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UNESCO's Support of Integration of Ukraine into European and International Research Area

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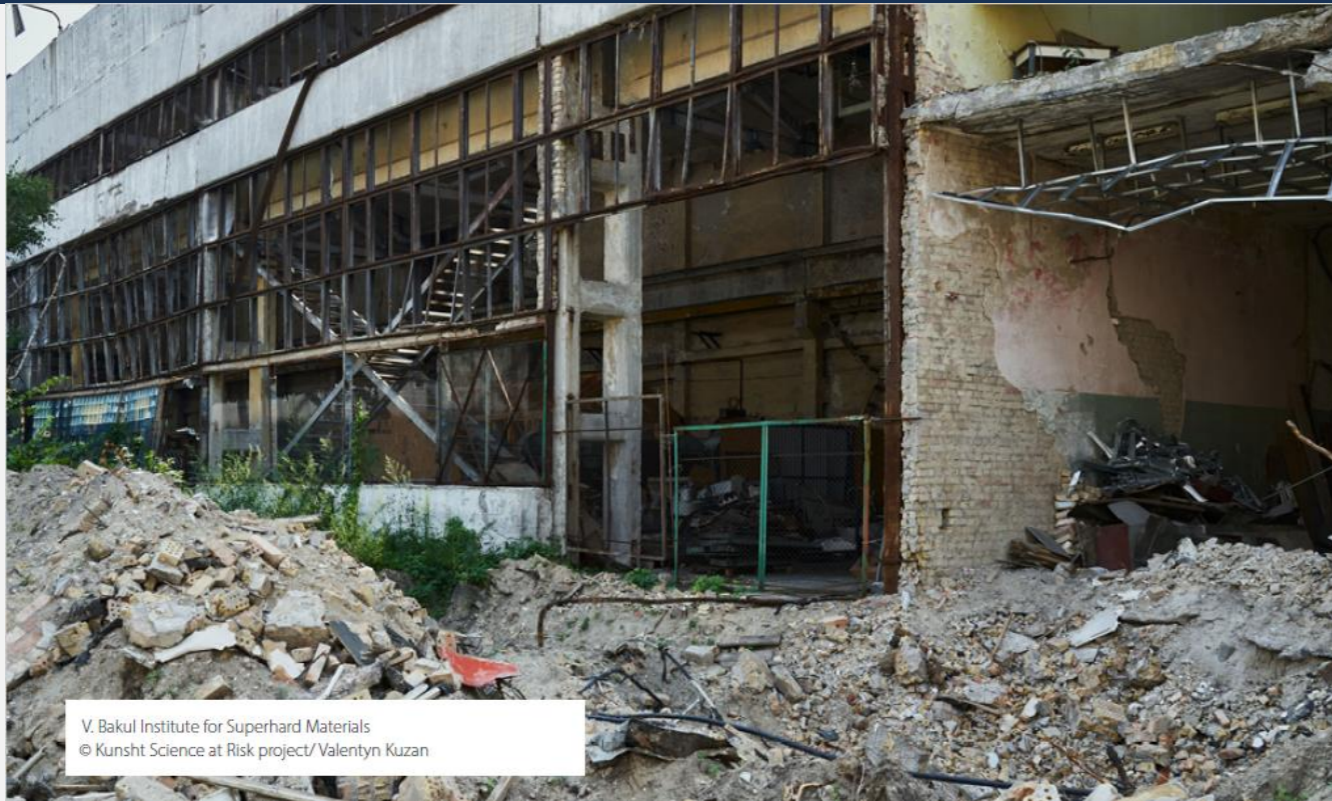
Evidence Base: UNESCO Studies on Ukrainian Science under War



Together, these studies capture both the physical damage to research infrastructure and the human impact on scientists working under war conditions

War Damage to Science: Key Findings and Figures

Massive infrastructure Damages: 30% of Ukraine's research institutions damaged or destroyed since 2022



Disruption of research: 54.3% of scientists have reported being unable to conduct research at the same level as before the war



Brain drain & displacement: 12% of Ukrainian scientists displaced, 30% working remotely since Feb. 2022



Collapse in funding: Research fundings dropped to 0.33% of GDP

UNESCO's Action Plan for Science

UNESCO's strategic response to address Ukraine's science ecosystem challenges

Emergency Relief

- Immediate support for vulnerable scientists
- Remote access to laboratory infrastructure
- Mental health and psychosocial support

