

The community objectives

The EPOS Thematic Core Service Multi-scale laboratories (TCS MSL) includes a wide range of world-class laboratory infrastructures. The length scales encompassed by the infrastructures included range from the nano- and micrometer levels (electron microscopy and micro-beam analysis) to the scale of experiments on centimeter sized samples and to analogue model experiments simulating the reservoir scale, the basin scale and the plate scale.

from MACRO- to MICRO- and NANO- SCALES



The mission of the EPOS TCS MSL is to create a unique point for collaboration and exchange by;

- 1) Creating a coherent and well-organized network of solid Earth Science laboratories;
- 2) Implementing dedicated Data Services and controlled vocabularies that will guarantee Findability, Accessibility, Interoperability, and Reusability (FAIR) of laboratory data with other solid Earth Science data;
- 3) Developing a Trans-national Access (TNA) program that will increase European state-of-the-art solid Earth science laboratories attractiveness for researchers and contribute to increased researchers mobility, cooperation and exchange.

In addition, the TCS MSL collects facility information from affiliated laboratories that is displayed in the EPOS Infrastructure Portal, thereby providing an overview of the Solid Earth Sciences laboratory landscape in Europe.

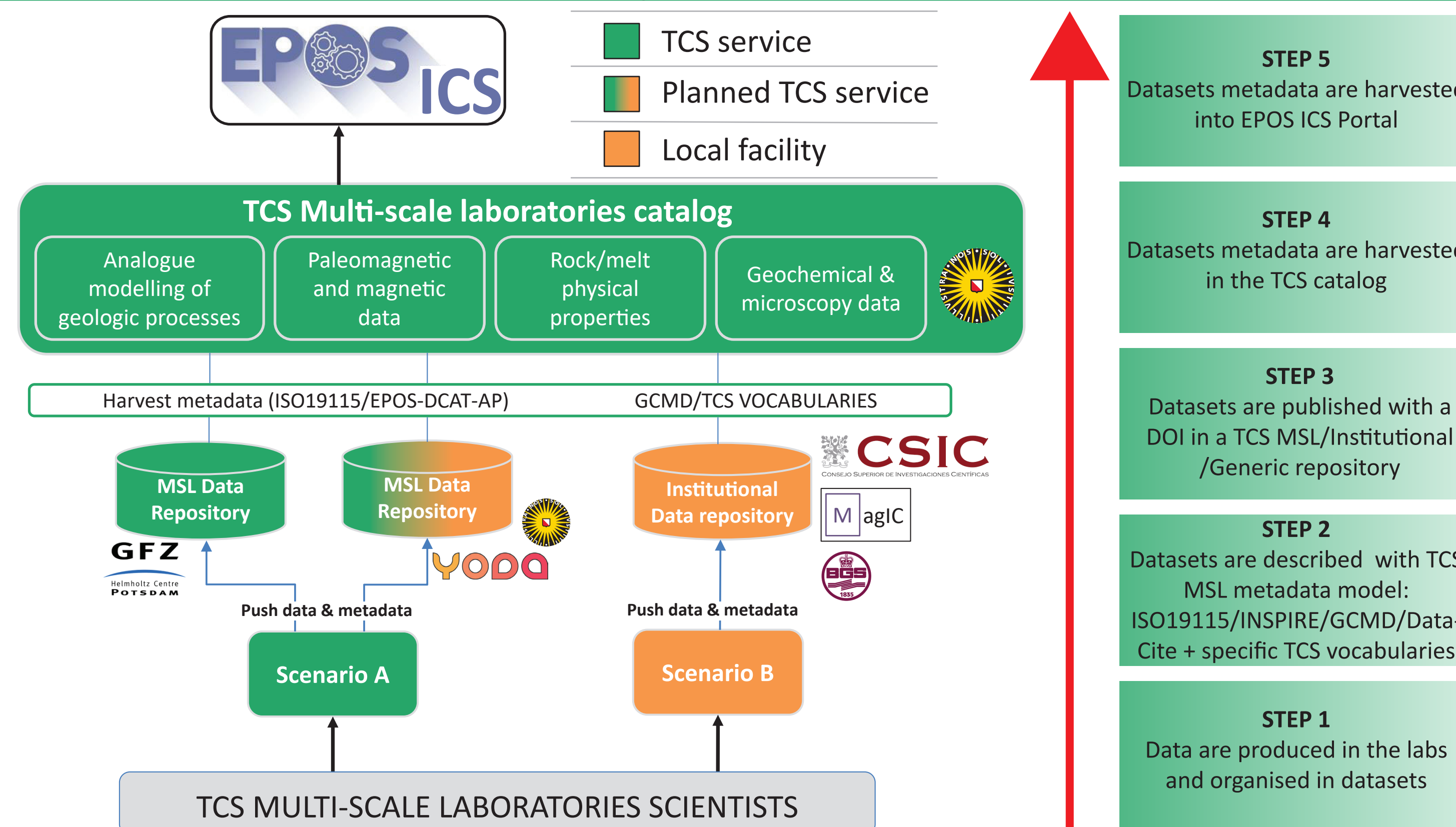
Data Services

The TCS Multi-scale laboratories Data Services aim at the dissemination of scientific results in the form of datasets coming from experimental research, uniquely identifiable through publication with a DOI: citable, trackable, persistent and with metadata and data description for re-use and discovery.

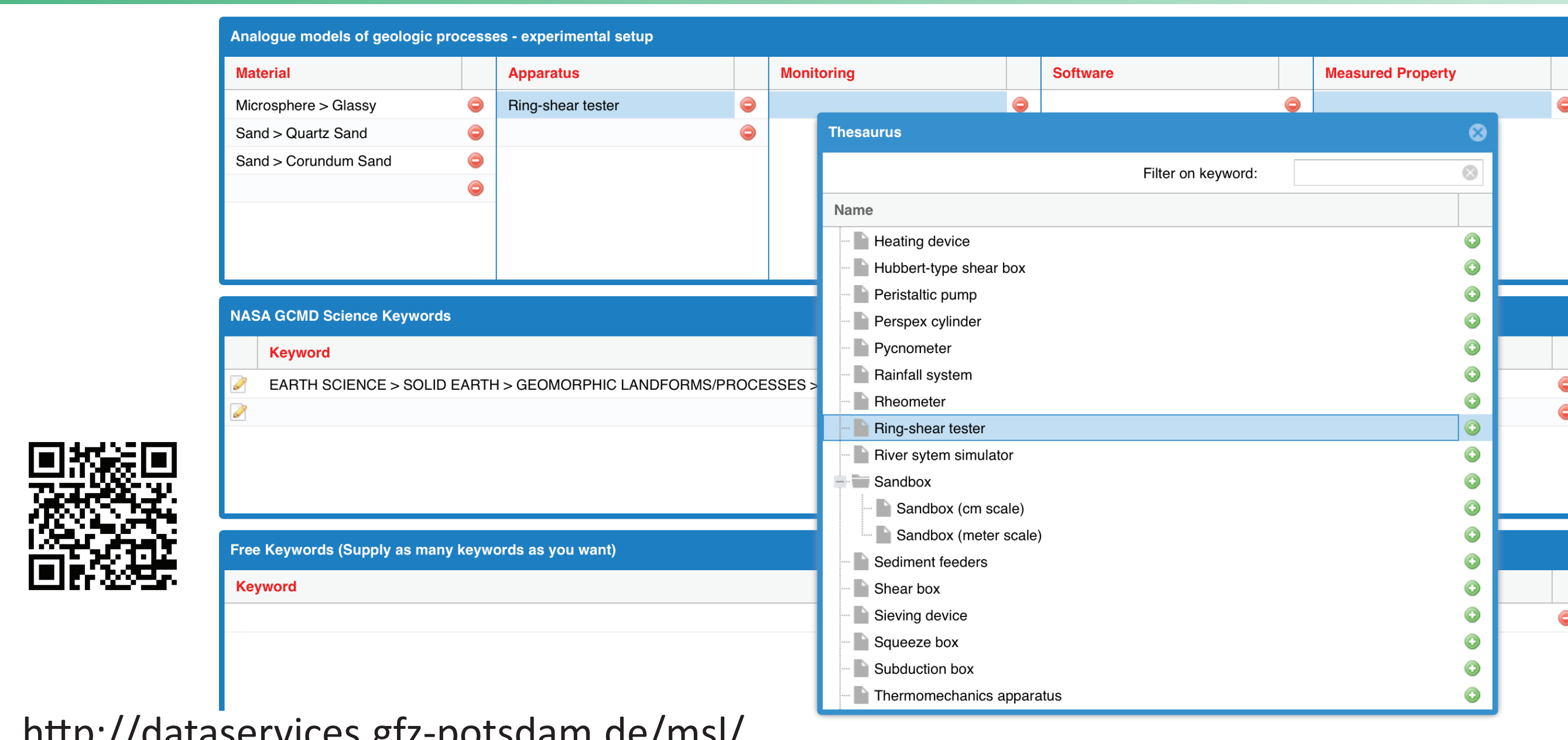
Datasets can be published in generic, institutional repositories or in dedicated EPOS Multi-scale laboratories repositories.

