
53	15	28	21	33	5	16	485	-	5,150	-
0	0	0	0	0	0	0	0	-	1	-
2	1	2	2	5	1	1	44	-	567	-
9	-	-	-	-	-	-	2	-	0	-
26	39	3	15	11	1	1	39	-	350	-
68	71	24	113	1	12	18	113	-	1,259	-
4	31	57	81	-	-	1	499	-	2,669	-
44	163	84	27	15	0	0	560	-	172	-
1	-	-	3	-	66	9	-	-	176	-
-	-	-	2	-	-	0	0	-	610	-
1	-	-	-	-	15	5	32	-	770	-
128	1	30	94	19	0	1	1,021	-	6,804	-
-	-	-	-	-	-	-	-	-	-	-

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Table A9.1 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	-	90	130	336	6,442
Mining and quarrying	c2	-	0	121	42	1,355
Food, beverages, and tobacco	c3	-	75	134	1,527	8,966
Textiles and textile products	c4	-	32	15	2,978	5,521
Leather, leather products, and footwear	c5	-	26	6	13	166
Wood and products of wood and cork	c6	-	131	21	30	429
Pulp, paper, paper products, printing, and publishing	c7	-	0	4	81	572
Coke, refined petroleum, and nuclear fuel	c8	-	0	1	326	1,049
Chemicals and chemical products	c9	-	3	86	83	1,326
Rubber and plastics	c10	-	230	23	469	1,287
Other nonmetallic minerals	c11	-	380	78	50	1,760
Basic metals and fabricated metal	c12	-	251	(13)	59	875
Machinery, nec	c13	-	44	6	40	116
Electrical and optical equipment	c14	-	88	(24)	178	370
Transport equipment	c15	-	55	15	162	245
Manufacturing, nec; recycling	c16	-	611	208	433	1,685
Electricity, gas, and water supply	c17	-	5	1	0	1,247
Construction	c18	-	4,984	1,122	253	7,000
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	-	18	6	22	183
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	-	344	288	984	4,169
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	-	646	50	160	3,814
Hotels and restaurants	c22	-	1	0	2	1,518
Inland transport	c23	-	429	140	1,260	9,507
Water transport	c24	-	0	0	0	3
Air transport	c25	-	15	5	151	848
Other supporting and auxiliary transport activities; activities of travel agencies	c26	-	-	-	0	250
Post and telecommunications	c27	-	31	3	327	1,174
Financial intermediation	c28	77	6	-	40	3,633
Real estate activities	c29	-	-	-	0	3,386
Renting of M&Eq and other business activities	c30	-	68	0	236	1,646
Public administration and defense; compulsory social security	c31	3,349	-	-	0	3,606
Education	c32	774	-	-	0	1,387
Health and social work	c33	561	-	-	0	1,384
Other community, social, and personal services	c34	-	1,089	1	2	9,822
Private households with employed persons	c35	-	-	-	-	-

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Table A9.1 Import Industry *continued*

Industry		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
		c1	c2	c3	c4	c5	c6	c7
		Imports						
Agriculture, hunting, forestry, and fishing	m1	9	0	285	3	0	0	0
Mining and quarrying	m2	0	-	0	0	-	-	0
Food, beverages, and tobacco	m3	8	1	216	3	1	0	0
Textiles and textile products	m4	1	0	1	1,086	2	0	0
Leather, leather products, and footwear	m5	0	0	0	4	3	0	0
Wood and products of wood and cork	m6	0	0	1	0	0	1	0
Pulp, paper, paper products, printing, and publishing	m7	0	0	1	3	0	0	132
Coke, refined petroleum, and nuclear fuel	m8	148	34	54	37	1	2	1
Chemicals and chemical products	m9	307	13	4	51	4	0	5
Rubber and plastics	m10	19	0	2	12	2	0	2
Other nonmetallic minerals	m11	0	0	0	0	0	0	0
Basic metals and fabricated metal	m12	5	3	5	0	0	1	0
Machinery, nec	m13	1	1	2	1	0	0	0
Electrical and optical equipment	m14	0	0	2	0	0	0	0
Transport equipment	m15	1	1	1	0	0	0	0
Manufacturing, nec; recycling	m16	0	0	0	0	0	0	0
Electricity, gas, and water supply	m17	1	0	1	1	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	9	1	70	5	1	0	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	2	1	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	2	3	0	0	0
Water transport	m24	4	0	12	7	0	0	1
Air transport	m25	4	0	4	2	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	1	0	0	0	0
Post and telecommunications	m27	1	0	1	1	0	0	0
Financial intermediation	m28	10	4	10	5	0	0	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	4	2	1	15	0	0	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	0	0	0	-	0	-
Total intermediate consumption	r60	1,778	236	4,926	3,122	88	190	308
Taxes less subsidies on products	r99	(156)	15	203	126	8	7	36
Cif/ fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	4,820	1,105	3,836	2,273	70	233	228
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	6,442	1,355	8,966	5,521	166	429	572

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Table A9.1 Import Industry *continued*