Structural Reform

- Alignment with international standards
- Governance and coordination systems
- EU integration and international cooperation

Key partnerships

- Ministry of Education and Science of Ukraine
- International Coalition for Science, Research and Innovation in Ukraine
- National Academy of Sciences of Ukraine
- National Research Foundation of Ukraine
- Junior Academy of Sciences of Ukraine
- Science at Risk Platform



**BUILDING A ROBUST SCIENCE
ECOSYSTEM IN UKRAINE:
UNESCO's Action Plan for Sciences**

UNESCO's Remote Access to Lab Equipment (UNESRALE) Initiative



Scientific-Technological Complex "Institute of Single Crystals", Kharkiv
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- 6-months access to the state-of-the-art equipment in labs
- Professional trainings and workshops
- Building scientific collaboration networks
- Transfer of newly acquired knowledge back to the Ukrainian scientific community

Needs assessment survey



Mapping research infrastructure needs for Ukrainian scientists affected by the ongoing war in alignment with UNESCO's Remote Access to Lab Equipment (UNESRALE) initiative

This survey seeks input from Ukrainian scientists impacted by the ongoing war to help assess and address their specific needs regarding research infrastructure and laboratory equipment. Aligned with UNESCO's [Remote Access to Lab Equipment \(UNESRALE\) initiative](#), this initiative aims to support remote access to scientific resources and contributes to UNESCO's efforts to restore Ukraine's scientific capacity. The survey targets MSc and PhD students, postdoctoral research fellows, senior researchers and faculty members in Natural Sciences.

There are 28 questions in this survey.

PRIVACY POLICY

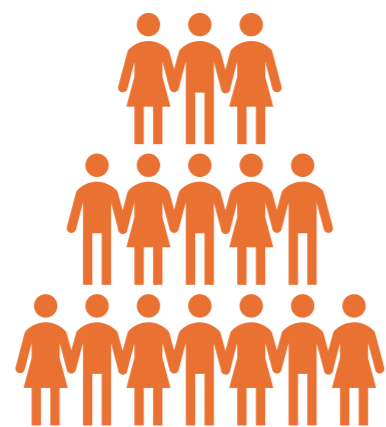
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- In 2024, UNESCO and the Junior Academy of Sciences initiated this survey.
- Survey periodically open. It seeks input from Ukrainian scientists impacted by the ongoing war to help assess and address their specific needs regarding research infrastructure.
- Primarily aligned with UNESCO's Remote Access to Lab Equipment (UNESRALE) initiative to support remote access to scientific resources.
- It can now provide a structured basis for aligning identified needs with international support frameworks.

Survey overview as of April 2026



125

responses with requests
for equipment
(out of 214)



