



National Tripartite Event  
Nicosia, 20 April 2026

# The European Open Science Cloud - an Overview

Ute Gunsenheimer, EOSC-A, Secretary General



The ambition of the European Open Science Cloud, known as EOOSC, is to develop a **‘Web of FAIR Data and Services’** for science in Europe. The implementation of EOOSC is based on a long-term process of alignment and coordination pursued by the Commission since 2015.

The European Open Science Cloud (EOSC) is a key enabler of the digitalisation of research infrastructures while delivering the European Data Space for research data. It has potential to become the most generally used infrastructure in Europe.

The Heitor report, Commission Expert Group on the Interim Evaluation of Horizon Europe

# Align Act Accelerate

Research, Technology and Innovation  
to boost European Competitiveness



# The EOSC Association

Purpose & benefits



# The Purpose of the EOSC Association

Incorporation, 29 July 2020

1

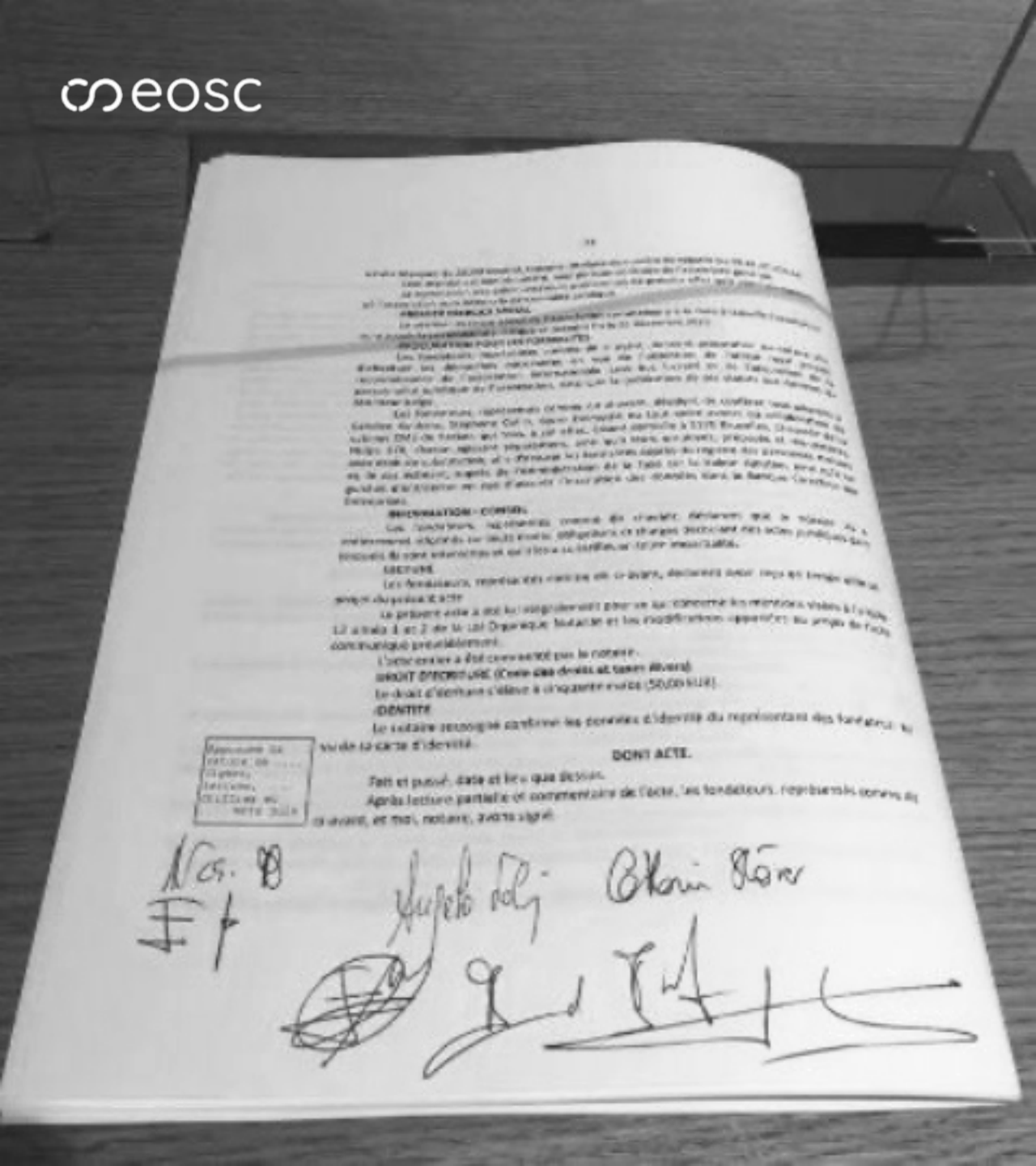
to provide a single voice for the advocacy and representation of the broader EOSC stakeholder community;

2

to promote the alignment of European Union research policy and priorities with activities coordinated by the Association;