		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
Industry		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	0	0	38	0	0	0	0
Mining and quarrying	m2	548	0	-	36	0	-	-
Food, beverages, and tobacco	m3	1	3	0	1	0	0	0
Textiles and textile products	m4	1	1	0	0	0	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	0	2	0	1	0	0	0
Coke, refined petroleum, and nuclear fuel	m8	102	10	5	63	31	2	0
Chemicals and chemical products	m9	19	155	66	24	8	1	5
Rubber and plastics	m10	4	11	21	3	1	0	3
Other nonmetallic minerals	m11	1	9	0	16	0	0	0
Basic metals and fabricated metal	m12	4	5	0	10	178	8	20
Machinery, nec	m13	2	0	0	0	2	3	0
Electrical and optical equipment	m14	0	4	0	1	2	6	34
Transport equipment	m15	0	0	0	0	0	0	0
Manufacturing, nec; recycling	m16	2	0	0	0	1	0	0
Electricity, gas, and water supply	m17	1	0	0	0	1	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	4	1	1	0	4	0	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	2	0	0	0	0	0	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	4	1	0	0	5	1	1
Air transport	m25	0	1	0	0	1	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	1	2	0	1	1	0	0
Financial intermediation	m28	6	0	0	0	3	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	6	0	2	1	0	1
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0	0	0
Private households with employed persons	m35	0	-	-	-	0	0	-
Total intermediate consumption	r60	836	646	690	1,008	520	60	179
Taxes less subsidies on products	r99	17	65	38	50	75	8	25
Cif/ fob adjustments on exports	r61	-	-	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-	-	-
Value added at basic prices	r64	197	614	559	701	280	48	166
International transport margins		-	-	-	-	-	-	-
Output at basic prices	r69	1,049	1,326	1,287	1,760	875	116	370

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Table A9.1 Import Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	0	0	0	0	0	0	7	0	0	0	0
-	6	0	54	0	0	0	0	0	-	-	-
0	1	0	1	0	1	4	27	2	0	5	0
0	2	3	0	0	19	16	0	12	0	3	0
0	1	0	0	0	1	0	0	0	-	0	0
0	12	0	5	0	0	0	0	0	0	0	0
0	1	3	0	0	7	10	5	22	0	4	1
3	15	96	52	1	15	19	16	890	0	159	22
1	13	7	34	0	3	4	0	56	0	2	0
1	15	1	3	0	2	3	0	63	0	2	0
0	3	0	90	0	0	0	0	0	0	0	0
14	64	0	118	0	1	1	1	38	0	0	0
5	2	2	8	0	1	2	0	21	0	0	0
3	3	1	104	0	0	0	0	0	0	0	0
24	1	0	1	0	2	10	0	1	0	2	0
0	1	1	5	0	3	3	0	11	0	0	0
0	0	6	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	4	2	7	1	25	23	3	81	0	51	1
0	0	0	1	0	1	1	1	10	0	6	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	5	3	0	4	4	2	30	0	8	0
0	3	2	4	0	2	1	0	6	0	6	7
0	1	1	2	0	2	2	1	5	0	12	1
0	0	0	1	0	0	0	0	2	0	1	2
0	0	1	3	0	3	4	1	7	0	1	0
1	4	5	28	0	2	3	7	9	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0
0	2	6	4	0	3	5	0	13	0	3	0
0	0	0	0	0	0	0	0	0	-	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
119	725	525	3,756	43	810	984	700	3,683	0	600	91
22	62	33	268	2	43	41	42	317	0	53	7
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
104	898	689	2,975	138	3,315	2,789	776	5,507	3	195	152
-	-	-	-	-	-	-	-	-	-	-	-
245	1,685	1,247	7,000	183	4,169	3,814	1,518	9,507	3	848	250

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Table A9.1 Import Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	0	-	2	0	-
Food, beverages, and tobacco	m3	0	1	2	0	4
Textiles and textile products	m4	0	1	3	1	1
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	5	28	2	27	2
Coke, refined petroleum, and nuclear fuel	m8	4	2	13	7	13
Chemicals and chemical products	m9	0	0	7	21	0
Rubber and plastics	m10	2	0	0	1	0
Other nonmetallic minerals	m11	0	0	4	0	0
Basic metals and fabricated metal	m12	8	0	3	0	0
Machinery, nec	m13	1	1	0	0	5
Electrical and optical equipment	m14	83	1	5	5	2
Transport equipment	m15	0	1	1	0	0
Manufacturing, nec; recycling	m16	4	4	25	0	1
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	29	9	12	1	7
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	3	1	1	0	1
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	3	1	1	1	3
Water transport	m24	8	1	0	1	4
Air transport	m25	4	1	0	2	2
Other supporting and auxiliary transport activities; activities of travel agencies	m26	2	1	0	0	1
Post and telecommunications	m27	6	3	1	1	1
Financial intermediation	m28	6	42	2	1	0
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	41	17	22	8	0
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	0	0	0	0	0
Private households with employed persons	m35	0	0	0	-	0
Total intermediate consumption	r60	777	573	624	619	196
Taxes less subsidies on products	r99	85	29	45	36	15
Cif/ fob adjustments on exports	r61	-	-	-	-	-
Direct purchases abroad by residents	r62	-	-	-	-	-
Purchases on the domestic territory by nonresidents	r63	-	-	-	-	-
Value added at basic prices	r64	313	3,032	2,716	991	3,395
International transport margins		-	-	-	-	-
Output at basic prices	r69	1,174	3,633	3,386	1,646	3,606

