OSCARS
Open Science Clusters' Action for Research & Society

European Digital UniverCity

PNU-OpenLab: the step of PNU toward Open Sciece

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Open Science : OSCARS

OSCARS

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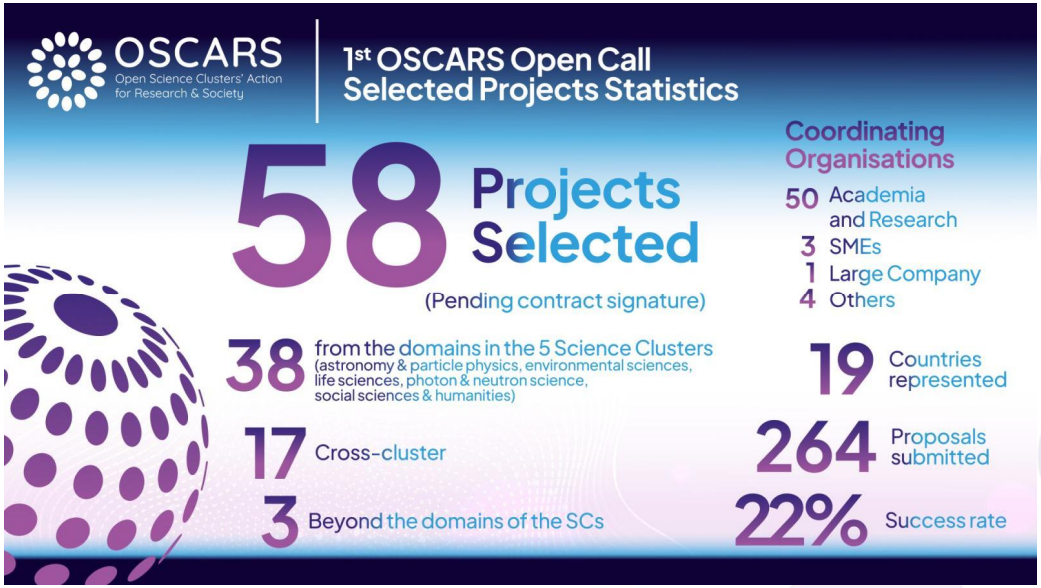
Open Science Clusters' Action
for Research & Society

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.*

Open Science : OSCARS: PNU-OpenLab



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

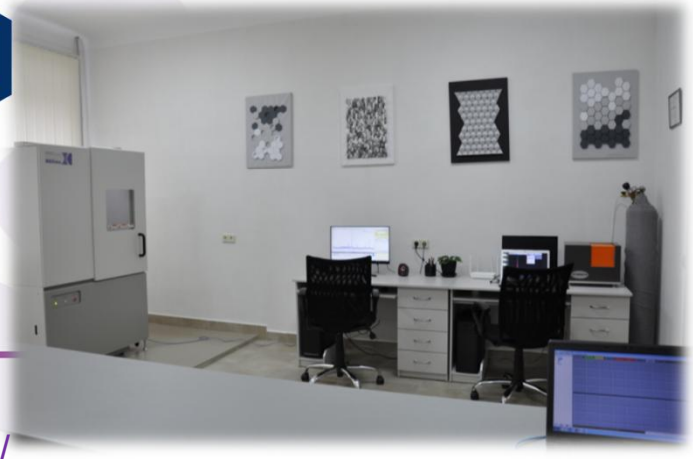
OSCARS: PNU-OpenLab

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-drived 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*