3

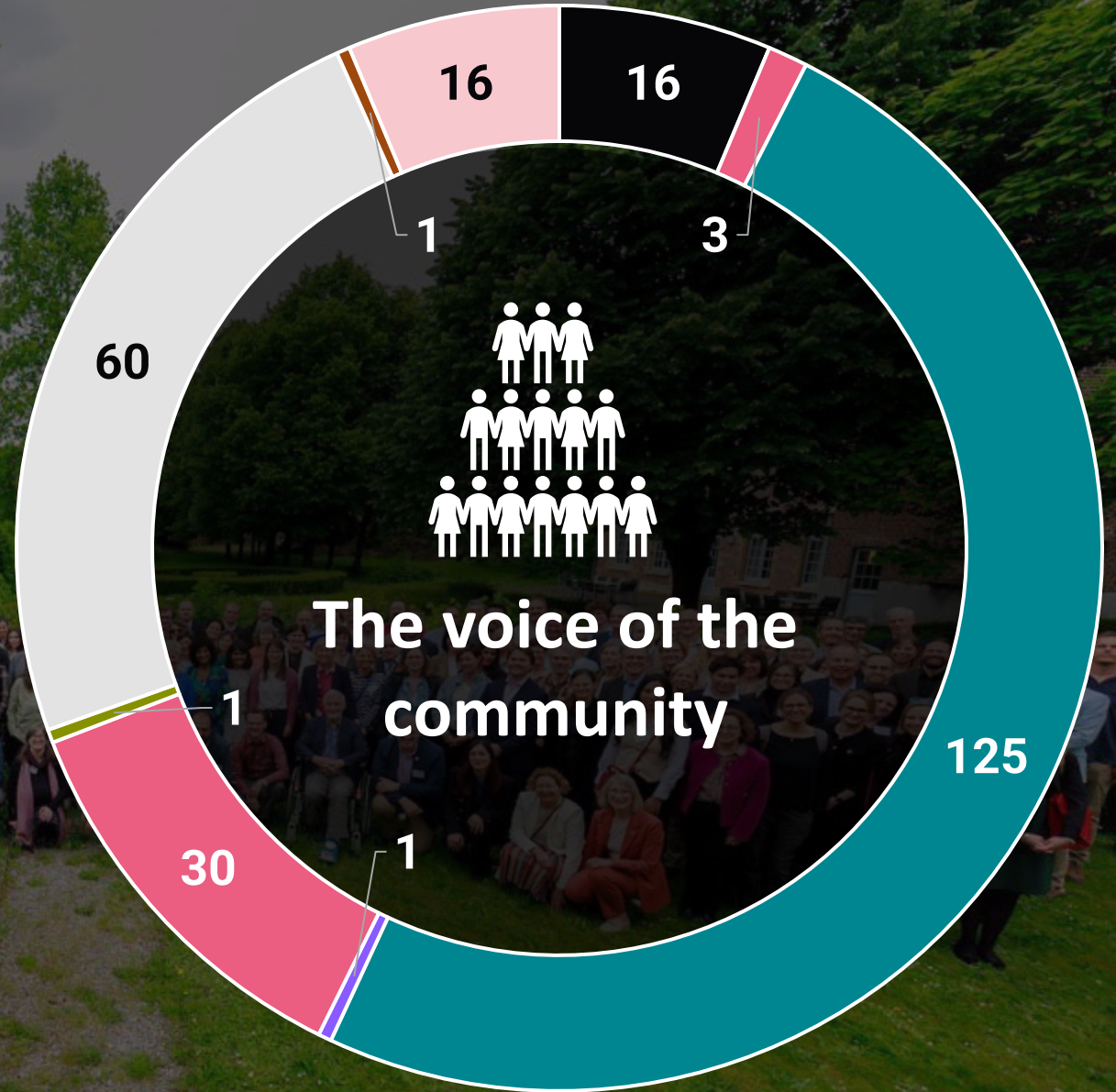
to enable seamless access to data through interoperable services that address the entire research data life cycle.



>250

EOSC Association  
Members & Observers

- Research Funding
- Research Funding, Service Provider (Including RI)
- Research Performing
- Research Performing, Research Funding
- Research Performing, Service Provider (Including RI)
- Research Performing, Service Provider (Including RI), Other
- Service Provider (Including RI)
- Service Provider (Including RI), Other
- Other



# eosc Organisations reached indirectly via EOSC-A membership









## Observer since November 2024

The Cyprus Institute is being developed as an international science and technology organisation to strengthen the research community of Cyprus and to help transform its economy to a knowledge-based economy.