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Table A9.1 Import Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	1	6	-	260	-	0	0	3	-	613
-	0	1	-	1	-	-	-	161	-	809
0	0	7	-	721	-	0	2	10	-	1,022
0	0	25	-	302	-	0	41	(8)	-	1,516
0	0	0	-	8	-	-	12	0	-	29
0	0	4	-	5	-	0	13	2	-	47
17	0	55	-	4	-	0	0	6	-	340
3	2	57	-	325	-	0	10	4	-	2,219
0	42	42	-	156	-	0	0	108	-	1,159
0	0	5	-	12	-	0	73	8	-	275
0	0	2	-	3	-	0	36	20	-	185
0	0	10	-	8	-	0	137	145	-	788
0	0	1	-	54	-	0	666	132	-	914
0	3	64	-	29	-	0	357	44	-	756
0	0	31	-	106	-	0	966	228	-	1,378
0	0	11	-	17	-	0	38	33	-	162
0	0	0	-	7	-	0	0	0	-	21
0	0	0	-	0	-	0	32	1	-	36
0	0	0	-	1	-	0	0	0	-	1
1	1	3	-	315	-	0	13	7	-	698
0	0	0	-	56	-	0	0	(0)	-	89
0	0	0	-	2	-	0	0	0	-	2
0	1	55	-	466	-	0	0	0	-	596
0	0	0	-	10	-	0	2	(0)	-	92
0	0	10	-	196	-	0	0	0	-	256
0	0	0	-	13	-	0	3	0	-	29
0	0	5	-	37	-	0	4	0	-	87
2	0	0	-	50	-	0	20	1	-	225
0	0	0	-	1	-	0	0	0	-	2
0	0	111	-	66	-	0	21	5	-	363
0	0	0	-	0	-	0	0	0	-	2
0	0	0	-	2	-	0	0	0	-	2
0	0	0	-	0	-	0	0	0	-	0
0	0	1	-	0	-	0	0	0	-	2
0	-	-	-	0	-	0	0	0	-	0
155	171	4,196	-	37,082	-	4,760	12,099	3,336	10,245	101,458
7	6	248	-	1,851	-	36	1,370	413	-	5,548
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	(596)	-	-	-	-	-	(596)
-	-	-	-	-	-	-	-	-	-	-
1,225	1,208	5,378	-	-	-	-	-	-	-	50,928
-	-	-	-	-	-	-	-	-	-	-
1,387	1,384	9,822	-	38,338	-	4,797	13,469	3,749	10,245	157,338

\$ = United States dollar; ( ) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

**Table A9.2: Sri Lanka Input–Output Table, 2017** (current prices, \$ million)

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
Domestic								
Agriculture, hunting, forestry, and fishing	c1	137	28	1,647	20	1	36	4
Mining and quarrying	c2	2	0	1	0	0	0	0
Food, beverages, and tobacco	c3	127	7	878	59	1	1	5
Textiles and textile products	c4	24	4	13	1,817	3	0	3
Leather, leather products, and footwear	c5	0	0	0	2	35	0	0
Wood and products of wood and cork	c6	0	6	0	0	0	11	0
Pulp, paper, paper products, printing, and publishing	c7	1	3	3	15	1	2	389
Coke, refined petroleum, and nuclear fuel	c8	48	49	16	13	0	1	1
Chemicals and chemical products	c9	299	23	5	63	0	0	13
Rubber and plastics	c10	56	3	4	36	9	0	22
Other nonmetallic minerals	c11	2	1	4	3	0	0	1
Basic metals and fabricated metal	c12	9	8	2	1	0	0	0
Machinery, nec	c13	2	0	0	2	0	0	0
Electrical and optical equipment	c14	8	2	9	8	0	0	5
Transport equipment	c15	1	1	0	0	0	0	0
Manufacturing, nec; recycling	c16	2	0	3	13	0	0	1
Electricity, gas, and water supply	c17	36	129	69	141	2	9	20
Construction	c18	4	2	3	1	0	0	6
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	8	0	9	13	0	0	1
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	198	31	221	278	10	8	63
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	28	3	10	40	1	0	9
Hotels and restaurants	c22	0	1	0	2	0	0	0
Inland transport	c23	212	22	522	318	6	4	35
Water transport	c24	0	0	0	0	0	0	0
Air transport	c25	3	1	7	7	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	0	0	0	0	-	0	-
Post and telecommunications	c27	42	10	1	38	1	0	1
Financial intermediation	c28	47	7	67	329	2	1	7
Real estate activities	c29	1	0	0	1	0	0	0
Renting of M&Eq and other business activities	c30	70	17	2	64	1	0	36
Public administration and defense; compulsory social security	c31	-	-	-	-	-	-	-
Education	c32	-	-	-	-	-	-	-
Health and social work	c33	0	0	2	17	0	0	0
Other community, social, and personal services	c34	166	39	14	149	2	1	3
Private households with employed persons	c35	-	-	-	-	-	-	-

