EOSC Node | Poland

EOSC Node PL in the EOSC Federation

Building a National Gateway to EOSC



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National context – why do we need a node?

Policies

- 1 National Policy on Open Research Data (2025)
- 56 Institutional OS policies (2023)

Skills and competences

- 5 RDM and DS MOOCs (2025)
- ~10k Users of RDM and DS MOOCs (2025)
- 1 Data Stewards network

Data Infrastructures

- 75 Publication repositories (2023)
- 55 Research data repositories (2023)
- 57 Other research output repositories (2023)

E-Infrastructures

- 1 National Data Storage network
- 1 PLGrid network (computing)
- 2 AI Factories (2025)

Research Infrastructures

- 1 Polish Roadmap for Research Infrastructures (to be updated in 2025)
- 60 Research Infrastructures listed on the Polish Roadmap for RI

EOSC structures

- 1 EOSC-PL Network
- 29 Members of the EOSC-PL Network

EOSC Node Poland / Overview

Objectives:

1 **Integration**
Bring resources into the EOSC Federation

2 **Standards**
Ensure compliance with FAIR principles across all integrated services

3 **Access**
Provide federated (AAI) for a seamless user experience

4 **Interoperability**
Enable open science interoperability across platforms and services

5 **Impact**
Facilitate cross-border collaboration and efficient resource use for researchers

Governance:

A coordinated federation:

- light central steering
- strong community execution
- iterative approach

Structure:

- Defined roles and responsibilities
- Steering group
- Regular weekly meetings
- Ad hoc Working Groups

Use cases:

- Implementation of federating capabilities
- Desiginign and implementing research workflows based on resources across Federation

Node's entry point:

- Discovery platform
- Federated AAI
- FAIR-by-design working space for researchers

Involvement of stakeholders

EOSC Node PL / membership	EOSC Node PL / onboarding
Formal status	
formal accession - RoP	no formal membership
Scope of involvement	
governance structures, strategy, and delivery of agreed objectives	inclusion of resources in the EOSC-PL infrastructure
Decision-making rights re the Node	
yes	no
Obligations	
co-creating the strategy, activity in working groups, reporting	ensuring that resources comply with requirements
Possibility to onboard resources	
yes	yes
Form of engagement	
long-term and systematic	modular and flexible

EOSC-PL Network

1. Center for Geospatial and Satellite Analysis of the Warsaw University of Technology
2. CLARIN-PL Wrocław University of Science and Technology
3. Collegium Medicum Jagiellonian University
4. Cyfronet AGH
5. Gdańsk University of Technology
6. Institute of Biochemistry and Biophysics of the Polish Academy of Sciences (IBB PAN)
7. Institute of Literary Research of the Polish Academy of Sciences (PAN)
8. Institute of Geophysics of the Polish Academy of Sciences (PAN)
9. Institute of Oceanology of the Polish Academy of Sciences (IO PAN)
10. ICM University of Warsaw
11. Jagiellonian University
12. Lublin University of Technology
13. Łukasiewicz Research Network
14. Medical University of Gdańsk
15. Ministry of Science and Higher Education
16. National Information Processing Institute – State Research Institute (OPI POB)
17. National Science Centre Poland
18. National Synchrotron Radiation Center SOLARIS
19. Nicolaus Copernicus University in Toruń
20. Polish Polar Consortium
21. Poznań Supercomputing and Networking Center
22. Sano Centre for Computational Medicine
23. SWPS University
24. University of Gdańsk
25. University of Łódź
26. University of Siedlce
27. University of Silesia in Katowice

EOSC-PL / resources

- Open data and research repositories
- Digital infrastructure for research
- Specialized research tools
- Knowledge sharing and training
- Platforms for Open Science
- Core services for resource discovery and access

- PLGrid – domain services
- BRIDGE of Knowledge
- BRIDGE of Knowledge ORD catalog
- RepOD
- RODBUK
- PLGrid - storage and computing

- Poznan Supercomputing and Networking Centre
- CI TASK
- Cyfronet
- Wrocław Centre for Networking and Supercomputing
- ICM Warsaw University
- National Centre for Nuclear Research

EOSC Node Poland
National node

- RODBUK as a technology
- OS Competence Centre
- OS, FAIR and EOSC trainings
- Data Stewardship MOOCs
- RDM MOOCs
- Polish OS Platform
- Digital Tissue and Cell Atlas and the Virtual Microscope
- Library of Science
- E-cudo
- ICON – storage and computing
- Onedata

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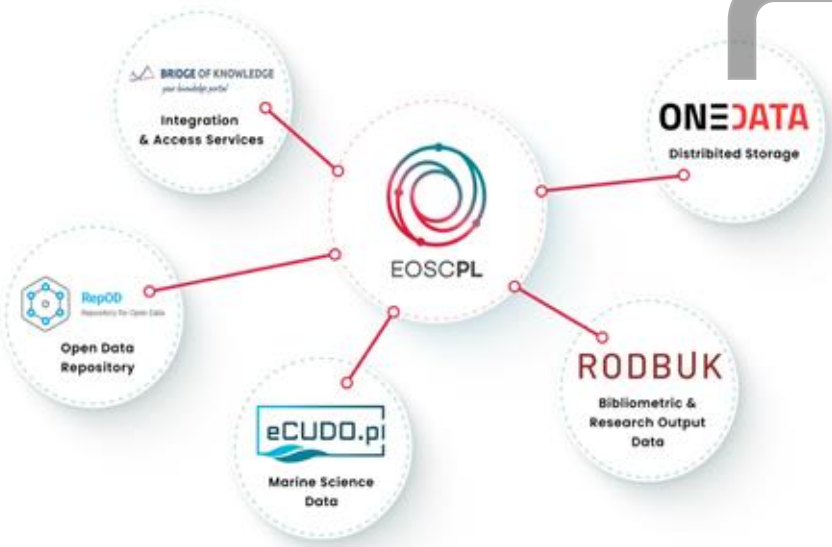
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eosc.pl – a gateway to federated research environment

Not only discoverability
EOSC.pl is becoming a space for researchers to work with and reuse data in compliance with FAIR principles.

