

EOSC EU Node

Recent releases and Updates

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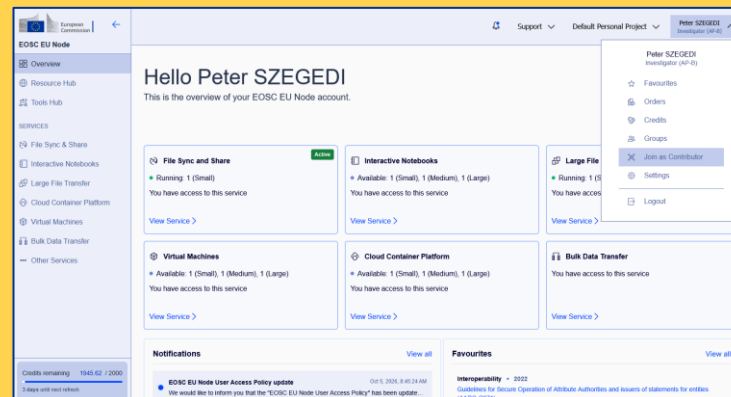
Reference node and Hub for the federation



EOOSC EU Node
Your Gateway to Open Science

A one-stop shop
to discover, use, build and share
your data-driven and open research.

Offered by the European Commission



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

Launched in 2024 in Berlin

We put the researcher in the centre
“Make the researchers happy...”

- **Open:** Inclusive access policies for data and services
- **Trusted:** Single identity for authentication and catalogue of curated research outcomes
- **User-centric:** No committees or institutional boards
- **Transparent:** Automated authorization and virtual credit management
- **Collaborative:** Productivity tools and infrastructure services
- **Production-grade:** ITSM-based standard operations and helpdesk support



Reference node: Evolution and take-up

Brussels - 2025

- **New UX/UI** and User Access Policy updates
- **More virtual credits** to all policy groups
- **Medium T-shirt** increased to 16 vCPUs with 64 GB RAM
- **File Sync & Share** (ownCloud) service is perpetual
- **Credit Vouchers** EC-funded projects are entitled to one-time credit top-up of 40k Credits
- **Open-source** architecture and software code

Florance - 2026

- **Large T-shirt** increased to 64 vCPU, 128GB RAM, 1 GPU
- **Infrastructure features:** Self-managed Kubernetes Cluster, HA SQL cluster (DBaaS)
- **EuroHPC Federation Platform** is onboarded
- **Jupyter** Binder, Conda Switcher, Token acquire for RTC
- **Group Spaces:** 500GB shared storage for group projects
- **Self-elevation** to Investigator; explicit MSCA support
- **Contributors Dashboard:** Nodes in the Resource Hub

Since 'Brussels' (Nov 25 – Sep 26)

+46%

registered users

x2.4

groups

x2.6

active cloud projects (VM/OKD)

x5.7

credits consumed



Reference node: Evolution and take-up

SOLUTION

"I have an issue to solve"

- Openly available
- A trusted service
- Aligned with institutional engagements
- A complete computing environment



<https://open-science-cloud.ec.europa.eu/news/use-case-british-library-rebuilding-computing-capacity-after-cyber-attack>

CONVENIENCE

"I need easy access and use"

- A common European environment
- Access across institutions
- Flexible computing resources
- Open-source foundations



<https://open-science-cloud.ec.europa.eu/news/use-case-homeros-creating-shared-environment-multi-hazard-research-eosc-eu-node>

EXCITEMENT

"I'm curious about a research question"