## EOSC-related projects where participants from Cyprus are involved as partners

			
Fair Data and Innovative Services for Magnifying the Climate Adaptation potential of European Communities	FAIR data from collection to exploitation	e-Infrastructure Reflection Group Support Programme 7	Research Analysis Identifier System
<a href="#">→</a>	<a href="#">→</a>	<a href="#">→</a>	<a href="#">→</a>

Ongoing

Closed



#HorizonEU

# HORIZON EUROPE

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**THE EU  
RESEARCH & INNOVATION  
PROGRAMME**

2021 – 2027

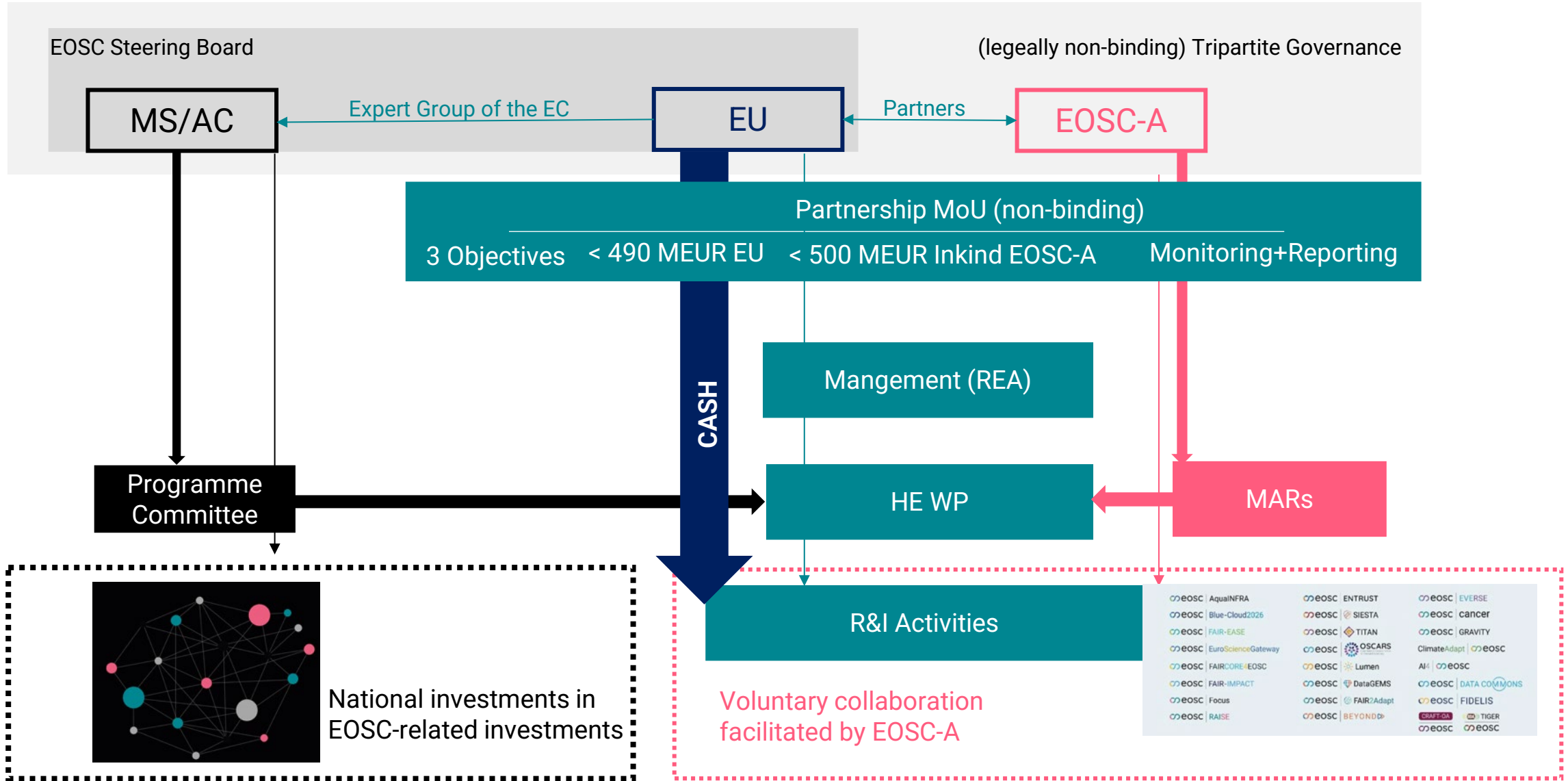
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**EUROPEAN PARTNERSHIPS  
UNDER HORIZON EUROPE**

