



Onboarding Services to the PaNOSC EOSC Node + EOSC Federation

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on behalf of the PaNOSC Community



The EOSC Federation



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PaNOSC Node and the EOSC Federation

- **Node buildup – 2025-now**

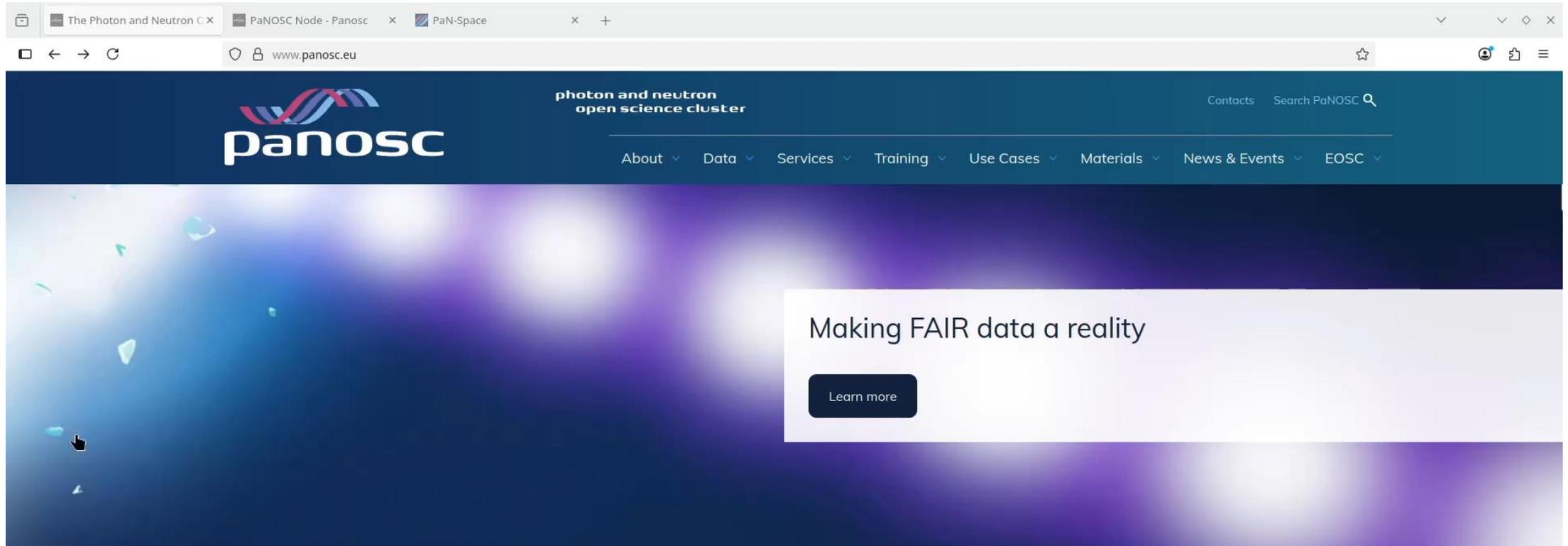
1. PaNOSC was selected as one of the first wave of EOSC Nodes
2. A Project Charter was developed in 2024 followed by a [Project Plan](#) with 6 Work Packages
3. PaNOSC is involved in the buildup phase working groups (Handbook, Training, MoU, Service Catalogue)

- **PaNOSC Node is building a platform for Open Science in Photon and Neutrons:**

- **AAI** – [UmbrellaID AAI](#) has been validated on the technical level with the EOSC AAI (MyAccessId)
- **Data catalogues** – [PaN-Finder](#) (OSCARS), an AI-driven search engine for FAIR data
- **VRE** – work ongoing on the [VISA](#) (OSCARS) and extending it to EOSC users
- **Training** – developing [PaN-Training platform](#) based on outcome of mTeSS-X (OSCARS)
- **Website** – developing the [PaNOSC EOSC Node home page](#) + service catalogue
- **PaN-Space** – developing a [PaN user portal](#) for users to discover and manage FAIR data as a project
- **Metadata** – defining metadata and extending existing standards ([Nexus](#))
- **Software** – sharing workflows ([Ewoks](#)) and package research software ([CVFMS](#))
- **Visualisation** – developers of the cross-domain visualization service [H5Web](#)



The PaNOSC Node is building a common User Experience for FAIR data + Open Science



The Photon and Neutron Open Science Cluster (PaNOSC)

The Photon and Neutron Open Science Cluster (PaNOSC) is the Science Cluster representing Photon and Neutron European Research Infrastructures (RIs), developing and providing services for its scientific community and connecting these to the European Open Science Cloud (EOSC).



PaNOSC EOSC Node Onboarding Services

- **What Services can be onboarded?**
 - Any / All services satisfying the requirements of the **PaNOSC node**
- **PaNOSC Node requirements for onboarding services** (under development)
 - Used / Useful for the Photon and Neutron community
 - Based on the principles of Open Science
 - Well documented, mature (TRL7+),
 - Support provided by owner(s)
 - Supports EOSC AAI
 - Policies in place for:
 - Privacy of personal data
 - Rules of participation
 - Cybersecurity, ...

