

EOSC and its positioning in the EU Policy Landscape

An evolving European ecosystem for data-driven research

29 April 2026

4th EOSC Croatia National Tripartite event

University of Zagreb

Ana Teresa Mota

Open Science and Research Infrastructures

DG Research and Innovation - European Commission

European Open Science Cloud (EOSC)

An open, trusted, federation of infrastructures

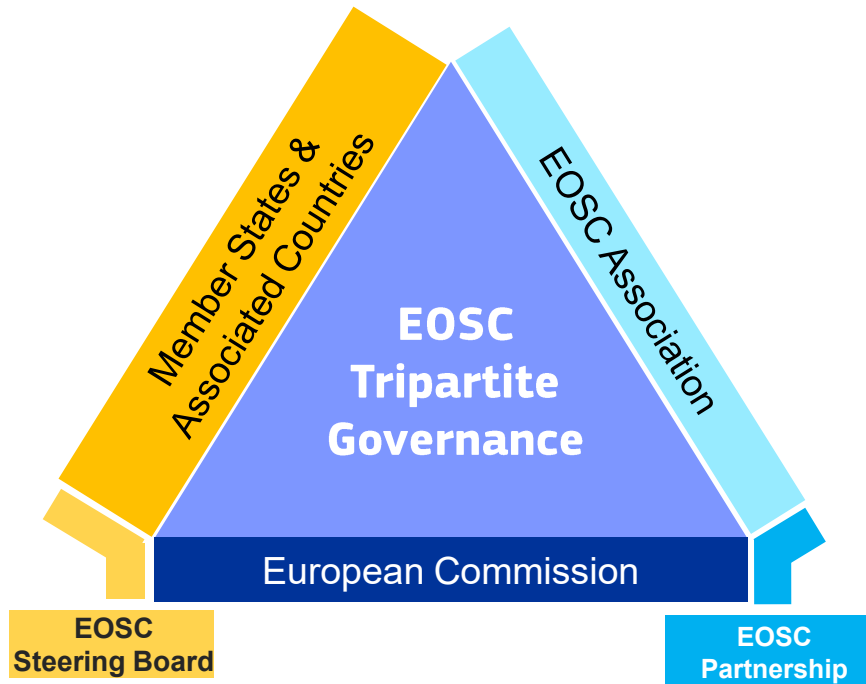
- A pan-European system interconnecting **FAIR research data** and **digital/scientific services and tools** across scientific disciplines and countries
- Enabling European researchers to **store, share, process, analyse, and reuse** research digital objects (e.g. data, publications and software)

An evolving ecosystem

- **Accelerate open science**, FAIR data management, and use of digital methods and services
- Stimulate **collaboration** in science and research, new **insights** and **innovations**, higher research **productivity** and improved **reproducibility** in science
- Bringing together the **EC, Member States, Associated Countries** and the many **R&I stakeholders** involved in the European Research Area - co-created across European, national, and institutional levels



EOSC: A joint initiative at EU, national and community levels



- ✓ Resource mobilisation and HE funding security **EC** EOSC A
- ✓ Strategic R&I Agenda **EC** EOSC A
- ✓ Community input for EOSC in Horizon Europe EOSC A
- ✓ Advice; national coordination **Steering Board**
- ✓ Position on EOSC in FP10 **Steering Board**
- ✓ Policy opinions **Steering Board**
- ✓ Financial estimates for EOSC post-27 **EC** **Steering Board**
- ✓ EOSC Open Science Observatory **EC** **Steering Board**
- ✓ Strategic Steer to Federation build-up **EC** **Steering Board** EOSC A
- ✓ EOSC Federation Handbook **EC** **Steering Board** EOSC A
- ✓ EOSC post-2027 **EC** **Steering Board** EOSC A

EOSC as enabler of the EU Open Science Policy

Objective to make **open science** the **norm** since it **facilitates sharing** and **collaboration**, to make research more efficient and productive, transparent and robust as well as responsive to policy and society needs and expectations.

