EPOS-NL
EUROPEANPLATEOBSERVINGSYSTEM
EPOS-Netherlands

Universiteit Utrecht

TU Delft

Koninklijk Nederlands Meteorologisch Instituut
Ministerie van Infrastructuur en Waterstaat

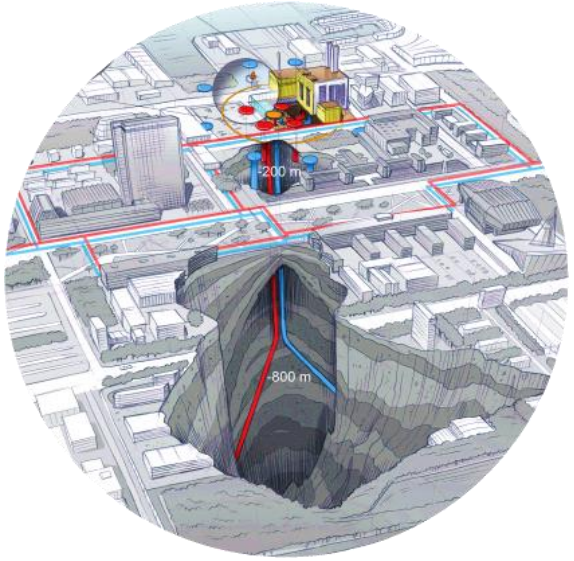
NWO

Welcome to the annual meeting!

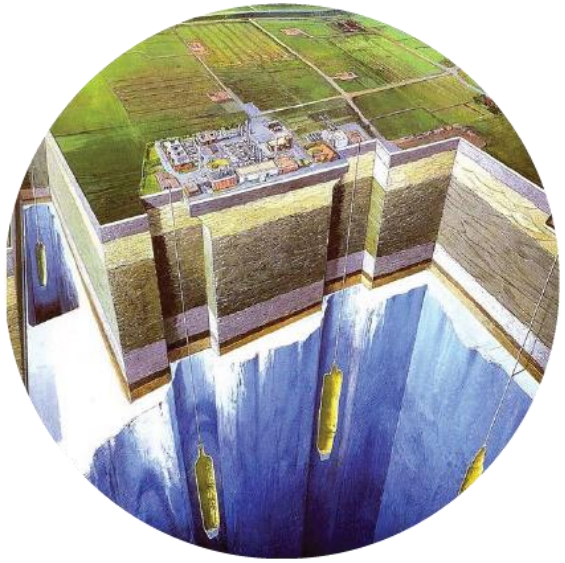
What is EPOS-NL?

- National program to further **develop facilities & share facilities and data** for research into:
  - Geo-resources
  - Geo-hazards
- Active 2019 - 2029