52

institutions



69%

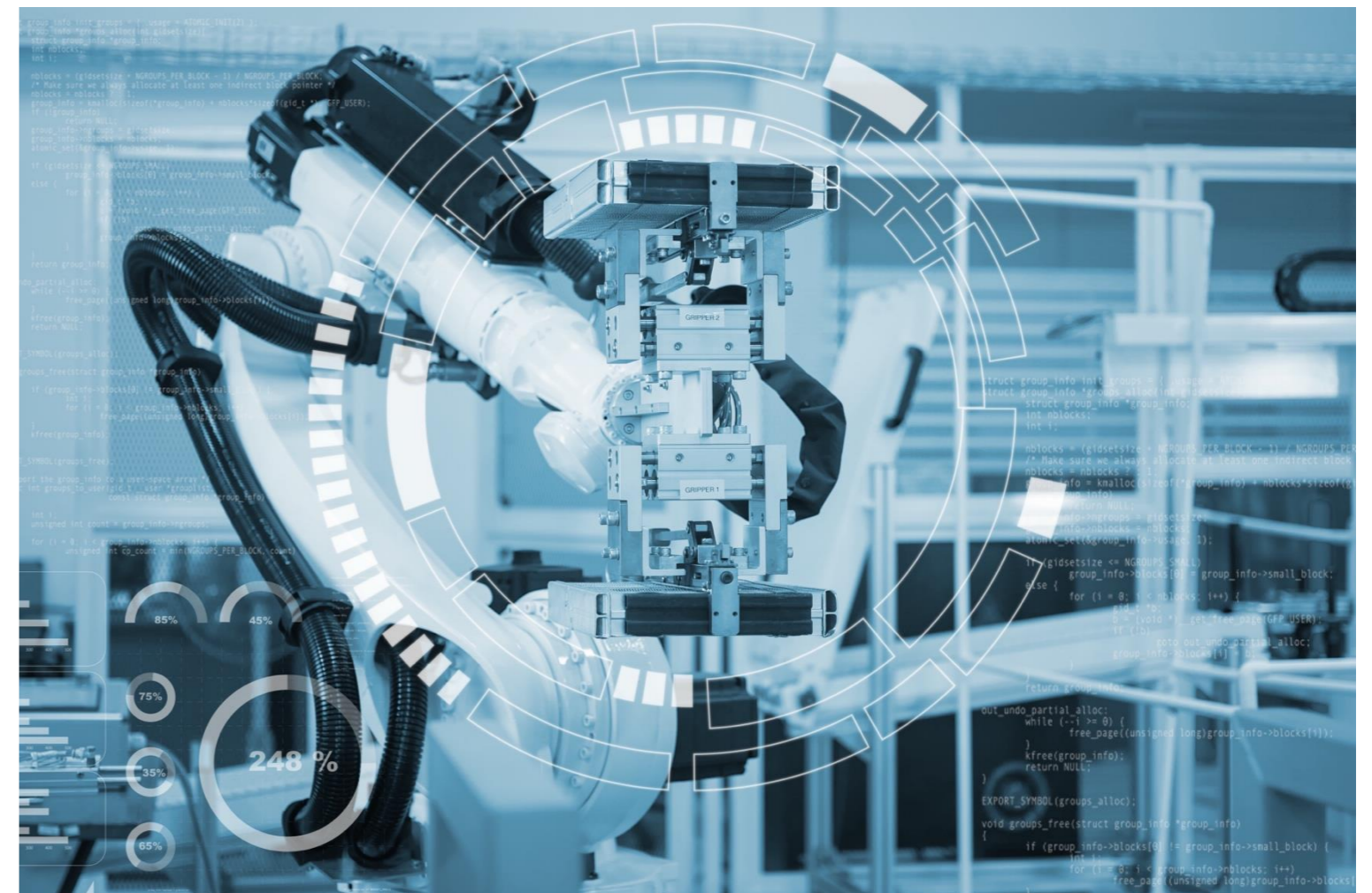
of respondents think that their
institution was affected by war