<https://www.panosc.eu/panosc-eosc-node/>

Overview of PaNOSC Node Services

19 results found Search

Content Provider			
ESRF – European Synchrotron ...	4	ALBA synchrotron Data Portal Find, access, interact and reuse data acquired at... (Show more)	DAPHNE Public Data Portal This catalogue allows users to access... (Show more)
Paul Scherrer Institute (PSI)	3		Paleontology data portal The Paleontology database hosts data... (Show more)
ESS – European Spallation Sou...	2		
Helmholtz-Zentrum Dresden-R...	2		
MAX IV	2		
ALBA	1		
Deutsches Elektronen-Synchrot...	1	Human Organ Atlas The Human Organ Atlas provides Hierarchical... (Show more)	ESRF data repository The ESRF FAIR data catalog contains all... (Show more)
Elettra	1		ILL VISA Service VISA (Virtual Infrastructure for Scientific Analysis) (Show more)
Institut Laue-Langevin (ILL)	1		
PaNOSC	1		
More...			
Keywords			
PaNOSC	16	PaNOSC Data Portal The PaNOSC Data Portal provides unified... (Show more)	PaN- Training PaN-Training.eu is the central training... (Show more)
PaN	15		
data management	11		
discovery	11		
Photon and Neutron	10		
		HZDR Metadata Catalogue SciCat SciCat is HZDR's metadata catalogue... (Show more)	

PaNOSC EOSC Node Onboarding Services

- **Hosting of PaNOSC Services**

- **Self hosted services** can be registered in the PaNOSC EOSC Node Service Catalogue but will need to satisfy the policy requirements + be monitored
- **Services hosted on PaNOSC infrastructure** need to be compatible with PaNOSC tools e.g.
 - Supports EOSC AAI
 - SW packaged for CVFMS,
 - Runs on VISA and/or Jupyter,
 - Managed by ewoks meta-workflows,
 - Training on PaN-training.eu

**AiiDALab
Quantum
ESPRESSO app**

AiiDALab, a
Jupyter-based
web platform
powered by the
(Show more)

**Materials
Cloud
Archive**

Open
repository for
research data
relevant to
(Show more)

**ESRF VISA
Service**

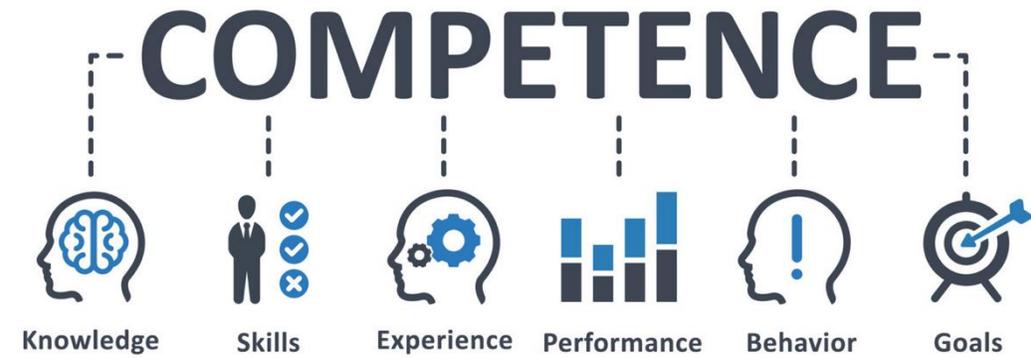
The ESRF
VISA (Virtual
Infrastructure
for Scientific
(Show more)

PaNOSC EOSC Node Competence Centre

[mailto:competence.centre@panosc.eu]

- PaNOSC provides consulting and coaching on the following Competences:

- Research Software development (RSQKit)
- Nexus Metadata definitions
- Metadata catalogue(s) choice + installation
- Data portals for dedicated domains
- Visualisation in the web (H5Web)
- HDF5 data format
- Jupyter notebooks
- VISA remote data analysis platform
- Workflows + meta-workflows (Ewoks)
- Training platform + material
- Software packaging + distribution (CVFMS)



**Our Goal is to make the PaNOSC Node the place where
Researchers find PaNOSC OSCARS projects outcomes
for Open Science**



BEFORE



AFTER

PaNOSC EOSC Node + Onboarding OSCARS Projects – Conclusion –

1. PaNOSC Node is the platform for Open Science for users and machines to access metadata, open data, software, workflows, training, etc. from Photons and Neutron sources in Europe
2. PaNOSC EOSC Node goal is to build a community of Open Scientists for Photons and Neutrons
3. PaNOSC encourages all PaNOSC OSCARS projects to consider onboarding their outcomes on the PaNOSC Node and send an email to contact@panosc.eu