1. EOSC Coffee Lecture

Was ist die EOSC und welche Ziele verfolgt sie?

Klaus Tochtermann, 30.01.2024
k.tochtermann@zbw-online.eu

Überblick EOSC Coffee Lectures

1. EOSC Coffee Lecture:
"Was ist die EOSC und welche Ziele verfolgt sie?"

Datum: Dienstag, 30. Januar 2024

Uhrzeit: 16:00-17:00

2. EOSC Coffee Lecture:
"Wo steht die EOSC heute und welche Zukunftsperspektiven gibt es?"

Datum: Dienstag, 27. Februar 2024

Uhrzeit: 16:00-17:00

3. EOSC Coffee Lecture:
"Welche Möglichkeiten zur Beteiligung gibt es?"

Datum: Dienstag, 26. März 2024

Uhrzeit: 16:00-17:00

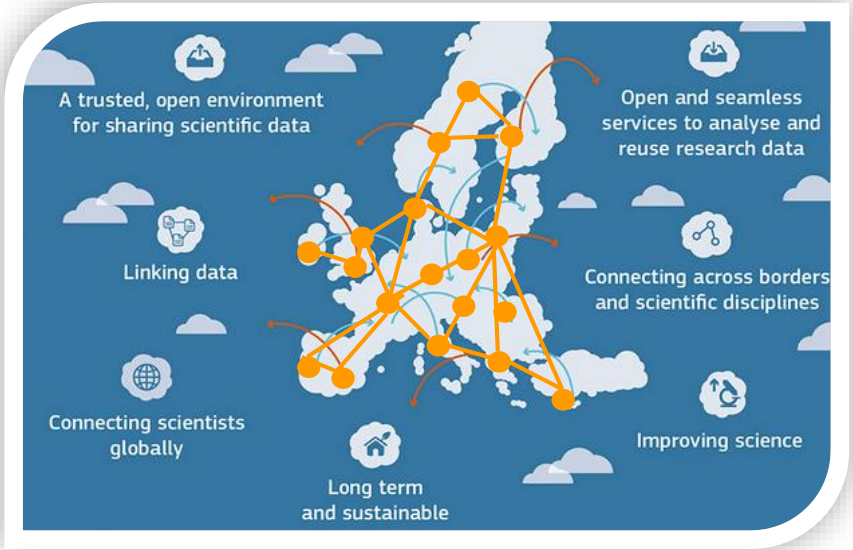
Überblick 1. Coffee Lecture

- History of the EOSC
- Objectives and non-objectives of the EOSC
- Governance structure of the EOSC
- Timetable for the implementation of the EOSC

History of EOSC

2016 2016 2018 2020 2021

Idea of EOSC


A trusted, open environment for sharing scientific data
Open and seamless services to analyse and reuse research data
Linking data
Connecting across borders and scientific disciplines
Connecting scientists globally
Improving science
Long term and sustainable

EOSC Vision

What

EOSC is the European web of FAIR data and related services for research

Research data that is easy to find, access, interoperate and reuse (FAIR)

Trusted and sustainable research outputs are available within and across scientific disciplines

Why

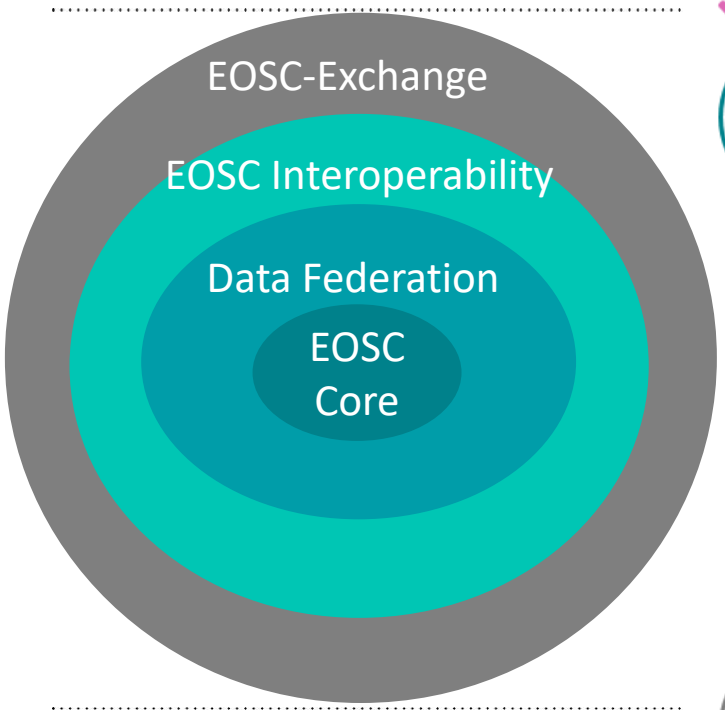
Unlock the full potential of research data to accelerate discoveries and innovation

