

État des lieux et perspectives de l'European Open Science Cloud (EOSC)

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ULIEGE - RISE

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2016-2020 Pilot Phase

2016 “European Cloud Initiative - Building a competitive data and knowledge economy in Europe”

[Communication EU](#)

“The European Open Science Cloud Pilot Phase”

<https://zenodo.org/records/50072>



« *The paper poses four interconnected questions about EOSC that need to be answered:*

- *What is needed?*
- *How can it be built?*
- *How will it be managed?*
- *How can it be funded? »*

2018-2020 prototype components of the EOSC through calls for projects under Horizon 2020

“ [...] develop a ‘Web of FAIR Data and Services’ for science in Europe”

2021-2030

Transitioning to a more stakeholder-driven approach with a shared vision, common objectives and complementary contributions at European, national and institutional levels

deployment of a network between data repositories and services

2025

‘system of systems’
approach



 EOSC | Federation

“The EOSC Federation will consist of dozens of **EOSC Nodes**

Nodes

that are interconnected and can collaborate

**EOSC Federating Capabilities
Interoperability Framework**

to share and manage scientific data, knowledge, and
resources within and across thematic and geographical
research communities”

Research Resources

'system of systems' approach

Research Resources

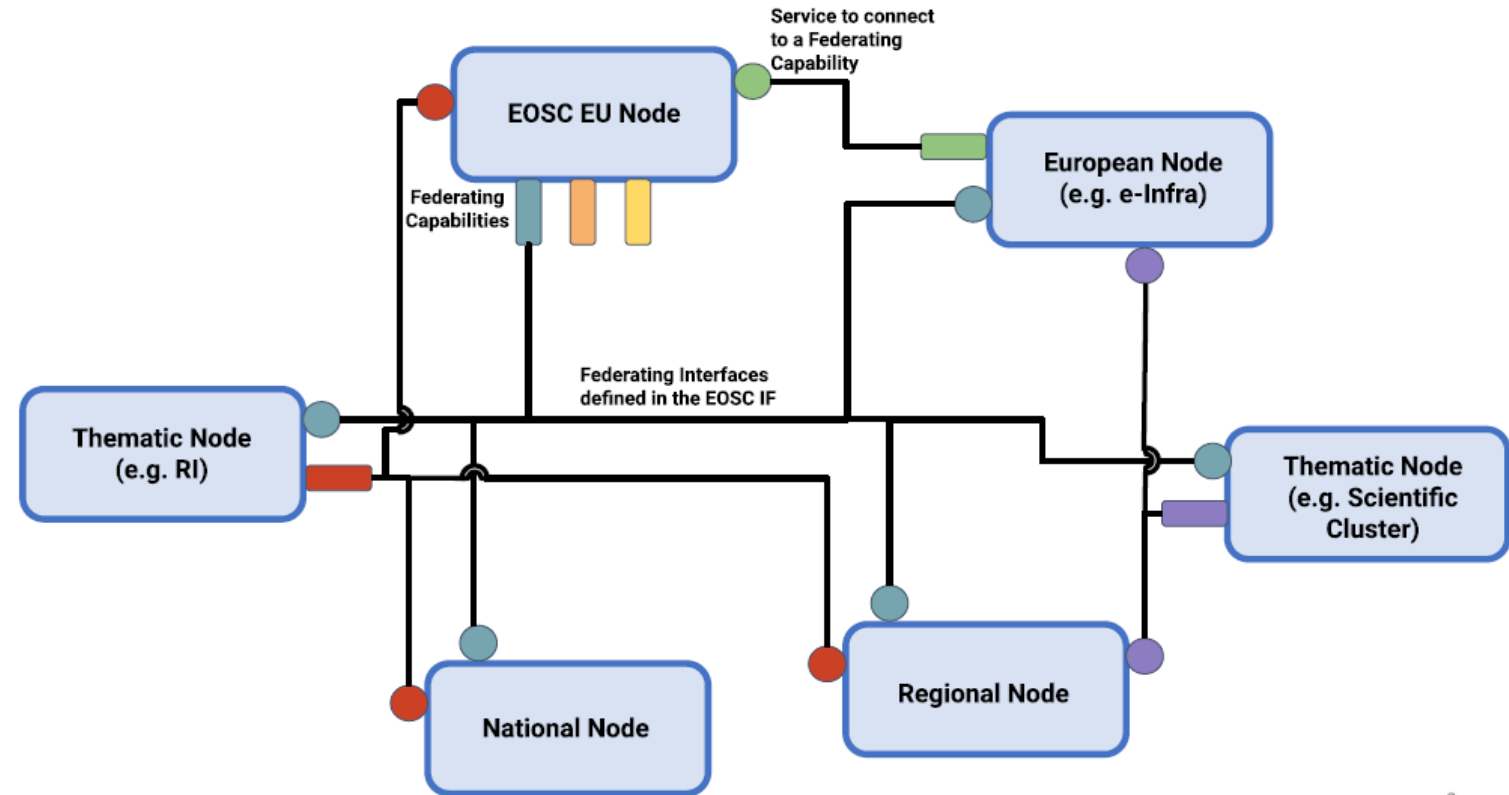
- Research **publications**
- Research **data**
- Research **software**
- Research **tools** (*Analytical and visualisation and other types of tools to aid in the interpretation, transformation and presentation of data. These tools may include dashboards, plotting software, data anonymization software and machine learning frameworks*)
- Research **services** (*Services that provide management, processing, and storage capabilities for research data. These may include DMPs, data cleaning, transformation, analytics, and computational power to support large-scale studies*)
- Research **training**
- Research **interoperability guidelines**
- Research **competence centres** (*virtual hub [...] providing expertise, best practises and services[...]*)
- Research **resources and services discovery** (*search engines for research resources and services for domain specific searches tuned for researchers*)

