

5. EOSC Coffee Lecture

Die EOSC Föderation – Aktueller Stand und nächste Schritte



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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

Überblick EOSC Coffee Lectures

3. EOSC Coffee Lecture:

“Welche Möglichkeiten zur Beteiligung gibt es?”

Datum: Dienstag, 26. März 2024

Uhrzeit: 16:00-17:00

4. EOSC Coffee Lecture:

“Die EOSC ist Online! Was heißt das und wie geht es weiter?”

Datum: Dienstag, 12. November 2024

Uhrzeit: 16:00-17:00

Overview 5. Coffee Lecture

- EOSC EU Node
- Building the Federation
- EOSC Federation Handbook
- EOSC post-2027

EOSC EU Node

EOSC EU Node is the first European-level gateway of the EOSC Federation



EOSC EU Node – Resource Hub

European Open Science Cloud - EU Node

Home | About | Services | **Resource Hub** | Support | Contributors | News & Events | User Space

[Home](#) > Resource hub

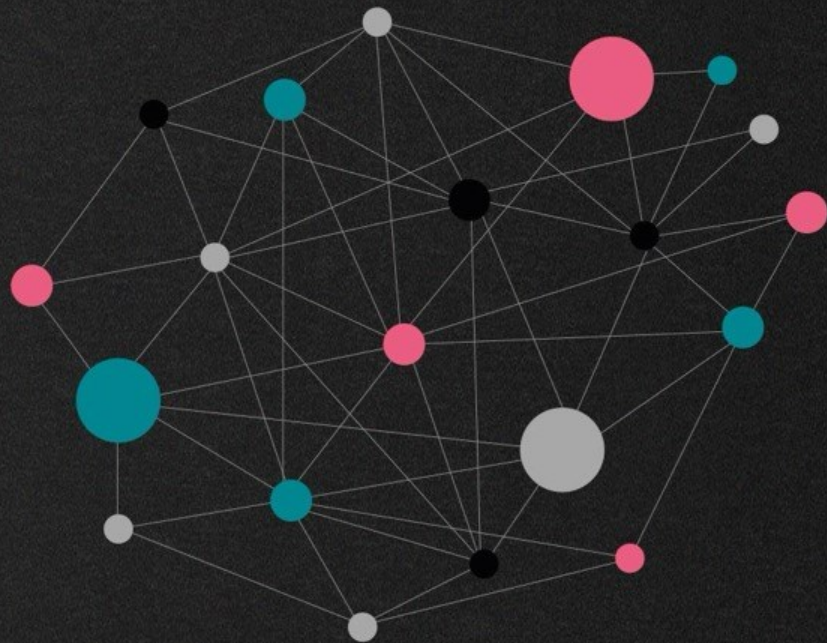
Resource hub

All resources ▾ Search resources | 🔍 Search ⓘ

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

Access right ▲ Showing 1 to 20 of 141,630,772 resources

Building the EOSC Federation



Principles for Building the EOSC 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

Community-driven and participatory

Autonomy and control: Respect institutional autonomy while ensuring that data and service owners retain full control over shared resources and openness levels.

Inclusivity and accessibility: Ensure low barriers to entry, ease of use, and broad participation.

Trust, security, and governance: Establish clear rules, monitoring, and enforcement mechanisms to ensure a safe and reliable environment.

EOSC Nodes

The **EOSC Nodes will be the entry points** for end users to the entire EOSC Federation.

An organisation may therefore **enrol its activities as an EOSC Node** in the EOSC Federation or **onboard its services** on an existing EOSC Node as a provider.

A set of minimum requirements for Nodes agreed by the Tripartite group:
<https://eosc.eu/building-the-eosc-federation>

Overview of questionnaire submissions and assessment

Open: 12 Jun 2024 - 18 Aug 2024 (late submissions accepted until 31 Aug 2024)



121 Submissions



25 Countries plus many international organisations



29

Organisations identified to be invited to a dialogue with the Tripartite and EU node.



5 Node types: thematic, national, institutional, regional, and other (such as the EU Node)



~13

To join the first wave starting March 2025 + Subsequent waves of enrolment from Q3 2025 onwards

Goal of dialog process was to get from 29 to ~13 nodes for first wave of deployment

13 Candidate Nodes



Leibniz-Informationszentrum
Wirtschaft
Leibniz Information Centre
for Economics



Working Groups

April

June

Sept

Capabilities

AAI
C. Kanellopoulos (GEANT)

Service Catalog
interoperability &
integration
J. Parland-von Essen (CSC)

Resources

Integrating scientific data
repositories
M. Wichorowski (EOSC-PL)

Fed. compute & storage
Giacinto Donvito (ICSC)

s/w distribution
?

File Sync & Share
Ron Trompert (SURF)

VRE definition
?

Training platforms and
community engagement
Oliver Knodel (HZDR)

Science

REANA
Tibor Simko (CERN)

Cross-border Biomedical
Analytics
Jaroslav Budis (CVTI SR)

Sensitive Health Data:
MCVAL
Marthe Bierens / Andreas
Türk (BBMRI)

General

Cybersecurity
?

Preparation of MoU
?

