



EOSC Association: Updates at EU level

17 May 2024

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Board of Directors

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eossc Agenda

1. Latest from EOSC

1. Building the EOSC Federation
2. EOSC post-2027

2. Latest from the EOSC Association

1. New EOSC-Association Task Forces
2. SRIA 2.0
3. New funded opportunity: INFRA-2024-EOSC-02-01 / EOSC United proposal development

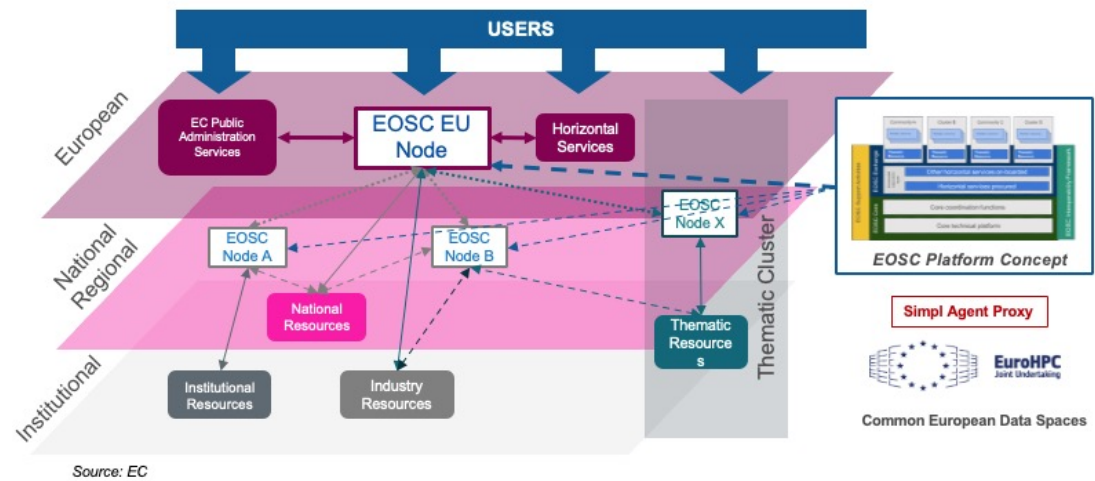
3. EOSC Symposium 2024

17 May 2024



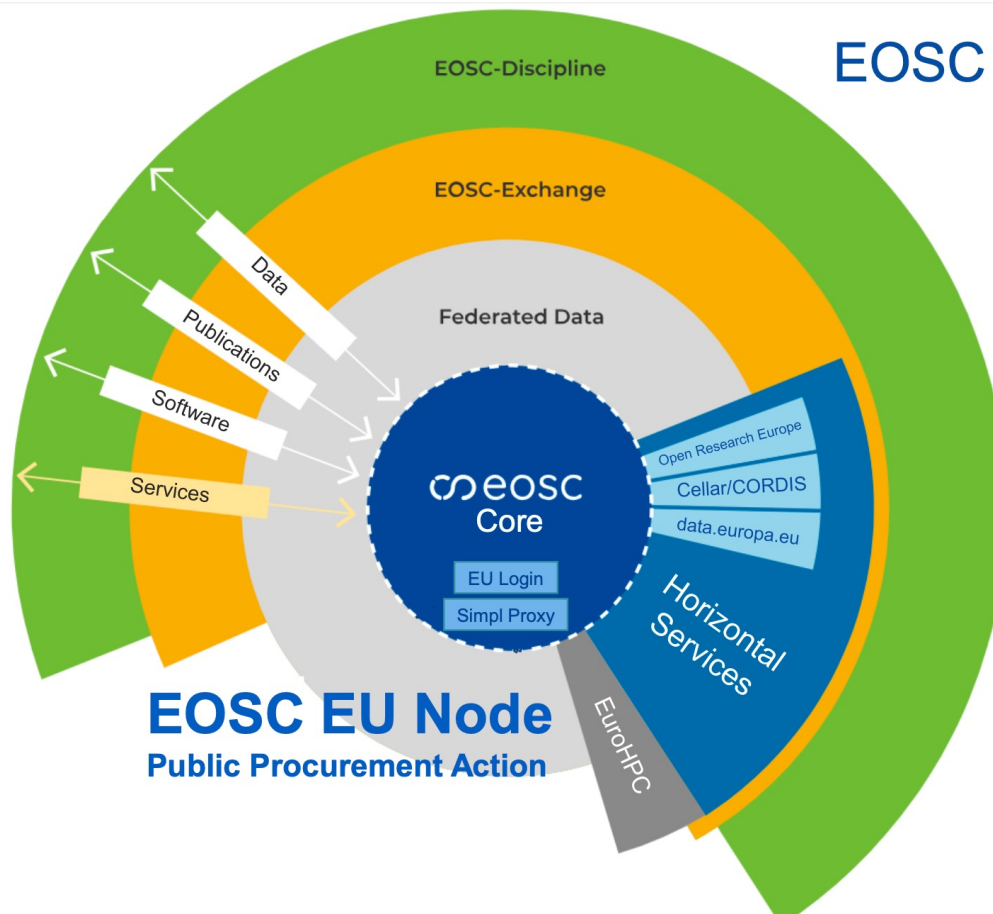
EOSC Federation

- is a federation of **distributed systems** ('system of systems')
- enables collaboration to achieve common goals and users **to access additional resources beyond their usual environment**
- has **policies and rules** defined by the legal entity governing the EOSC Federation
- consists of multiple "Nodes" ([Introduction EOSC EU Node and concept of Nodes by EC in the context of the EOSC Procurement](#))
