4. EOSC Coffee Lecture
Die EOSC ist Online!
Was heißt das und wie geht es weiter?

Klaus Tochtermann, 12.11.2024
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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

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

Datum: Dienstag, 26. März 2024

Uhrzeit: 16:00-17:00

Overview 4. Coffee Lecture

- EOSC EU Node *online*

- Onboarding Nodes in the EOSC Federation

- Federation Handbook

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EOSC EU Node

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

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EOSC EU Nodes – Timeline and Milestones

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

EOSC Future extension

| Phase-in Period | Start | Takeover | Services design and deployment | Services integration and pre-production testing | Tech Launch | Production testing | Production service |

17 November 2023 — 14 February 2024 — 31 March 2024 — 14 May 2024 — 14 August 2024 — 10 October 2024 — 21 October 2024

European Commission

EOSC EU Node – Resource Hub

EOSC EU Node – Services

File Sync and Share

Enable automatic file syncing and secure sharing across locations and teams.

Interactive Notebooks

Create and share documents with real-time code execution.

Large File Transfer

Streamline large file transfers online with added security and integrity.

Virtual Machines

Design and conduct experiments with flexibility while ensuring reproducibility.
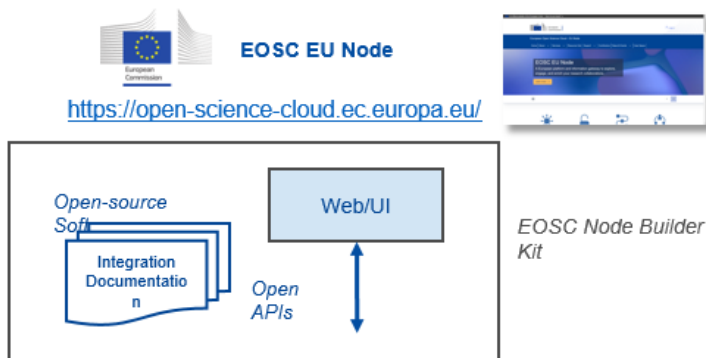
Cloud Container Platform

Deploy cloud-native containerised applications that can easily scale.

Bulk Data Transfer

Move data effortlessly to data-intensive execution environments.

Managed Services of the EU Node (1/2)

EOSC EU Node

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

Open-source Soft...

Web/UI

Integration Documentation

Open APIs

EOSC Node Builder Kit

FitSM

egi

* CSIRT, DPO, Helpdesk, Onboarding, Curation

PSNC — Poznan Supercomputing and Networking Center

openstack.

OpenAIRE Graph

GÉANT — MyAccessID

* Not all managed services are depicted for simplicity reasons

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* OKD, BDT, EFSS, LFT, NB, Workflows, Monitoring, Accounting

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Managed Services of EOSC EU Node (2/2)
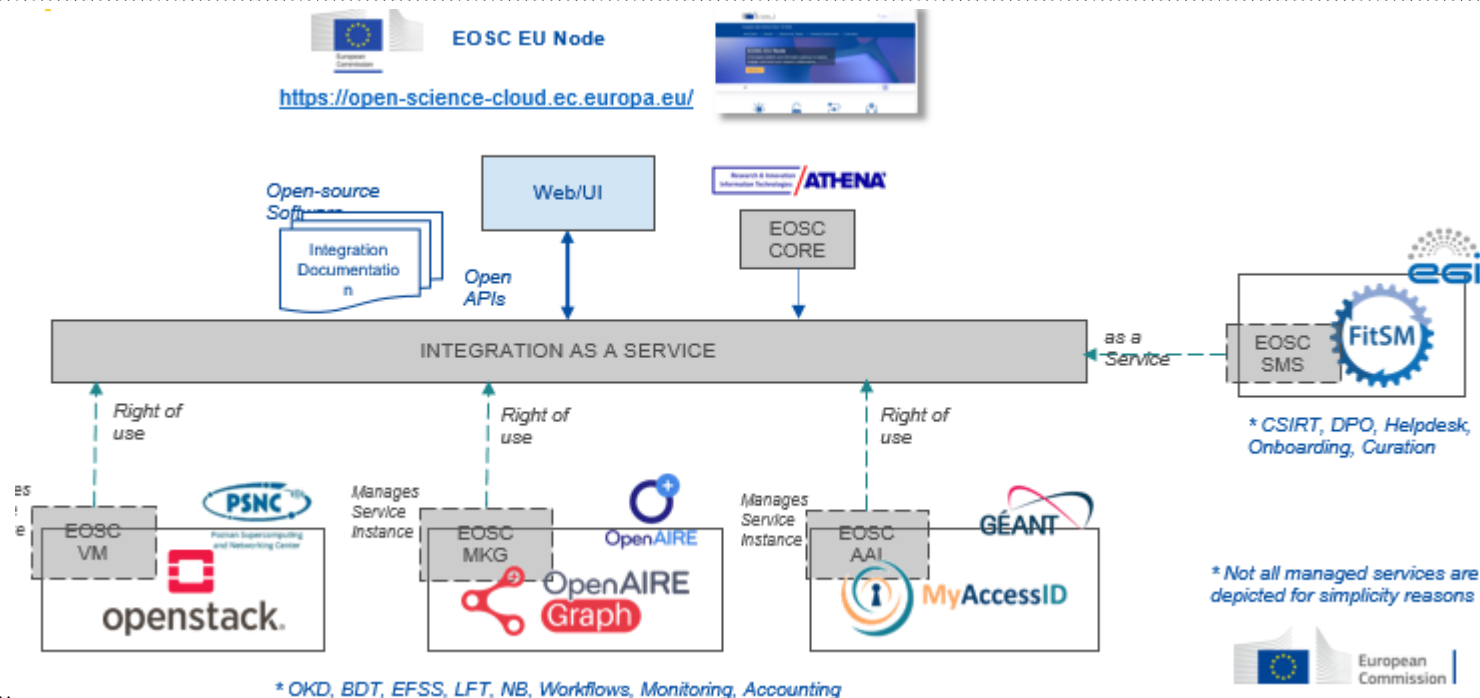
EOSC EU Node – Fair equitable Access to Services