FOUNDATION IS THERE

- Trust
- Accessibility
- Transparency
- Collaboration
- Reusability
- Support

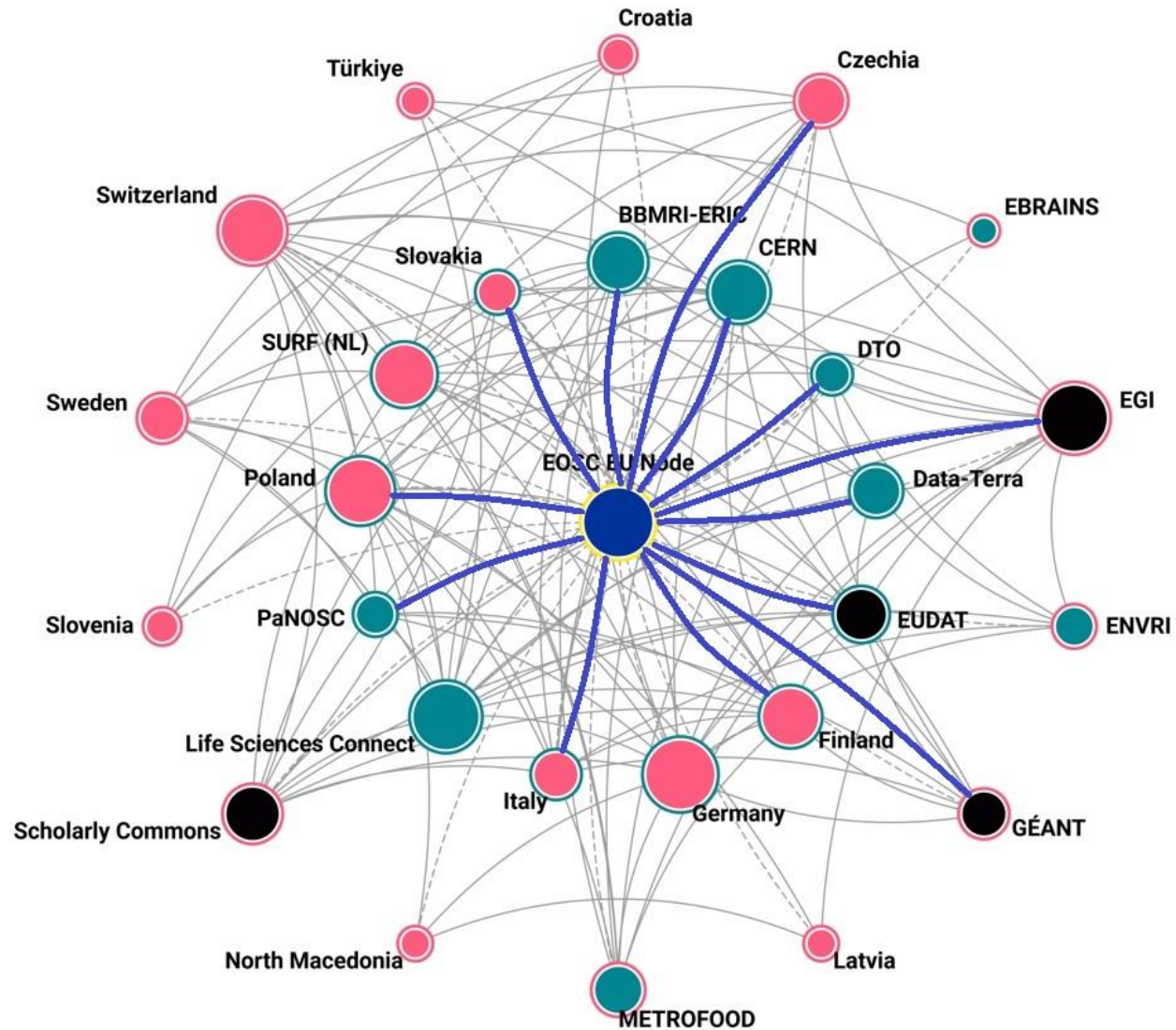


<https://open-science-cloud.ec.europa.eu/news/tapping-eosc-eu-node-how-researchers-can-make-most-europes-open-science-gateway>

"Make the researchers excited..."



