



OSCARS

Open Science Clusters' Action
for Research & Society



European
Digital
UniverCity

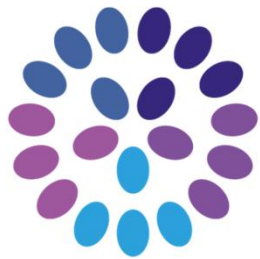
PNU-OpenLab: the step of PNU toward Open Science

*Volodymyr Kotsiubynskyi,
Vasyl Stefanyk Precarpathian National University*

*May 16, 2025
Ivano-Frankivsk*



Co-funded by
the European Union



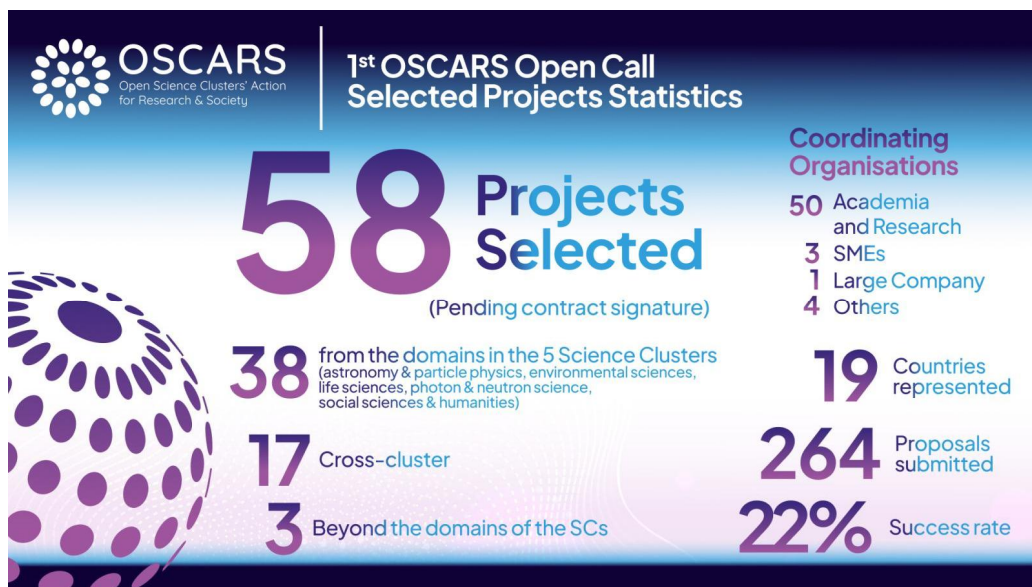
OSCARS

Open Science Clusters' Action
for Research & Society

OSCARS is Horizon Europe project that fostering the Open Science by consolidating the European Research Infrastructures in the ESFRI roadmap and beyond into interdisciplinary FAIR data services and working practices.



- *Support researchers and RIs*
- *Foster communication and collaboration for Open Science between RIs in the Science Clusters and across the SCs*
- *Create a collaborative network to provide expertise, best practices and services in relation to Open Science*
- *Promote cross-disciplinary collaborations for Open Science*
- *Set up a common dashboard model and a mentoring strategy to support the efforts of SCs in training, and to disseminate skills and best practices.*



The 1st OSCARS Open Call for Open Science Projects and Services concluded in 2025 resulting in a total of 58 projects being selected for funding.

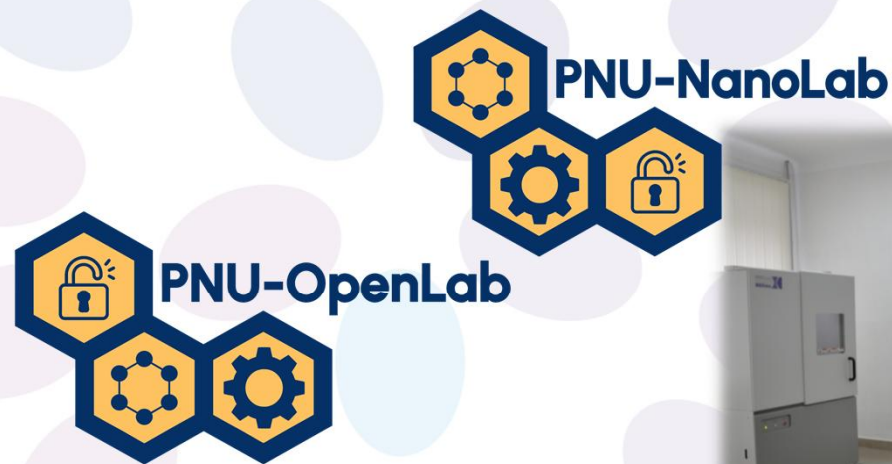
The 2nd OSCARS Open Call - Deadline for application was 14th May 2025

