

EOSC Academy - Course 2: Applying the EOSC Federation Handbook

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for the **EOSC Academy**



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EOSC EOSC Association

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EOSC Federation Handbook

EOSC Association (Editor)

The EOSC Federation Handbook provides an overview of the organisational and operational structure and technical characteristics of the EOSC Federation. It aims to serve as a practical guideline for organisations that are interested in making their resources available within and across the EOSC Federation. Such organisations can achieve this objective by creating and operating an "EOSC Node", and "enrolling" it as part of the EOSC Federation, and/or by "onboarding" their resources in one or more EOSC Nodes operated by other organisations.

The intended users of the Handbook include primarily facility managers, policy makers and technical staff of research performing and funding organisations, research infrastructures, providers of scientific services and other resources, and e-infrastructures.

The "end-users" of the resources accessible through the EOSC Federation, i.e. the researchers, are not directly targeted by the Handbook, but they may still find useful information about the scope and organisation of the EOSC Federation. It is important to build the EOSC Federation in the most transparent manner and with the understanding of the research community.

Files

EOSC_Federation_Handbook_V2_20260130.pdf

Version	Date
Version 2.0 10.5281/zenodo.18454649	Jan 30, 2026
Version 1.0 10.5281/zenodo.1499577	Mar 27, 2025

External resources

Indexed in

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Details

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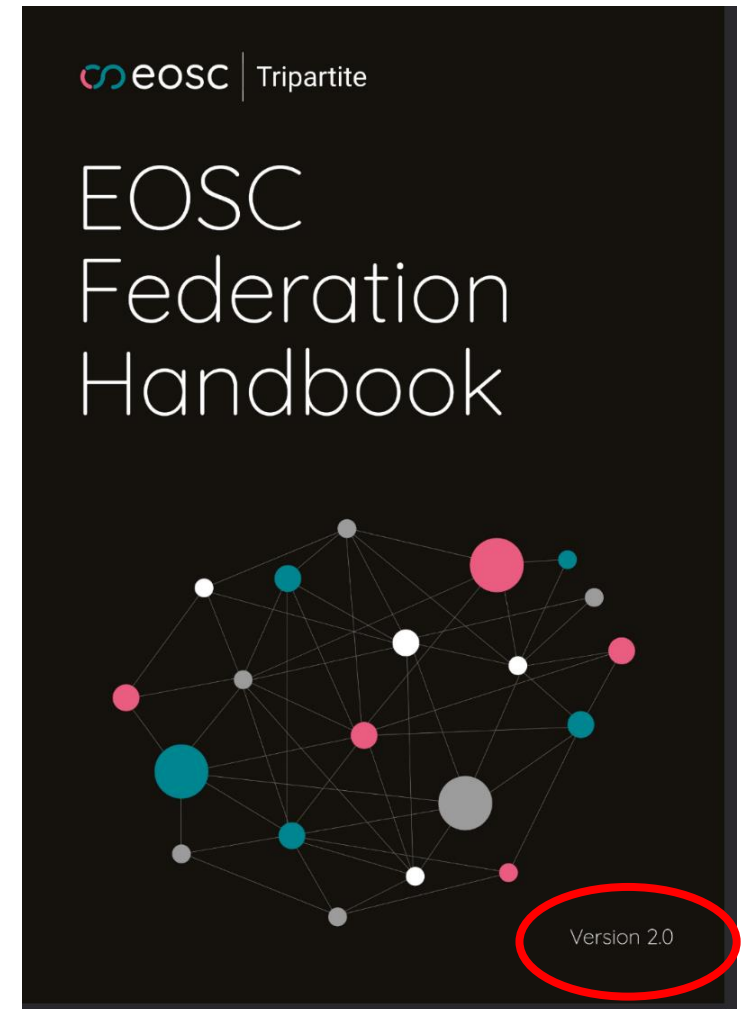
Resource type

Book

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Module 2

Expected outcomes of the EOSC Federation

HB-V2 - Ch 1. Purpose and expected outcomes – pg 12+13

1. Enhanced access to and use of digital resources
2. Facilitated research reproducibility
3. Increased collaboration, community and knowledge sharing
4. Improved efficiency and higher impact of investment in research
5. Increased standardisation and interoperability
6. Increased robustness and trustworthiness
7. Increased data sovereignty



- ✓ Enhanced access to and use of digital resources (**data and services**)
- ✓ Facilitated research reproducibility (**FAIR data**)
- ✓ Increased collaboration, community and knowledge sharing (**building the node and OSCARS projects**)
- ✓ Improved efficiency and higher impact of investment in research (**reuse of FAIR data by a larger community**)
- ✓ Increased standardisation and interoperability (**metadata**)
- ✓ Increased robustness and trustworthiness (**trustworthy repositories**)
- ✓ Increased data sovereignty (**data stored in facility repositories in Europe**)

PaNOSC project (2018-2022) was funded by INFRA-EOSC-2018-04



- ✓ FAIR data policy and DMPs – **90% of PaN RIs (15)**
- ✓ Standardised metadata (Nexus/HDF5) – **ALL PaN RIs (18)**
- ✓ Federated search API for PaN data catalogues – **8 PaN RIs**
- ✓ Open Data portal for FAIR data – **8 PaNs RIs**
- ✓ Community AAI UmbrellaId – **90% PaN RIs (15)**
- ✓ JupyterLab notebooks service - **90% PaN RIs, 100s users daily**
- ✓ Nexus/HDF5 web visualization – **ALL PaN RIs, 100000 worldwide**
- ✓ Remote data analysis with VISA – **8 PaN RIs, 100s users monthly**
- ✓ Simulation software (ViNYL+McStasScript) – **4 PaN RIs, 100s users monthly**
- ✓ PaN-training platform (pan-training.org) – **100s users monthly**



Photo by Leelo The First on Pexels

Flashcards

Question 2.1: List at least three of the expected outcomes of the Federation

Question 2.2: Who represents a multi-partner Node?

Further Questions + Discussions on the EOSC Federation User Forum

<https://user-forum.eosc.eu/>



A screenshot of the EOSC Federation User Forum interface. The top left shows the EOSC logo and 'Federation'. Below it is a 'New Topic' button and a list of navigation options: Topics, My posts, My messages, Review, Admin, Invite, and More. The main content area is titled 'Welcome back, andygotz!' and features a search bar. Below the search bar are filters for 'Latest', 'New (1)', 'Hot', and 'Categories'. A list of forum posts follows, including 'EOSC Academy - Online sessions - May/June 2026', 'EU Node Technical Architecture Specifications', 'EOSC Federation onboarding of services', 'EOSC Node Open Source bundles', 'OSCARS project InViMOD', 'Code of Conduct - draft', 'Admin Guide: Getting Started', and 'Welcome to the EOSC Federation User Forum!'. The bottom of the screen shows a '+ 5' icon.