How

- **Ensure that Open Science practices and skills are rewarded and taught, becoming the 'new normal'**
- **Enable the definition of standards, and the development of tools and services, to allow researchers to find, access, reuse and combine results**
- **Establish a sustainable and federated infrastructure enabling open sharing of scientific results**

Strategic Research and Innovation agenda (SRIA)
eosc.eu/sria-mar

Minimum Viable Environment of the EOSC



EOSC-Core
The prerequisite **service component enabling** the large-scale brokering of research data and services between the participants in the **EOSC Federation**

Data Federation
FAIR Data need to be federated in such a way that **metadata on research outputs is harvested into a cross-search to enable** greater **discovery and reuse** of data residing in multiple institutional, domain-specific and national repositories across Europe

EOSC Interoperability Framework
Set of standards and guidelines to support interoperability and composability of resources across borders and disciplines while respecting privacy and security

EOSC-Exchange
The Exchange is the **pan-European marketplace for the EOSC federated resources.** It enables the **brokering of community services between federation participants and** gives **access to procurement contracts.**

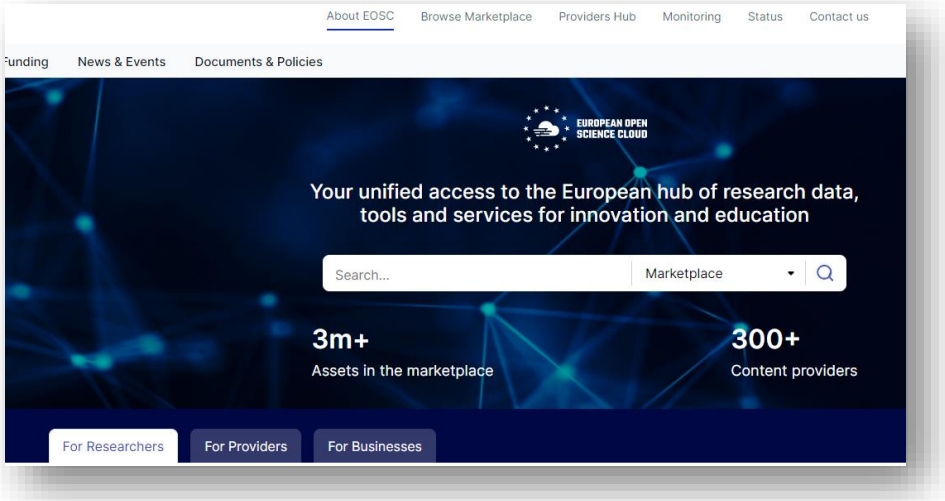
ZBW Leibniz-Informationszentrum Wirtschaft
Leibniz Information Centre for Economics