Credits

- **Credits** is the virtual 'currency' of the EOSC EU Node

  - Expresses the relative (and actual) cost of services but has **no real monetary value**

  - Users are already familiar with commercial offerings (pay as you go)

- **A service has its cost expressed in credits**

  - Clearly communicated to users, known in advance (how much will it cost?)

- **A user is allocated free credits (wallet)**

  - Users can spend their credits according to their needs

  - Same amount of credits to all users of the same category, replenished every 3 months

- **Credit economy evolves to support users and service providers**

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Access Policies

- Authorizing users to access and spend their credits on the EOSC EU Node is an **automated** process based on their **affiliation**

- **AP Level B**

  - **eduGAIN faculty** (EU27 + Horizon Europe AC): **500** credits & access to **all services**

- **AP Level A1**

  - **eduGAIN employee** or s**taff** (EU 27 + Horizon Europe AC) or **EU Login staff**: **100** credits & access to a subset of services

- **AP Level A**

  - **View** only access to the services
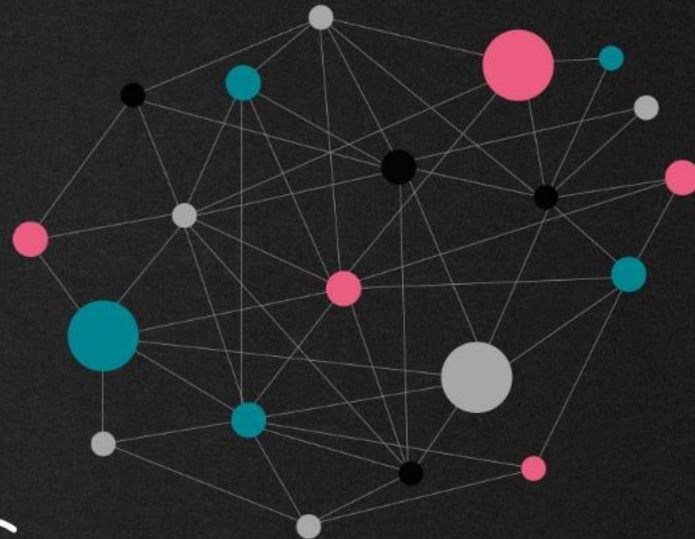
EOSC Federation:
Objectives of the build-up phase

- **Testing and building interconnections** of the essential federating capabilities (offered by the EOSC EU Node)
- **Automated orchestration and deployment** across autonomous service domains, federation of file sync & share, …
- **Exploring organisational arrangements**, including those related to the implementation of policies shared across the Federation
- **Estimating the costs, effort and time required to enrol a node** and onboard a resource to the EOSC
- …

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Questionnaire for Candidate Nodes (Summer 2024)