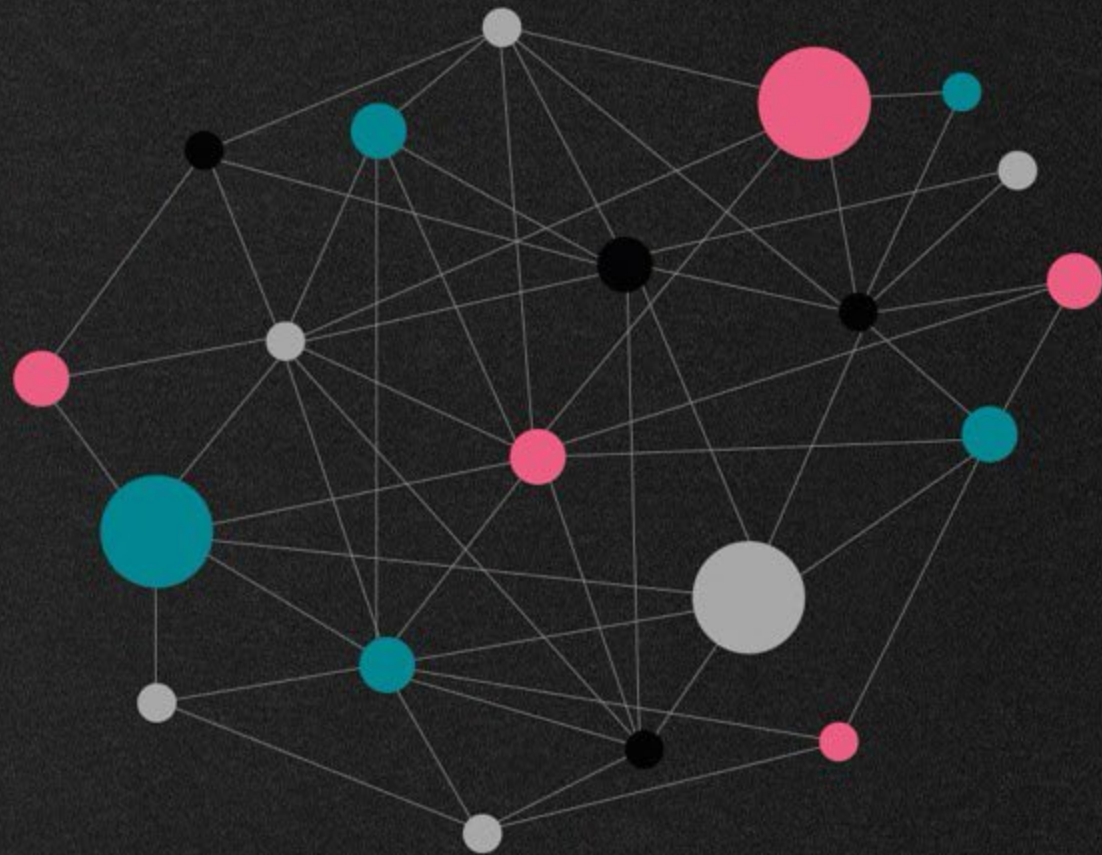


# eosc Horizon Europe co-programmed EOSC Partnership

2021 – 2027 (+ 3 additional years for closing out)



# Building the EOOSC Federation

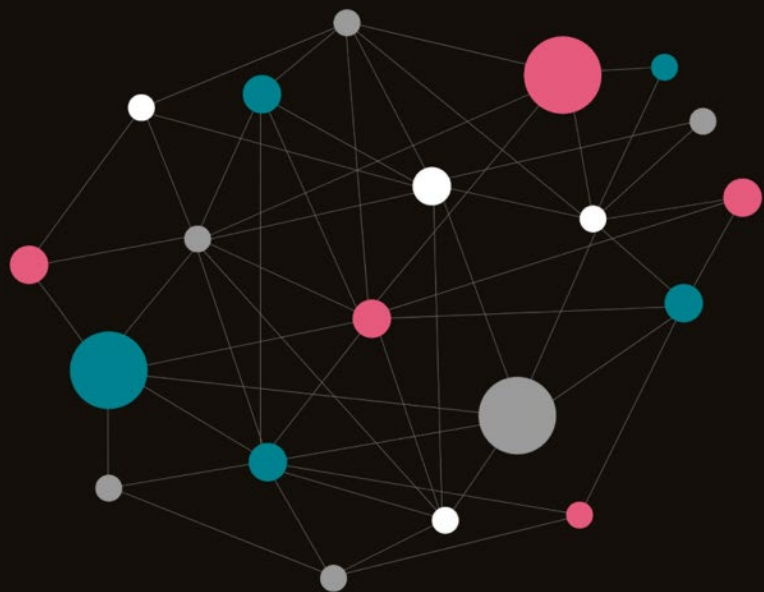




The vision for EOSC is to establish a system that enables researchers in Europe to store, share, process, analyse, and reuse FAIR research outputs—such as research data, publications, and software—across disciplines and borders.

- **System of systems approach:** Build on existing and planned infrastructures to create an interconnected ecosystem.
- **Inclusivity and accessibility:** Ensure low barriers to entry, ease of use, and broad participation.
- **Community-driven and participatory:** Engage the research community in co-creating and shaping the Federation.
- **Trust, security, and governance:** Establish clear rules, monitoring, and enforcement mechanisms to ensure a safe and reliable environment.
- **Flexibility and adaptability:** Allow for an evolutionary approach, adapting based on findings and lessons learned.
- **Autonomy and control:** Respect institutional autonomy while ensuring that data and service owners retain full control over shared resources and openness levels.
- **Broad engagement and transparency:** Keep all interested stakeholders informed and involved in key developments.