*Improving the **practice***

- **Early and open sharing of research**, ensuring verifiability and reproducibility
- **Providing immediate and unrestricted open access** to research outputs
- **Research output management** in line with FAIR principles
- **Public engagement in R&I**, e.g. citizen science

*Developing the **enablers***

- **Incentives and rewards** to adopt open science practices,
- **Legislative and regulatory** environment for practicing open science
- **Horizon Europe provisions** on open science
- **Open research infrastructures** and skills e.g. Open Research Europe (ORE), **European Open Science Cloud (EOSC)**



EOSC in the ERA Policy Agenda 2025-2027

11 Structural Policies

longer-term activities
embedded in policy & R&I systems
require efforts beyond Agenda's 3y cycle
include 3y work plan

1. **Open science, data sharing & EOSC**
2. **Research Infrastructures**
3. Gender equality
4. Research careers
5. **Reforming research assessment**
6. Knowledge valorisation
7. Global approach to R&I
8. Strategic energy technology
9. R&I and higher education
10. **Trust in science**
11. Access to excellence



8 Actions

concrete, policy-driven & goal-oriented
completed within Agenda's 3y cycle

1. **Equity in open science**
2. Science for policy
3. Responsible use of AI in science
4. **Research security**
5. R&I for industrial transformation
6. New Approach Methodologies for biomedical research
7. **Integrity and ethics in R&I**
8. Research management

EOSC in the ERA Policy Agenda 2025-2027

European Research Area Policy Agenda 2025-2027

Structural policy #1 on ‘enabling open science via sharing and re-use of data, including through the **European Open Science Cloud**’

Expected outcomes:

- *develop a high-value **EOSC Federation** and increase its uptake*
- *increase the amount and productivity of **FAIR** research data in Europe*
- *identify areas for measures and initiatives to enable an EU **copyright and data** framework fit for research*
- *assess the **impact of open science** policies and practices based on an open science policy intelligence platform*



EOSC in recent EU strategies



Letta



Draghi



Heitor et al.

European Strategy on Research & Technology Infrastructures – September 2025

- *Sustain and enhance **the EOSC Federation** as Europe's research and innovation data space, enabling sharing and reuse of high-quality, FAIR research data, scientific results and digital services.*
- *Support **compliance with FAIR principles**, increasing FAIR data productivity, and connections to EOSC and other relevant data spaces.*
- *Support the **pooling and development of AI-ready research data** as well as **tools and services that enable the development of scientific AI models**, and their technological applications, accelerating the use of AI in science and, through it, contributing to the pilot phase of **RAISE**.*

AI Continent Action Plan – April 2025

AI in Science Strategy – October 2025

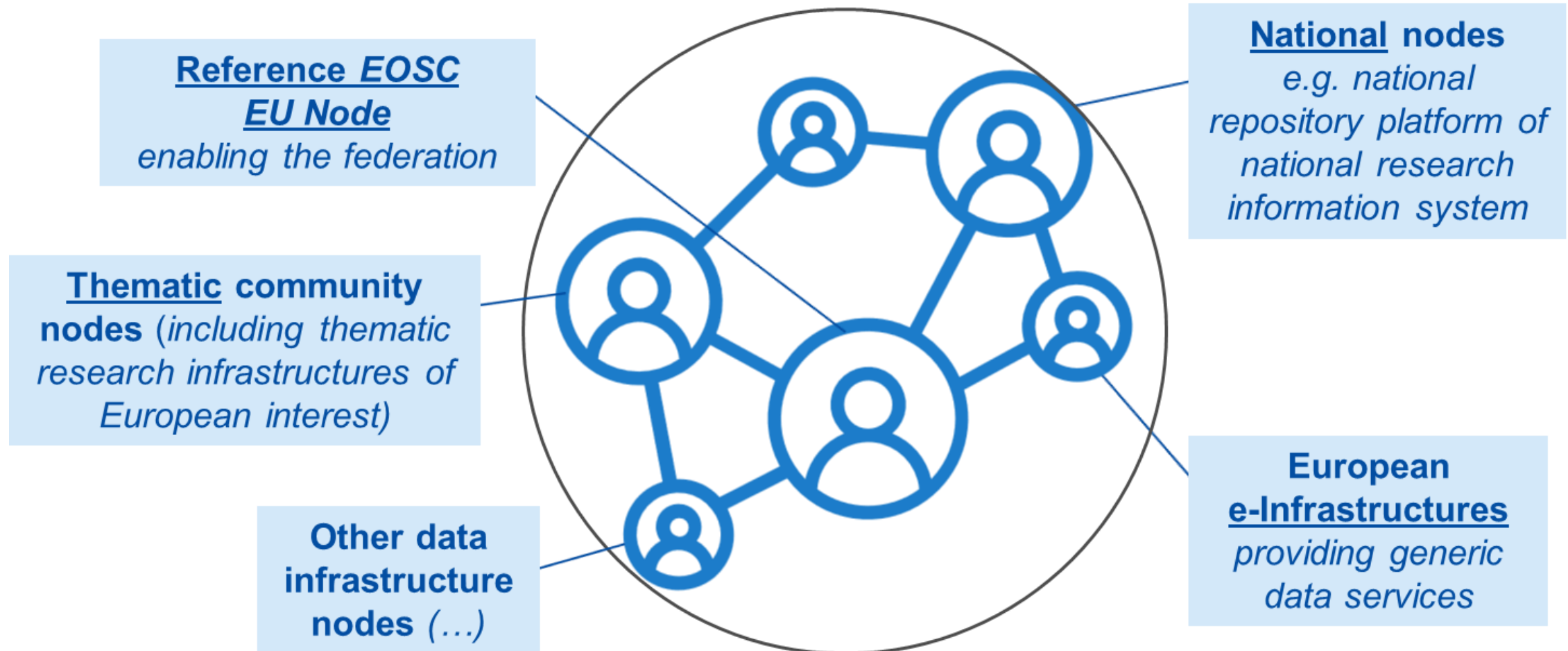
- RAISE (the Resource for AI Science in Europe) will work closely with EOSC, as well as the other Data Spaces, to make high-quality AI-ready data available for AI science.
- The Commission will support the design of **Data Labs** and their linking with **Common European Data Spaces**, in particular EOSC, to ensure their suitability for scientific research.