1. Do you intend to offer your institutional resources through a future EOSC Node of the EOSC Federation?

2. Do you wish to join the build-up phase with the intention to build a potential future EOSC Node?

3. Are you able to identify the legal entity that would assume legal responsibility for the potential EOSC Node?

…

10. Upload supporting documents

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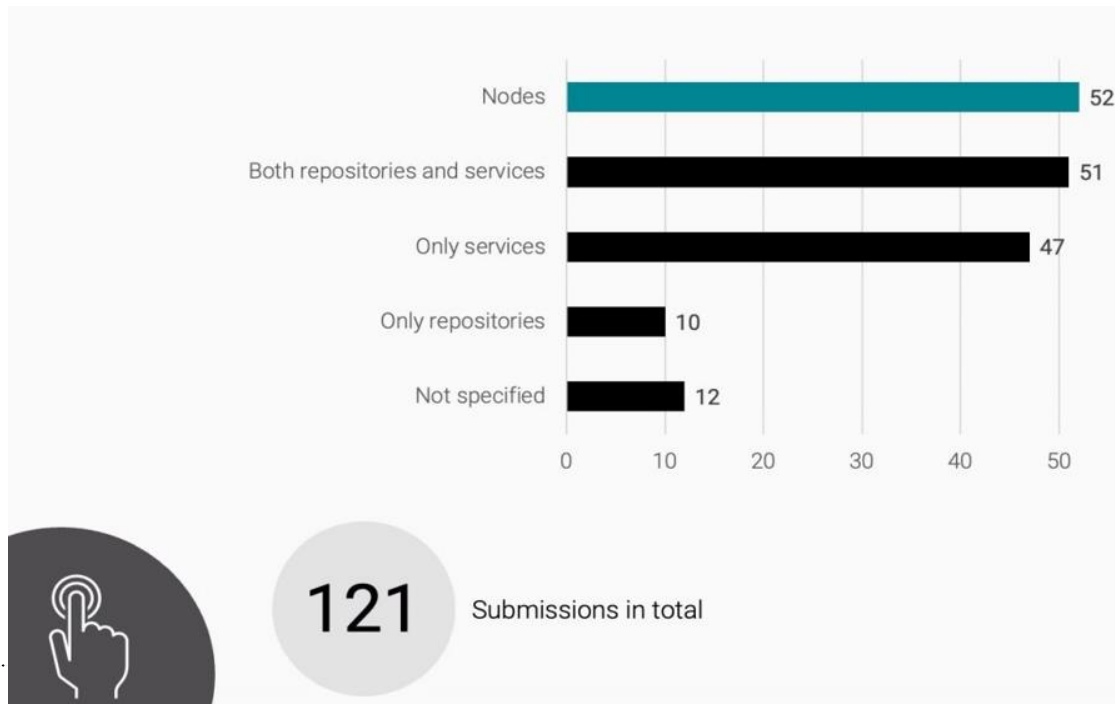
Dialogues with potential Candidate Nodes

1st Stage: Confirm commitment to join build-up phase

- Present goals/deliverables/timeline
- Expectations of candidate nodes
- Identify representative organisations to take part in the build-up phase

2nd Stage: Technical Deep-dives

- Clarification of capacities
- Technical requirements and challenges
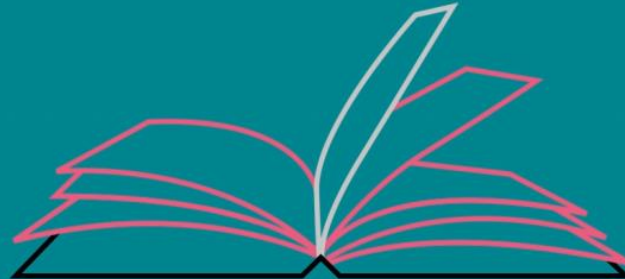- Identify ca. 7-10 candidate Nodes to participate in the first wave

Timing:

- December 2024 to February 2025

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Federation Handbook – Why?

- Most Deliverables from **EOSC projects are not "How To's"**

- Goal to build the **1st Federation in 2025 is very ambitious**

- **Need a clear manual (+ guides) on how to build the Federation** for Nodes to commit to joining the Federation

Building the EOSC Federation

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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

- Chapter 1 – Purpose
- Chapter 2 – Governance
- Chapter 3 – Operations

- Chapter 4 – Architecture
- Chapter 5 – Scientific Resources
- Chapter 6 – Policies

Deadline for Open Consultation has been extended to 17 November

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Next Steps

- Select and onboard of Candidate Nodes
  - Goal is to have end-to-end use cases in place by end of 2025

- Finalization of Federation Handbook

- Preparation of EOSC post-2027

Further Information

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

Uses Cases of EOSC EU Node

https://youtu.be/j_5IvsxspA4?si=cAKJ5JSfVmiMKqgD

Public Consultation on the EOSC Federation Handbook

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

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Further Information

Further Resources on latest developments of EOSC

https://eosc.eu/eosc-symposium-2024-outcomes-and-resources/

Become a Member in the EOSC Association

Become a Member - EOSC Association

EOSC Newsletter

Newsletter (eosc.eu)

EOSC Coffee Lectures

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

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