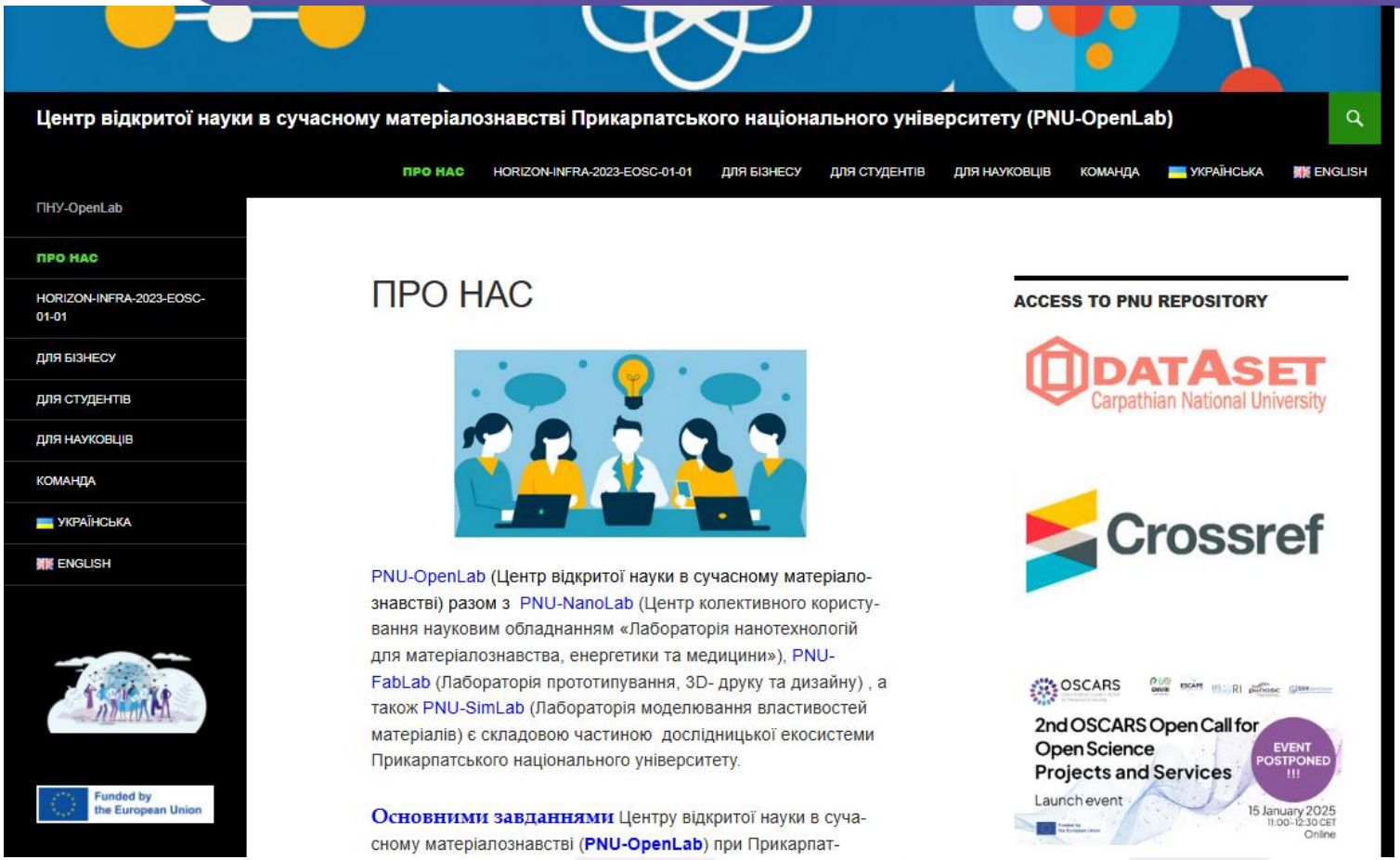
PNU-NanoLab

PNU-OpenLab



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

OSCARS: PNU-OpenLab



Open Science: Ukraine

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

PNU-OpenLab

PNU-OpenLab : expected results + next steps

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

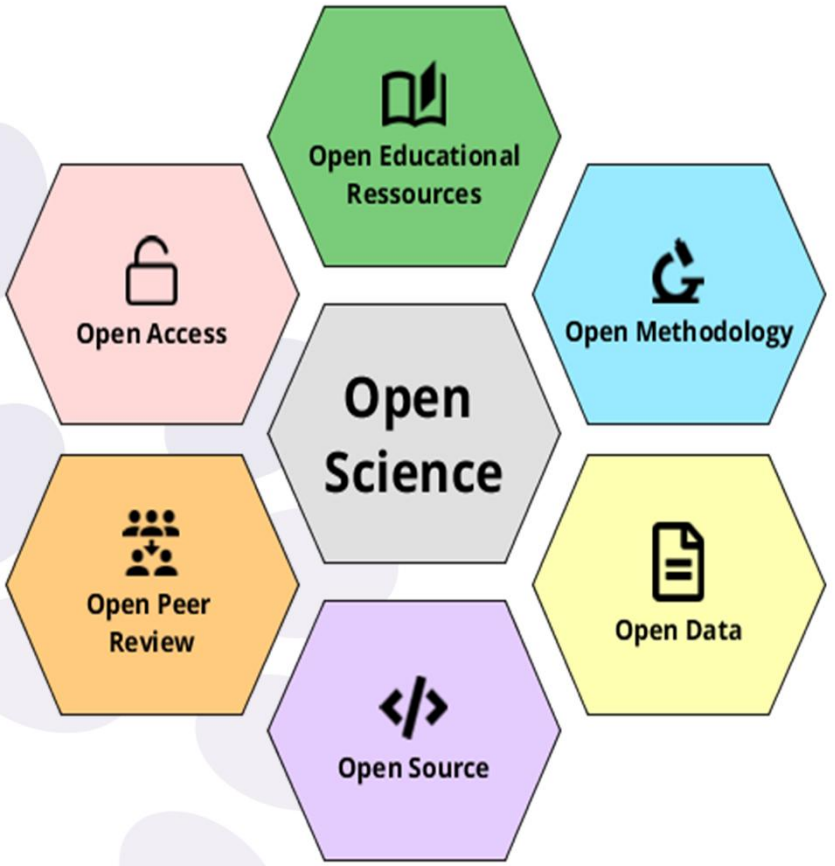
Interdisciplinary Collaboration and Project's Support

Groundwork for the creation of a CERIC Regional Node

Promoting the entry of Ukrainian scientists into the European Research Area

Open Science: Core Principles

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

Цей файл поширюється за міжнародною ліцензією Creative Commons Attribution-ShareAlike 4.0 .

Open Science: Tools

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»

