

## How can EOSC help you sustain and promote your results?

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#### Some EOSC speak (1)

#### What is EOSC, what is the EOSC vision?

• EOSC stands for European Open Science Cloud



- EOSC is an ecosystem for/a web of FAIR data that contributes to data reuse and cross-disciplinary research (a data cloud, not an IT cloud)
- EOSC is a unique opportunity to
  - Address the issues around FAIR data including data quality, management, metadata, publication, tools for processing, sharing, training data for AI, so that we can
  - Olncrease the scientific impact of research data from the various domains and save time and money!

#### Some EOSC speak (2)

#### Who 'owns' EOSC?

- In 2016 EOSC was an initiative by the European Commission to bring together Thematic Research Infrastructures (RIs), Research Performing Organisations (RPOs) and e-Infrastructures to help Researchers implement Open Science
- In **2021** the EC created the **EOSC Partnership** and **EOSC Association** (aka EOSC-A), governed by three 'parties' (**EOSC Tripartite**):
  - European Commission
  - Steering Board representing the EU member states
  - Assembly of member organisations (RIs, RPOs, NRENs, etc) represented by the EOSC-A Board
- In 2024 the EOSC Tripartite decided to create the EOSC Federation which would be made up of EOSC Nodes.

#### Some EOSC speak (3)

#### **Funding for EOSC**

- EOSC project funding started in 2017 with the EOSC-Pilot project
- From 2019 to 2023 the INFRAEOSC calls of H2020 funded a number of RI projects in different scientific domains (aka clusters): ENVRI, ESCAPe, PaNOSC, EOSC-Life, SSHOC

(see <a href="http://www.science-clusters.eu/">http://www.science-clusters.eu/</a> )

• From 2021 ~50 EOSC projects\* were funded, including OSCARS



#### Some EOSC speak (4)

What is the **EOSC Federation?**What is **the role of EOSC Nodes?** 

In **2024** the EOSC Tripartite decided to create the **EOSC Federation**, to be made up of **EOSC Nodes**.

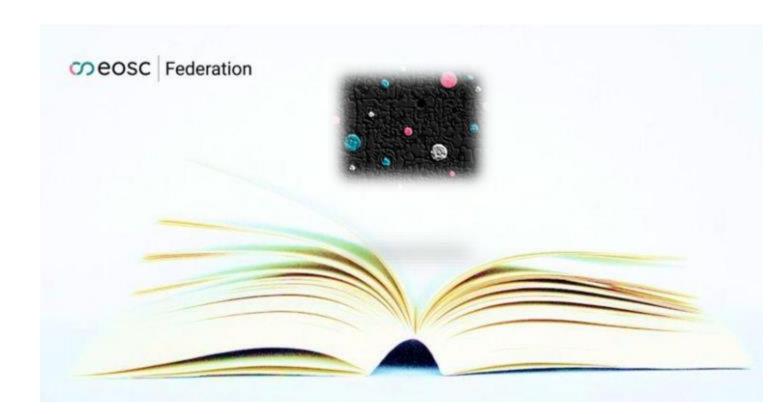


## The EOSC Federation Handbook

- EOSC Federation Handbook is a collaborative effort to document what an EOSC Node is and how to build the EOSC Federation from the EOSC Nodes
- It is in its final draft and will be made public soon (planned for mid-March?)
- Webpage: <u>https://eosc.eu/eosc-federation-handbook/</u>

