EXCITE: The European Electron and X-ray Imaging Infrastructure

Laurenz Schröer – 18/06/2024







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



EXCITE² (April 2024– March 2028)

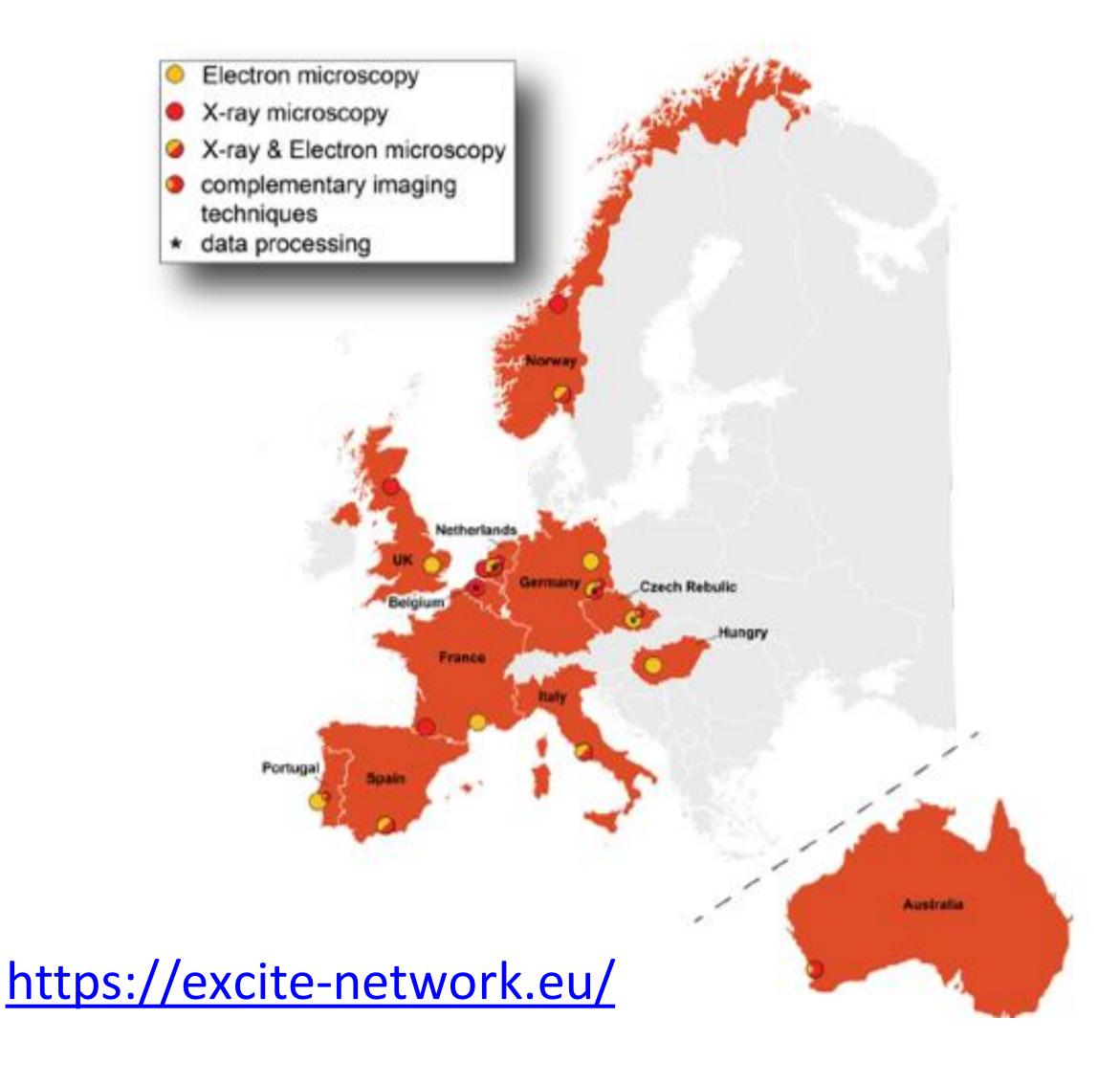
19 Institutions

12 countries

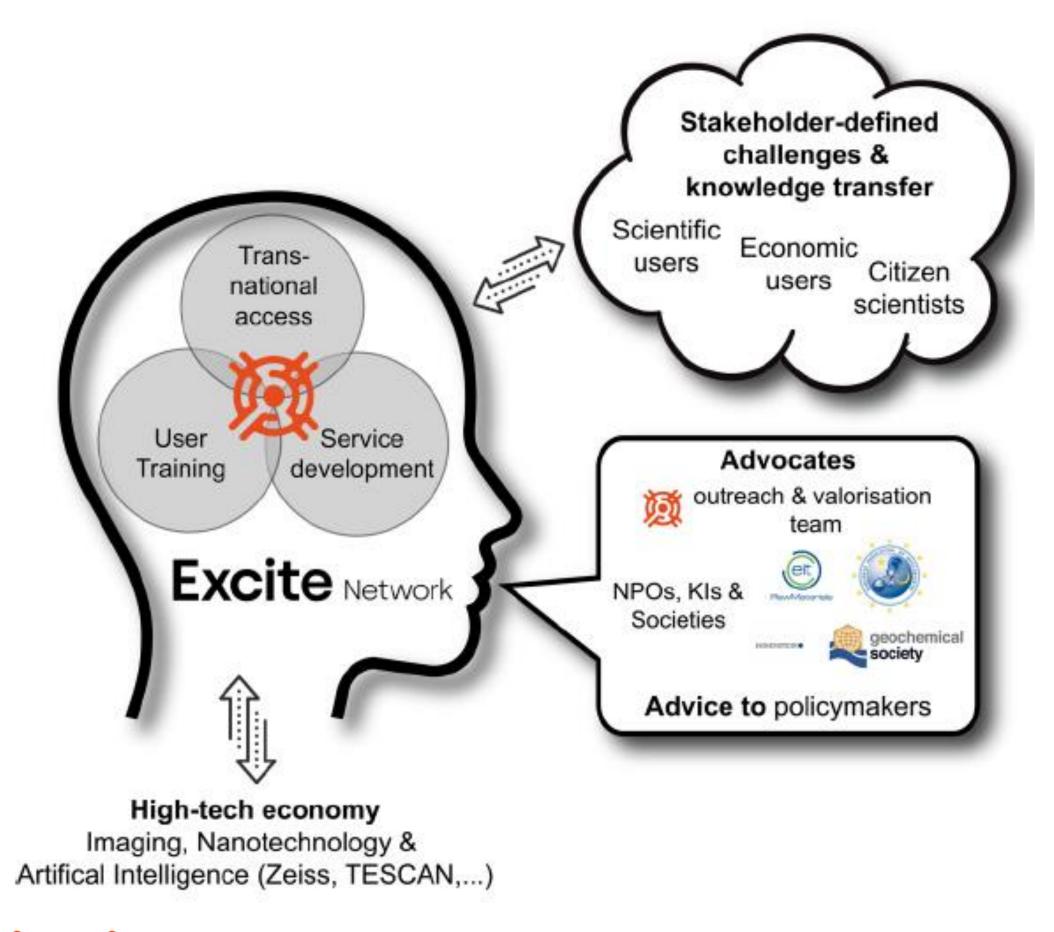
Facilities:

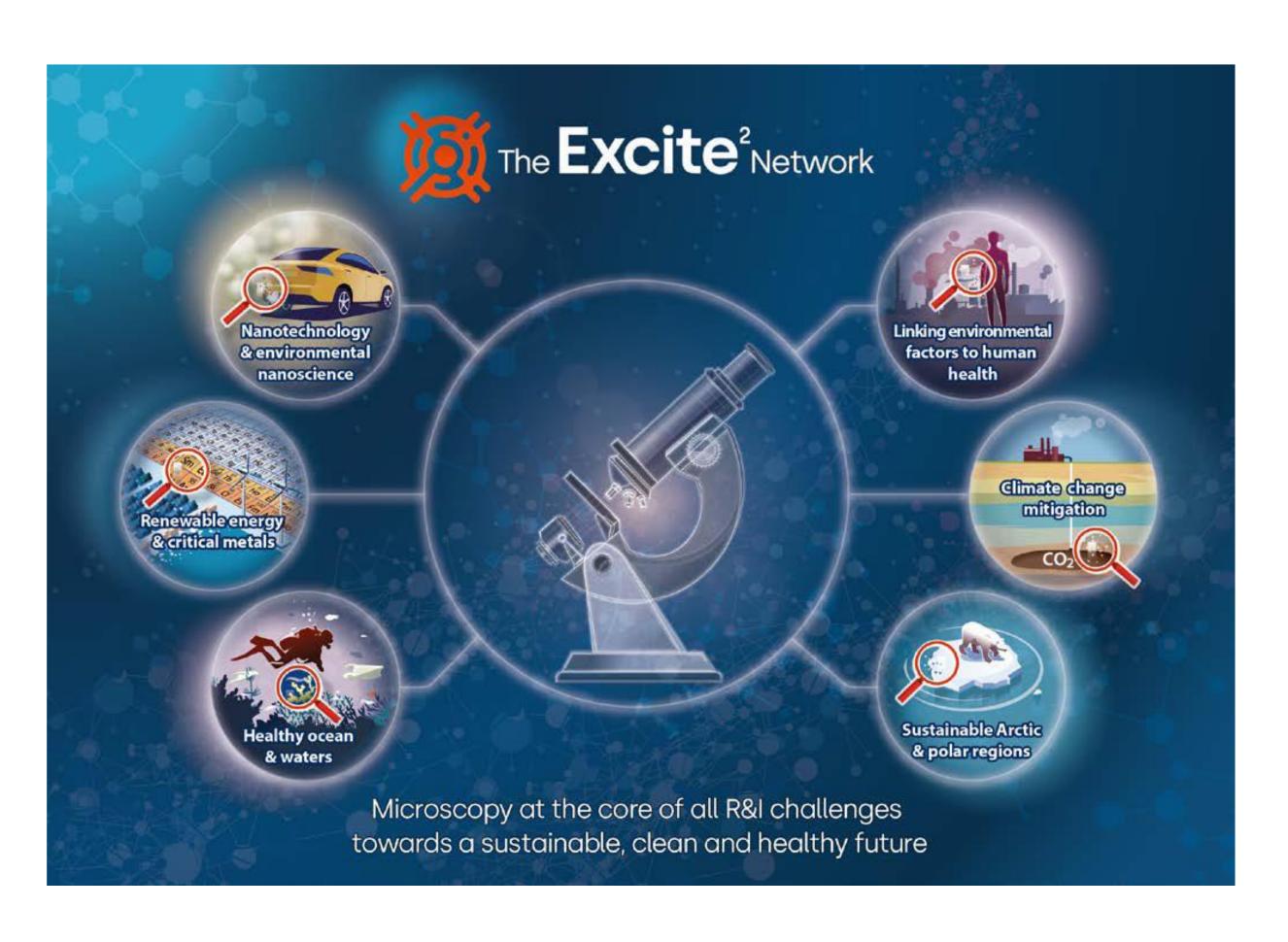
- Electron microscopy
- X-ray Microscopy
- Advanced spectroscopy and spectrometry
- Atomic force microscopy
- NanoSIMS
- Centers for data processing





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>

Deadlines 8th April Call opens First contact 3rd May with facility Users are required to contact the Proposal 22nd May facility when drafting their proposal. submission Feasibility 7th June check Scientific 21st June review Scientific excellence is assessed by independent reviewers against: suitability of the methodology, innovativeness and timeliness of the Start of 1st July research. access scientific significance of the expected period outcomes, proposal structure and writing style End of access 31st December User responsibilities 6 period