European Open Science Cloud is not…

1. …a cloud infrastructure

2. … synonymous of Open Science

3. … the EOSC Portal
https://eosc-portal.eu/



EOSC is not…

4. … a <u>new</u> pan-European e-infrastructure

5. … substituting any existing research infrastructures or e-infrastructures

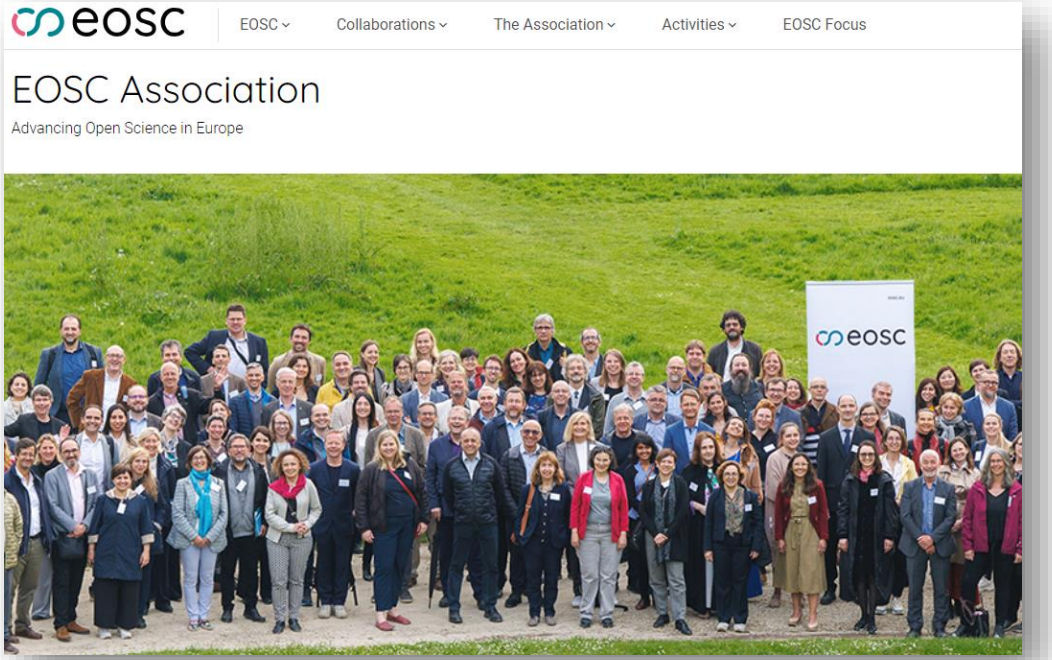
6. … only about technology, but a socio-technological infrastructure

EOSC is not

7. … the EOSC Association

   https://eosc.eu/

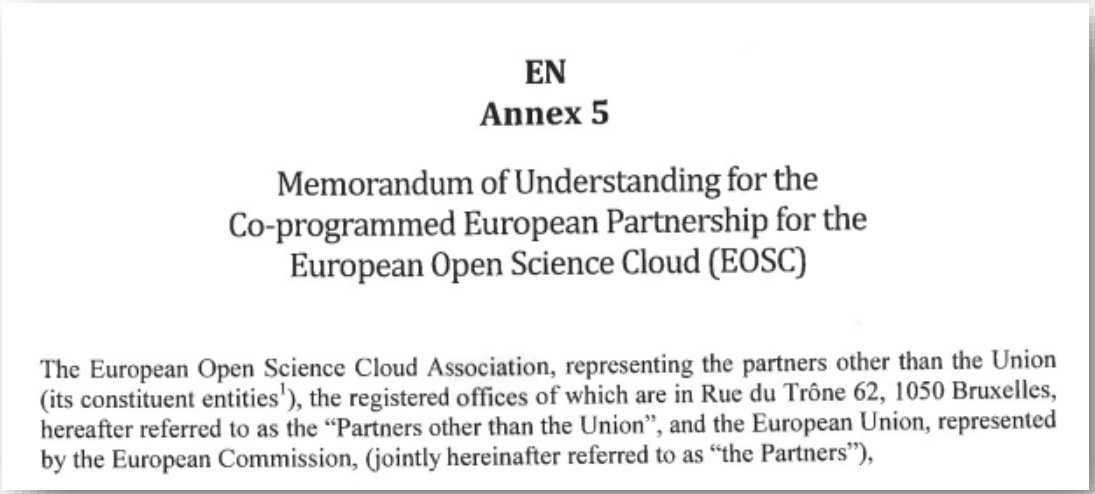
8. … yet a fully operational infrastructure