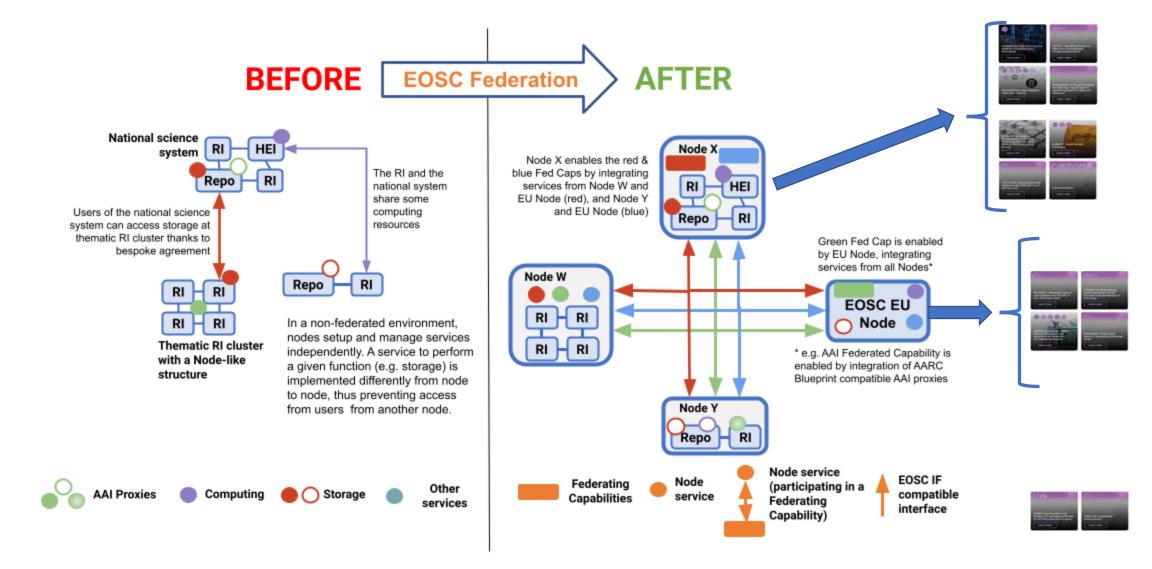
**EOSC Federation Handbook - FULL DRAFT** 

Version of 3 March 2025





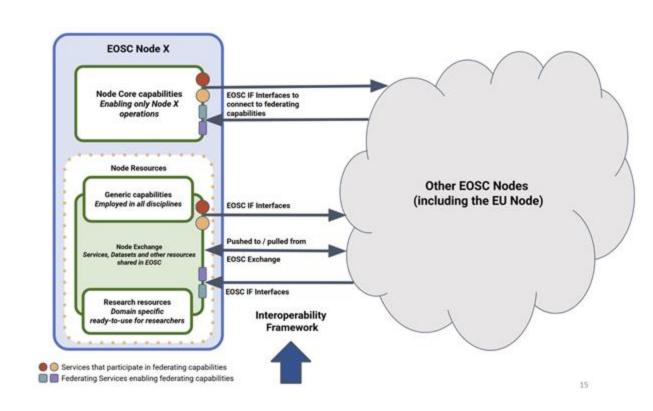
#### Vision of the EOSC Federation





#### What is an EOSC Node?

- EOSC Federation a virtual infrastructure made up of EOSC Nodes
- **EOSC Nodes** are organisations or groups of organisation that offer data, services and IT infrastructure
- EOSC Nodes must federate services by linking to some or all the other Nodes
- The EOSC Federation is under construction, lots of details need to be worked out
- The Federation will start with 13 Nodes and should be operational by November 2025



#### First wave of EOSC Nodes + EU Node

- BBMRI ERIC
- CERN
- CNR (Blue-Cloud 2026)
- CNRS (Data Terra)
- CSC IT Center for Science
- CVTI SR
- Life Science Research Node (on behalf of four Life Science Research Infrastructures: ELIXIR, EMBL, Euro-Biolmaging ERIC, and Instruct-ERIC)

- ESRF (PaNOSC)
- EUDAT
- Foundation ICSC
- NCN
- NFDI
- SURF

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

#### What is the EOSC EU Node?

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

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#### European Open Science Cloud **EU Node**

Access your account and take advantage of the free resources, perform research and collaborate.