Datasets are described with the EPOS Multi-scale laboratories metadata model, which includes standard vocabularies (ISO19115/INSPIRE, GCMD, DataCite) and new controlled vocabulaires specific for: Analogue models of geologic processes, Paleomagnetic and magnetic data, Rock and melt physical properties, Geochemical data, and Microscopy data. Metadata includes licensing information.

Sharing lab data

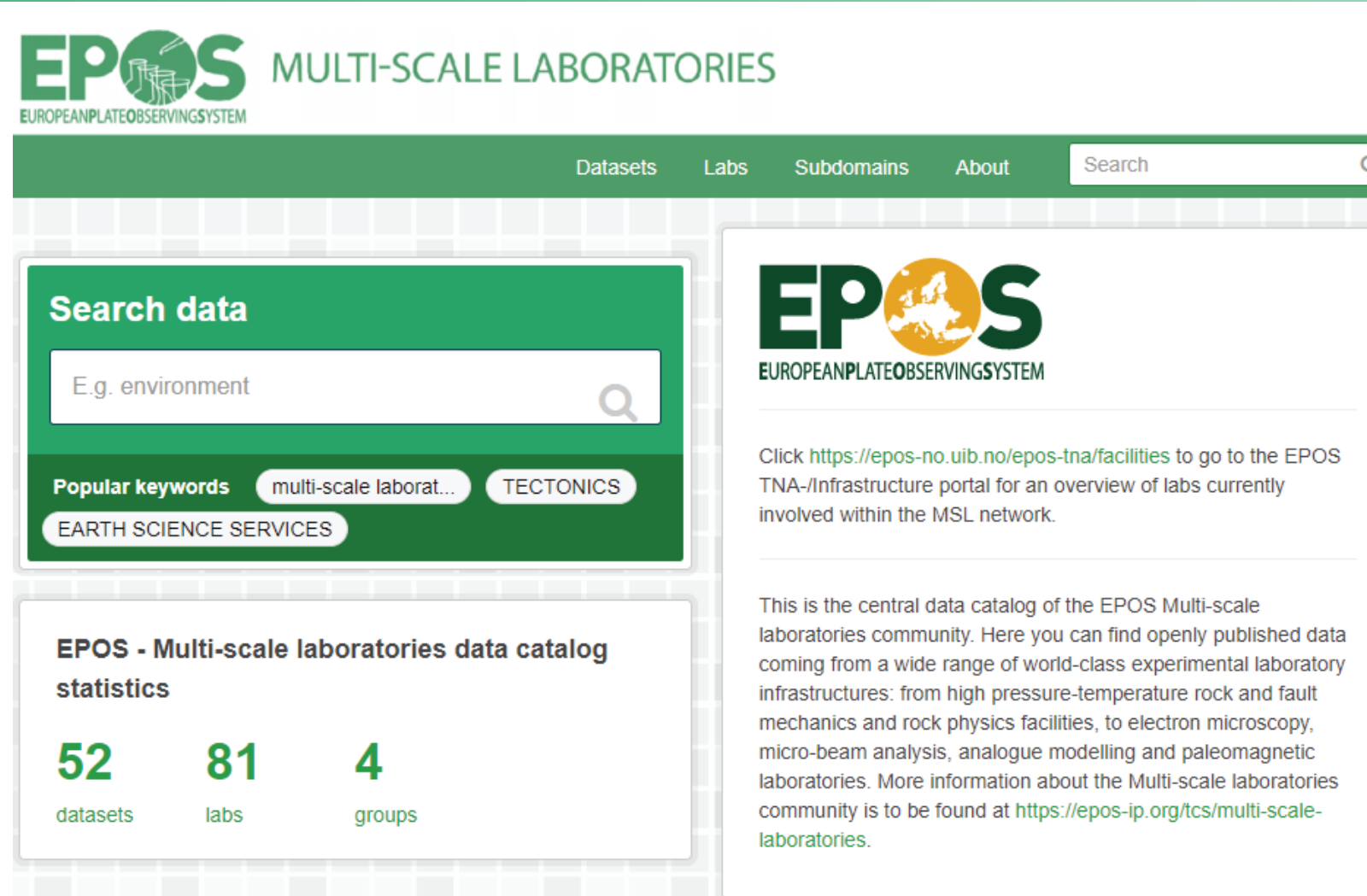


Metadata editor



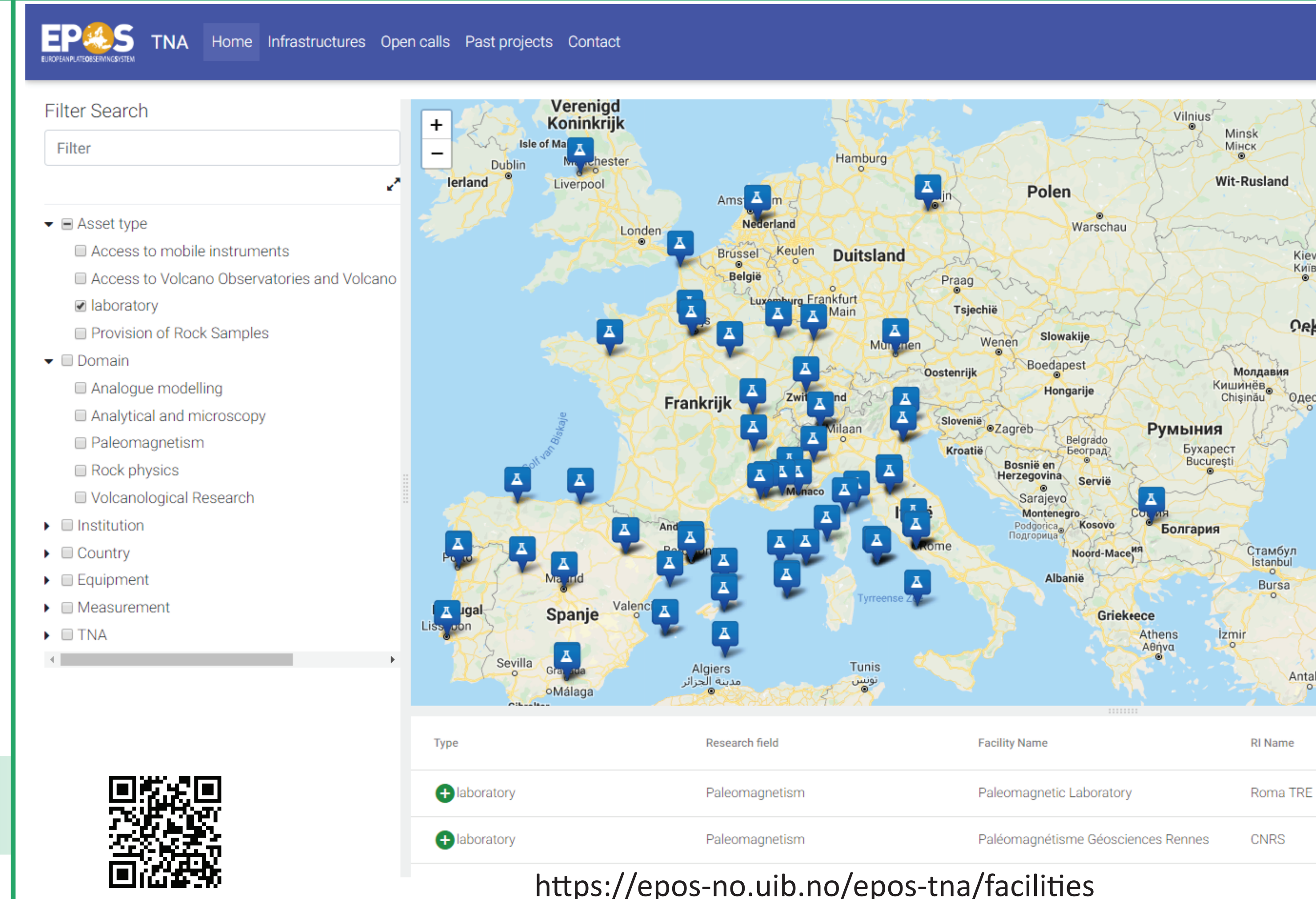
<http://dataservices.gfz-potsdam.de/msl/>