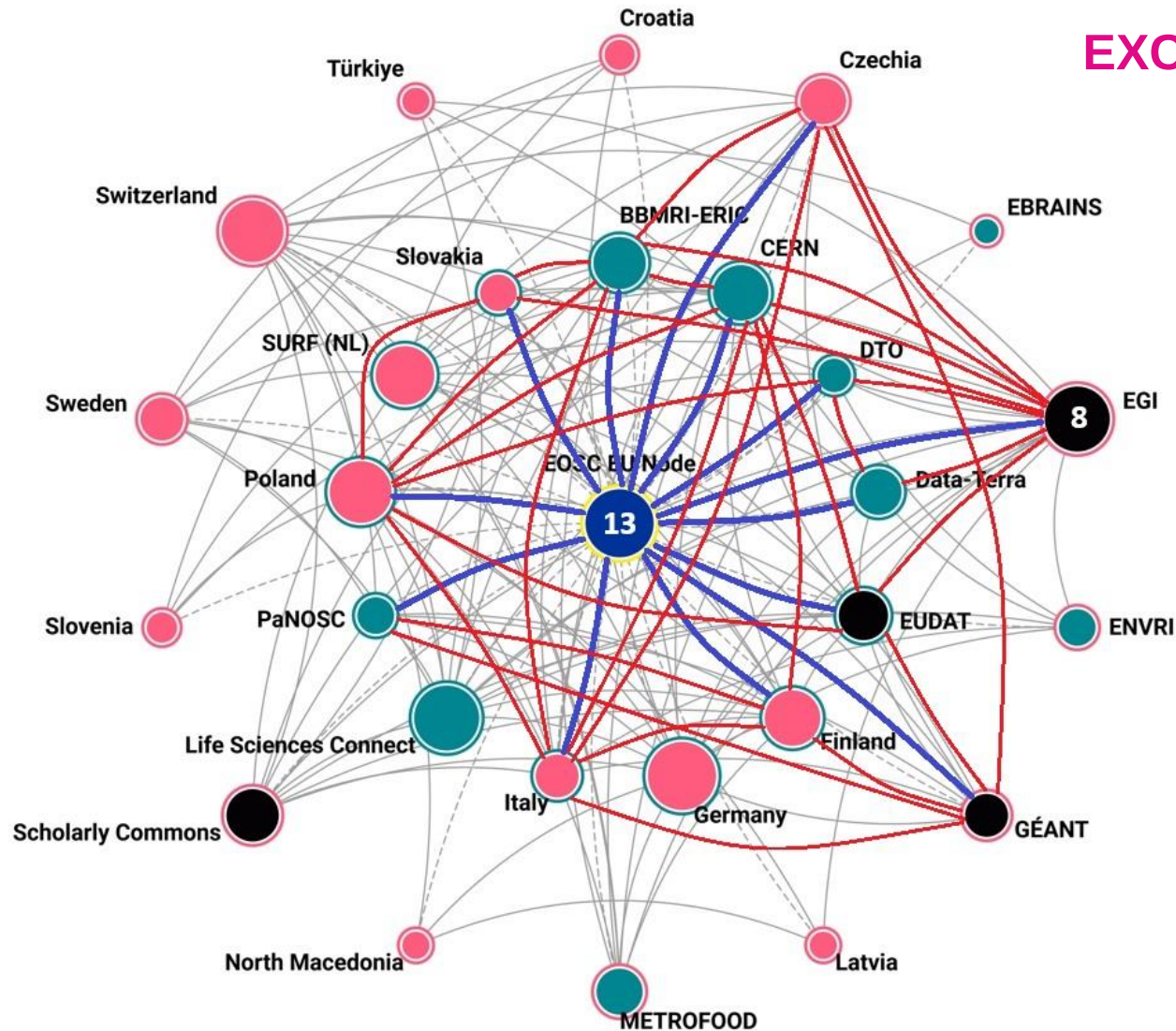
Hub for the federation: Enrolment



The EOSC Federation is operational

- EOSC EU Node enables 13 node enrolments
- Mixed from Wave 1 and Wave 2

Hub for the federation: Enrolment

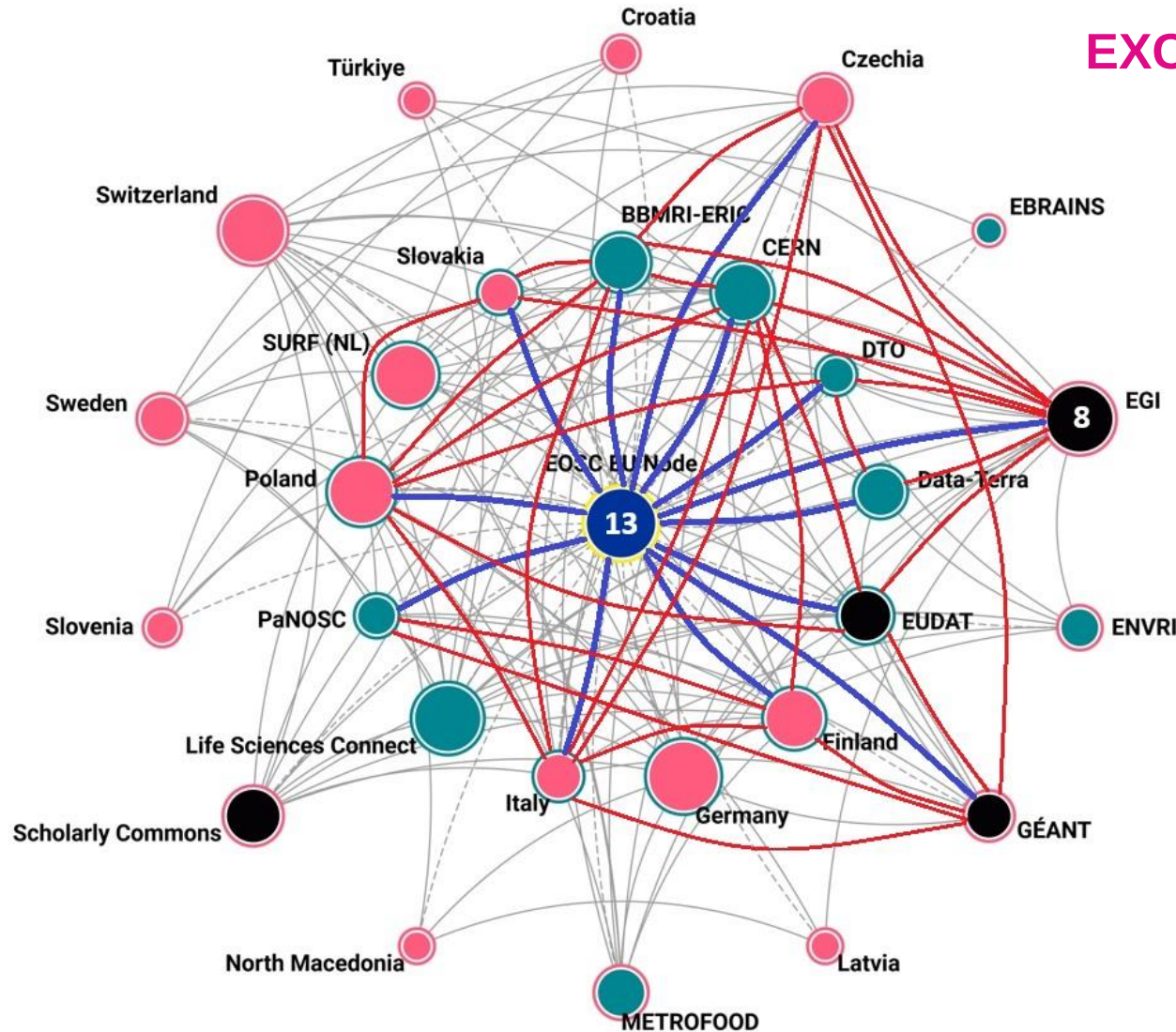


EXCITEMENT

The EOSC Federation is operational

- EOSC EU Node enables 13 node enrolments
- Mixed from Wave 1 and Wave 2
- 14 Nodes together have the potential to deliver 40+ use cases
- Natural gravitational points appear based on use cases

Hub for the federation: Enrolment



EXCITEMENT

The EOSC Federation is operational

- EOSC EU Node enables 13 node enrolments
- Mixed from Wave 1 and Wave 2
- 14 Nodes together have the potential to deliver 40+ use cases
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Continuous improvements are needed...