# EOSC Federation Handbook



Version 2.0

## Version 2.0

- Serves a **hands-on guide** for organisations interested in making their resources available through the EOSC Federation
- Offers a comprehensive **overview of the Federation's organisational, operation, and technical characteristics**
- Available on Zenodo, DOI: 10.5281/zenodo.18454649

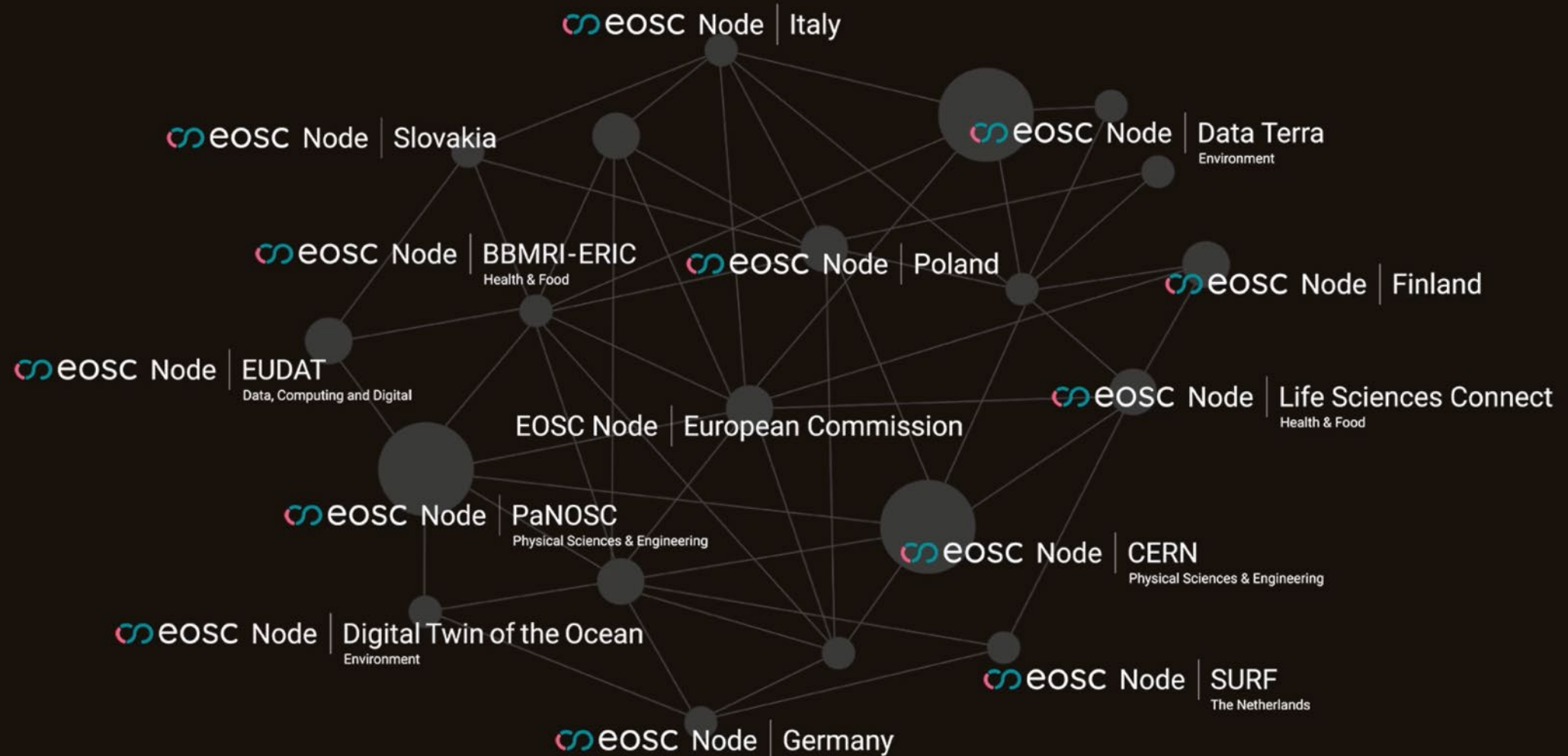
### Handbook sub-group members

Spiros Athanasiou (EU Node), Abdulrahman Azab (EUDAT), Mauro Campanella (ICSC), Natalia Galica (Poland), Jose Benito Gonzalez Lopez (CERN), Andy Götz (PaNOSC), Maarten Hoogerwerf (SURF), Pasquale Pagano (Digital Twin of the Ocean), Jessica Parland-von Essen (Finland), Alessandro Rizzo (Data Terra), Diego Scardaci (EOSC Beyond), Silvia Sofianos (Slovakia), Mark van de Sanden (GÉANT), Jonathan Tedds (Life Sciences Connect), Andreas Türk (BBMRI), Wilma Wolf (NFDI)

### Editors

Andy Götz (EOSC-A + ESRF), Rudolf Dimper (EOSC-A), Bob Jones (EOSC-A), Miguel Rey Mazón (TU Graz/EOSC Gravity)

Nodes engaged in 2025: Federating many services and research product catalogues - and growing!