Memorandum of Understanding

Agreement on

- Governance
- Objectives (KPIs)
- Implementation
- Financing
- …



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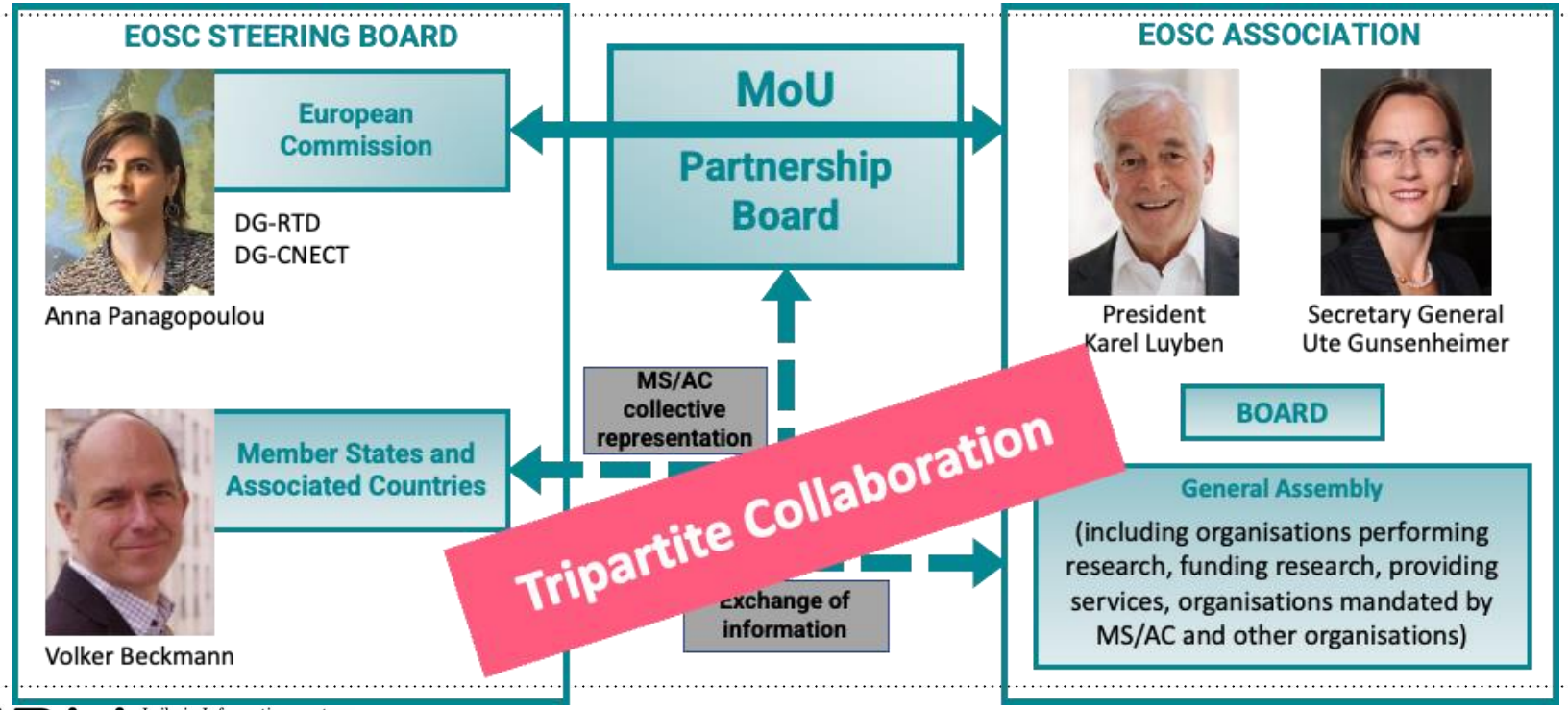
Annex 5

Memorandum of Understanding for the
Co-programmed European Partnership for the
European Open Science Cloud (EOSC)