Geothermal



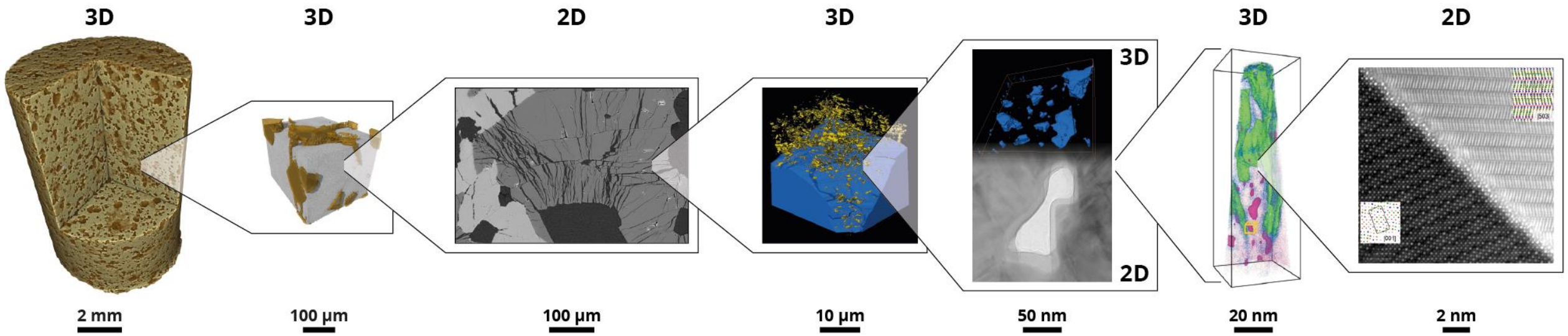
Storing CO_2, H, N



Earthquakes

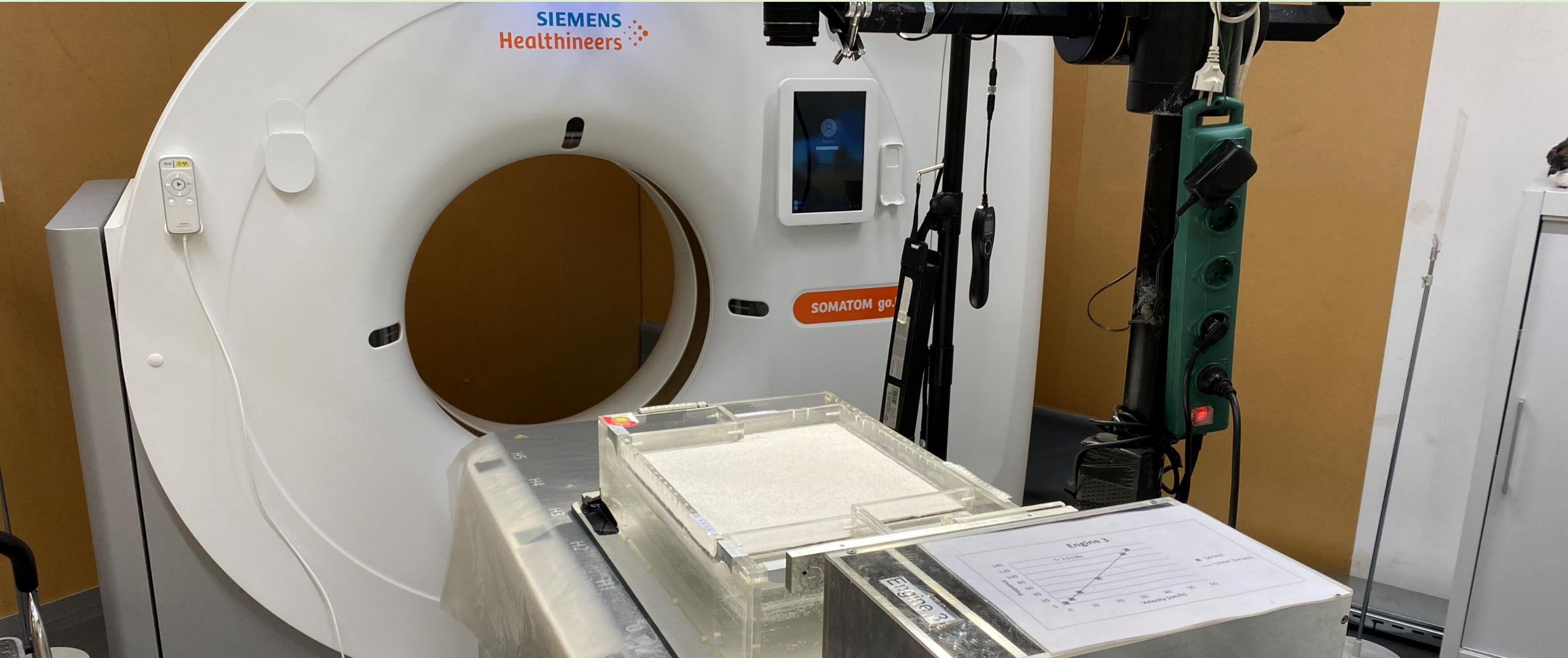
Facility development:

Multi-scale imaging workflow



Facility development:

3D imaging of active tectonic models



Facility development:

Seismic network geothermal well Delft

Later today:

More about "DAPwell" developments & research

A new proposal:

EPOS-eNLarge

EUROPEAN PLATE OBSERVING SYSTEM EPOS-Netherlands

nm mm dm m hm

hm km global

Dynamic imaging

MINT: Multi-scale Imaging and Tomography facility

ESL: Earth Simulation Lab

€ 2.0m

Large scale experiments

RCSG: Rijswijk Centre for Sustainable Geo-energy

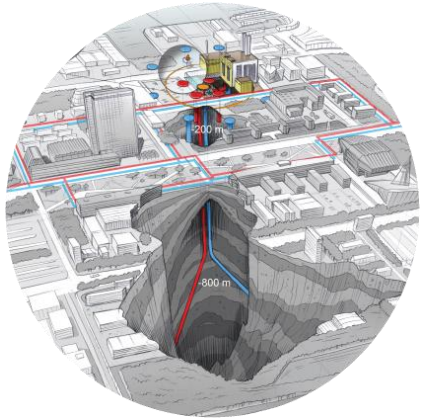
€ 1.0m

Field scale processes

DSUEL: Delft Subsurface Urban Energy Lab

ORFEUS: Fibre optics

€ 8.8m



Data and lab access

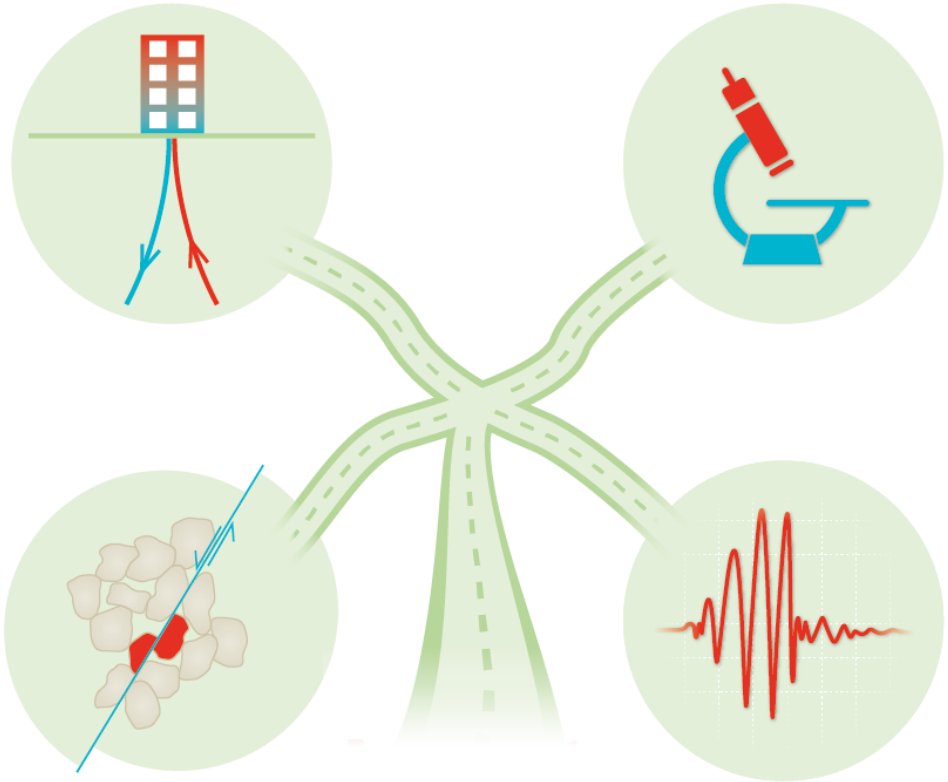
EPOS: European Plate Observing System

€ 5.8m

EPOS-NL

EUROPEANPLATEOBSERVINGSYSTEM EPOS-Netherlands

central access



Facilities

Data

Facility Access

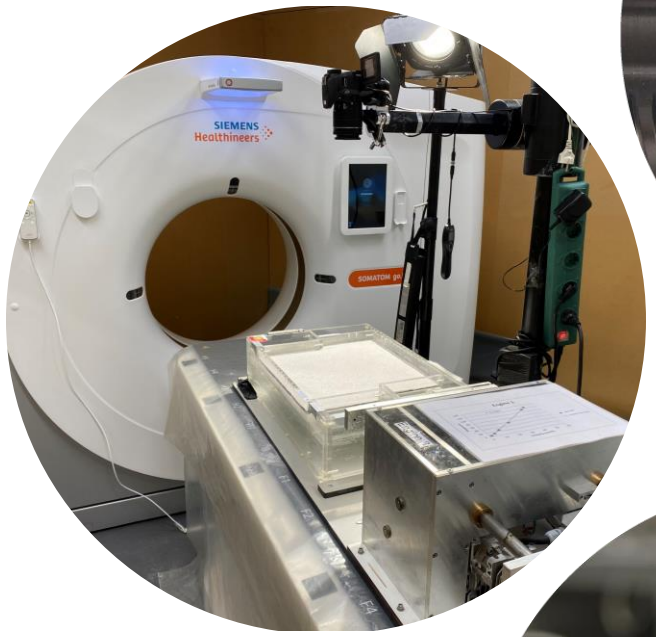
For you!

