

MINISTRY
OF EDUCATION AND
SCIENCE OF UKRAINE

The state of research infrastructure of **Ukraine** during the **war**

Zoya Petrenko

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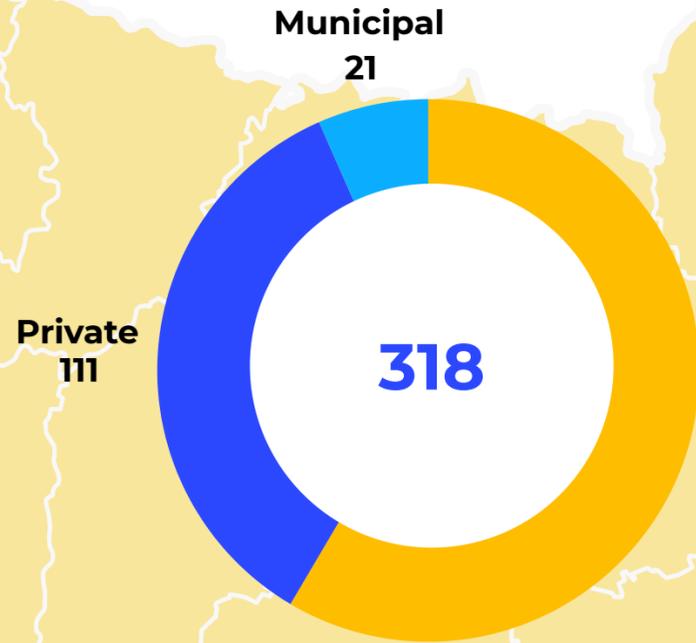
**October 1, 2024,
9:00-13:00 CET,
Teams**



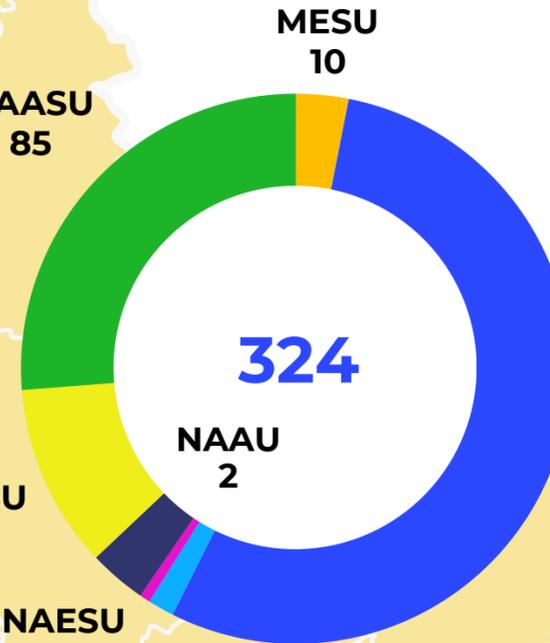
The Ukrainian R&I landscape

21 organizations govern RIs:

central executive bodies (incl., MESU), NASU, and sector-specific Academies of Sciences of Ukraine. They are responsible for **budget allocations** (state budget's Key Spending Units) and **management**.



Higher education institutions



Research institutions

Elements of RI (RIs):

> Centres for Collective Use of Scientific Equipment (CCUSE)

21 CCUSE are **formally** established in the HEIs, of which 20 are **operational**

52 CCUSE are established in the research institutions under the NASU and funded by NASU

> Special (Unique) Objects, including scientific objects that constitute the national heritage 147

> National Research Centres 14

> State Key Laboratories 0

> E-infrastructures:

- the National Digital Infrastructure for Distributed Computing Ukrainian National Grid (UNG)
- the National Repository Academic Text (NRAT)
- the Ukrainian Scientific and Educational Telecommunication Network (URAN)
- the Ukrainian Academic and Research Network (UARNET)
- the National Electronic Science and Information System (URIS)

- MESU - the Ministry of Education and Science
- NASU - the National Academy of Sciences
- NALSU - the National Academy of Law Sciences
- NAAU - the National Academy of Arts
- NAESU - the National Academy of Educational Sciences
- NAMSU - the National Academy of Medical Sciences
- NAASU - the National Academy of Agrarian Sciences