- can **be scaled by adding more Nodes**



Status of the EOSC Federation development

EOSC EU Node

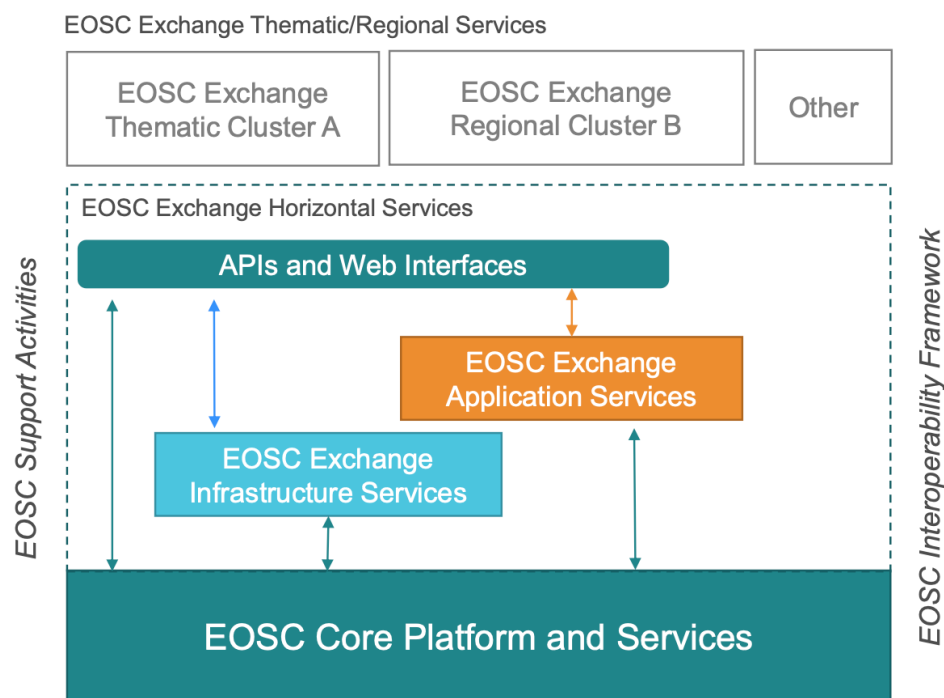


EOSC EU Node Value Proposition

- **Facilitate** the creation of the “*Web of FAIR data and interoperable services*” (aka. EOSC Federation) under the Open Science Policy
- **Put** a “*seed in the ground*” by operationalizing the first recognised EOSC Node at the European level for the initial 3 years
- **Offer** “*core services*” for scientific research infrastructures to federate (single-sign-on, catalogues, knowledge graph, application workflow, monitoring, accounting, helpdesk) and common “*horizontal services*” for end-users to benefit from (compute, containers, data transfer, notebooks, file sharing, open research data)
- **Define** the *pathway and blueprint* (EOSC Interoperability Framework) for other potential EOSC Node operators to join the federation

