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## Article

### Living by the "star" principle

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## LIVING BY THE "STAR" PRINCIPLE



Maria Illivna Skrypnychenko - a well-known and respected scientist, Doctor of Economics, Professor, Corresponding Member of the National Academy of Sciences of Ukraine, Honored Economist of Ukraine, Permanent Member of the Editorial Board of the journal "Economy and Forecasting", a beautiful person, a good friend, colleague, mother and grandmother - meets her beautiful seventieth anniversary as always at

work – dealing with model based calculations of scenarios for the recovery of Ukraine's economy, which suffered terrible destruction due to the military aggression by the Russian Federation. The reader can see results of the anniversary hero's efforts in an article in this issue of our journal contributed by Maria Skrypnychenko together with her colleagues.

The well-deserved and significant reputation of M.I. Skrypnychenko as a specialist in applied quantitative analysis and econometric modeling was earned by her long and painstaking work in the development of the scientific toolkit for complex integrated models of economic development, focused on practical implementation under unstable economic conditions. There is an original method for integrating the components of these complex models, which is based on the so called "star" structure. The development of multifaceted models allows real time substantiation of economic policy and evaluation of proposals set forward by expert groups and government initiatives. Based on them, the Institute for Economics and Forecasting of the National Academy of Sciences of Ukraine performs necessary calculations when developing proposals for documents of both systemic and perspective nature.

"Complex integrated macromodels are subject to a certain goal as to the development of an economic object so the changes occurring in individual simplexes (elements) can affect the efficiency of the entire complex... In the case of "star" integration of macromodels, the "star" of a certain complex of simplexes is determined", - this is a quote from one of Maria Illivna's articles. The "star" in the model of her own life has been science (153 scientific works) and educational activities. The model's efficiency was ensured by the Faculty of Economic Cybernetics of Taras Shevchenko Kyiv National University, where M. Skrypnychenko was Graduate Student in "Mathematical Modeling in Economics" at the Institute of Cybernetics of the NAS of Ukraine. Which was followed by further research at the Institute of Cybernetics, the Institute for Economics, the Institute for Economics and Forecasting, a doctoral research under the guidance of Academician of the NAS of Ukraine V.M. Heyets, including their long (since 1996) joint participation in the International Expert Group at the LINK Project (UN - USA) on urgent issues of modeling and forecasting of economic development of the world, and individual countries and regions.

Currently, in M.I. Skrypnychenko's macro world there are many integrated micro-models – the managerial one (Deputy Head of the largest department of the Institute for Economics and Forecasting of the National Academy of Sciences of



Ukraine - the Department of Modeling and Forecasting of Economic Development), and the organizational one (Member of the Specialized Scientific Council of the above mentioned Institute for the defense of theses for obtaining the scientific degree of Doctor and PhD in Economic Sciences for specialty 08.00.11 (mathematical methods, models and information technologies in the economy). Continuing the scientific school of V. M. Heyets, M.I. Skrypnychenko also works as a member of the Bureau at the Section that examines the works of young scientists, in the Committee for State Prizes of Ukraine in the field of science and technology; as a member of the Scientific Council at the Ministry of Education and Culture of Ukraine on issues of examination of competitive works in the information system of the Ministry of Education and Culture of Ukraine "Science in Universities" under section 17 "Economics" The other areas of M.I. Skrypnychenko's activities include pedagogy (Chairman of the Commission for the defense of qualification and master theses at the National University "Kyiv-Mohyla Academy", National University of Bioresources and Nature Management, Kyiv Taras Shevchenko National University), and propaganda (member of the editorial boards and contributor of our and several other well-known Ukrainian economic journals). The central block of Maria Illivna's complex life models can be identified depending on the tasks set, but it is worth saying that her life's work has become her way of being.

In the international model of the hero's life are various international research projects, for example, TACIS ACE of the European Union on model based estimation of Ukraine's foreign trade policy regarding the consequences of foreign trade regulation in this country and the impact of exogenous and control variables on key macro indicators; the Ukrainian-Polish project on developing a macro model of the development of knowledge based economy in Poland and Ukraine; the project on the development of an experimental economic cross-country model "Germany - Russia - Ukraine - Switzerland", various World Bank projects on the simulation of the decrease in employment in the context of the negative demographic situation in Ukraine and the spread of epidemic diseases and, finally modeling the consequences of changes in Ukraine's tax policy. As regards the state-building model, M.I. Skrypnychenko participates in the group of experts of the National Academy of Sciences of Ukraine engaged in the development of this country's first draft law "On state forecasting and elaboration of economic and social development programs of Ukraine", preparation of annual messages of the President of Ukraine to the Verkhovna Rada of Ukraine in the part dealing with the forecasting social and economic development, information notes and analyses on topical issues of estimation and modeling of key macro development indicators of Ukraine's economy..

Sincerely congratulating Maria Illivna Skrypnychenko on her glorious anniversary, the editorial board of the journal "Economics and Forecasting" and the entire personnel of the Institute for Economics and Forecasting wish her unquenchable youthful enthusiasm, only a slight (within statistical) error in forecasts and a "star" approach to the accumulation of her efforts in the search of scientific truth and the creation of new models of economic existence on a qualitatively different basis for the restoration and future prosperity of Ukraine!

*The editorial board of the magazine "Economics and Forecasting",  
the personnel of the Institute for Economics and Forecasting of the National  
Academy of Sciences of Ukraine*