Data Union Strategy – November 2025

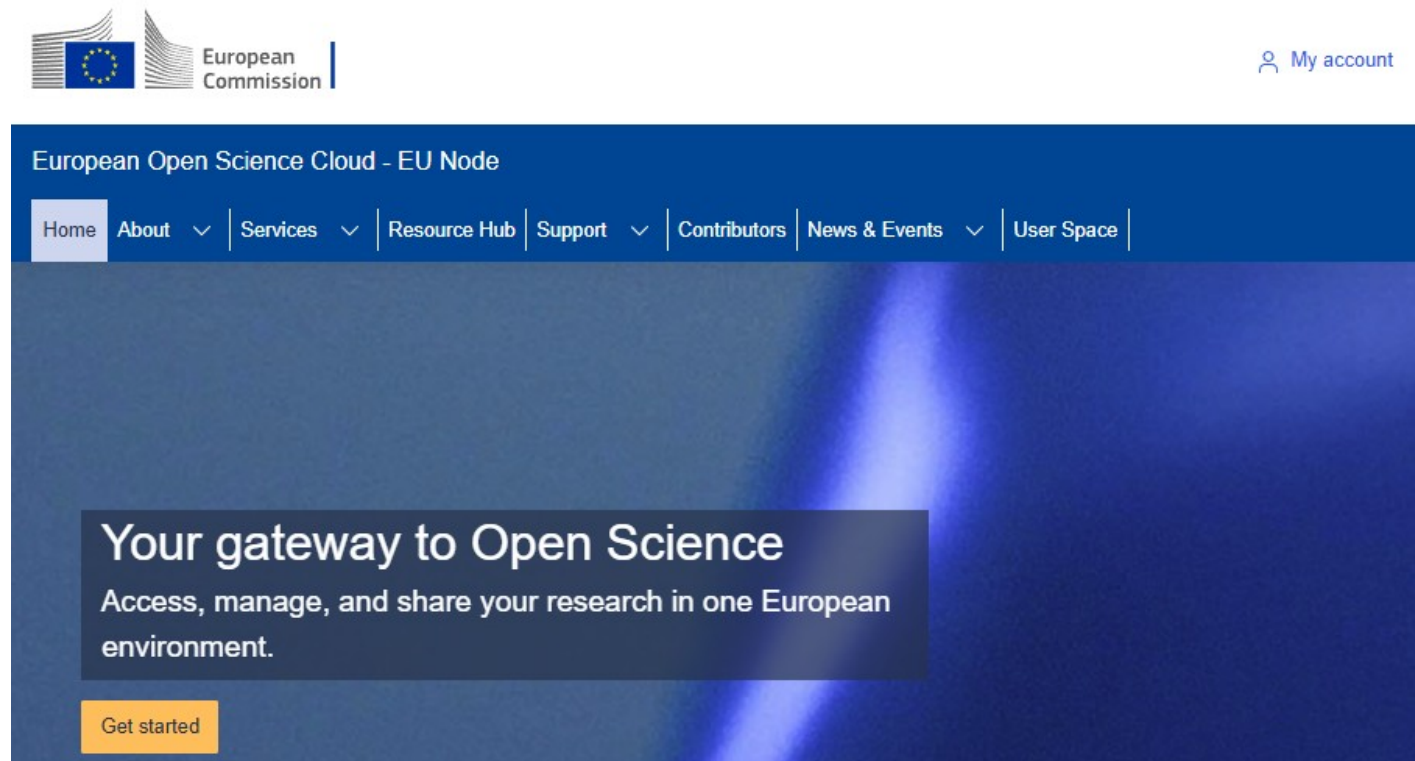
- *Data Labs (...) give companies and researchers secure, practical access to high-quality datasets, the support they need to ensure compliance with EU rules, and offer tools, guidance, and trusted environments for data pooling, curation, labelling and pseudonymisation.*