The European Open Science Cloud Association, representing the partners other than the Union (its constituent entities[1]), the registered offices of which are in Rue du Trône 62, 1050 Bruxelles, hereafter referred to as the "Partners other than the Union", and the European Union, represented by the European Commission, (jointly hereinafter referred to as "the Partners"),

Governance Structure



Board of Directors of the EOSC Association

Karel LUYBEN
EOSC-A President, 2023-2025

Marialuisa LAVITRANO
EOSC-A Vice-President, 2024-2026

Klaus TOCHTERMANN
EOSC-A Treasurer, 2024-2026

Ignacio BLANQUER
EOSC-A Director, 2023-2025

Suzanne DUMOUCHEL
EOSC-A Director, 2024-2026

Sara GARAVELLI
EOSC-A Director, 2022-2024

Bob JONES
EOSC-A Director, 2022-2024

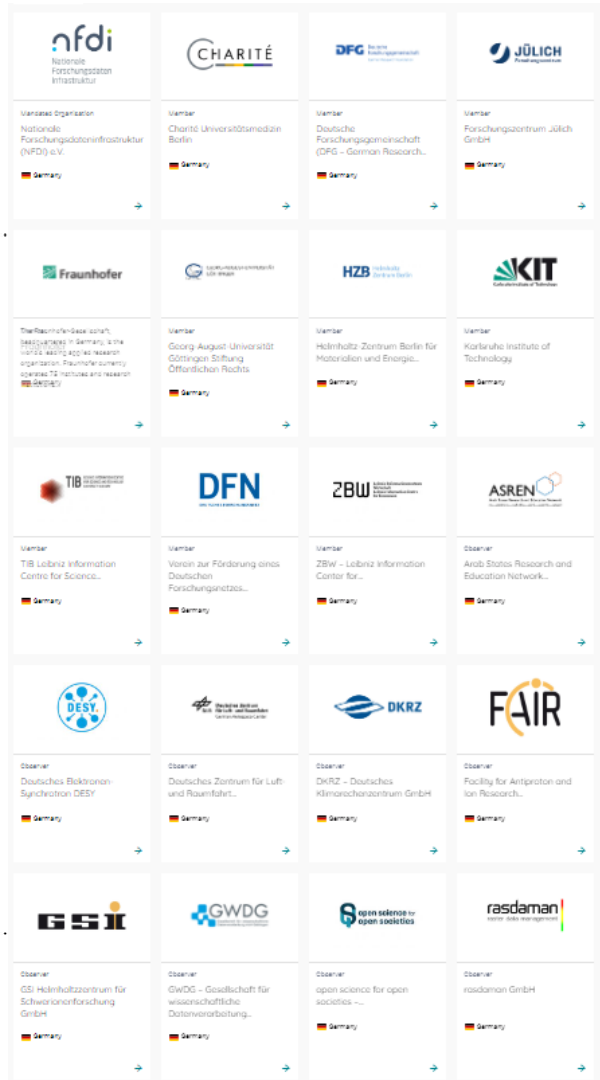
Sarah JONES (in memoriam)
EOSC-A Director, 2023-2025

Wilhelm WIDMARK
EOSC-A Director, 2022-2024

Members of the EOSC Association

249 Members from Member States/Associated Countries

- 29 Mandated Organisations
- 133 Members
- 87 Observers



Member Input for EOSC Implementation

Metadata and data quality

To ensure research objects can be discovered, understood and reused, as well as to define and implement benchmarks to assess the level of FAIRness and data quality to ensure content can be relied on.

- FAIR Metrics and Data Quality Task Force
- Semantic Interoperability Task Force
- PID Policy and Implementation Task Force (PID TF)

Research careers and curricula

The most important stakeholders for EOSC are the researchers.