USERS

Login experience

Catalogue content

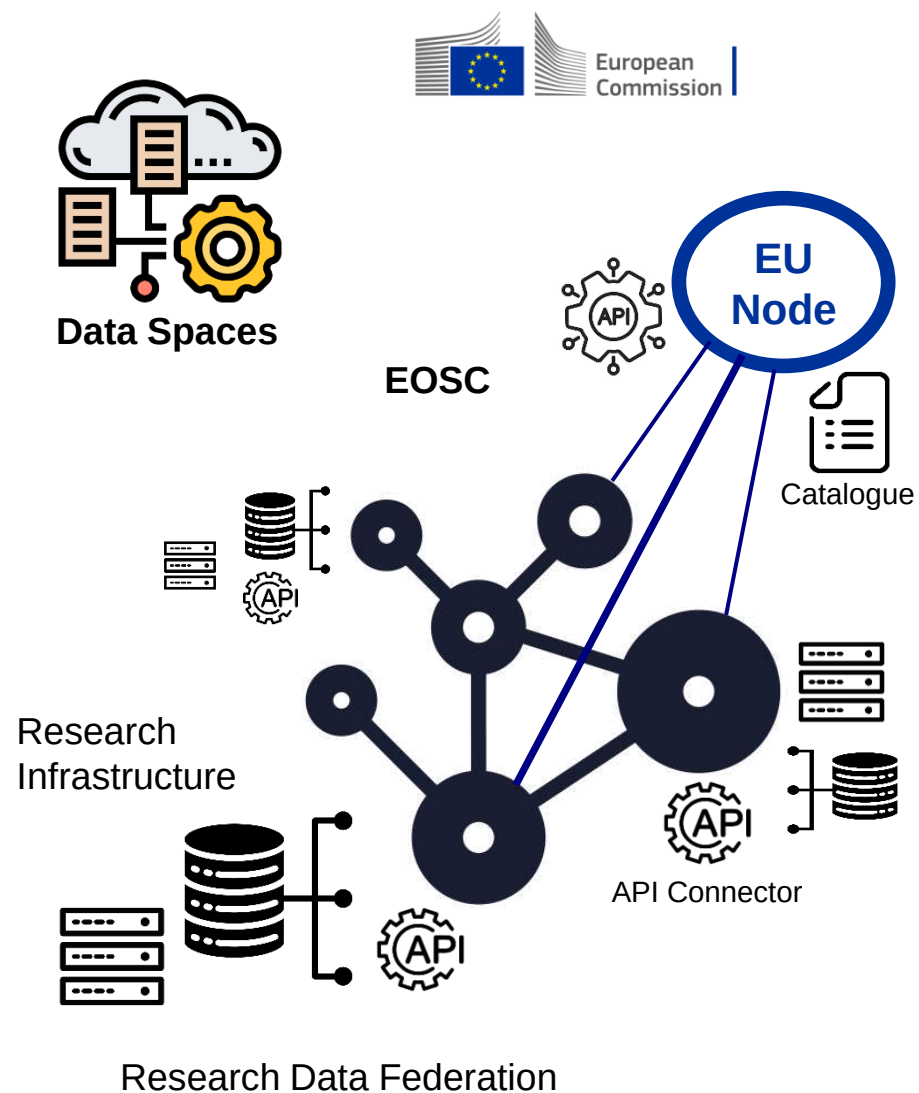
OPERATORS

Monitoring & Helpdesk

Security operations

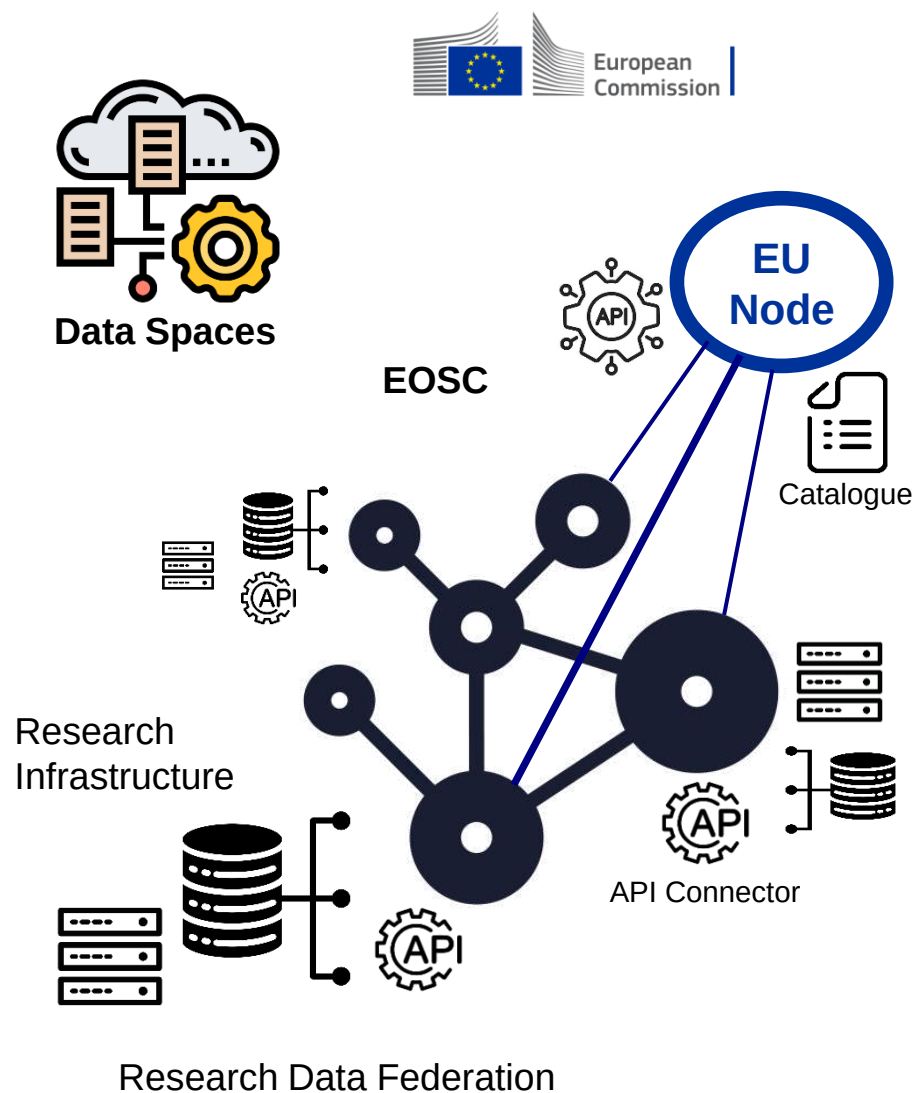