'system of systems' approach

Nodes

EOSC builds on existing infrastructure and services supported by the European Commission, Member States and research communities.

It brings these together in a federated 'system of systems' approach, adding value by aggregating content and enabling services to be used together.



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Figure 4.1 - Schematic (or "conceptual") view of the EOSC Federation Architecture

'system of systems' approach

Nodes

first wave deployment 2025-2026

EOSC EU Node

EOSC Node | European Commission

National EOSC Nodes

eOSC Node	Finland
eOSC Node	Germany
eOSC Node	Italy
eOSC Node	Poland
eOSC Node	Slovakia
eOSC Node	SURF The Netherlands

Thematic EOSC Nodes

eOSC Node	BBMRI-ERIC Health & Food
eOSC Node	CERN Physical Sciences & Engineering
eOSC Node	Data Terra Environment
eOSC Node	Digital Twin of the Ocean Environment
eOSC Node	Life Sciences Connect Health & Food
eOSC Node	PaNOSC Physical Sciences & Engineering

e-Infrastructure EOSC Nodes

eOSC Node | EUDAT
Data, Computing and Digital



interdisciplinary use cases involving EOSC resources and tools to demonstrate :

- **the EOSC Federation's capabilities**
- **potential impact and added value for the European research and researchers**

EOSC EU Node

EOSC Node | European Commission

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



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Home > Resource hub

Advanced Search

Search in all resources

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 **167,544,251 resources**

Relevance ▾

EOSC EU Node

EOSC Node | European Commission

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



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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.

User Space

Advanced Search

Search *i*

Data Sources Interoperability Guidelines

Relevance

Scientific domain

Document type

What impact for researchers at ULiège?

↳ Opportunities

Resources, services...
Potential visibility of outputs

↳ Expectations (requirements ?)

For EU-funded applications and projects > **EOSC compliance**
Not only FAIR Data Management
Integrating data management into the EOSC dynamic

Example

How will you make research data available after your project ?

The data will be preserved and published on the Uliège Dataverse (trusted institutional repository), whose content is already harvested and available on several platforms, including the EOSC EU Node.



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