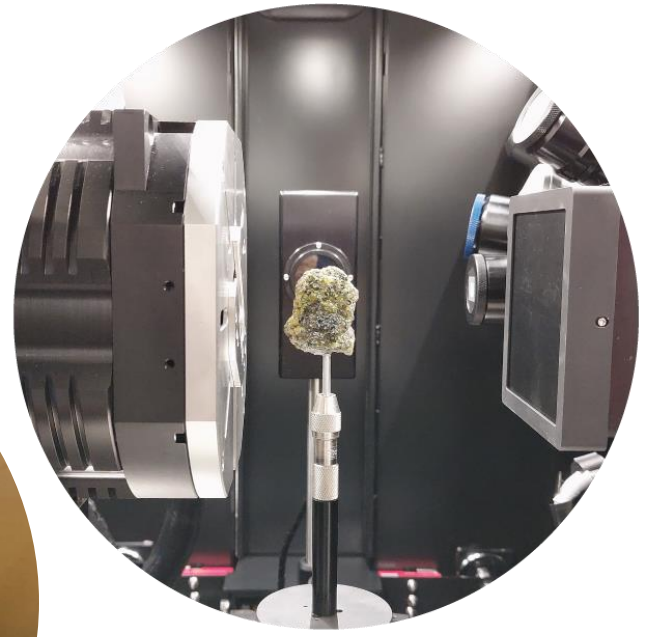
Free of charge access to research labs at TU Delft and Utrecht University

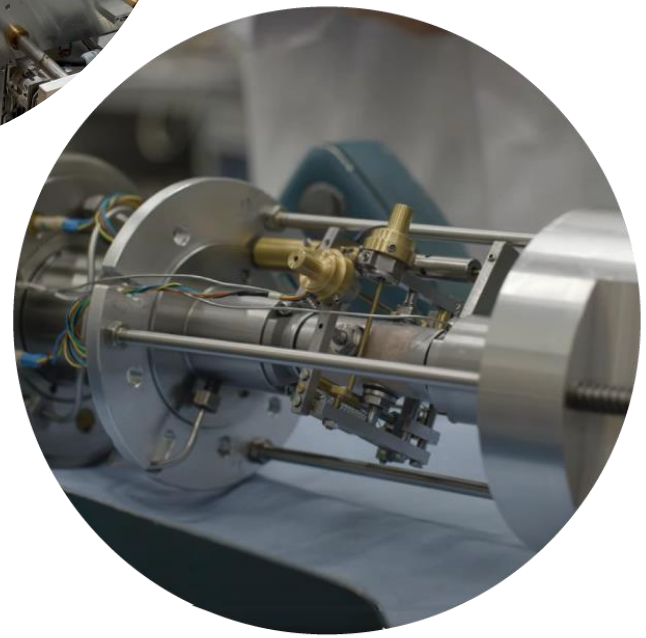
- Tectonic modelling lab
- High Pressure and Temperature lab
- Delft Petrophysics Lab
- Multi-scale Imaging and Tomography

Later today:

Access experiences & how you can get access







Central data access

Publish data

Central data access

Search for data?

