



# Onboarding Services to the PaNOSC EOSC Node + EOSC Federation

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on behalf of the **PaNOSC Community**



# PaNOSC EOSC Node Onboarding Services

- **What Services can be onboarded?**
- Any / All services satisfying the requirements of the **PaNOSC node**:
  - 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, ...
- **Services remain the responsibility of the providers**

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

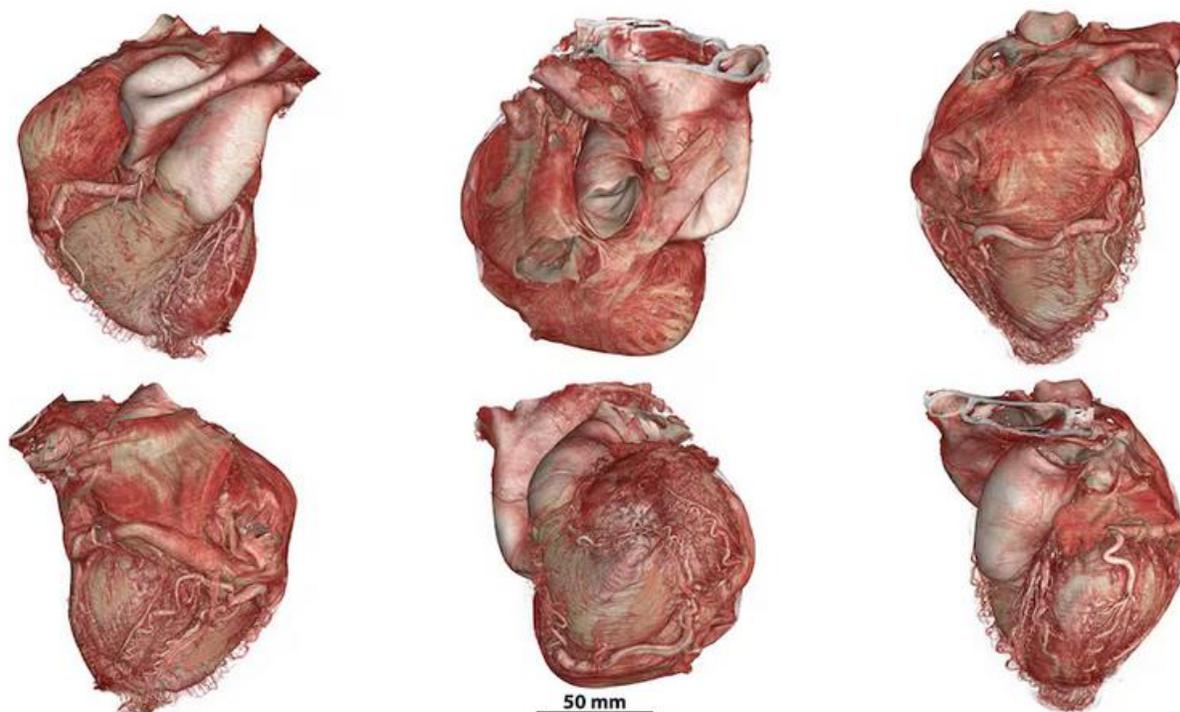
## Overview of PaNOSC Node Services

19 results found  Search

Content Provider	ALBA synchrotron Data Portal	DAPHNE Public Data Portal	Paleontology data portal
ESRF – European Synchrotron ... 4	Find, access, interact and reuse data acquired at____ (Show more)	This catalogue allows users to access____ (Show more)	The Paleontology database hosts data____ (Show more)
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MAX IV 2	The PaNOSC Data Portal provides unified____ (Show more)	HZDR Metadata Catalogue SciCat (Show more)	PaN-Training.eu is the central training____ (Show more)
ALBA 1			
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Elettra 1			
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PaNOSC 1			
More...			
Keywords			
PaNOSC 16			
PaN 15			
data management 11			
discovery 11			
Photon and Neutron 10			

## Un nuevo atlas interactivo permite ver el cuerpo humano como nunca antes

La herramienta muestra los órganos en tres dimensiones y abre nuevas vías para investigar enfermedades clave, como el cáncer y la diabetes



Detalle de un corazón perteneciente al Atlas de órganos humanos.  
THE HUMAN ORGAN ATLAS

<https://elpais.com/salud-y-bienestar/2026-03-11/un-nuevo-atlas-interactivo-permite-ver-el-cuerpo-humano-como-nunca-antes.html>