*PNU-OpenLab becomes a superstructural facility for PNU research ecosystem
(for example PNU-NanoLab - Nanotechnology Lab for Materials Science, Energy, and Medicine)*

Creation of a Invenio-driven repository

Providing open access to the research infrastructure of the PNU

*Providing certified services for industry in the field of material properties investigation,
which is important for defence capabilities and the needs of Ukraine's critical infrastructure*



<https://nano-lab.pnu.edu.ua/en/contact/>

Центр відкритої науки в сучасному матеріалознавстві Прикарпатського національного університету (PNU-OpenLab)

ПРО НАС

HORIZON-INFRA-2023-EOSC-01-01

ДЛЯ БІЗНЕСУ

ДЛЯ СТУДЕНТІВ

ДЛЯ НАУКОВЦІВ

КОМАНДА

УКРАЇНСЬКА

ENGLISH

PNU-OpenLab

ПРО НАС

HORIZON-INFRA-2023-EOSC-01-01

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ENGLISH



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ПРО НАС



PNU-OpenLab (Центр відкритої науки в сучасному матеріалознавстві) разом з PNU-NanoLab (Центр колективного користування науковим обладнанням «Лабораторія нанотехнологій для матеріалознавства, енергетики та медицини»), PNU-FabLab (Лабораторія прототипування, 3D- друк та дизайну) , а також PNU-SimLab (Лабораторія моделювання властивостей матеріалів) є складовою частиною дослідницької екосистеми Прикарпатського національного університету.

Основними завданнями Центру відкритої науки в сучасному матеріалознавстві (PNU-OpenLab) при Прикарпат-

ACCESS TO PNU REPOSITORY











2nd OSCARS Open Call for Open Science Projects and Services

Launch event

EVENT POSTPONED !!!

15 January 2025 11:00-12:30 CET Online



Lack of Awareness and Training
Legal and Policy Framework Under Development
Inadequate Digital Infrastructure
*Cultural restriction and “traditional”
academic evaluation system*
Lack of Support for Early-Career Researchers
Problems with access to research infrastructure



Enhancing researchers' engagement with Open Science through seminars and training programs for students and young scientists by demonstrating and piloting the use of EOSC resources

Implementation of ESFRI objectives to foster multilateral initiatives for the improved use of research infrastructures in the EU and Ukraine