Status of the EOSC Federation development

EOSC EU Node – High-level architecture



Procurement Lot Structure

Lot 3

Managed Collaborative Data Platform, Interactive Data Analytics Platform and Visualization Services for the EOSC Exchange (Application Services)

Lot 2

Managed Container Platform and Virtual Machine Services for the EOSC Exchange (Infrastructure Services)

Lot 1

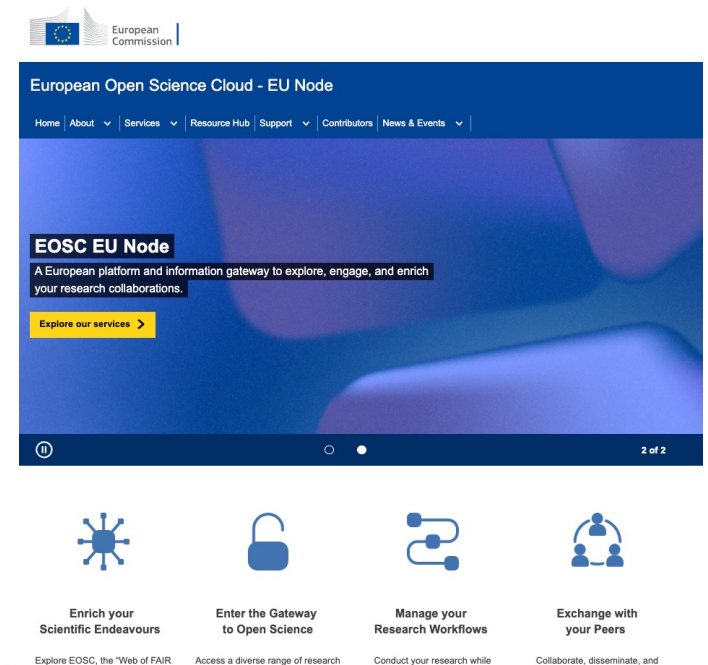
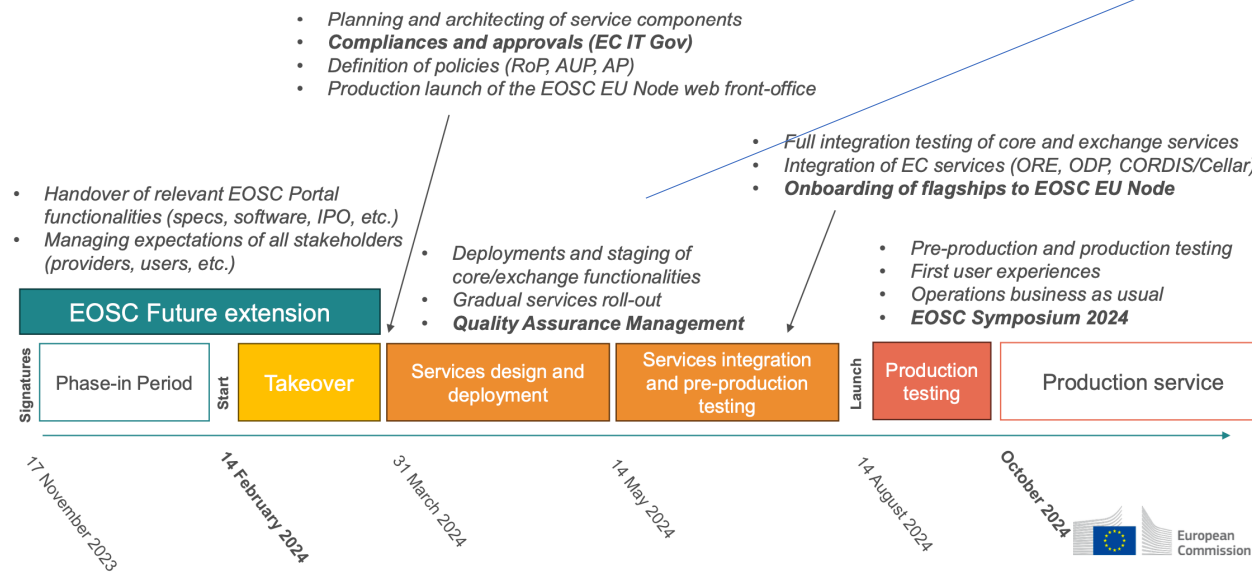
Managed Services for the Development, Integration, Deployment and Operations of the Federated EOSC Core