Damaged real estate of Ukrainian scientific and educational institutions

The war has **damaged**



180 institutions



1458 buildings



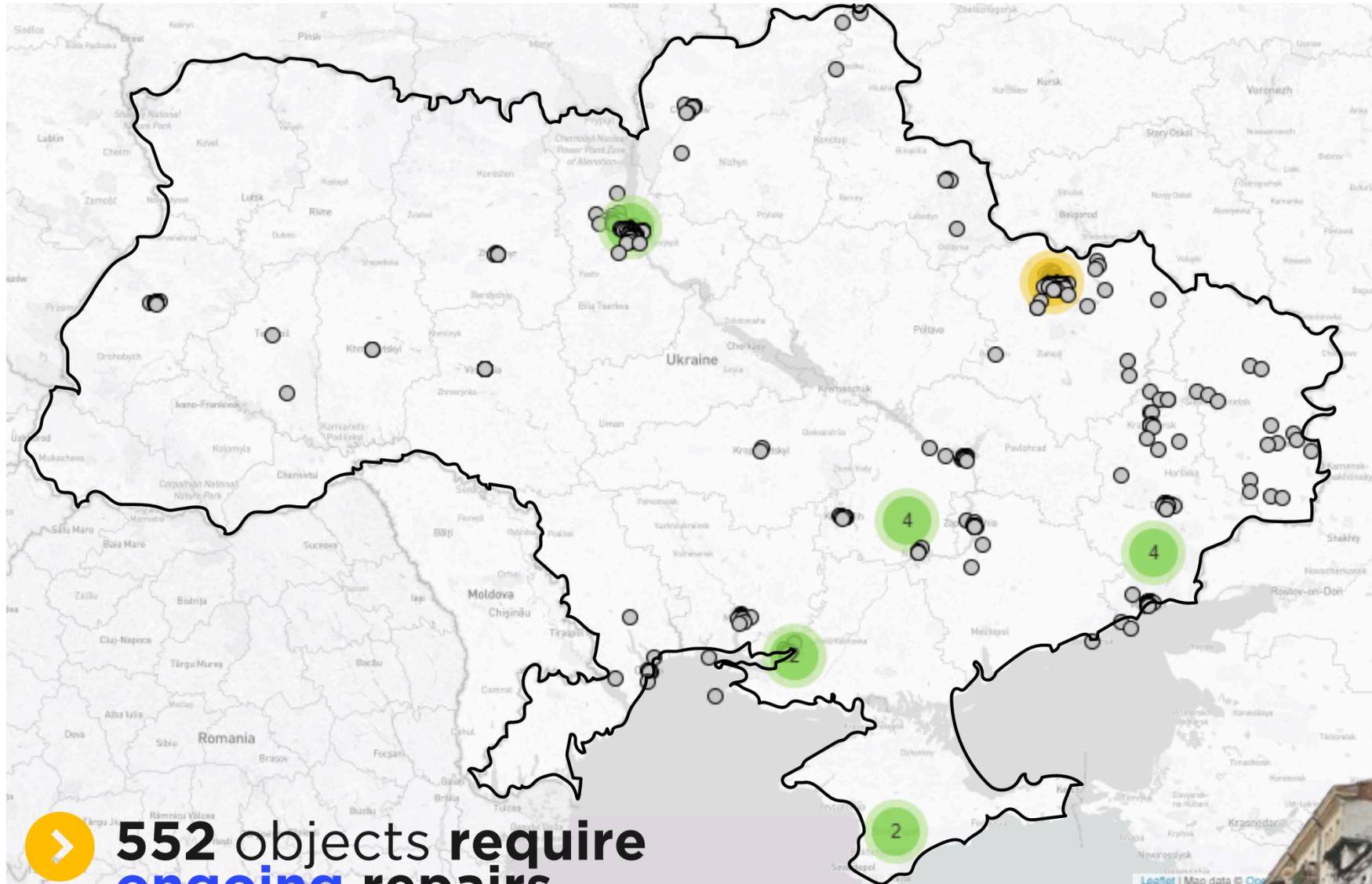
188 engineering structures

Preliminary assessment of affected objects

➤ Residual value **\$787,8 million**

➤ Market value **\$729,3 million**

➤ Estimated **restoration** costs **\$1 214,8 million**



➤ **552** objects require **ongoing** repairs

➤ **621** objects require **major** repairs

➤ **44** objects require **renovation**

➤ **123** objects need **of construction**



V. N. Karazin Kharkiv National University



Damaged scientific equipment of Ukrainian scientific and educational institutions

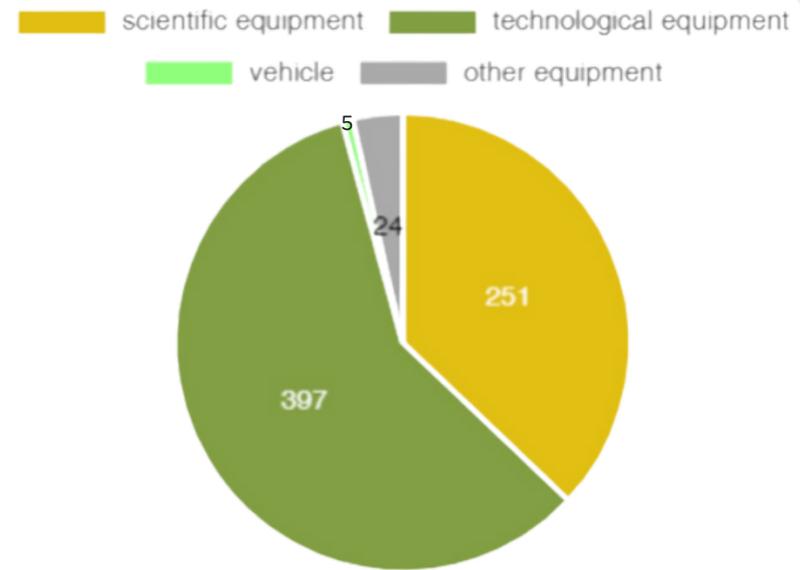
Number of **damaged** assets

- > 251 **scientific** equipment
- > 397 **technological** equipment
- > 5 **vehicle**
- > 24 **other** equipment