# 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)

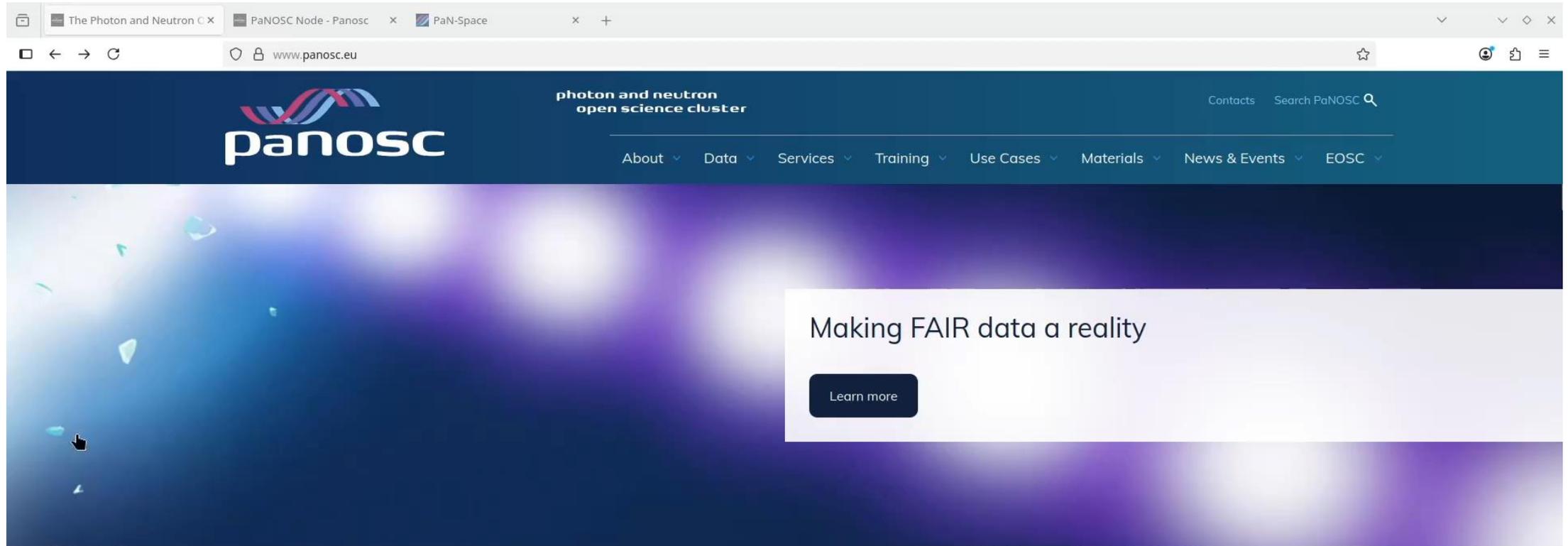
**Materials  
Cloud  
Archive**

Open  
repository for  
research data  
relevant to  
(Show more)

**ESRF VISA  
Service**

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

# 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 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](#)

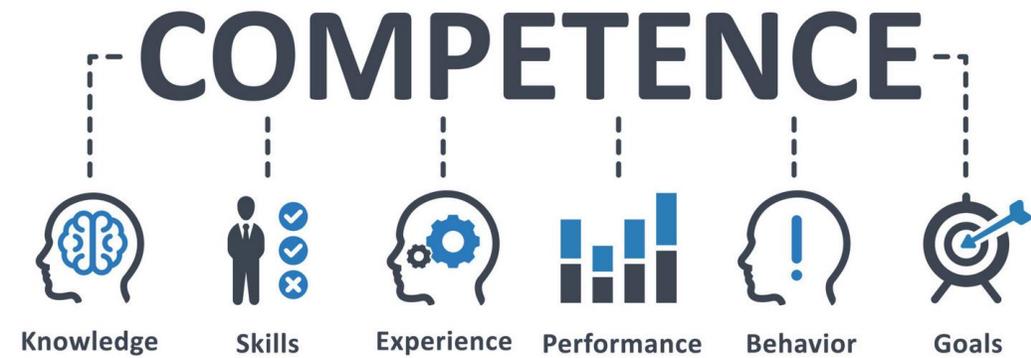


# PaNOSC EOSC Node Competence Centre

[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](mailto:contact@panosc.eu)