Consultative Services and Methodological Support

Access to Research Data via repository

Support for Industry Collaboration

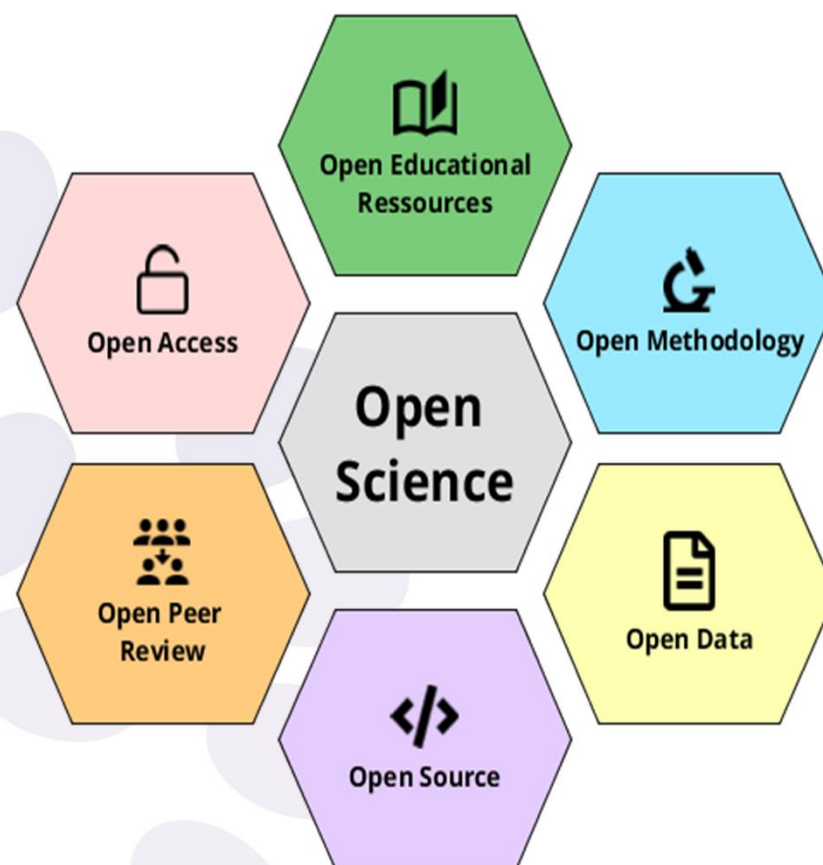
Interdisciplinary Collaboration and Project's Support

Groundwork for the creation of a CERIC Regional Node

Promoting the entry of Ukrainian scientists into the European Research Area



1. *Open Data and the FAIR principles*
2. *Open Metodology*
3. *Open Access to publications and Peer Review*
4. *Open Licensing*



https://upload.wikimedia.org/wikipedia/commons/e/e1/Open_Science_Pillars.png

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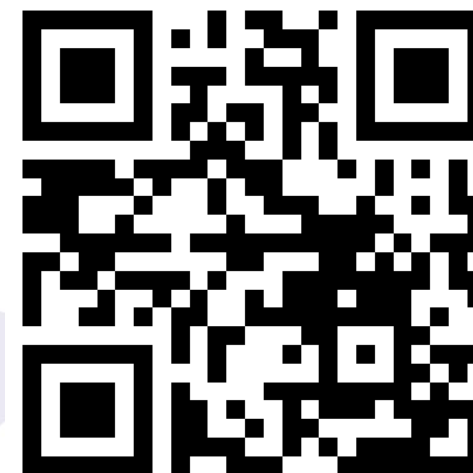
1. *Open Access Repositories* - Zenodo, Dataverse, Figshare, Dryad
2. *Data Management Tools*
 - Research Data Management (RDM) systems
 - Metadata standards: Dublin Core, DataCite, schema.org
 - DOI assignment (via CrossRef, DataCite)
3. *Licensing Platforms*
 - Creative Commons licenses (CC BY, CC0)
 - Open Data Commons licenses
 - MIT / CISCO Licenses
4. *Researcher Identifiers*
 - ORCID ID integration
 - Linking publications, datasets, and profiles
5. *Collaboration and Sharing Platforms*
 - GitHub (for open source and data sharing)
 - OpenAIRE, EOSC portals (for data sharing and aggregation)
6. *Citation and Tracking Tools*
 - DOI citation standards (CrossRef, DataCite)
 - Google Scholar, Scopus, Web of Science



<https://www.gida-global.org/care>

«As open as possible, as closed as necessary»

OpenLab Dataset



Recent uploads

April 8, 2025 (2.0)

Presentation

 Open

Radiation Safety: European-Ukrainian Approach

Kotsyubynsky, Volodymyr ; Boychuk, Volodymyra ; Turovska, Lillia 

The strategic goal of the course is to build a platform (theoretical course, practical classes, informational website) that combines informational, educational, and regulatory components contributing to the formation of an objective and justified positive civil position in matters related to the use of nuclear energy and sources of ionizing radiation...