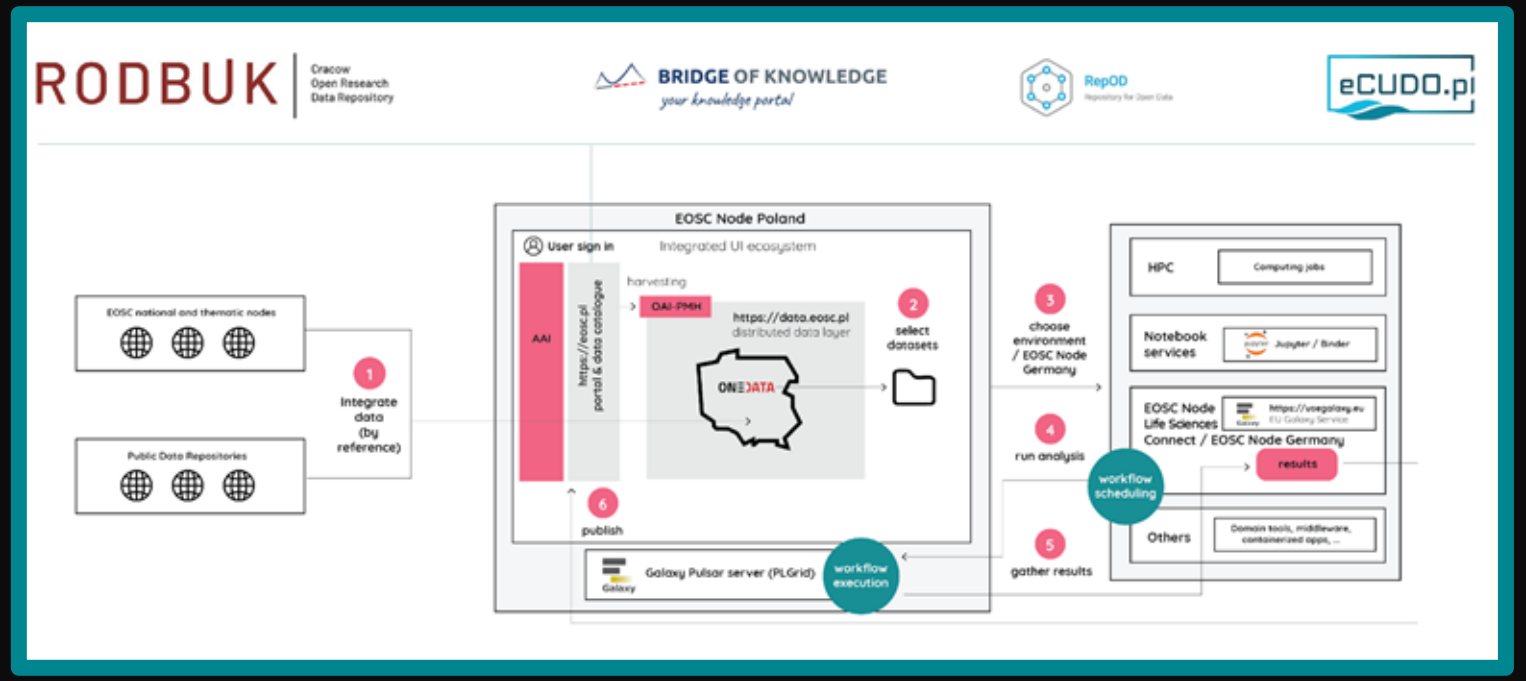


- unifies access to distributed and heterogeneous storage resources
- enables teamwork on curated datasets
- supports metadata annotation and data discovery
- facilitates collaborative data sharing across organizations and research teams



Workflow example on eosc.pl

1. **Integrate data** – datasets from public repositories and EOSC nodes are imported by reference into Onedata spaces and harvested in the eosc.pl catalogue
2. **Select datasets** – the user enters data.eosc.pl and selects input datasets from the distributed catalogues via Onedata
3. **Choose environment** – the user chooses one of many compatible environments
4. **Run analysis –** the user configures Onedata as a data source in Galaxy and launches a workflow; the execution runs on PLGrid's Pulsar server
5. **Gather results** – outputs are written back to the user's Onedata space as RO-Crate with provenance, supported by Galaxy EU
6. **Publish** – final results can be published and shared through the eosc.pl catalogue, making them discoverable and reusable by others



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Workflow example on eosc.pl / DEMO





Welcome to EOSC Node Poland!

UNIVERSITY OF WARSAW
Interdisciplinary Centre for Mathematical and Computational Modelling
icm.edu.pl

Institute of Oceanology
Polish Academy of Sciences

CYFRONET

GDAŃSK UNIVERSITY OF TECHNOLOGY

NATIONAL SCIENCE CENTRE
POLAND