

Need research equipment?

Research infrastructure EPOS-NL provides free-of-charge access to Earth scientific laboratory facilities in the Netherlands. This includes technical and scientific support.

1 Experimental rock deformation and transport

At the Earth Simulation Lab at Utrecht University (HPT lab) or the Petrophysics Lab at Delft University of Technology

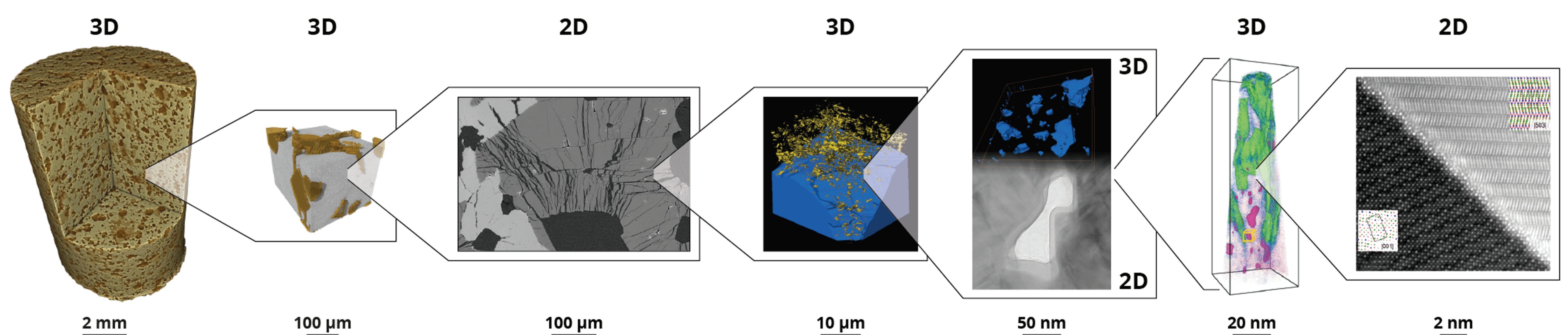
- Lab experiments at crustal stresses and temperatures
- Quantify frictional or triaxial strength
- Explore time-dependent deformation
- Is deformation localized or uniform?
- Analyse permeability evolution during deformation
- Benchmark your model with data from natural samples



2 Multi-scale Imaging and Tomography (MINT)

Distributed facility at Utrecht University and Delft University of Technology

- Multi-scale workflow of scanning- and transmission electron microscopy (SEM and TEM) and X-ray tomography
- Defect structure probing (with CL) and focussed ion beam (FIB)-SEM tomography
- Crystallographic mapping (with EBSD) and automated mineral mapping (EDS)



3 Analogue modelling of geological processes

At the Earth Simulation Lab at Utrecht University (TecLab)

- Scaled-down models of the crust or lithosphere
- Monitor model evolution during deformation in 2D and 3D
- Explore the processes underlying large-scale deformation
- Where and why does deformation localize, to form faults?
- Study sedimentary basin formation
- Or mountain build-up during subduction



Apply to our next call

- Share your research idea on 2 pages
- Submit in one of two calls each year (Feb and Aug).

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