Eligibility criteria

Users from EU and non-EU institutes are eligible if they:

- work in a country other than the applied-to facility,
- can disseminate their results in compliance with the TNA data policy.
- 3 Feasibility

Feasibility is assessed on the following criteria:

- rationale for the requested methodology, equipment, sample quantity, and access units,
- compliance to facility specifications of sample material, size, geometry, and preparation.
- 5 Access

When selected, the access period is stipulated by the facility. Access is granted under one of the following access modes:

- physical access (hands-on), which requires a user to visit the facility(s), or
- remote service (send-in-sample), where samples are sent for analysis and the user does not visit the facility.

When access is completed, users must:

- acknowledge EXCITE2 in any forthcoming publications,
- ensure resulting data are published openly in a repository,
- ensure that publications are made available open access.
- EXCITE covers everything (instrument time, travel, accommodation)
- Everyone can apply
- Exemption to make the data publicly available for Small and Medium-sized Enterprises (SMEs)

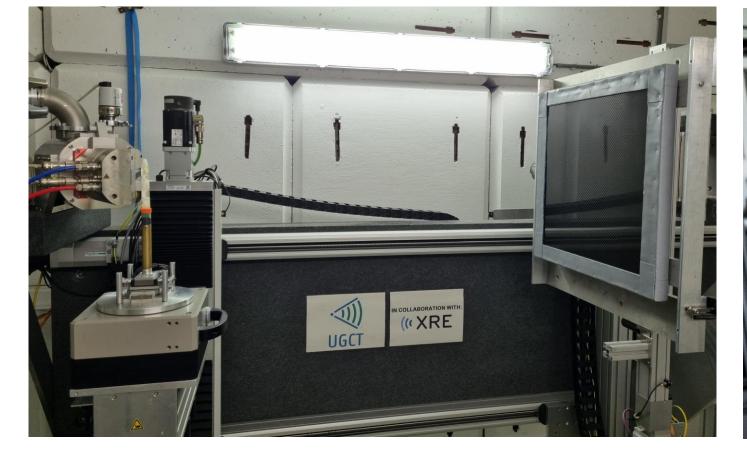
EXCITE² at UGCT: 350 days of access for data acquisition and 258 days for data processing spread over 4 years

Access includes:

- Scanners:
 - HECTOR: μCT (high energies)
 - CoreTOM: μCT
 - Nanowood: nano-CT
 - Medusa: nano-CT
 - Herakles: μCT (nano-CT) + μXRF
 - EMCT: dynamic imaging

- Add-on modules:
 - Freeze-thaw plate (+ climatic chambers)
 - Fluid-flow equipment, including pumps and tubing
- Data analyses
 - Avizo
 - Dragonfly
 - VG Studio

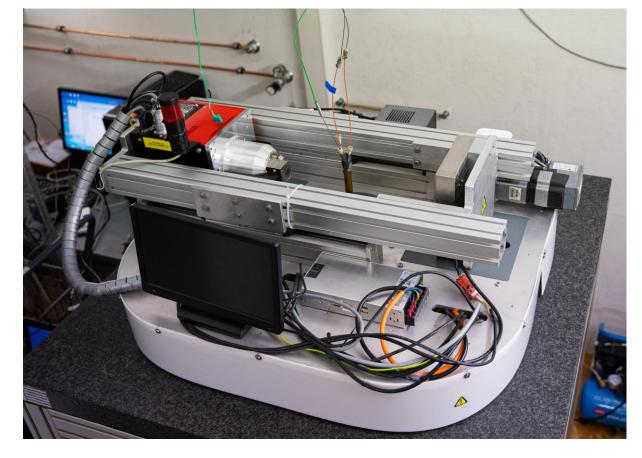
HECTOR



Medusa



EMCT





Thank you for your attention!

Laurenz Schröer Postdoctoral researcher and Facility manager for EXCITE

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