- Data Stewardship, Curricula and Career Paths Task Force
- Research Careers, Recognition and Credit Task Force
- Upskilling Countries to Engage in EOSC Task Force
- Researcher Engagement & Adoption Task Force (REA TF)

Technical challenges

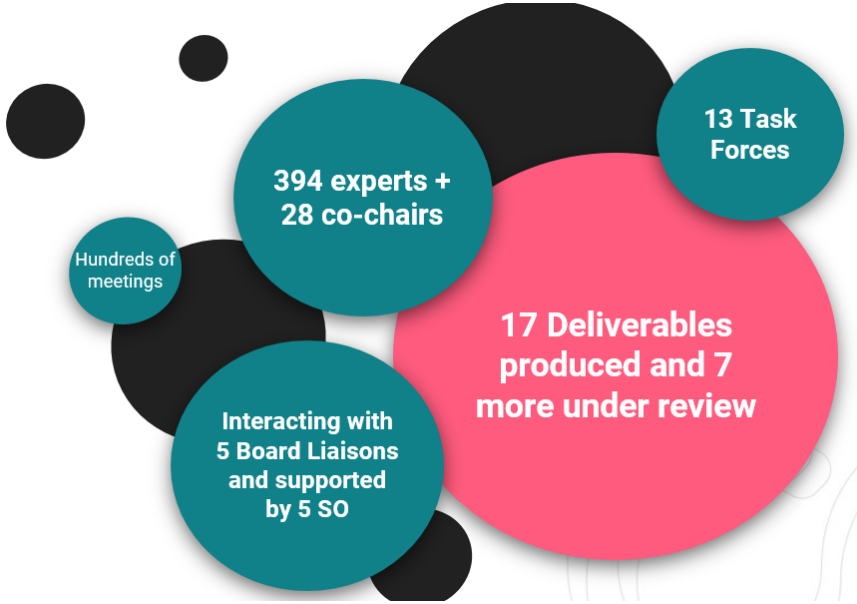
Focus on implementing the technical architecture and interoperability in EOSC and steer strategic areas of future work, such as infrastructure for sharing quality research software.

- Authentication and Authorization Infrastructure Architecture (AAI) Task Force
- Infrastructures for Quality Research Software Task Force
- Technical Interoperability of Data and Services Task Force
- Long-Term Data Preservation Task Force