Handbook Review
Andy Gotz (ESRF/EOSC-A)

Node platform & Biz models
?

Build up Organigram

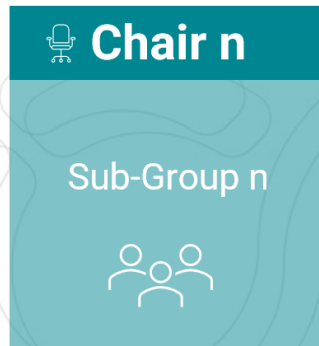
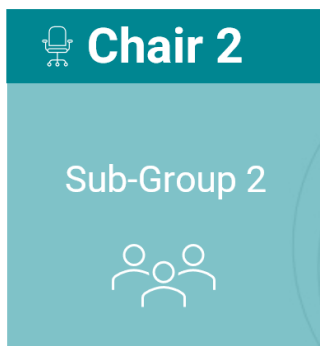
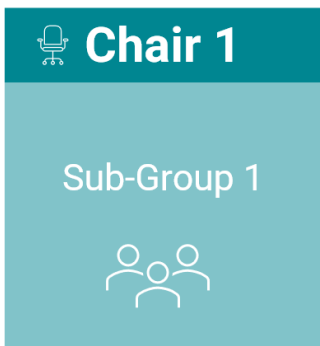
? WHAT

- Responsible for the EOSC Federation Build-up
- Steers and follows-up implementation of the overall Project Plan
- ..

- Sets-up draft agendas of and preares meetings of the Build-up Group
- Coordinates Sub-Group activities
- ..

- Steers the Sub-Group
- Drafts Sub-group's Work Plan
- ..

- Contributes to establish-ment of project plan
- Responsible for tasks management on Node level



? WHO?

- Candidate Node Coordinators
- EU Node Coordinator
- EOSC-A
- Observers
 - EC
 - EOSC-SB representative
- ...

- 2 x Co-Chairs (EOSC-A, N.N.)
- ...

- 1 x Node representative
- Secretariat (Chair organisation)

- Node representatives from at least 5 Nodes

Objective

Demonstrate end-to-end use cases



End-to-End use cases offered by NFDI

Provision of an interface as a service that supports onboarding of InvenioRDM instances to the EOSC Federation, **BERD@NFDI** Data Platform as blueprint with CERN (Zenodo), EUDAT

Galaxy (NFDI4BioImages, NFDI4Plants): Provide raster data (e.g. image data) management and analysis resources for European researchers together with EuroBioImaging, ELIXIR, EGI, EUDAT

(Meta-)Database provisioning photon and neutron data use case as Collaboration of **DAPHNE4NFDI** and PaNOSC.



EOSC Federation Handbook



Federation Handbook



Purpose of 1st version of Handbook



- 1 How to build the EOSC Federation during the period 2025 to 2027
- 2 What will the EOSC Federation enable and provide for researchers
- 3 How will the success of the EOSC Federation be measured

Outline of EOSC Federation Handbook (60+ pages)

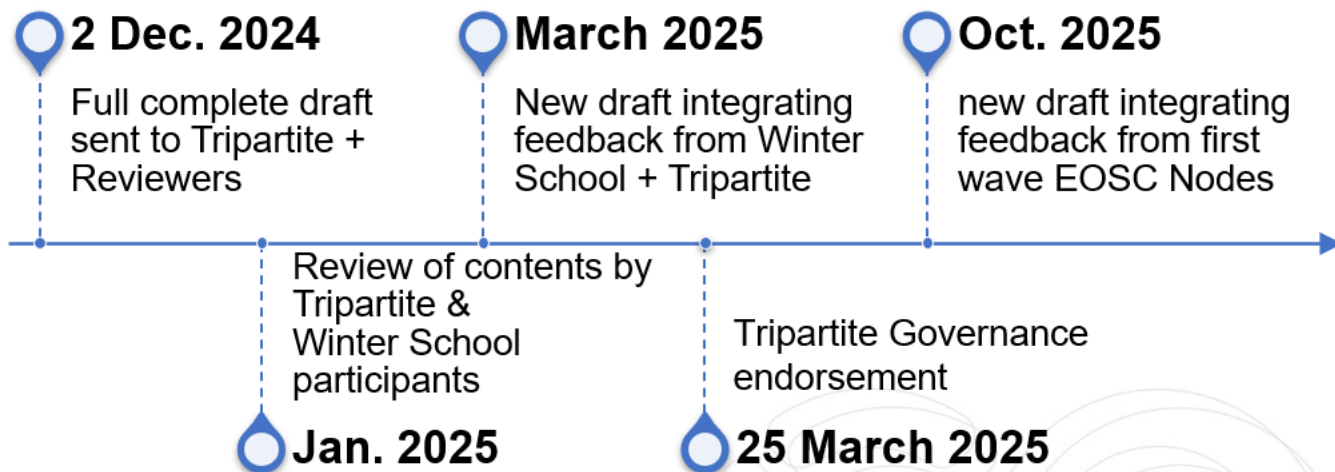


- Chapter 1 – Purpose
- Chapter 2 – Governance
- Chapter 3 – Operations
- Chapter 4 – Architecture
- Chapter 5 – Scientific Resources
- Chapter 6 – Policies

Federation Handbook

EOSC Federation Handbook status

First full draft available as of 25 March 2025



EOSC post-2027



How to sustain EOSC in FP 10?