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Table A9.2 Domestic Industry *continued*

Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment	Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles
c8	c9	c10	c11	c12	c13	c14	c15	c16	c17	c18	c19	c20
<b>Domestic</b>												
6	4	402	11	0	0	0	0	22	3	28	1	9
1	0	0	141	0	0	0	0	21	12	567	0	3
12	10	9	10	0	0	0	0	6	2	153	2	15
9	4	3	4	0	0	0	0	6	22	16	2	112
0	0	0	0	0	0	0	0	3	0	1	0	0
0	2	0	0	0	0	0	0	37	0	37	0	0
2	6	0	3	0	0	0	0	113	2	1	1	14
311	4	3	22	0	0	0	0	2	56	185	1	16
31	53	60	13	0	1	0	0	10	2	88	0	6
19	16	17	6	0	1	0	1	57	4	12	1	15
14	24	1	95	0	1	0	0	11	1	719	0	0
5	4	0	7	9	13	2	5	103	1	284	1	20
0	0	0	0	0	0	0	0	0	1	1	0	1
5	6	1	2	0	15	5	2	9	13	276	0	3
0	0	0	0	0	0	0	2	0	0	0	0	0
1	0	1	1	0	0	0	0	1	1	5	1	17
1	4	18	63	1	1	1	0	13	63	11	0	5
8	2	0	7	0	0	0	0	0	0	92	0	1
3	1	2	2	0	0	0	0	1	0	16	0	1
74	34	86	77	2	6	1	3	64	28	286	2	80
10	5	12	11	0	0	0	0	12	1	283	0	5
0	0	0	0	0	0	0	0	0	0	1	1	14
309	20	48	43	1	3	1	1	37	67	599	8	225
0	0	0	0	0	0	0	0	0	0	0	0	0
3	1	2	1	0	0	0	0	1	0	11	0	6
–	0	0	0	0	–	0	–	–	8	0	2	21
8	5	0	2	0	1	0	0	2	14	0	2	40
4	4	8	7	0	1	0	0	9	65	872	12	291
0	0	0	0	0	0	0	0	0	1	0	1	39
14	9	1	4	0	1	0	0	4	24	1	2	28
–	–	–	–	–	–	–	–	–	–	–	0	0
–	–	–	–	–	–	–	–	–	–	–	–	–
9	0	0	5	0	0	0	0	0	0	0	1	12
33	20	4	9	0	1	0	0	9	57	0	6	76
–	–	–	–	–	–	–	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

		Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
Industry		c21	c22	c23	c24	c25	c26
Domestic							
Agriculture, hunting, forestry, and fishing	c1	26	335	55	0	0	7
Mining and quarrying	c2	2	0	0	0	0	0
Food, beverages, and tobacco	c3	75	311	70	0	5	1
Textiles and textile products	c4	68	5	137	0	1	1
Leather, leather products, and footwear	c5	0	0	1	0	0	0
Wood and products of wood and cork	c6	0	0	1	0	0	0
Pulp, paper, paper products, printing, and publishing	c7	14	18	66	0	1	2
Coke, refined petroleum, and nuclear fuel	c8	14	27	268	1	8	3
Chemicals and chemical products	c9	6	1	98	0	0	0
Rubber and plastics	c10	16	1	55	0	1	58
Other nonmetallic minerals	c11	0	4	5	0	0	0
Basic metals and fabricated metal	c12	17	1	139	0	0	0
Machinery, nec	c13	1	0	7	0	0	0
Electrical and optical equipment	c14	3	2	94	0	0	1
Transport equipment	c15	1	0	11	0	0	0
Manufacturing, nec; recycling	c16	11	3	57	0	0	1
Electricity, gas, and water supply	c17	13	97	42	0	0	11
Construction	c18	1	45	3	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	1	3	11	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	32	114	327	0	4	15
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	7	41	196	0	1	2
Hotels and restaurants	c22	13	0	6	0	0	1
Inland transport	c23	173	64	1,939	1	2	32
Water transport	c24	0	0	0	0	0	0
Air transport	c25	6	2	10	0	0	1
Other supporting and auxiliary transport activities; activities of travel agencies	c26	22	0	104	0	0	3
Post and telecommunications	c27	34	2	72	0	1	3
Financial intermediation	c28	252	60	1,189	0	0	13
Real estate activities	c29	6	3	3	0	0	3
Renting of M&Eq and other business activities	c30	29	5	121	0	2	4
Public administration and defense; compulsory social security	c31	0	–	1	–	–	–
Education	c32	–	–	1	–	–	–
Health and social work	c33	12	0	1	0	1	3
Other community, social, and personal services	c34	79	19	289	0	5	10
Private households with employed persons	c35	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security	Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs
c27	c28	c29	c30	c31	c32	c33	c34	c35	c36	c37
<b>Domestic</b>										
5	13	5	5	1	0	15	82	–	3,996	–
0	0	20	0	0	0	0	4	–	591	–
3	43	8	6	36	0	7	297	–	4,011	–
10	34	21	14	8	0	1	170	–	1,112	–
0	0	0	0	0	0	0	2	–	55	–
0	0	4	2	0	1	0	26	–	43	–
7	124	11	81	4	3	0	194	–	142	–
1	1	14	6	9	0	1	62	–	135	–
0	0	7	21	0	0	27	64	–	145	–
7	1	2	3	0	0	0	18	–	154	–
8	0	54	17	0	0	0	16	–	88	–
25	2	8	2	0	0	0	9	–	35	–
1	5	1	2	1	0	0	16	–	122	–
291	24	25	75	12	0	3	418	–	98	–
0	2	1	0	0	0	0	19	–	46	–
4	22	87	1	2	0	0	75	–	204	–
36	80	34	57	23	5	7	87	–	191	–
1	2	220	2	1	0	0	750	–	1,850	–
1	1	1	1	0	0	0	6	–	95	–
41	41	75	39	18	1	14	187	–	1,160	–
6	16	11	6	1	0	2	45	–	3,203	–
1	4	4	7	17	0	1	105	–	1,859	–
30	29	50	38	48	1	11	557	–	7,112	–
0	0	0	0	0	0	0	0	–	5	–
1	3	3	4	7	0	1	48	–	174	–
1	–	1	0	–	–	0	25	–	250	–
34	152	34	36	27	0	0	242	–	229	–
27	166	36	47	1	15	24	116	–	1,859	–
1	104	112	49	0	0	1	1,048	–	4,896	–
55	221	56	65	11	1	0	415	–	564	–
1	–	–	4	–	87	10	–	–	122	–
–	–	0	3	–	–	0	0	–	748	–
1	0	2	2	0	86	6	113	–	872	–
126	497	132	140	62	6	2	1,314	–	11,146	–
–	–	–	–	–	–	–	–	–	–	–

