

EXCITE: The European Electron and X-ray Imaging Infrastructure

Laurenz Schröer – 18/06/2024



EXCITE NETWORK

The EXCITE network offers free-of-charge access to 36 leading-edge imaging facilities worldwide



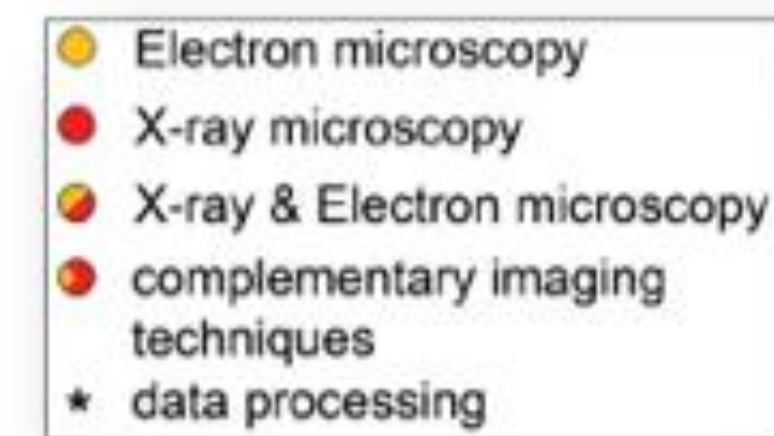
EXCITE² (April 2024– March 2028)

19 Institutions

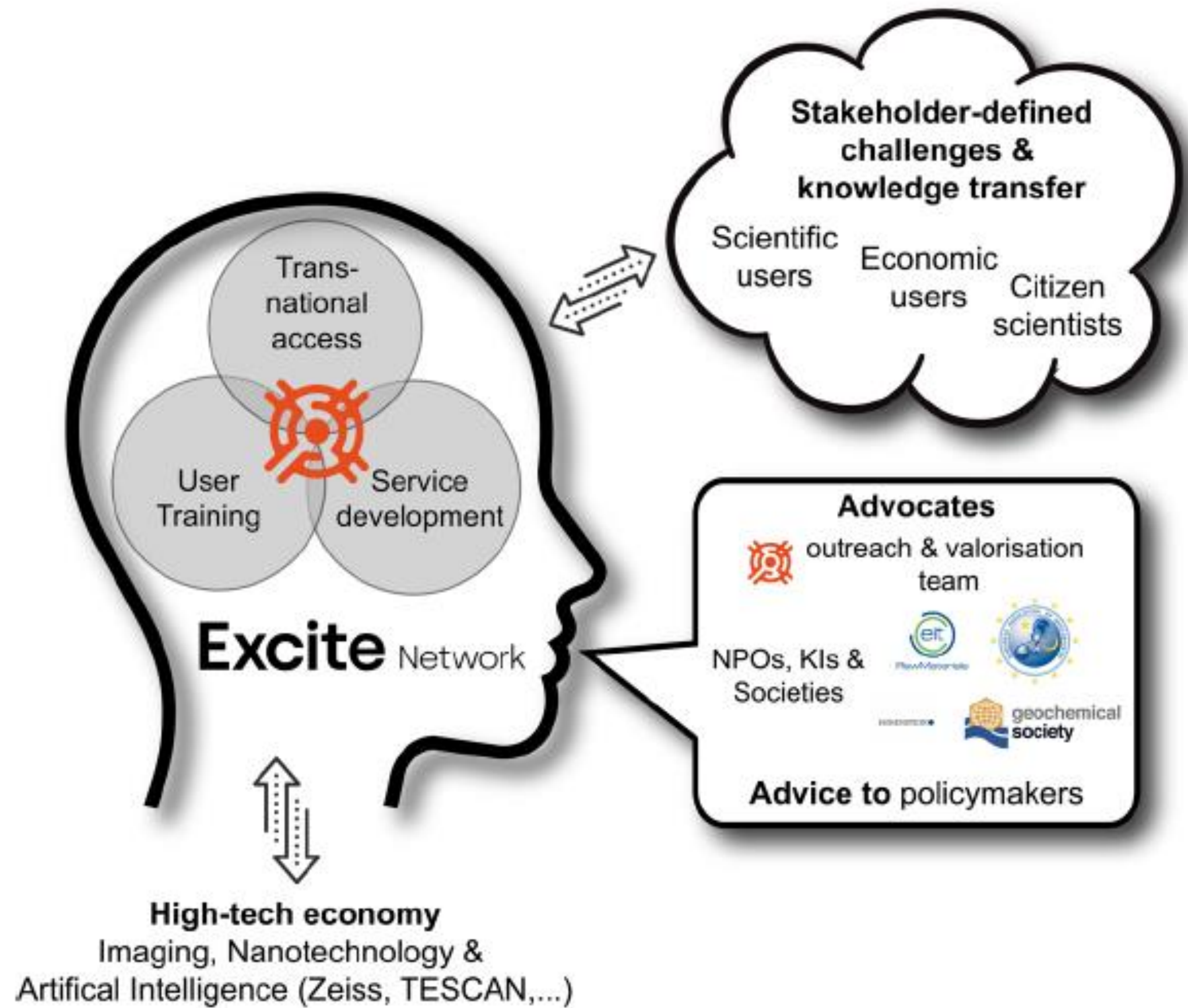
12 countries

Facilities:

- Electron microscopy
- X-ray Microscopy
- Advanced spectroscopy and spectrometry
- Atomic force microscopy
- NanoSIMS
- Centers for data processing



EXCITE² aims connecting communities for a sustainable future and is focused on EU priorities incl. critical metals



Application procedure: Next call November 2024

EXCITE² TRANSNATIONAL ACCESS (TNA) 1st CALL PROCESS

<free-of-charge access to 21 world-class imaging facilities for Earth and environmental material research>



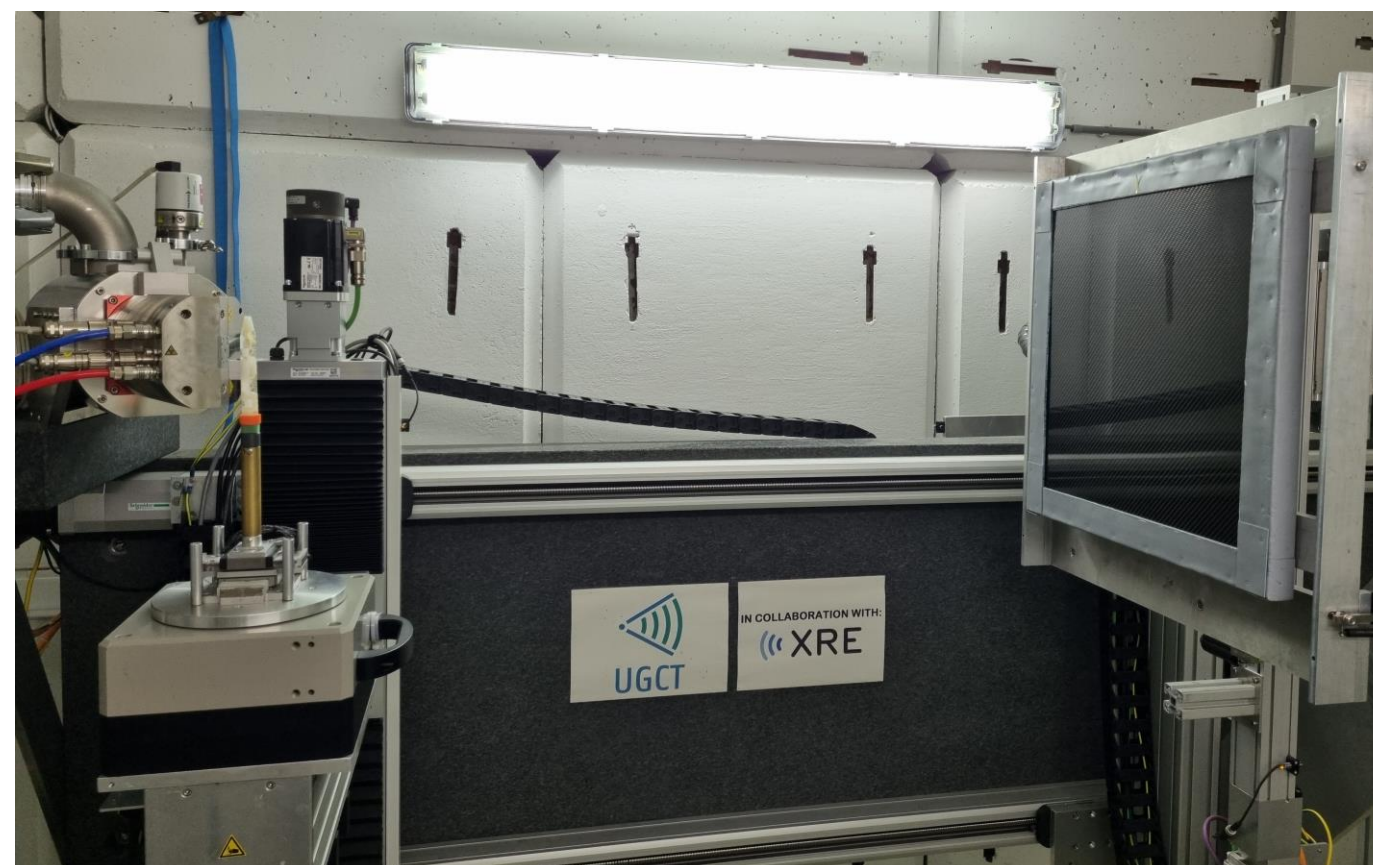
- EXCITE covers everything (instrument time, travel, accommodation)
- Everyone can apply
- Exemption to make the data publicly available for Small and Medium-sized Enterprises (SMEs)