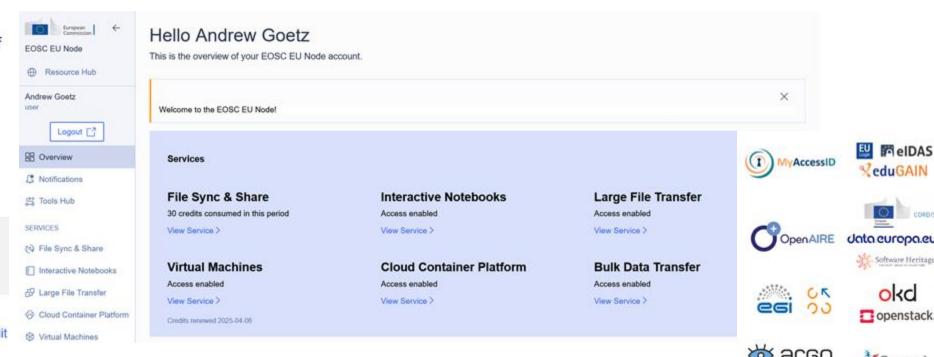
#### Log in

Chosen authentication provider



Add another institution

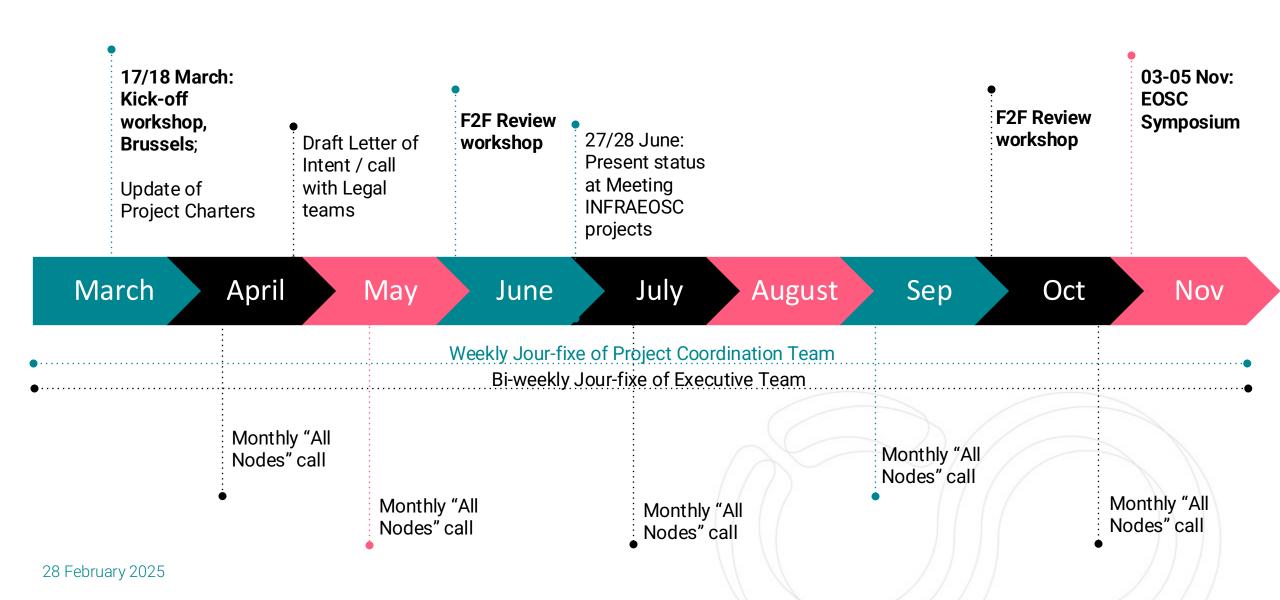
- A free resource for all EU researchers offering IT services like file sharing, VMs, containers, file transfer, common AAI, resources
- All researchers have 500 credits/3 months on the EU Node







### coeosc Tentative Timeline for build-up phase of the EOSC Federation



# OSCARS projects are good examples of Open Science led by Researchers.

Results of OSCARS OS projects should be sustained and continue to be available after OSCARS.

What can EOSC do for you?

#### EOSC as vehicle for sustainability (1)

- 1. Increasing the visibility and impact of datasets and tools
- 2. Providing tools for improving the **FAIRness of data**, e.g. sample metadata, processed data metadata etc.
- **3. Linking discipline-specific data** to other data repositories, databases, wikidata, etc.
- 4. Making FAIR data management the new normal in all nodes
- 5. Supporting the availability of **open databases** and sustainable over the long term
- 6. Making high quality data available for AI machine learning

#### EOSC as vehicle for sustainability (2)

**How** to ensure that OS project results remain available post-OSCARS?

- EU Node? Maybe ...
- The Science Clusters, or more precisely: the associated RIs in the EOSC landscape and their nodes, offer facilities for
  - harvesting of metadata that comply with their interoperability standards
  - hosting of data, services and workflows relevant for the disciplines served
  - osharing of expertise, training (in part via the OSCARS competence centres)

#### What to do here / now?

- Identify the existing thematic RIs that given the disciplinary orientation of your project could be suited for collaboration/ training/mentoring
- Get in touch to check the interoperability approach of the relevant thematic node(s). Ask for support/training and start adopting / implementing relevant standards/methods/etc asap.

#### Conclusion

- 1. OSCARS OS projects already profit from EOSC outputs.
- 2. OSCARS OS projects are providing useful scientific outputs e.g. FAIR data, tools, software etc.
- EOSC Nodes can boost the sustainability of the activities for FAIR data and Open Science in the EOSC community,
- 4. To improve the potential for sustainability and benefit from the visibility through EOSC identify an EOSC Node or associated repository where you can on-board your data and services.