Status of the EOSC Federation development

EOSC EU Node – Planned Timeline and Milestones



open-science-cloud.ec.europa.eu

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Status of the EOSC Federation development

Other EOSC nodes & Federation rules

Ongoing activities:

- Definition of the **“node” concept**: minimum requirements for being a node; benefits of becoming a node; duties of a node, etc.
- Definition of the **“rules of participation” (enrolment of nodes)** in the EOSC Federation
- Definition of the **process to enrol new nodes** in the EOSC Federation (multiple waves of enrolment of nodes)
- **Financial and governance implications** of the EOSC Federation



The process:

• EOSC-A Handbook

The EOSC Association is collecting contributors to draft the Handbook of the EOSC Federation (**focus on technical operation of the federation**) eosc.eu/eosc-federation-handbook/ (deadline 23 May 2024)



• New EOSC tripartite group

Representatives of the Tripartite Governance (EC DG RTD and DG CNECT; EOSC Steering Board members; EOSC-A Board of Directors and **ad hoc experts** appointed by the 3 parties) are meeting every 2/3 weeks to discuss

- i) **development of the Handbook** (provide feedback and validate concepts)
- ii) **governance and financial implications of the EOSC Federation**

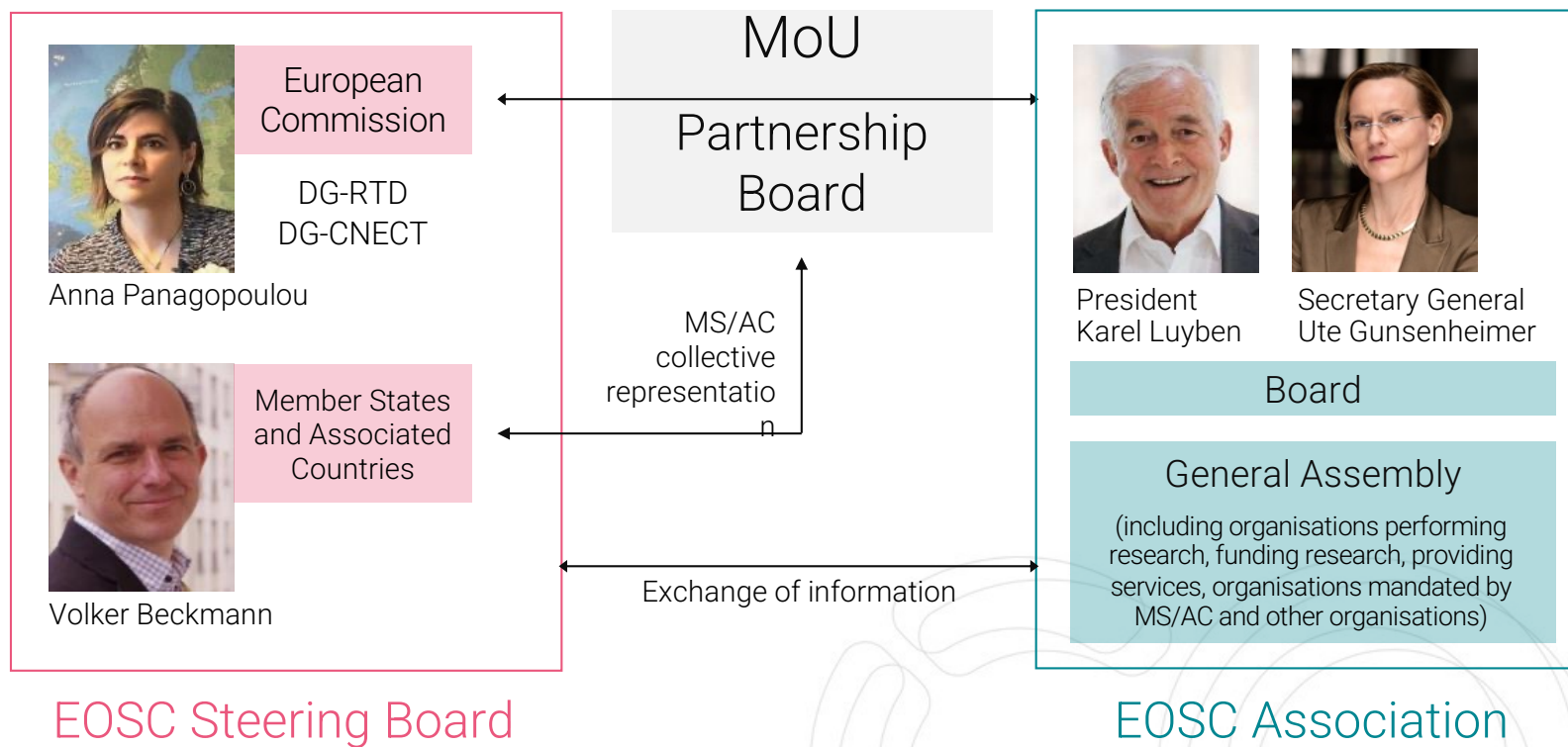


• EOSC Tripartite Governance

The EOSC tripartite group will inform the current **EOSC Tripartite Governance** (EC DG RTD and DG CENCT; EOSC Steering Board members; EOSC-A Board of Directors) that **will take the final decisions concerning the EOSC Federation**

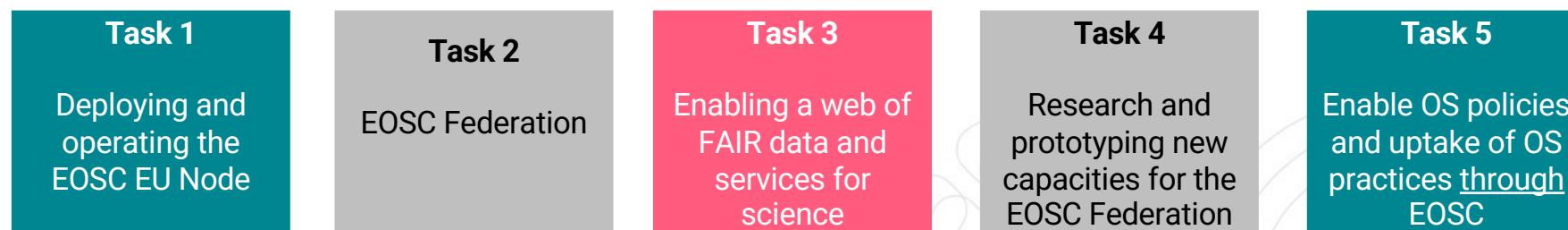
EOSC post-2027

EOSC is a Co-Programmed Partnership



EOSC post-2027

- The **existing EOSC Co-Programmed Partnership terminates in 2030**
- A choice for the governance of EOSC post 2030 has to be made in early 2025
- Actors involved in the decision making process (EOSC Tripartite Governance)
 - European Commission (DG RTD – DG CNECT)
 - EOSC Steering Board representatives
 - EOSC Association Board
- What has been done so far
 - Investigated some potential governance/financial models
 - Identified the activities that need to be sustained after 2027