Building the EOSC Federation



EOSC EU Node



Services to researchers

- Manage research workflows
- Collaborate with Peers
- Discover research products

Provision of **federating and core capabilities**

- Authentication & Authorisation
- Catalogues, registry services
- Monitoring, accounting ('credits')
- Helpdesk
- ...

+5500 users

<https://open-science-cloud.ec.europa.eu/>



EOSC EU Node

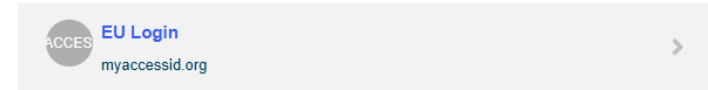
European Open Science Cloud EU Node

Access your account and take advantage of the free resources, perform research and collaborate.

Log in via MyAccessID

[MyAccessID Privacy Notice](#)

Chosen authentication provider



[+ Add another institution](#)

[Edit](#)

Our Services

Explore key services offered by the European Commission to support and advance your data-driven research, all within a collaborative environment built on FAIR principles.

File Sync and Share

Your personal cloud storage for collaborative research.

Interactive Notebooks

A shared space for coding and analysis.

Large File Transfer

Fast and secure file transfers.

Virtual Machines

Scalable cloud computing for reliable and reproducible results.

Cloud Container Platform

Simplified Kubernetes for scalable research.

Bulk Data Transfer

Smooth high-volume data transfers.



European Open Science Cloud - EU Node

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Home > Resource hub

Helpdesk

Advanced Search

NSCLC Search

All resources Publications Data Software Other Products Services Tools Training Data Sources Interoperability Guidelines

Access right Scientific domain Document type

Showing 1 to 20 of 152,013 resources

Relevance

PUBLICATION ARTICLE OPEN ACCESS

Year: 2003 | Views: 0 | Downloads: 0 | Citations: 10

Expression of bHLH Transcription Factors NSCL1 and NSCL2 in the Mouse Olfactory System

We examined the expression of basic helix-loop-helix transcription factors NSCL1 and NSCL2 in olfactory epithelium (OE) and the vomeronasal organ (VNO) during development. As detected by hybridization, at embryonic day (E) 10 NSCL1 was weakly expressed in the entire olfactory placode.

Authors Yuko, Suzuki | Eichi, Tsuruga | Toshihiko, Yajima | Masako, Takeda

Publisher Chemical Senses

Identifier 10.1093/chemse/bjg051 (DOI) | 14578122 (PMID)

Keywords Female Factors • DNA-Binding Proteins • Pregnancy • Helix-Loop-Helix Motifs • Transcription • Olfactory Receptor Neurons • Basic Helix-Loop-Helix Proteins • Olfactory Mucosa • Vomeronasal Organ • Blotting, Northern • In Situ Hybridization • Gene Expression

Expanding the EOSC Federation

- In March 2025, 13 Nodes joined the EU Node to build a first operational version of the EOSC Federation
- In November 2025, at the EOSC Symposium, first results were showcased and the operational phase of the EOSC Federation was launched
- Moving to production is one of the objectives for 2026

**EOSC Tripartite
Governance**

**EOSC Federation
build-up group**



EOSC Symposium 2025 in Brussels, Photo: EOSC Association



Expanding the EOSC Federation

On 21st April 2026, at its meeting in Cyprus, the EOSC Tripartite Governance discussed the inclusion of further nodes following the second wave of applications.