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Table A9.2 Domestic Industry *continued*

		Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
Industry		c38	c39	c40	c41	
Domestic						
Agriculture, hunting, forestry, and fishing	c1	–	337	1,223	655	9,119
Mining and quarrying	c2	–	0	1,191	185	2,741
Food, beverages, and tobacco	c3	–	84	2,147	2,527	10,928
Textiles and textile products	c4	–	109	(15)	3,756	7,475
Leather, leather products, and footwear	c5	–	61	(8)	17	171
Wood and products of wood and cork	c6	–	23	22	60	280
Pulp, paper, paper products, printing, and publishing	c7	–	6	(316)	175	1,086
Coke, refined petroleum, and nuclear fuel	c8	–	0	817	128	2,220
Chemicals and chemical products	c9	–	6	61	72	1,176
Rubber and plastics	c10	–	67	405	544	1,612
Other nonmetallic minerals	c11	–	327	156	67	1,622
Basic metals and fabricated metal	c12	–	148	198	65	1,124
Machinery, nec	c13	–	43	(48)	11	170
Electrical and optical equipment	c14	–	80	(1,161)	125	464
Transport equipment	c15	–	427	(261)	42	295
Manufacturing, nec; recycling	c16	–	320	968	171	1,974
Electricity, gas, and water supply	c17	–	3	62	1	1,335
Construction	c18	–	10,116	213	66	13,398
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	c19	–	23	16	43	261
Wholesale trade and commission trade, except of motor vehicles and motorcycles	c20	–	47	627	1,905	6,199
Retail trade, except of motor vehicles and motorcycles; repair of household goods	c21	–	875	143	324	5,310
Hotels and restaurants	c22	–	–	0	654	2,692
Inland transport	c23	–	714	347	2,632	16,262
Water transport	c24	–	0	0	1	8
Air transport	c25	–	17	12	245	580
Other supporting and auxiliary transport activities; activities of travel agencies	c26	–	–	0	4	442
Post and telecommunications	c27	–	504	14	140	1,691
Financial intermediation	c28	111	2	15	321	5,987
Real estate activities	c29	–	6	16	2	6,292
Renting of M&Eq and other business activities	c30	–	513	19	251	2,610
Public administration and defense; compulsory social security	c31	4,882	–	142	5	5,255
Education	c32	1,175	–	33	5	1,965
Health and social work	c33	862	0	28	0	2,036
Other community, social, and personal services	c34	285	1,212	50	550	16,514
Private households with employed persons	c35	–	–	–	–	–

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Table A9.2 Imports Industry *continued*