EOSC EU Node and the EU flagships

Data Infrastructure

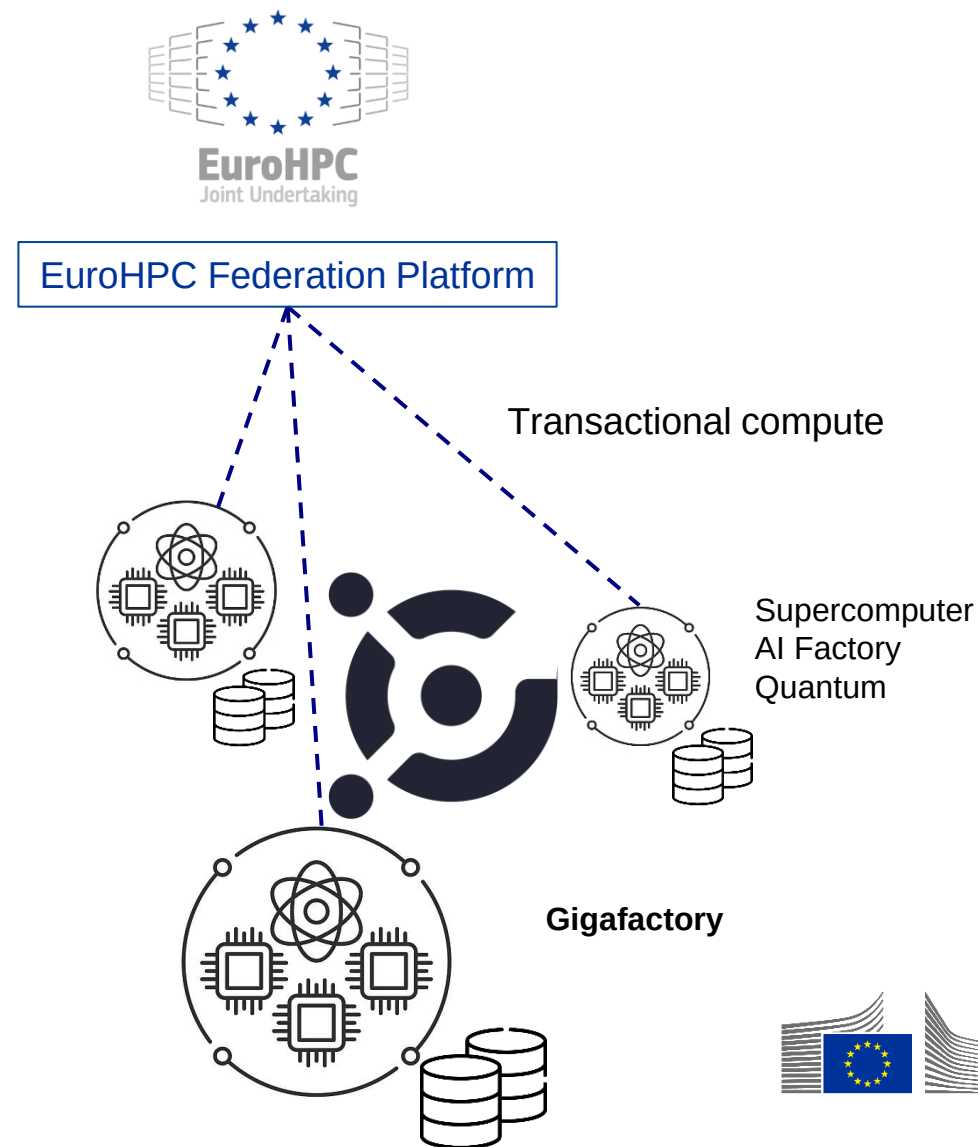


EOSC EU Node and the EU flagships

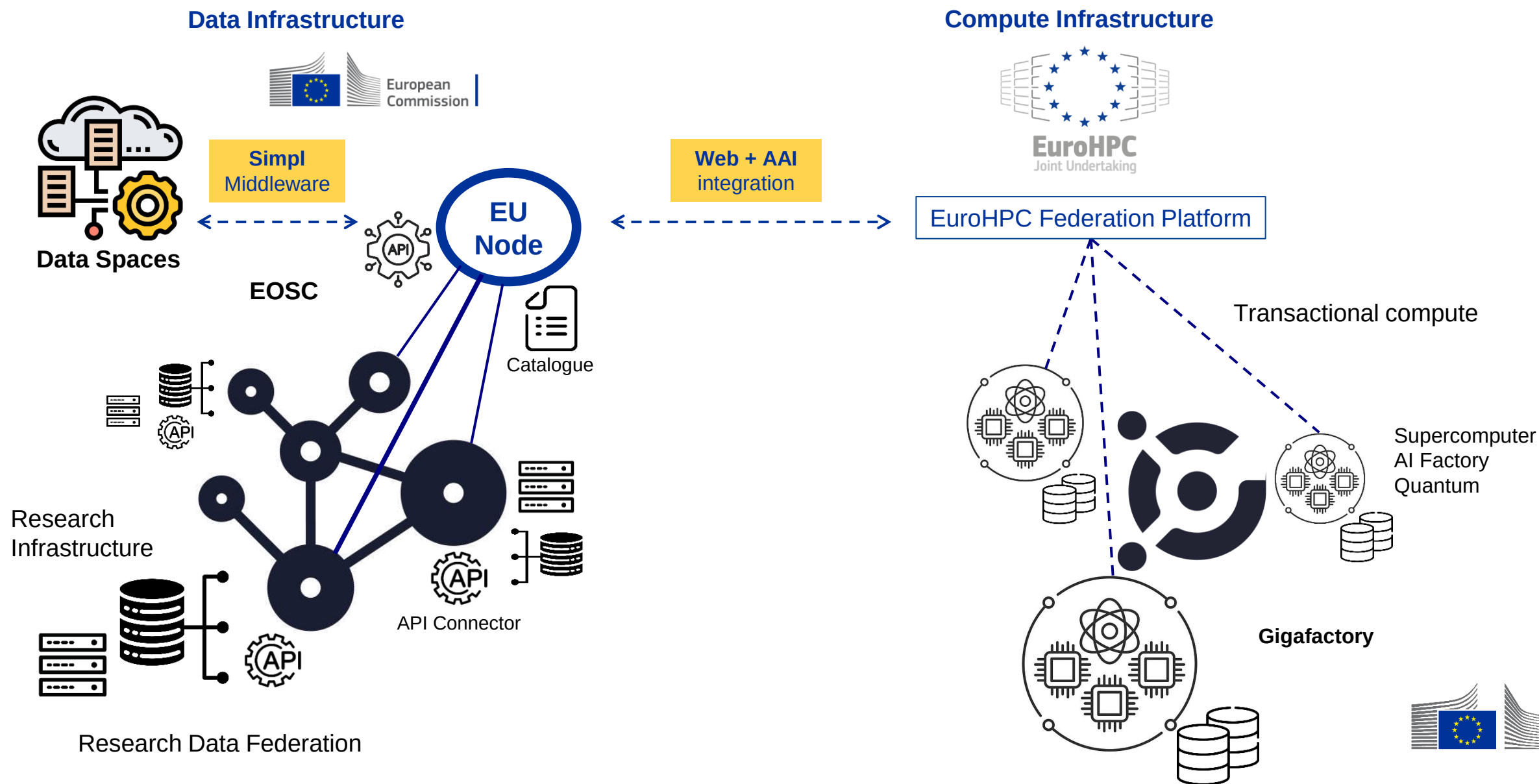