Discovering lab data



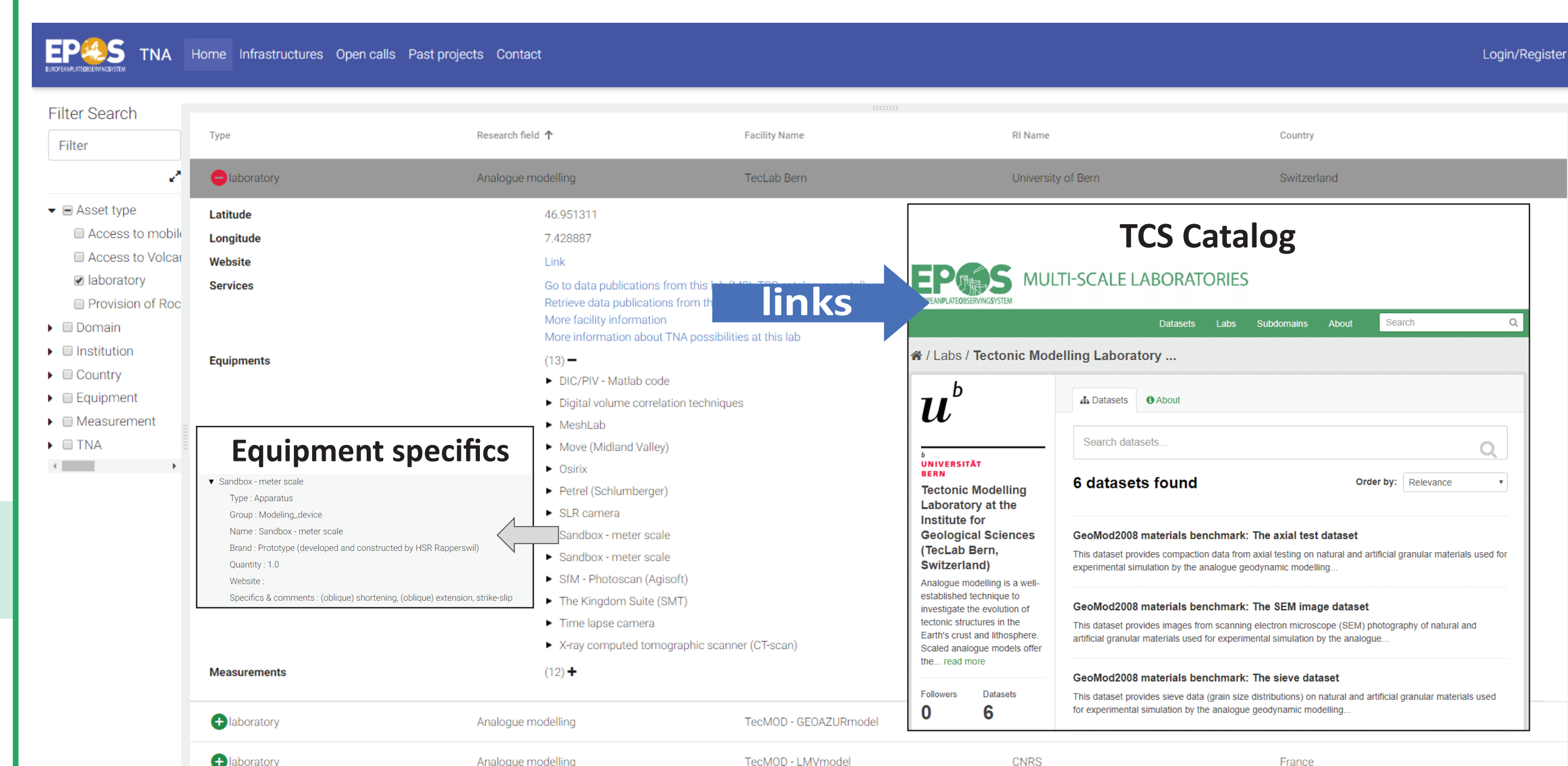
Multi-scale laboratories datasets will be discoverable through the EPOS ICS Portal. Datasets can also be discovered by directly accessing the **TCS Multi-scale laboratories catalog**. Here, datasets can be searched using filters such as domain specific keywords or research infrastructure. The TCS MSL catalog provides also a short description of each contributing laboratory. **TCS Catalog website:** <https://epos-msl.uu.nl>

Facility information



<https://epos-no.uib.no/epos-tna/facilities>

Equipment information



Contact us