		Agriculture, Hunting, Forestry, and Fishing	Mining and Quarrying	Food, Beverages, and Tobacco	Textiles and Textile Products	Leather, Leather Products, and Footwear	Wood and Products of Wood and Cork	Pulp, Paper, Paper Products, Printing, and Publishing
Industry		c1	c2	c3	c4	c5	c6	c7
<b>Imports</b>								
Agriculture, hunting, forestry, and fishing	m1	19	4	332	1	0	11	0
Mining and quarrying	m2	3	–	1	0	–	–	0
Food, beverages, and tobacco	m3	18	1	263	4	1	0	0
Textiles and textile products	m4	5	1	2	613	1	0	0
Leather, leather products, and footwear	m5	0	0	0	0	6	0	0
Wood and products of wood and cork	m6	0	1	1	0	0	5	0
Pulp, paper, paper products, printing, and publishing	m7	0	1	2	6	0	2	103
Coke, refined petroleum, and nuclear fuel	m8	156	38	55	39	1	4	1
Chemicals and chemical products	m9	516	24	8	86	1	1	12
Rubber and plastics	m10	15	0	1	8	2	0	3
Other nonmetallic minerals	m11	0	0	0	0	0	0	0
Basic metals and fabricated metal	m12	7	4	6	1	0	1	0
Machinery, nec	m13	1	1	2	1	0	0	0
Electrical and optical equipment	m14	0	0	4	0	0	0	1
Transport equipment	m15	1	2	2	1	0	0	0
Manufacturing, nec; recycling	m16	0	0	0	1	0	0	0
Electricity, gas, and water supply	m17	1	0	1	1	0	0	0
Construction	m18	0	0	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	9	0	103	19	1	2	0
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	1	1	3	1	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	3	0	12	6	0	2	0
Air transport	m25	3	0	4	1	0	0	0
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	1	0	0	0	0
Post and telecommunications	m27	3	1	4	3	0	1	0
Financial intermediation	m28	14	5	18	10	0	2	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	3	1	1	3	0	0	13
Public administration and defense; compulsory social security	m31	0	0	0	0	–	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	7	1	3	5	0	0	0
Private households with employed persons	m35	0	0	0	0	–	0	–
<b>Total intermediate consumption</b>	<b>r60</b>	<b>2,317</b>	<b>487</b>	<b>4,342</b>	<b>4,263</b>	<b>89</b>	<b>110</b>	<b>762</b>
Taxes less subsidies on products	r99	84	16	178	150	11	7	31
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	6,718	2,238	6,408	3,062	70	163	293
International transport margins		–	–	–	–	–	–	–
<b>Output at basic prices</b>	<b>r69</b>	<b>9,119</b>	<b>2,741</b>	<b>10,928</b>	<b>7,475</b>	<b>171</b>	<b>280</b>	<b>1,086</b>

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Table A9.2 Imports Industry *continued*

Industry		Coke, Refined Petroleum, and Nuclear Fuel	Chemicals and Chemical Products	Rubber and Plastics	Other Nonmetallic Minerals	Basic Metals and Fabricated Metal	Machinery, nec	Electrical and Optical Equipment
		c8	c9	c10	c11	c12	c13	c14
Imports								
Agriculture, hunting, forestry, and fishing	m1	1	2	76	1	0	0	1
Mining and quarrying	m2	864	0	–	205	0	–	–
Food, beverages, and tobacco	m3	1	3	0	1	1	0	0
Textiles and textile products	m4	2	2	0	1	1	0	0
Leather, leather products, and footwear	m5	0	0	0	0	0	0	0
Wood and products of wood and cork	m6	0	1	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	1	7	0	2	1	0	1
Coke, refined petroleum, and nuclear fuel	m8	129	12	4	31	44	3	1
Chemicals and chemical products	m9	78	240	131	23	29	1	32
Rubber and plastics	m10	8	11	6	2	3	0	5
Other nonmetallic minerals	m11	6	18	0	30	0	0	2
Basic metals and fabricated metal	m12	8	10	0	8	469	42	58
Machinery, nec	m13	2	0	0	0	3	7	0
Electrical and optical equipment	m14	2	6	0	1	5	5	95
Transport equipment	m15	1	0	0	0	1	1	0
Manufacturing, nec; recycling	m16	3	0	0	0	2	0	0
Electricity, gas, and water supply	m17	1	0	0	0	1	0	0
Construction	m18	0	1	0	1	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	7	1	0	0	8	4	1
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	4	0	0	0	0	1	0
Hotels and restaurants	m22	0	0	0	0	0	0	0
Inland transport	m23	0	0	0	0	0	0	0
Water transport	m24	2	1	0	0	5	1	1
Air transport	m25	0	0	0	0	1	1	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	0	0	0	0	0	0	0
Post and telecommunications	m27	3	1	0	0	4	1	0
Financial intermediation	m28	11	0	0	0	7	1	0
Real estate activities	m29	0	0	0	0	0	0	0
Renting of M&Eq and other business activities	m30	1	2	0	0	0	0	2
Public administration and defense; compulsory social security	m31	0	0	0	0	0	0	0
Education	m32	0	0	0	0	0	0	0
Health and social work	m33	0	0	0	0	0	0	0
Other community, social, and personal services	m34	2	2	0	0	0	0	0
Private households with employed persons	m35	0	–	–	–	0	0	–
Total intermediate consumption	r60	2,031	559	895	855	602	114	214
Taxes less subsidies on products	r99	159	41	15	91	69	5	29
Cif/ fob adjustments on exports	r61	–	–	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–	–	–
Value added at basic prices	r64	31	576	702	675	452	51	221
International transport margins		–	–	–	–	–	–	–
Output at basic prices	r69	2,220	1,176	1,612	1,622	1,124	170	464

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Table A9.2 Imports Industry *continued*