“What matters most is to keep the momentum, the ambition and the shared purpose that have brought us this far. So let’s seize this moment, let’s act together to complete [the EOSC Federation] fast and make it the backbone of Europe’s digital research and innovation ecosystem .... You can count on the full support of the European Commission in this vital and transformative endeavor.”

Marc Lemaître @EOSC Symposium 2025



## Operational structure

- Migrate Build-up group to the operational structure outlined in the MoU
- Evolution of federating capabilities and the interoperability framework

## Transition to production

- Move the EOSC Federation from prototype to production
- Address legal, governance, operational and engagement requirements

## Expansion

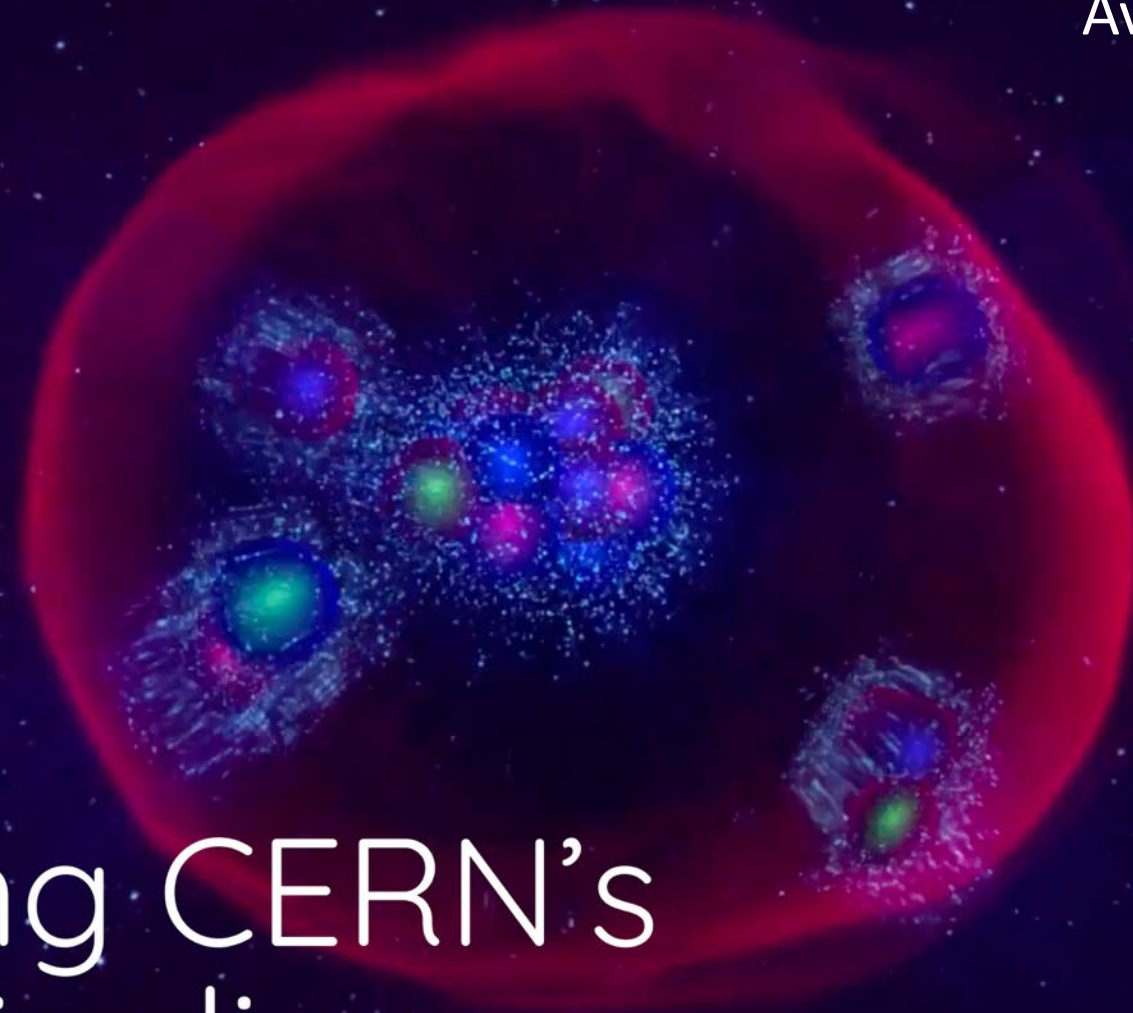
- Enrollment of nodes and onboarding of resources and use-cases
- Leveraging wave of enrolment waves, EOSC Gravity cascading grants, HORIZON-INFRA-2025-01-EOSC-01

A photograph of two bioluminescent organisms, likely comb jellies, in a dark ocean environment. The organisms have long, thin, purple tentacles and are emitting a soft purple glow. They are positioned on a dark, rocky seabed. The background is black, with some faint particles visible.