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The Voice of the Community

EOSC Association



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The experts of the Association

2022-2023

13 Task Forces with over 500 volunteers

- Rules of Participation compliance monitoring
- PID policy and implementation
- Researcher engagement and adoption
- Technical interoperability of data and services
- Infrastructure for quality research software
- AAI Architecture
- Semantic interoperability
- FAIR metrics and data quality
- Data stewardship curricula and career paths
- Research careers, recognition and credit
- Upskilling countries to engage in EOSC
- Financial sustainability
- Long-term data preservation

2024-2025



eosc | Task Forces

Open call for EOSC-A Task Force members

- FAIR Metrics and Digital Objects
- EOSC Technical and Semantic Interoperability
- Long-term Data Retention
- Health Data

206 applications in total

75% applicants affiliated with EOSC-A Member or Observer organisation

Apply by 21 April!

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Next steps:

- [TF participation confirmed by the next GA](#)

Strategic Research and Innovation Agenda



Open Science practices and skills are rewarded and taught, becoming the 'new normal'

Standards, tools and services allow researchers to find, access, reuse and combine results

Sustainable and federated infrastructures enable open sharing of scientific results

Multi-annual roadmap sets priority activities and outcomes grouped by three implementation levels – European, National, Institutional

Three phases of MAR:

1. 2021-2022: development towards a functional federation of infrastructure
2. 2023-2024: expansion to production that generates added value
3. 2025-2027: expansion to develop impact from Open Science

eosc SRIA 2.0

Indicative Timeline



Indicative timeline for SRIA 2.0	
January	Draft Table of Contents
29 January	Discussion with INFRAEOSC projects and former TF Co-Chairs at “Winter School”
February	Identification of chapter owners and drafting of SRIA 2.0
April-June	Community consultation (First round closed on –may 5 th)
July	Draft shared with the EC
September-December	Arrive at a co-owned SRIA 2.0

New funded opportunity: INFRA-2024-EOSC-02-01

Future Engagement Model for the EOSC Federation (13 June – 19 September)

Expected Outcome: The work of this CSA should build on the (federation) services offered by the European Commission's EOSC Core Platform and provide feedback and input for the evolution of the EOSC Core Services and the EOSC Exchange to ensure a wider uptake. In this context, the CSA will also assist with the update and promotion of the EOSC Interoperability Framework and assist in the set-up a process for its updates.

- The CSA should execute at least two use cases to demonstrate and promote the use of the federation services provided by the EOSC Core Platform (EU Node) and document the experience and lessons learned. The use cases should be driven by real-life user needs and consider the long-term sustainability of such federations. The use cases should include Research Infrastructures able to federate within EOSC and users which gain novel capabilities for their research work.

Through the outcomes of the use cases, the CSA should propose to the EC and current EOSC governance a set of operational Rules of Participation and common set of policies and minimum requirements to be applied consistently across the EOSC federation.

- This set of rules, policies and requirements should be detailed in such a way they can be introduced in the operation of ESFRI, ERICs and other international, national or institutional RIs at the subdomain, domain and interdisciplinary levels as concerns the EOSC federation.
- They should be developed, maintained, and updated in accordance with the progressive deployment of the EOSC Core, EOSC Exchange and EOSC sustainability models and be based on latest input by the Task Forces of the EOSC Association and any additional, relevant input by the research community.

- Duration: 36 months
- Implementation phase: April 2025 – March 2028
- Beneficiaries (limited number)
- Associated Partners (covering of travel and meeting costs)
- *Substantial commitment of availability over summer 2024*
- **EOSC-A will open a call for its members**

CSA
3 MEUR
Lump sum

EOSC

EOSC Symposium 2024

21 - 23 October / Berlin, Germany

Registration open &
Call for Posters

More info:
<https://eosc.eu/symposium2024/>

eosc.eu | [#eoscsymposium2024](https://twitter.com/eoscsymposium2024)
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