Sustaining EOSC in practice

WHAT



Task

1

Deploying and operating the EOSC EU Node

Task

2

EOSC Federation

Task

3

Enabling a web of FAIR data and services for science

Task

4

Research and prototyping new capacities for the EOSC Federation

Task

5

Enabling OS policies and the uptake of OS practices through EOSC

WHO



Implementing these 5 Tasks will require each member of the **Tripartite to take on new roles and responsibilities** that in turn must be accompanied by **secure funding streams** that are well-structured and well-understood



Member States and Associated countries: Largest contributors to OS and EOSC-related investments in Europe, supporter of potential EOSC Nodes during the build-up phase



European Commission: Driver of relevant policy-making and seed funder for EOSC and the EOSC Federation



EOSC Association: Legitimate voice of the broader stakeholder community and de facto leader of the “coalition of the doers”

The Role of the EOSC Association



The role of the EOSC Association AISBL relative to the 5 Tasks

Proposal #1

The EOSC Association AISBL shall

ENTRUSTED

Be entrusted with a budget to



- **Manage and operate the EOSC EU Node** (if the European Commission wishes to outsource this function) **Task 1**
- **Manage, operate, and evolve the EOSC Federation** **Task 2**
- **Innovate the EOSC Federation with new capabilities** **Task 4**

STRATEGIC PARTNER

Remain the strategic partner of the EC and the MS/ACs represented in the respective Programme Committees to

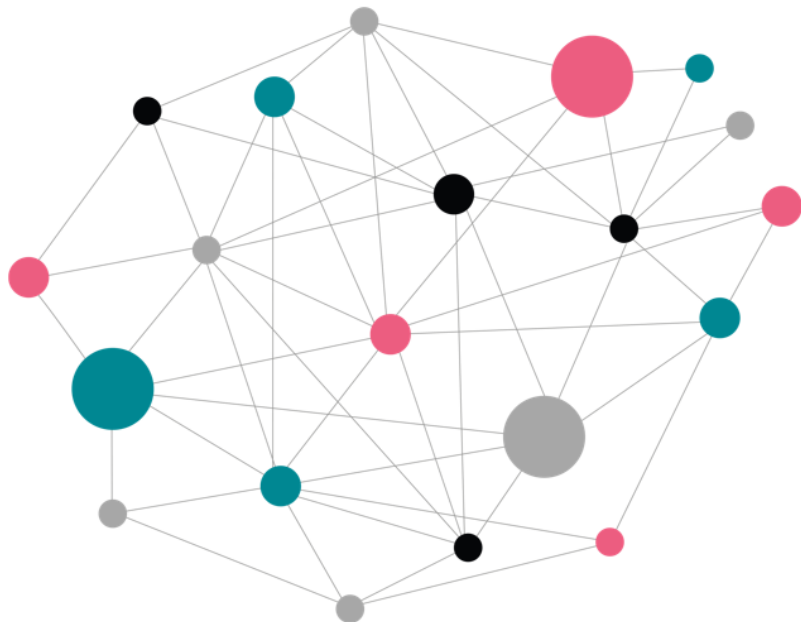


- **Continue serving as the voice of the EOSC community** relative to Open Science policy development and the implementation of a Web of FAIR data and services **Tasks 3 5**

Operation & management of the EOSC Federation

Operation and management of the EOSC Federation

The establishment of the EOSC Federation requires identifying a designated **legal entity to be mandated** with the responsibility of **operating and managing** the EOSC Federation



Core tasks of EOSC

Federation Management Organisation (FMO)

1

Oversee **daily operations** and monitor the EOSC Federation, including legal, policy, interoperability, and technical aspects

2

Manage the EOSC Federation's **contractual and collaboration framework**

ZBW

[illegible]

Further Information

Kick-off of build-up phase of the EOSC Federation

<https://eosc.eu/news/2025/02/eoscs-build-up-phase-to-begin-with-march-kick-off/>

Updates to build-up phase of the EOSC Federation

<https://eosc.eu/news/2025/04/the-eosc-federations-build-up-phase-is-underway/>

EOSC EU Node

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

<https://www.youtube.com/watch?v=67mirPt-FhY> (Teaser)

EOSC Federation including EOSC EU Node

<https://www.youtube.com/watch?v=KamWkZNGLE4&t=1140s>

Further Information

Why is EOSC pivotal to European Competitiveness

<https://eosc.eu/news/2025/03/why-eosc-is-pivotal-to-european-competitiveness/>

Uses Cases of EOSC EU Node

https://youtu.be/j_5lvsxspA4?si=cAKJ5JSfVmiMKqgD

EOSC Federation Handbook

<https://eosc.eu/eosc-federation-handbook/>

EOSC Newsletter

[Newsletter \(eosc.eu\)](#)

EOSC Coffee Lectures

<https://www.zbw.eu/de/eosc-coffee-lectures>