Transport Equipment	Manufacturing, nec; Recycling	Electricity, Gas, and Water Supply	Construction	Sale, Maintenance, and Repair of Motor Vehicles and Motorcycles; Retail Sale of Fuel	Wholesale Trade and Commission Trade, Except of Motor Vehicles and Motorcycles	Retail Trade, Except of Motor Vehicles and Motorcycles; Repair of Household Goods	Hotels and Restaurants	Inland Transport	Water Transport	Air Transport	Other Supporting and Auxiliary Transport Activities; Activities of Travel Agencies
c15	c16	c17	c18	c19	c20	c21	c22	c23	c24	c25	c26
<b>Imports</b>											
0	5	0	2	0	1	4	32	7	0	0	1
–	30	15	593	0	2	2	0	0	–	–	–
0	1	0	1	0	2	11	37	4	0	10	0
0	2	9	1	1	33	30	0	33	0	7	0
0	1	0	0	–	–	0	0	0	0	0	0
0	22	0	10	0	0	0	0	0	0	0	0
0	2	1	0	1	5	8	7	21	0	3	0
4	16	69	75	1	14	18	26	786	0	75	1
3	22	3	126	1	7	11	1	106	0	3	0
2	20	1	3	0	3	5	0	63	0	2	6
0	4	0	287	0	0	0	1	0	0	0	0
30	136	1	240	1	15	19	1	93	0	0	0
6	2	3	10	0	1	1	0	27	0	0	0
12	5	7	111	0	1	1	0	44	0	0	0
58	2	0	4	0	0	2	0	22	0	19	0
0	2	1	0	0	2	2	0	6	0	0	0
0	0	3	0	0	0	0	1	0	0	0	0
0	0	0	9	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
1	4	1	13	0	24	21	5	99	0	26	0
0	2	0	1	0	0	1	1	9	0	2	0
0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	2	2	0	1	0	0	0
0	3	1	8	0	1	1	1	9	0	1	1
0	1	0	2	0	1	2	1	1	0	5	0
0	0	0	1	0	0	0	0	2	0	0	1
1	2	2	11	1	16	18	2	14	0	2	1
1	7	4	67	0	4	6	12	17	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0
0	1	1	3	0	1	2	1	7	0	2	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	2	0	0	2	3	0	9	0	3	0
0	0	0	0	0	0	0	0	0	0	0	0
<b>136</b>	<b>847</b>	<b>575</b>	<b>6,124</b>	<b>53</b>	<b>1,215</b>	<b>1,108</b>	<b>1,293</b>	<b>6,763</b>	<b>3</b>	<b>193</b>	<b>188</b>
19	66	65	531	4	91	86	40	386	0	65	10
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
141	1,061	694	6,742	203	4,893	4,117	1,358	9,114	4	322	245
–	–	–	–	–	–	–	–	–	–	–	–
<b>295</b>	<b>1,974</b>	<b>1,335</b>	<b>13,398</b>	<b>261</b>	<b>6,199</b>	<b>5,310</b>	<b>2,692</b>	<b>16,262</b>	<b>8</b>	<b>580</b>	<b>442</b>

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Table A9.2 Imports Industry *continued*

		Post and Telecommunications	Financial Intermediation	Real Estate Activities	Renting of M&Eq and Other Business Activities	Public Administration and Defense; Compulsory Social Security
Industry		c27	c28	c29	c30	c31
Imports						
Agriculture, hunting, forestry, and fishing	m1	0	0	0	0	0
Mining and quarrying	m2	–	–	17	–	–
Food, beverages, and tobacco	m3	0	3	0	0	3
Textiles and textile products	m4	1	1	4	3	2
Leather, leather products, and footwear	m5	0	0	0	0	0
Wood and products of wood and cork	m6	0	0	0	0	0
Pulp, paper, paper products, printing, and publishing	m7	4	34	4	47	1
Coke, refined petroleum, and nuclear fuel	m8	3	1	14	8	8
Chemicals and chemical products	m9	0	0	8	42	0
Rubber and plastics	m10	3	0	0	1	0
Other nonmetallic minerals	m11	3	0	12	6	0
Basic metals and fabricated metal	m12	37	0	5	2	0
Machinery, nec	m13	1	0	0	8	3
Electrical and optical equipment	m14	182	2	7	44	6
Transport equipment	m15	0	1	1	0	1
Manufacturing, nec; recycling	m16	1	2	12	0	0
Electricity, gas, and water supply	m17	0	0	0	0	0
Construction	m18	0	0	0	0	0
Sale, maintenance, and repair of motor vehicles and motorcycles; retail sale of fuel	m19	0	0	0	0	0
Wholesale trade and commission trade, except of motor vehicles and motorcycles	m20	31	5	13	1	7
Retail trade, except of motor vehicles and motorcycles; repair of household goods	m21	3	1	1	0	1
Hotels and restaurants	m22	0	0	0	0	0
Inland transport	m23	0	1	0	1	2
Water transport	m24	10	2	0	1	4
Air transport	m25	5	1	1	1	1
Other supporting and auxiliary transport activities; activities of travel agencies	m26	3	0	0	0	0
Post and telecommunications	m27	15	17	3	3	12
Financial intermediation	m28	10	10	2	1	1
Real estate activities	m29	0	0	0	0	0
Renting of M&Eq and other business activities	m30	8	9	5	10	1
Public administration and defense; compulsory social security	m31	0	0	0	0	0
Education	m32	0	0	0	0	0
Health and social work	m33	0	0	0	0	0
Other community, social, and personal services	m34	9	13	4	7	1
Private households with employed persons	m35	0	0	0	–	0
Total intermediate consumption	r60	1,055	1,692	1,159	924	344
Taxes less subsidies on products	r99	99	77	80	88	16
Cif/ fob adjustments on exports	r61	–	–	–	–	–
Direct purchases abroad by residents	r62	–	–	–	–	–
Purchases on the domestic territory by nonresidents	r63	–	–	–	–	–
Value added at basic prices	r64	536	4,218	5,053	1,598	4,896
International transport margins		–	–	–	–	–
Output at basic prices	r69	1,691	5,987	6,292	2,610	5,255