Open Science: OpenLab: DataSet

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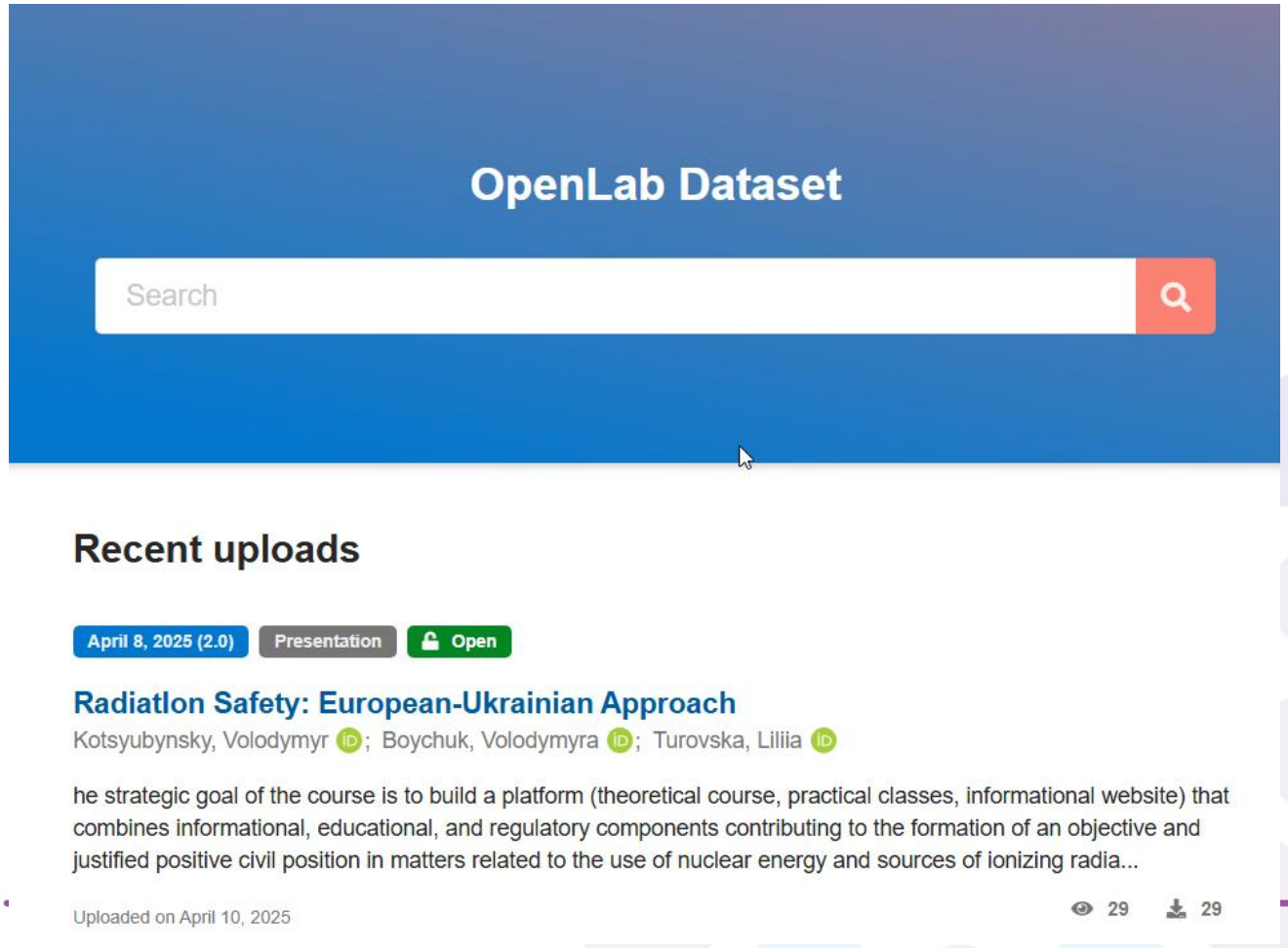
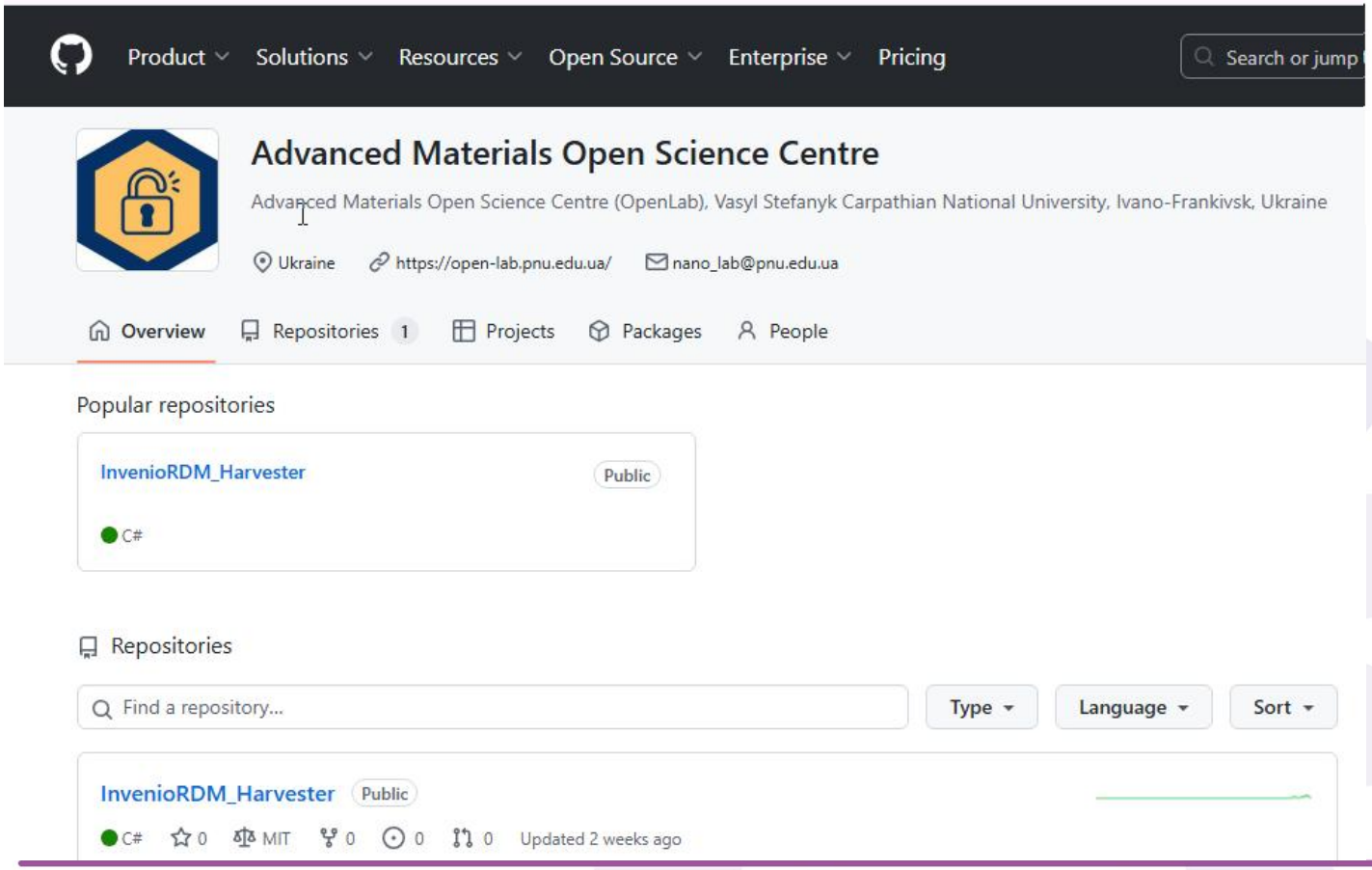