Key findings as of April 2026

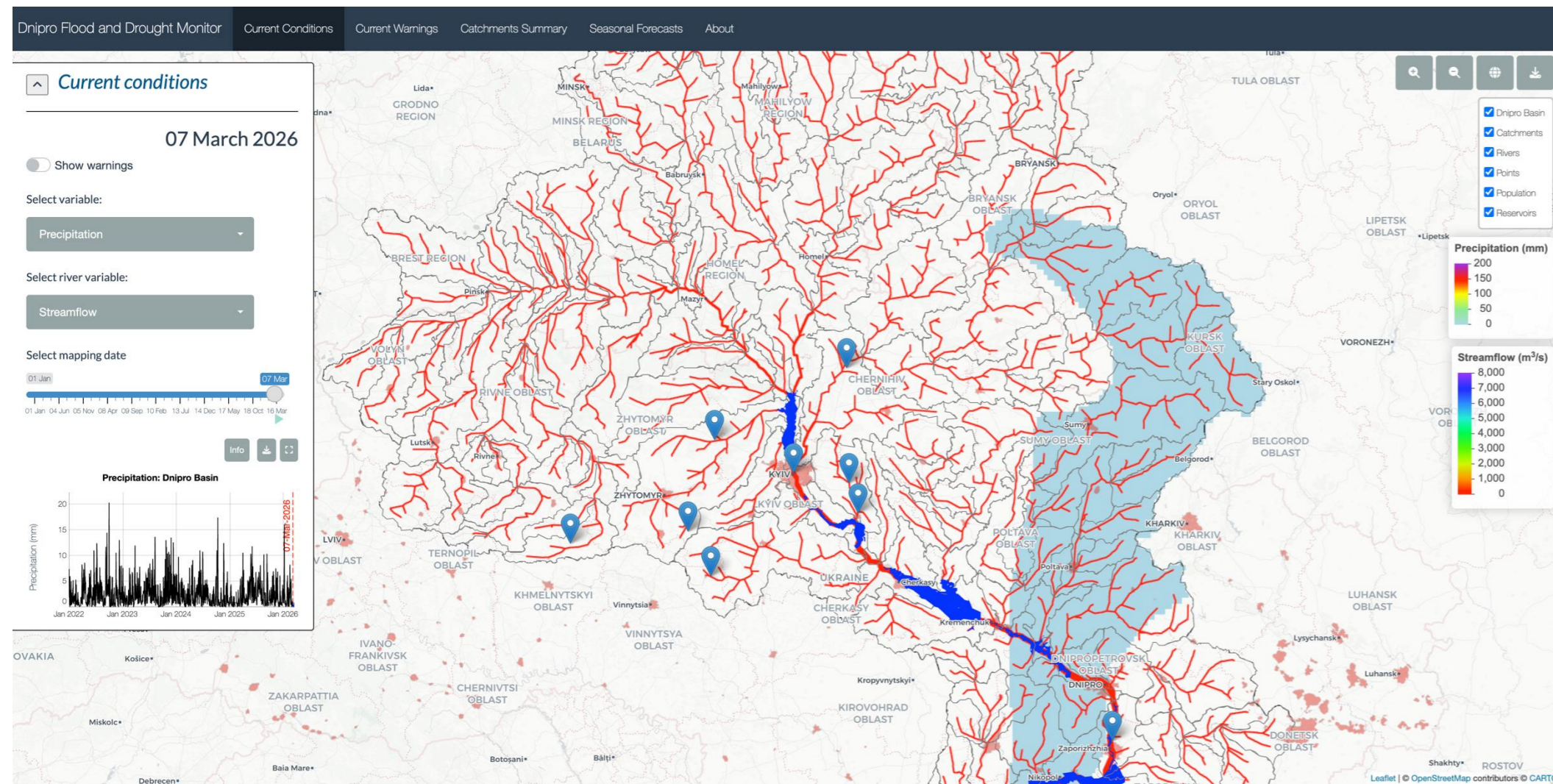
Type of lab equipment	Number of institutions in need
Software (various), access to AI platforms, cloud platforms	21
Free access to general and specific databases and repositories	18
Various spectrometers, chromatographs	14
High-performance computing and advanced computational resources	12
IT equipment (computers, printers, multimedia equipment)	11
Other equipment including polygraphs, unmanned systems, rescue radios	10
Microscopes (hi-res, electronic, confocal etc.)	9
Digital research equipment (VR headsets, machine vision cameras, photo cameras, thermal vision cameras etc., telecom equipment)	8
Geoinformational technologies, remote sensing data, access to satellites	7
Bioincubators, sterilized environments (SPV-vivarium, germinators etc.)	5
Bioimaging equipment	3
3D printers and scanners	2
Single-crystal X-ray diffractometers	2

Launched Calls in Ukraine under the UNESRALE Initiative

- **October 2025** - Université Paris Cité and the NABI Laboratory, France
- **November 2025** - The Verlab Institute, Bosnia and Herzegovina
- **February 2026** - Universiti Sains Malaysia (USM)
- **April 2026** - The Cambridge Crystallographic Data Centre (CCDC), UK
- **April 2026** - European Research Infrastructure for biobanking and biomolecular resources (BBMRI-ERIC) (Austria) and the World Health Organization's International Agency for Research on Cancer (WHO/IARC)



Project: Addressing the long-term impacts of the Kakhovka Dam destruction on water resources management options



Partners:

- Ukrainian Hydrometeorological Institute (UHMI)
- Institute for Technological Research (VITO)
- Vrije Universiteit Brussel (VUB)
- NASA
- Princeton Climate Institute of Princeton University
- etc.

Project: AI Readiness Assessment Methodology for Ukraine



- In 2021, UNESCO developed Recommendation on the Ethics of Artificial Intelligence
- Core values: Human rights and human dignity, Living in peaceful, Ensuring diversity and inclusiveness, Environment and ecosystem flourishing
- In 2025-2026 – the study on AI RAM for Ukraine
- Follow-up actions – trainings for civil servants and judiciary, workshops for broader audience

International Coalition for Science, Research and Innovation of Ukraine



- Part of the Secretariat
- Facilitation of international scientific partnerships and donor coordination
- Support for Ukraine's integration into the European and global research landscape
- Support for research infrastructure recovery and international access opportunities
- Organisation of technical and high-level stakeholder dialogue



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THANK YOU

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