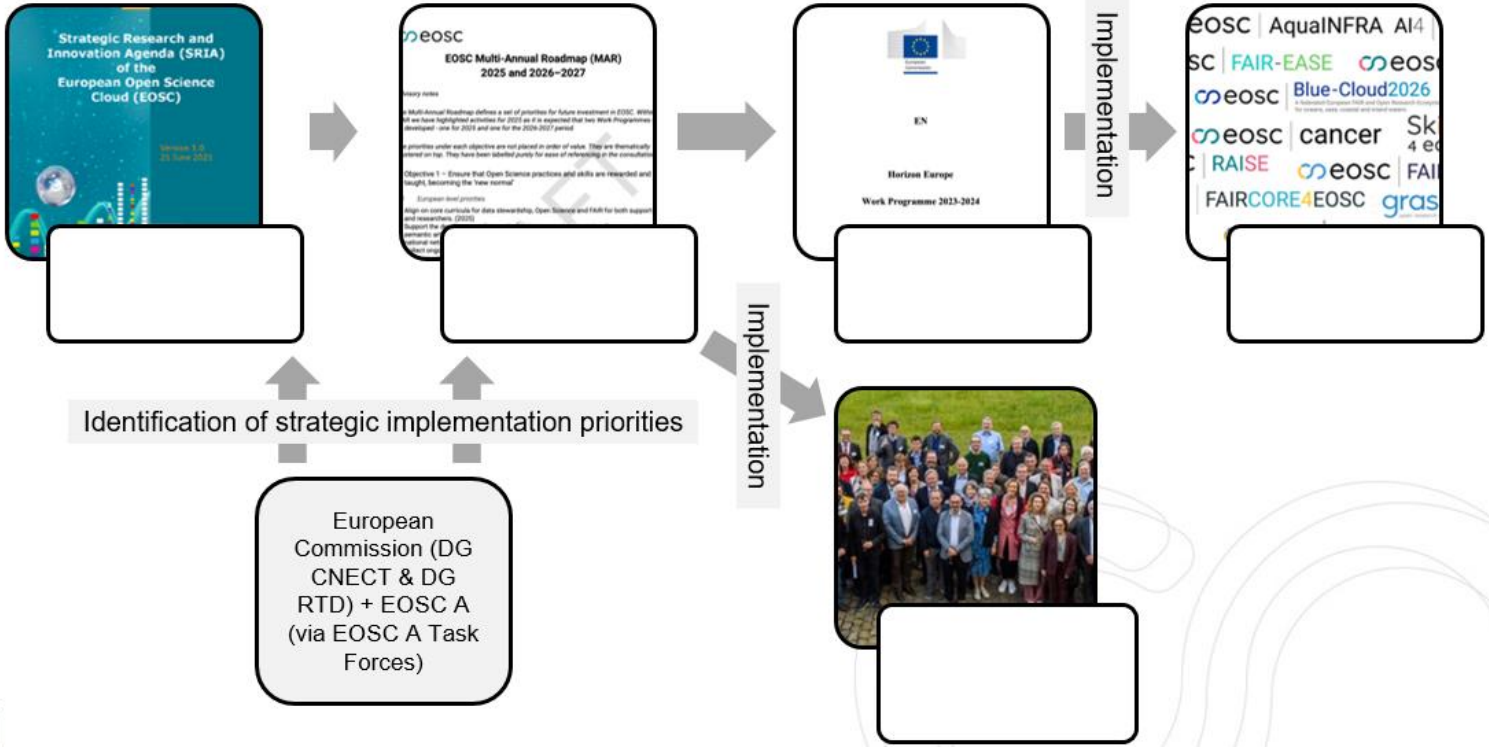
Sustaining EOSC

EOSC's long-term survival depends on the implementation of a scalable and sustainable EOSC ecosystem, including funding models and integration of national and thematic infrastructures that are closely coupled with the governance structures and legal entity.

- Financial Sustainability Task Force
- Rules of Participation Compliance Monitoring Task Force (RoP TF)



EOSC Implementation



Core funding for the EOSC development (2018-2027)

EOSC phase 1: 2018 - 2020	EOSC phase 2: convergence 2021 - 2027	EOSC phase 3: operation Post-2027
Funding instruments: **H2020 calls/grants approach**	**Funding instruments:** **HE INFRAEOSC calls / grants approach** **EOSC Procurement** **In kind contributions from the EOSC Association members**	**Funding instruments:** Under discussion
Funders: **European Commission (DG CNECT; DG RTD)**	**Funders:** **European Commission (DG CNECT; DG RTD)** **Members of the EOSC Association**	**Funders:** Under discussion
Total funding: **350 M€**	**Total funding:** **1 billion € (500M€ from the EC + 500M€ as in kind contributions from the EOSC Association members)**	**Total funding:** Under discussion
Main purpose: To support the implementation strategy defined in the **EOSC roadmap** 2018-2020 by the European Commission	Main purpose: To support the implementation of the **strategic priorities identified in the Multi Annual Roadmap 2021-2022; 2023-2024; 2025; 2026-2027 of the Strategic Research and Innovation Agenda (SRIA)**	Main purpose: To support the **EOSC strategy and governance post 2027**

Meet the EOSC Community

Further Information

Open Innovation, Open Science, Open to the World

http://europa.eu/rapid/press-release_SPEECH-15-5243_en.htm

Realising the European open science cloud

https://op.europa.eu/s/zbis

Prompting an EOSC in practice

https://op.europa.eu/s/zbir

EOSC Executive Board

https://eoscsecretariat.eu/eosc-governance/eosc-executive-board

EOSC Portal

https://eosc-portal.eu/

Further Information

EOSC MoU for Co-programmed European Partnership

EOSC_Memorandum_30_July_2021-1.pdf

EOSC Association

https://eosc.eu/

Strategic Research and Innovation Agenda/Multi-Annual Roadmap

https://eosc.eu/sria-mar

INFRAEOSC Call 2024:

Enabling an operational, open and FAIR EOSC ecosystem (INFRAEOSC) - European Commission (europa.eu)

Klaus Tochtermann
Kiel / Hamburg
Email: k.tochtermann@zbw-online.eu