INVENIO RDM
inveniosoftware.org

Open Science: OpenLab: GitHub



GitHub

PNU-OpenLab:Milestones

OSCARS

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

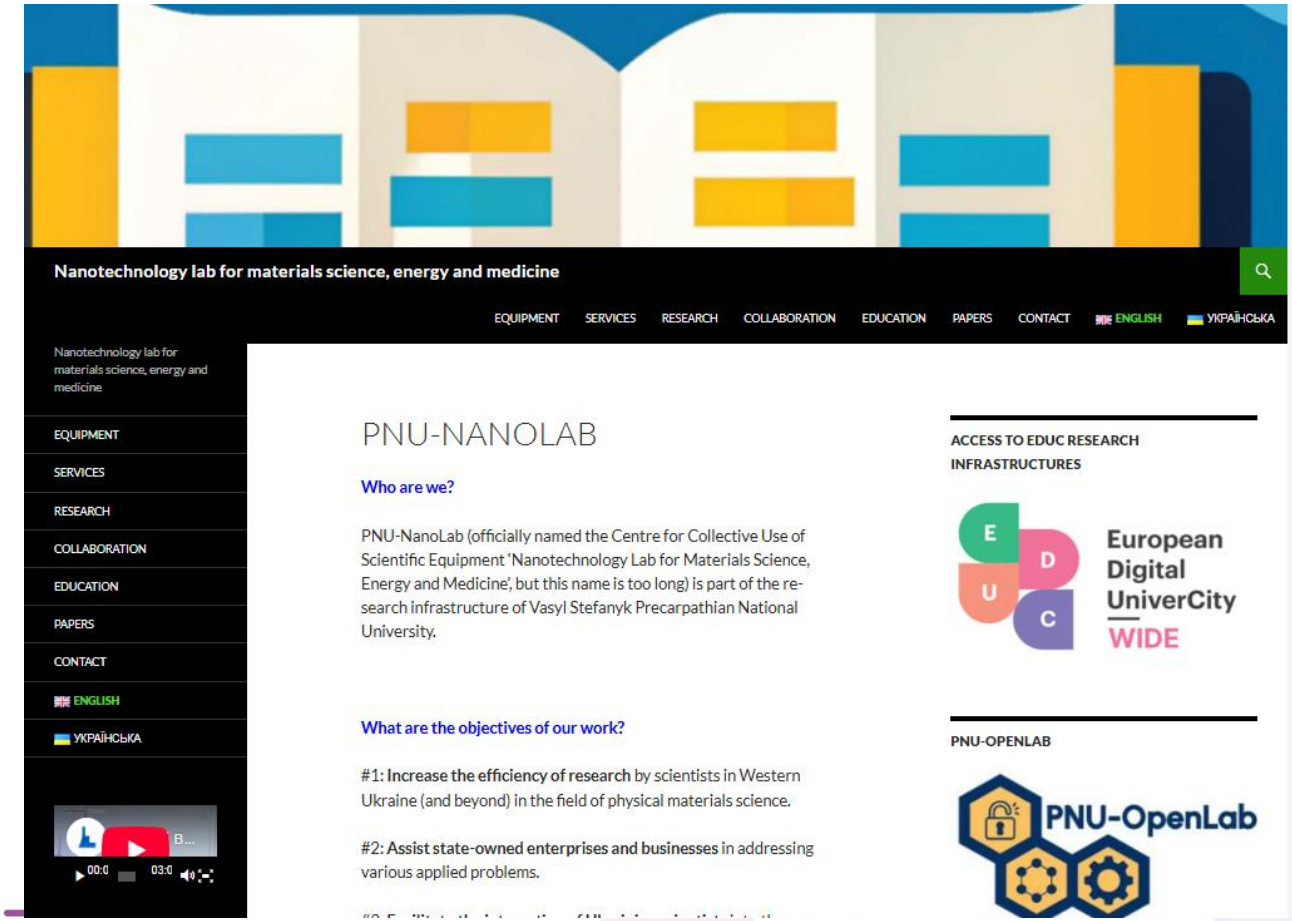
M2-M3	M4-M6	M6-M9	M10-M12	M15-M24	M12-M24	M20-M24
Foundation of PNU-OpenLab	***Creation of PNU-OpenLab Portal+ Invenio-drived Repository***	***Open access to PNU research facilities***	***Certification of PNU-NanoLab***	***Preparation for creation of CERIC Regional Node on the base of PNU-OpenLab / PNU-NanoLab***	***Dissemination of Open-Science practice among the Ukrainian scientific community***	***CoARA analysis of implementation of Open Science and FAIR principles in Ukraine***

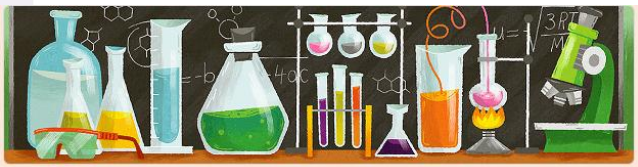
https://open-lab.pnu.edu.ua/en/

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

PNU-OpenLab

Open Science: OpenLab: NanoLab





Розділ 1 з 2

Доступ до обладнання центру PNU-NanoLab для представників закладів вищої освіти

Умовою надання доступу до обладнання Центру на безоплатній основі є виконання досліджень у рамках науково-дослідних робіт або науково-технічних (експериментальних) розробок, які фінансуються за рахунок коштів державного бюджету (включно з виконанням дисертаційних та магістерських робіт).

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.*

https://openscience.eu/

Open Science: Conclusions

- *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*

PNU-OpenLab

Thank You

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