EXCITE² at UGCT: 350 days of access for data acquisition and 258 days for data processing spread over 4 years

Access includes:

- Scanners:
 - HECTOR: μ CT (high energies)
 - CoreTOM: μ CT
 - Nanowood: nano-CT
 - Medusa: nano-CT
 - Herakles: μ CT (nano-CT) + μ XRF
 - EMCT: dynamic imaging
- Add-on modules:
 - Freeze-thaw plate (+ climatic chambers)
 - Fluid-flow equipment, including pumps and tubing
- Data analyses
 - Avizo
 - Dragonfly
 - VG Studio

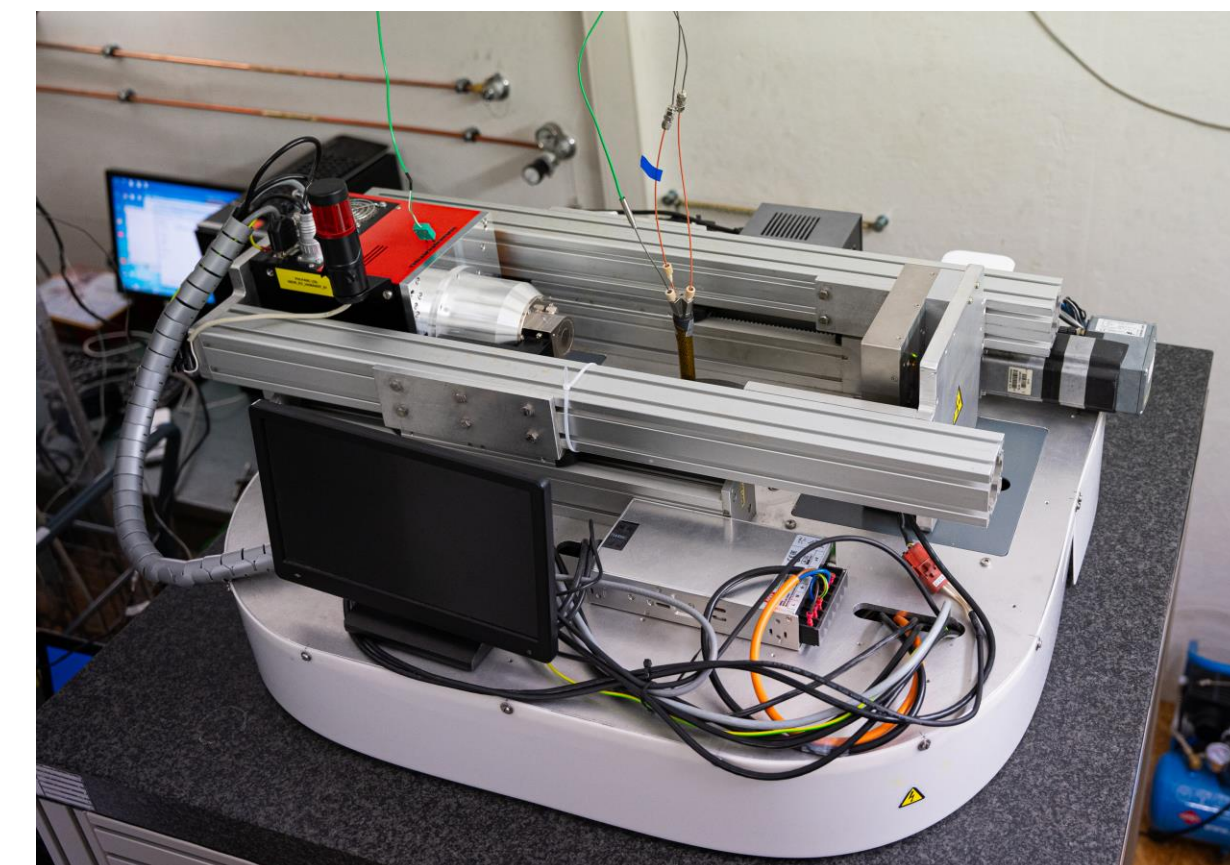
HECTOR



Medusa



EMCT



Thank you for your attention!

Laurenz Schröer
Postdoctoral researcher and Facility manager for EXCITE

DEPARTMENT OF GEOLOGY - PPROGRESS

E Laurenz.Schroer@UGent.be
T +32 9 264 46 33

www.ugent.be/we/ugct/en
www.excite-network.eu



@GeologieUGent



@ProgressU



UGCT