# Biological sequestration of carbon in the ocean



Available on the EOSC-A  
[YouTube channel](#)

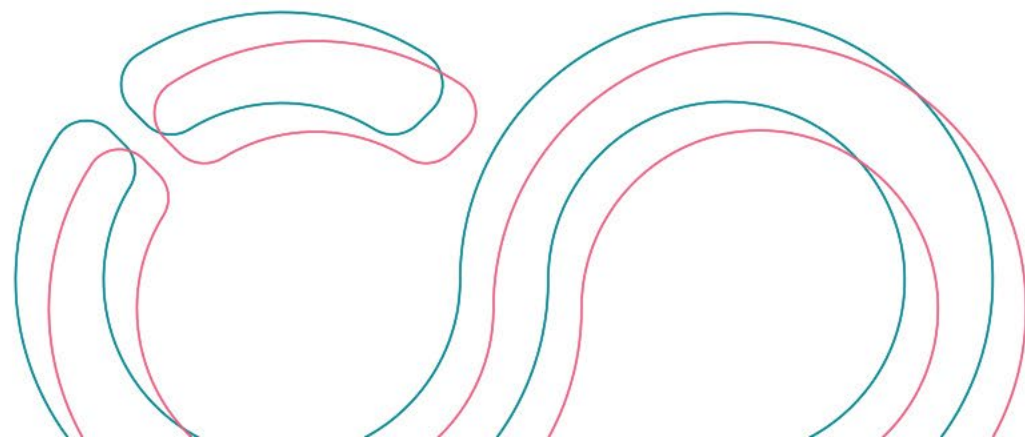


# Federating CERN's REANA pipelines



# EOSC in FP10

The EOSC Tripartite Narrative



The integrated approach of **EOSC responds to need for a strong, cohesive research system** to maintain Europe's competitiveness as highlighted in the **Draghi report**.

# The future of European competitiveness

Part A | A competitiveness strategy for Europe

SEPTEMBER 2024



EOSC: Empowering Europe's  
trusted, secure and sovereign  
research data ecosystem

April 2026

## Updated narrative for EOSC

The paper has been produced in the context of **two significant advances for EOSC** over the past year:

- **Increasingly prominent position of EOSC in the European policy landscape** as the Union negotiates FP10
- **November 2025 launch of the EOSC Federation** and its expansion through 2026

“At a moment when Europe’s competitiveness and values, digital sovereignty, strategic autonomy, and data security are under unprecedented pressure, **EOSC becomes far more than a research instrument: it becomes a strategic priority for the Union** to build a resilient, productive and sovereign knowledge economy.”

# eosc The paper is organised around 7 policy areas

eosc  
EOSC to safeguard European data sovereignty

EOSC ensures long-term, secure, and trustworthy access to research data in compliance with EU regulations.

eosc.eu

eosc  
EOSC to foster European leadership in AI

By unlocking large, diverse, machine-actionable FAIR datasets, EOSC directly supports AI development and reduces data scarcity. It also ensures interoperability, provenance, and reproducibility, which mitigate "black box" risks and enable responsible AI.

eosc.eu

eosc  
EOSC to empower European values

By providing open access to FAIR datasets, EOSC empowers researchers, educators, and innovators from all regions to engage in cutting-edge scientific work, democratising access to research resources across Europe.

eosc.eu

eosc  
EOSC to increase security in research & data management

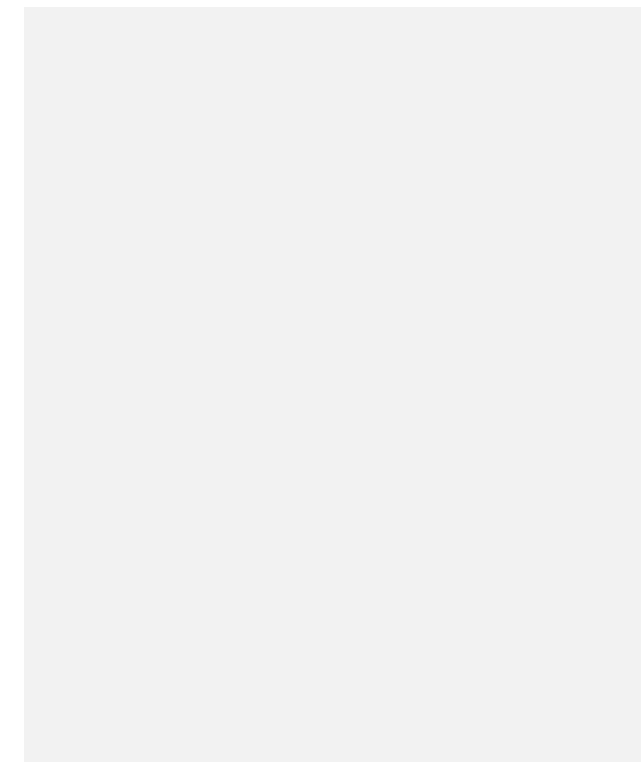
EOSC safeguards sensitive resources while enabling scientific innovation and fostering cross-border, cross-disciplinary collaboration.