Uploaded on April 10, 2025

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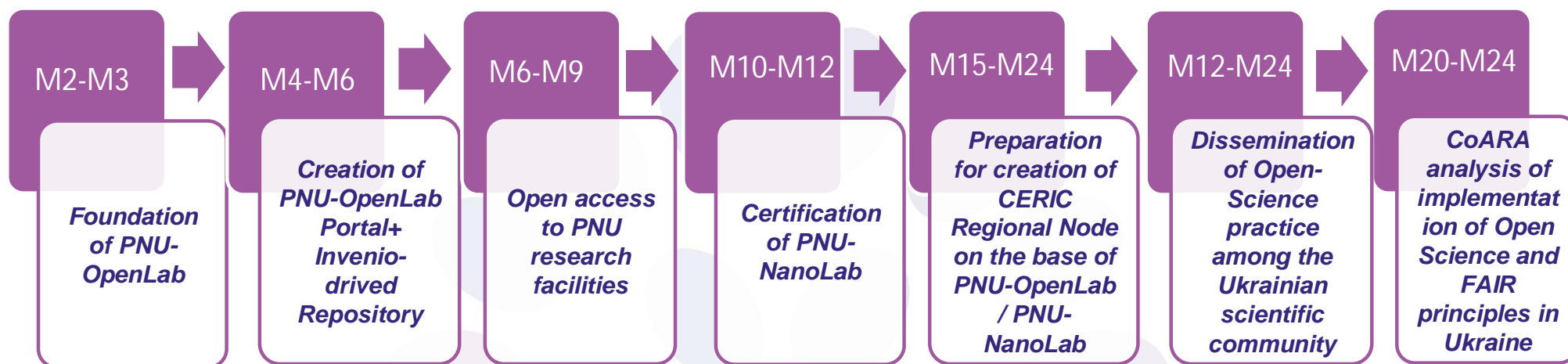
Open Science: OpenLab: GitHub



The screenshot shows the GitHub profile page for the "Advanced Materials Open Science Centre". The header includes navigation links: Product, Solutions, Resources, Open Source, Enterprise, and Pricing, along with a search bar. The profile section features a hexagonal repository icon with a padlock, the organization name, and a bio: "Advanced Materials Open Science Centre (OpenLab), Vasyl Stefanyk Carpathian National University, Ivano-Frankivsk, Ukraine". It also lists the location as "Ukraine", the website "https://open-lab.pnu.edu.ua/", and the email "nano_lab@pnu.edu.ua". Below this are tabs for Overview, Repositories (1), Projects, Packages, and People. The "Popular repositories" section displays "InvenioRDM_Harvester" as a public repository in C#. The "Repositories" section includes a search bar and filters for Type, Language, and Sort. The first repository listed is "InvenioRDM_Harvester", which is public, in C#, has 0 stars, 0 forks, 0 issues, and 0 pull requests, and was updated 2 weeks ago.