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Table A9.2 Imports Industry *continued*

Education	Health and Social Work	Other Community, Social, and Personal Services	Private Households with Employed Persons	Final Consumption Expenditure by Households	Final Consumption Expenditure by NPISHs	Final Consumption Expenditure by Government	Gross Fixed Capital Formation	Changes in Inventories and Valuables	Exports	Total Output
c32	c33	c34	c35	c36	c37	c38	c39	c40	c41	
<b>Imports</b>										
0	4	8	–	441	–	0	12	20	–	987
–	0	5	–	10	–	–	–	857	–	2,605
0	1	38	–	1,022	–	0	2	0	–	1,431
0	0	41	–	528	–	0	9	(69)	–	1,262
0	0	0	–	12	–	–	12	(2)	–	30
0	0	6	–	9	–	0	30	1	–	89
1	0	159	–	21	–	0	0	(40)	–	407
1	2	70	–	354	–	0	6	5	–	2,072
0	72	97	–	533	–	0	0	13	–	2,229
0	0	5	–	24	–	0	20	28	–	251
0	0	3	–	15	–	0	106	51	–	544
0	0	3	–	18	–	0	319	406	–	1,940
0	0	54	–	97	–	0	664	67	–	960
0	2	202	–	153	–	0	1,090	151	–	2,141
0	0	40	–	243	–	0	2,385	(26)	–	2,759
0	0	12	–	45	–	0	95	99	–	288
0	0	0	–	5	–	0	0	0	–	15
0	0	0	–	1	–	0	23	9	–	47
0	0	0	–	1	–	0	0	0	–	1
0	1	5	–	248	–	0	7	7	–	676
0	0	1	–	58	–	0	2	1	–	96
0	0	5	–	101	–	0	0	0	–	108
0	0	11	–	218	–	0	0	52	–	291
0	0	0	–	5	–	0	2	15	–	98
0	0	2	–	112	–	0	2	0	–	150
0	0	0	–	2	–	0	0	0	–	13
0	0	18	–	40	–	0	22	1	–	223
0	0	1	–	73	–	1	15	1	–	305
0	0	0	–	1	–	0	0	0	–	3
0	0	39	–	39	–	0	36	(5)	–	189
0	0	0	–	0	–	0	0	0	–	3
0	0	0	–	2	–	0	0	0	–	3
0	0	0	–	0	–	0	0	0	–	0
0	0	37	–	81	–	0	60	0	–	257
0	–	–	–	0	–	0	0	0	–	0
<b>209</b>	<b>218</b>	<b>7,390</b>	–	<b>51,825</b>	–	<b>7,317</b>	<b>20,990</b>	<b>8,759</b>	<b>15,747</b>	<b>153,769</b>
9	7	486	–	2,653	–	138	2,100	155	–	8,158
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
1,747	1,811	8,638	–	–	–	–	–	–	–	79,051
–	–	–	–	–	–	–	–	–	–	–
<b>1,965</b>	<b>2,036</b>	<b>16,514</b>	–	<b>54,478</b>	–	<b>7,455</b>	<b>23,090</b>	<b>8,914</b>	<b>15,747</b>	<b>240,977</b>

\$ = United States dollar; (–) = negative; cif = cost, insurance, and freight; fob = free on board; M&Eq = machinery and equipment; nec = not elsewhere classified; NPISHs = nonprofit institutions serving households.

Source: Asian Development Bank Multi-Regional Input–Output Database.

## **Economic Indicators for South and Central Asia**

### *Input-Output Tables*

This publication presents data visualization of economic statistics from South and Central Asia relevant for the analysis of cross-border production arrangements at the local, regional, and global levels. It covers Bangladesh, Bhutan, India, Kazakhstan, the Kyrgyz Republic, Maldives, Nepal, Pakistan, and Sri Lanka. Two companion publications focus on Eastern Asia, and Southeastern Asia and the Pacific. The statistics were computed from the Asian Development Bank's multi-regional input-output database, which serves the increasing demand for structured, relevant, timely, and accurate data, especially with the onset of various economic research projects on global value chains. Supply and use tables and input-output tables in these publications address the emerging need for more systematic and comprehensive approaches in data management, economic analysis, and policy research for national economies around the world.

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