All 14 applicants were endorsed as Candidate EOSC Nodes and will be gradually integrated into the EOSC Federation:

- **National EOSC Nodes:** Czechia, Croatia, Latvia, North Macedonia, Sweden, Slovenia, Switzerland, and Türkiye;
- **Pan-European e-infrastructure EOSC Nodes:** GÉANT, EGI, and Scholarly Commons;
- **European thematic EOSC Nodes:** METROFOOD-RI, EBRAINS RI, and ENVRI.

Added value of joining and/or using EOSC:

- Increasing visibility and re-use of **discipline-specific** data and services
- Connecting thematic communities, facilitating **interdisciplinary** research
- Pooling massive amounts of high-quality FAIR research data, **enabling AI**
- **Secure** storing, analyse and sharing of data, services and tools



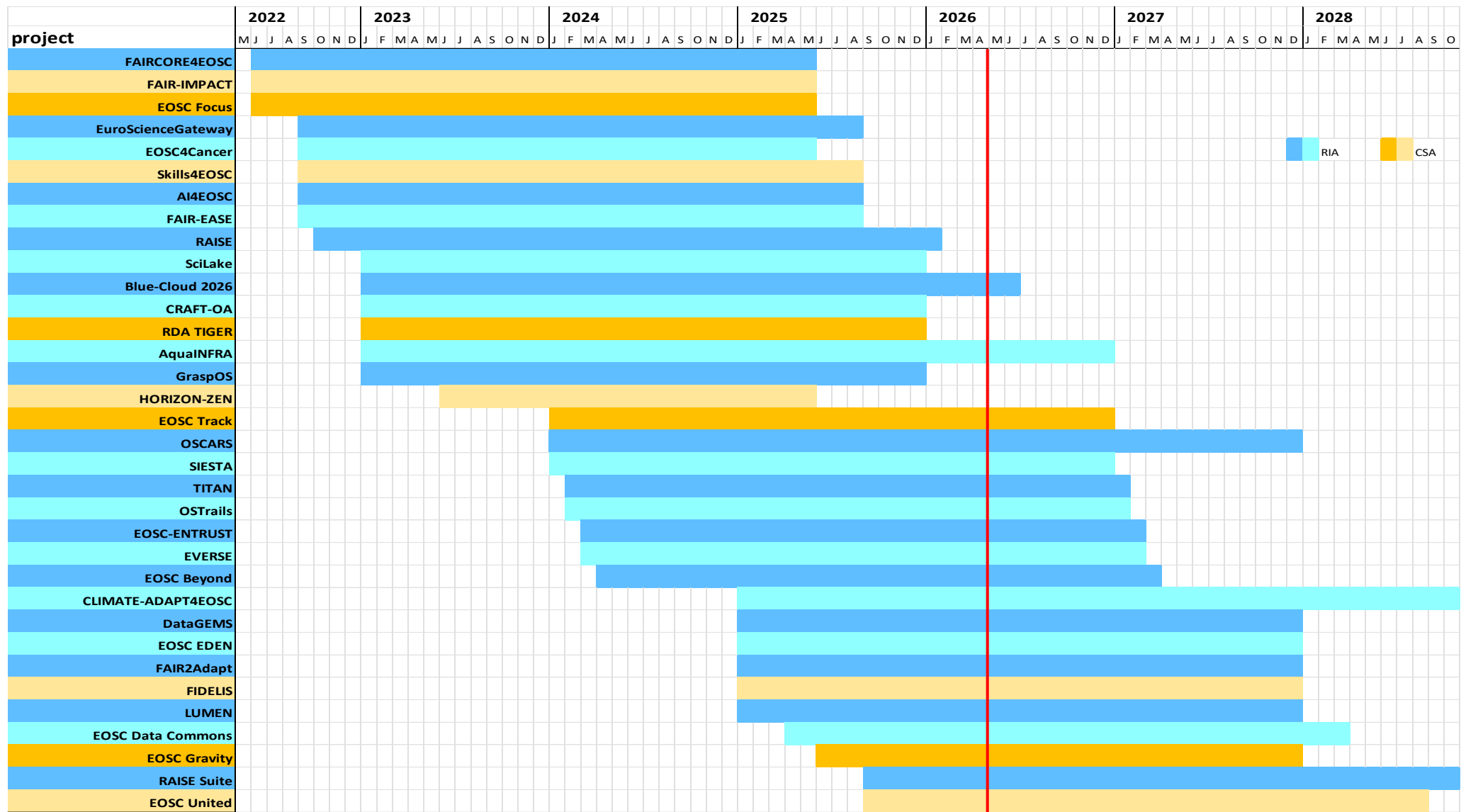
FP9 (Horizon Europe) support to EOSC

Around **€500 million** under EOSC co-programmed partnership

- 2021 - 2024** • 34 grants // 711 participants // 370 unique participants
 - 1 procurement (EU Node)
- 2025** • 5 topics // projects in grant preparation phase
 - EOSC Nodes with federating capabilities for the EOSC Federation
 - FAIR Integration for Enhanced Research Data in the EOSC ecosystem and beyond
 - Advancing AI-readiness and Machine-Actionability in the EOSC Ecosystem
 - Data stewards, skills and training for Open Science and FAIR practices