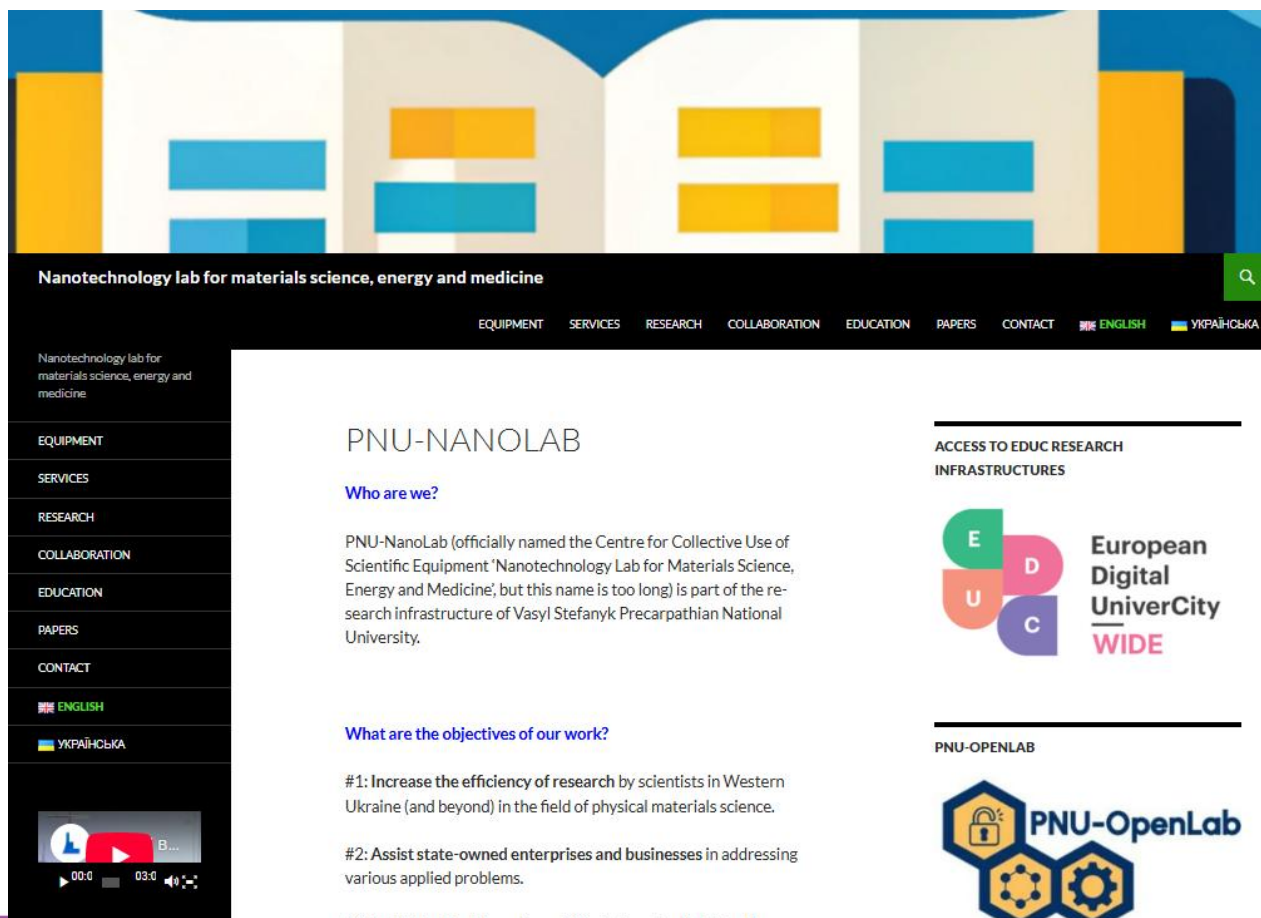
The PNU-OpenLab is an Open Science centreE at Precarpathian National University



<https://open-lab.pnu.edu.ua/en/>

The primary expected impact of PNU-OpenLab is the consolidation of research activities among Ukrainian university scientists in the field of obtaining, characterization, and implementation of the advanced materials and nanomaterials in accordance with the principles of Open Science





The screenshot shows the PNU-NanoLab website. The header features a colorful abstract graphic and the text "Nanotechnology lab for materials science, energy and medicine". A navigation bar includes links for EQUIPMENT, SERVICES, RESEARCH, COLLABORATION, EDUCATION, PAPERS, and CONTACT, along with language options for ENGLISH and UKRAЇНСЬКА. The main content area is titled "PNU-NANOLAB" and includes a "Who are we?" section describing the lab as part of the research infrastructure of Vasyl Stefanyk Precarpathian National University. It also lists objectives, such as increasing research efficiency and assisting state-owned enterprises. A sidebar on the left contains a menu with the same navigation links and a video player at the bottom.



The screenshot shows a Ukrainian article titled "Доступ до обладнання центру PNU-NanoLab для представників закладів вищої освіти" (Access to the PNU-NanoLab equipment for representatives of higher education institutions). The article is part of a two-page document. The text states that access to the center's equipment is provided free of charge for research and development work, which is financed from the state budget (excluding master's thesis work).

Open Science: Word Cloud



Open Science is a modern approach to the scientific process, based on cooperative work and new ways of disseminating knowledge through digital technologies and collaborative tools.

infrastructure metadata **FAIR** findable, accessible, interoperable and reusable
skills and training rewards and recognition communication **trust** impact
persistent identifier (PID) digital skills cloud computing data management **digital object identifier (DOI)**
research infrastructure licenses **ethics** publishing share and find **pre-print** open science policies
open access publishing repositories **open research europe**

- *Open Science is not a trend, but the new reality*
- *Transparency, accessibility, and trust as pillars of future research*
- *Call to action: embracing Open Science culture*



Thank You

volodymyr.kotsuybysky@pnu.edu.ua