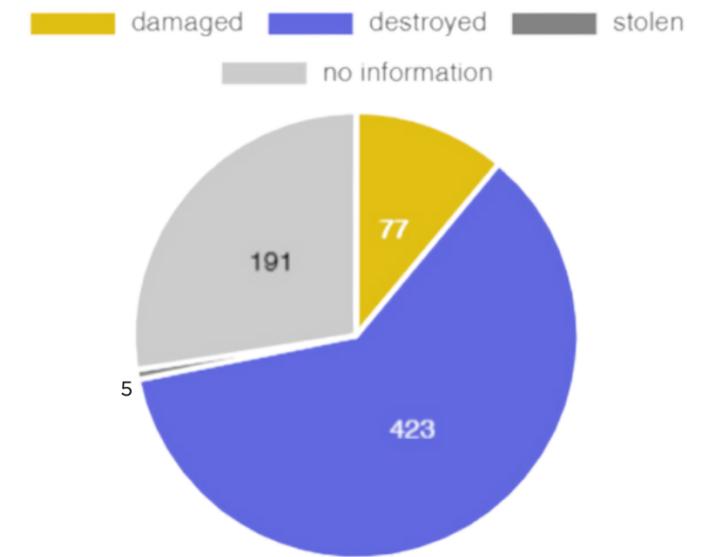
Pre-estimate of damages

- > Residual value **\$14,4 million**
- > Market value **\$26,6 million**
- > Estimated **restoration** costs **\$45,9 million**

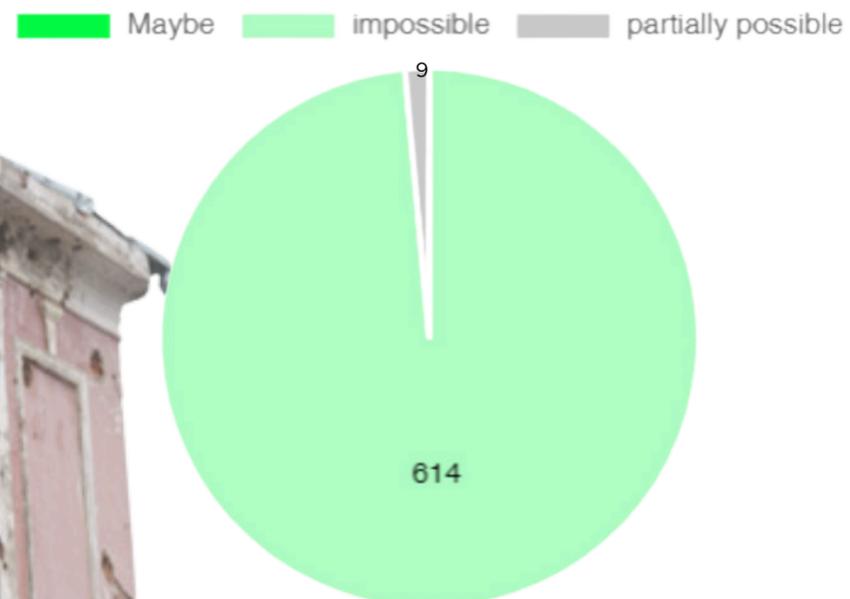
Purpose of damaged property



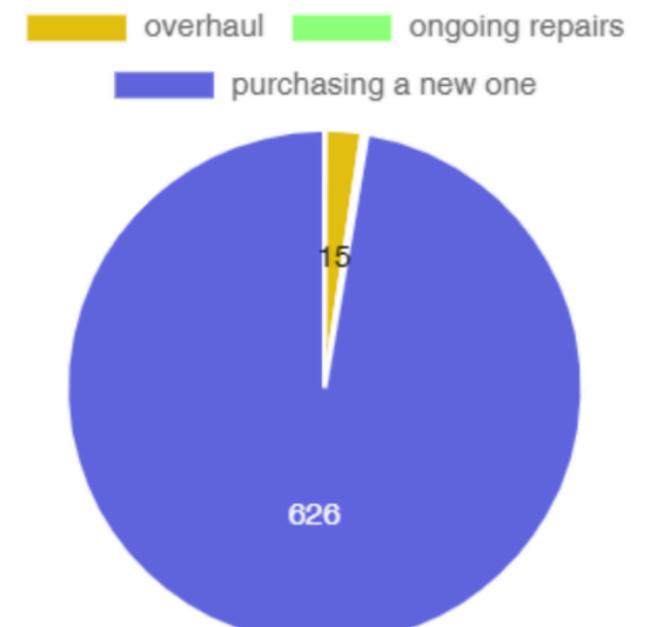
Result of criminal action



Possibility of use



Possibility of renovation





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Thank you for your attention

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