Central data access

All European solid Earth science data in one portal

EPOS

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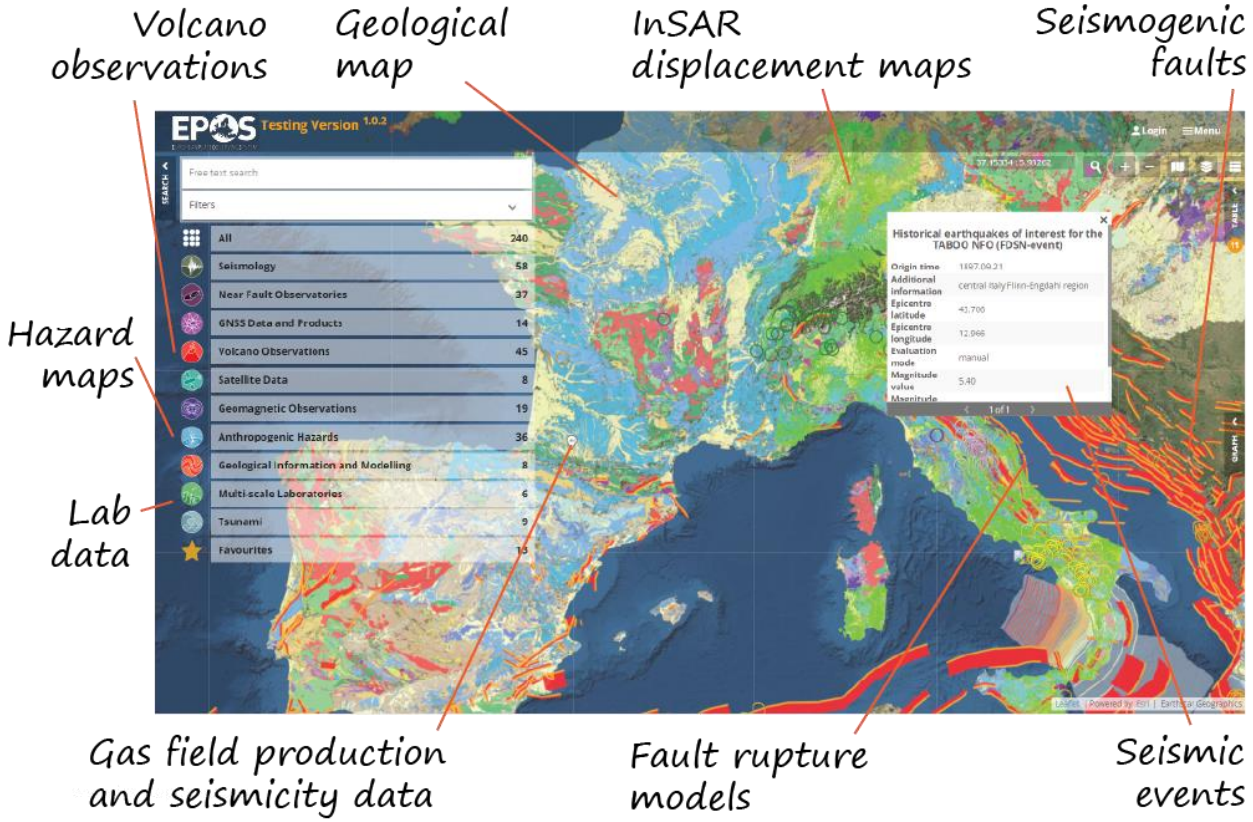
Central data access

All European solid Earth science data in one portal



Later today:

EPOS catalogue for lab data by Richard Wessels

www.ICS-C.EPOS-EU.org

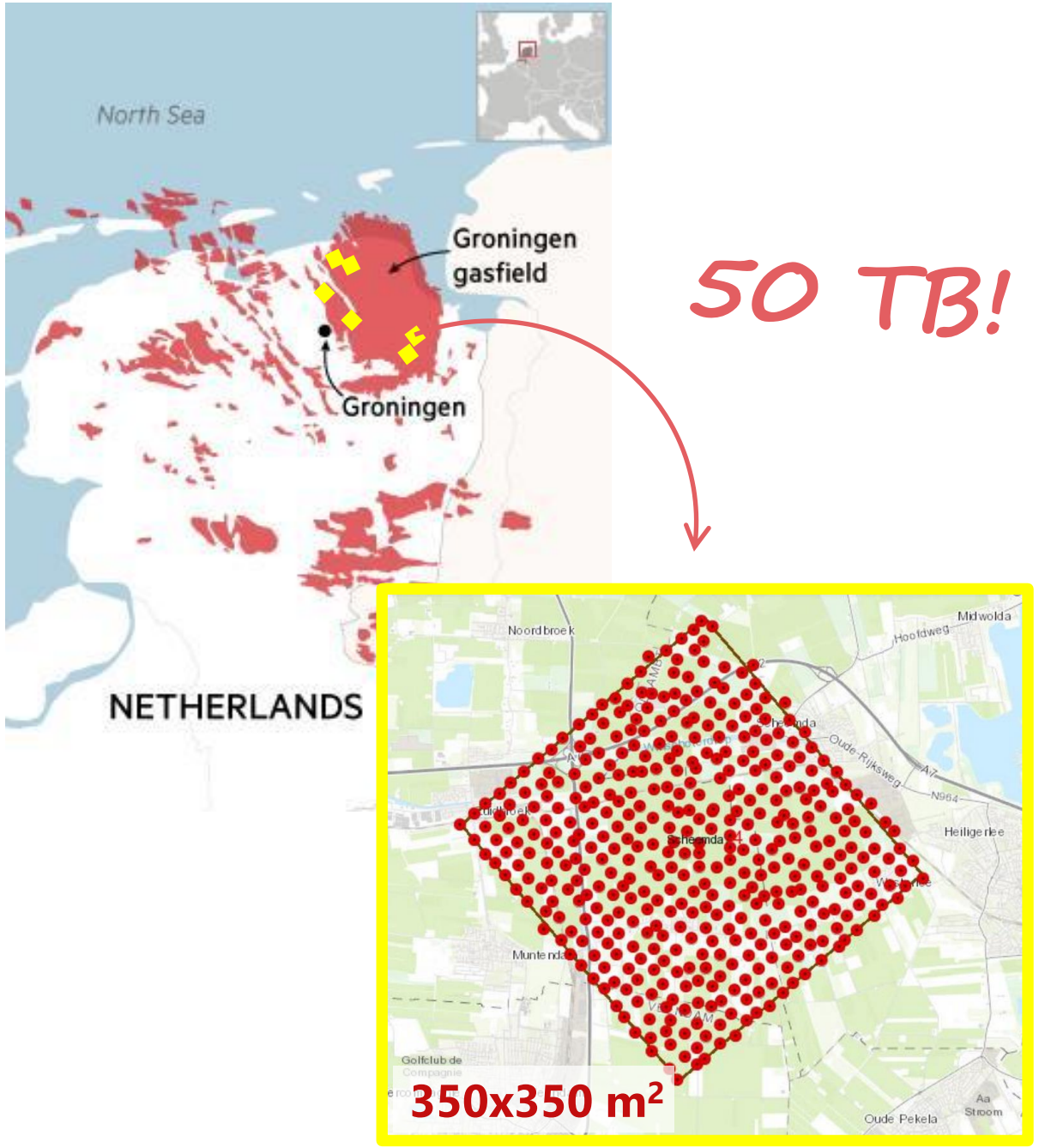
Central data access

New seismological data Groningen gas field now available

dataplatform.knmi.nl

Later today:

more about this vast dataset by Jarek Bienkowski



Romijn 2018 – NAM report

Welcome and introduction

Work in progress: Research at the geothermal well on the campus of Delft University of Technology

13:15 – 13:25 Current status and related research projects (Phil Vardon)
13:25 – 13:40 Planned research activities (Auke Barnhoorn)
13:40 – 13:55 Seismic and electromagnetic monitoring (Marat Ravilov)
13:55 – 14:10 Towards robust uncertainty quantification for low enthalpy geothermal projects (Denis Voskov)
14:10 – 14:30 The first results from a 500m-deep, multi-purpose well at Delftse Hout (Hemmo Abels)

Keynote

14:30 – 14:50 Ensuring safe geothermal operations: modeling of induced seismicity and the importance of model validation through field-scale monitoring (Loes Buijze)

Break

14:50 – 15:20

Facility Access experiences

15:20 – 15:30 The Facility Access program (Ronald Pijnenburg)
15:30 – 15:40 Access to MINT-Utrecht (Yuval Boneh, from Ben Gurion University of the Negev, Israel)
15:40 – 15:50 Access to MINT-Delft (Chris van Broeckhoven, from ESA)
15:50 – 16:00 Access to the TecLab (Mahnaz Rezaeian, from IASBS, Iran)
16:00 – 16:10 Access to the HPT lab (Nicholas Perez, from Texas A&M University)

Data access

16:10 – 16:30 Monitoring Earthquakes in the Groningen gas field: a new dataset available at KNMI (Jarek Bienkowski)
16:30 – 16:50 Making it easy: updating the means to access Earth scientific lab data through EPOS Multi-Scale Labs (Richard Wessels)

Closing: 16:50 – 17:00

Drinks at Utrecht University: 17:00 - 18:30