 - Using Generative AI (GenAI4EU) for Scientific Research via EOSC
- 2026 - 2027** • 4 topics // **calls open (until 16th June)** // calls upcoming
 - Uptake of FAIR data management practices and of EOSC by research communities and research infrastructures
 - Trusted frameworks for secure and efficient data sharing in EOSC
 - Expanding and deepening the EOSC Federation
 - Strengthening the potential of the EOSC for knowledge valorisation and industry academia collaboration
 - 1 procurement (EU Node)



EOSC projects in FP9 (Horizon Europe)



The structure of FP10 – the new Horizon Europe

Total budget EUR 175 billion



¹ Consistent with activities under the European Competitiveness Fund

Novelties in FP10

**Further
Simplification**

**Partnerships
Landscape**

EIC

**Research and
Technology
Infrastructures**

Widening

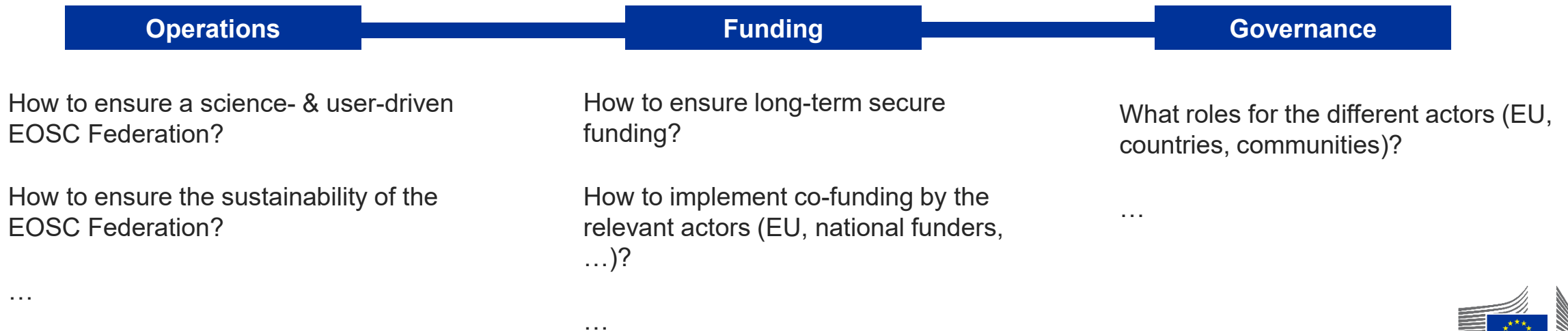
**Dual-use
research**



Future directions for EOSC

- Sustaining and enhancing the **EOSC Federation**
- Contributing to the **web of FAIR data and the uptake of AI**
- Ensuring research **security** and **sovereignty**
- Linking with **other Common European Data Spaces and beyond**

Towards a model for EOSC after 2027...



Thank you!



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