Data Infrastructure



Compute Infrastructure



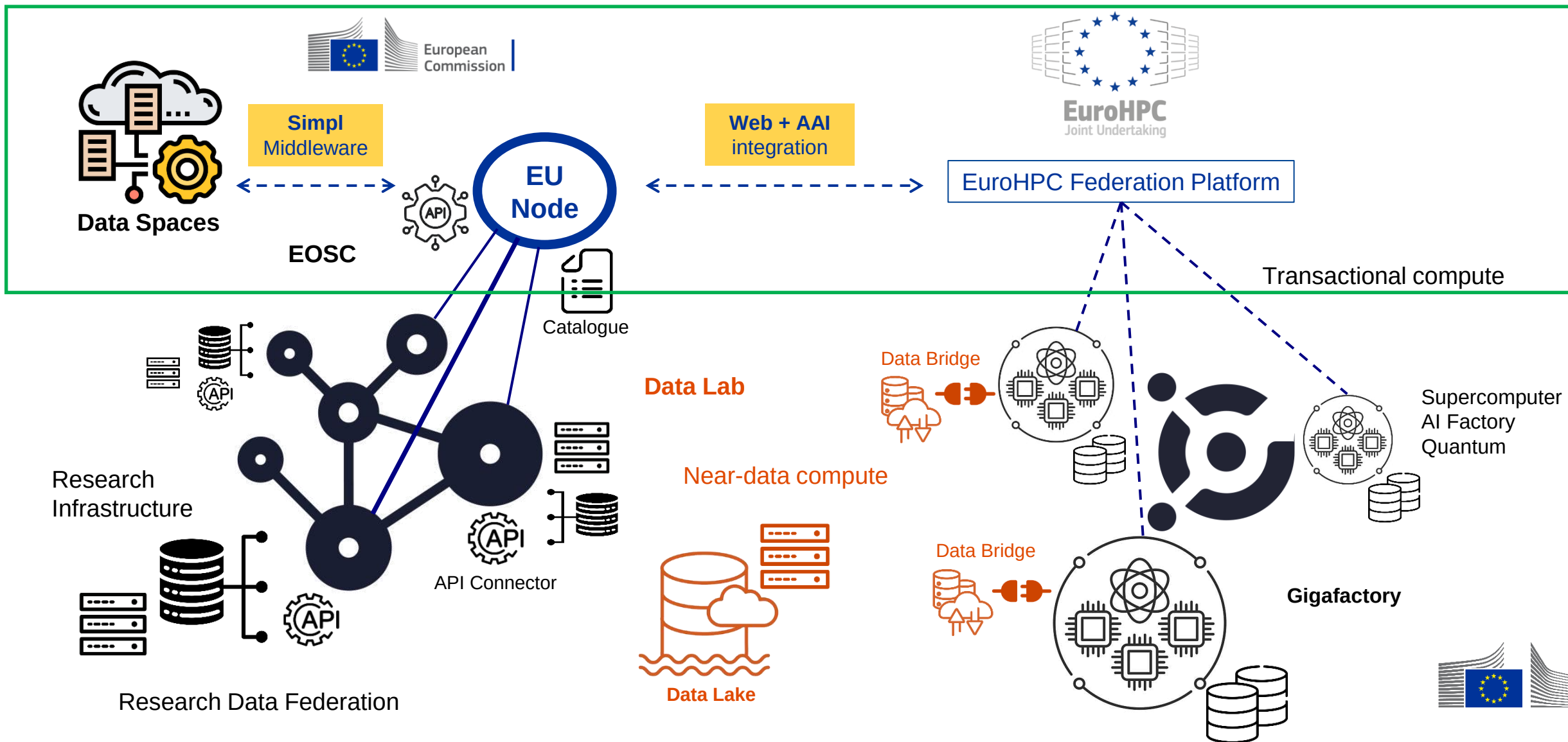
EOSC EU Node and the EU flagships



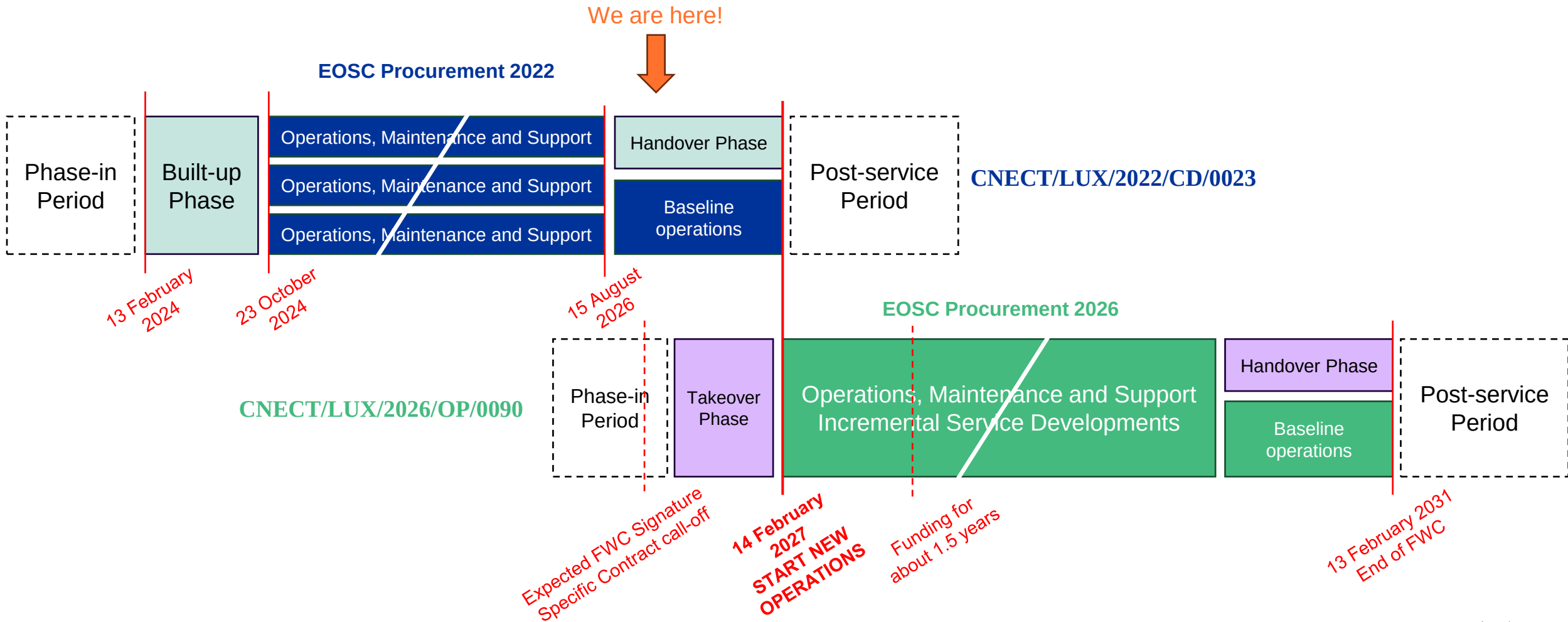
EOSC EU Node and the EU flagships

Data Infrastructure

Compute Infrastructure



Transition timeline



Thank you



Peter Szegedi

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