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eosc  
EOSC to establish the EU Single Market for knowledge

EOSC plays a central role in removing barriers within the European Single Market for knowledge by enabling seamless sharing and reuse of research data across countries, disciplines, and infrastructures.

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eosc  
EOSC to enhance Europe's global scientific competitiveness

By standardising data sharing protocols and ensuring interoperability across disciplines and borders, EOSC facilitates the interdisciplinary collaboration required to address complex global challenges such as climate change, health, etc.

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eosc  
EOSC to boost European data economy

EOSC enhances Europe's productivity by transforming fragmented assets into interoperable, high-value capabilities, reducing costly duplication of efforts and maximising the return on public investments.

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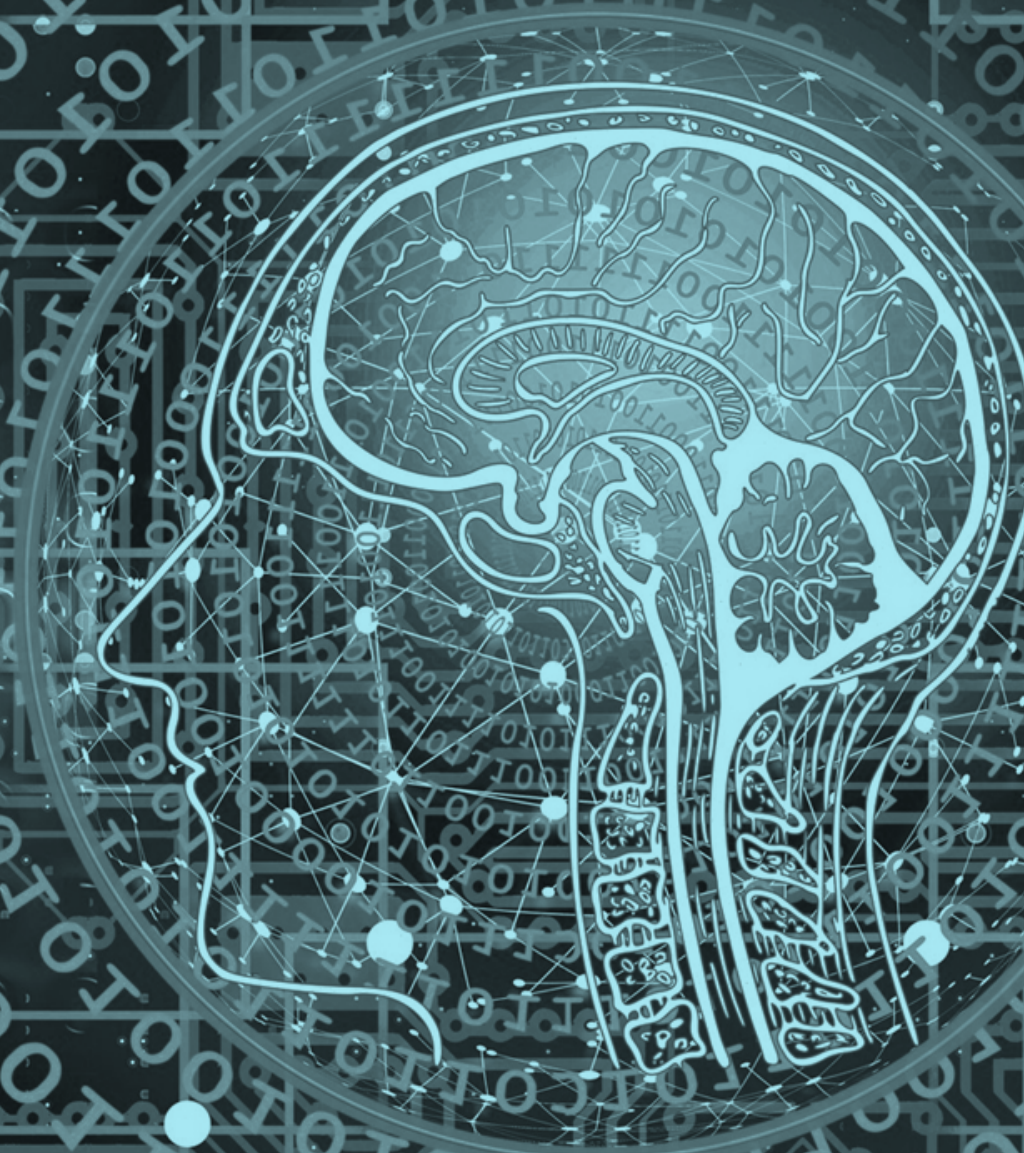
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The logo for EOOSC, featuring a stylized infinity symbol followed by the lowercase letters 'eoosc'.

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eosc

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eosc

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Image by Nattanan Kanchanaprat from Pixabay



eosc

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eosc | GRAVITY



Funded by  
the European Union

# Symposium 2026

14-16 October, Florence

Registration to  
open in Spring