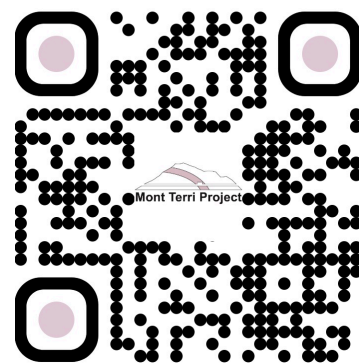


# Mont Terri Project Underground Rock Laboratory

Report period: June 30, 2025 – July 6, 2025

Assembled and edited by swisstopo, St-Ursanne



**Spotlight of the week:** Monday marked the last day of the internship for Myriam Abdelouhabi. After one year of working with us, she starts a PhD at EPFL. We are grateful for all the work she did for the project during this time and are very happy that she will still pass by for guiding visits through our lab. We wish you all the best for your future Myriam and are looking forward to seeing you soon... (Fig. S. Schefer, swisstopo).

## Important note

- From July 14 to August 10, 2025, the lab will be closed for the summer break. During these four weeks, a rapid response team is organized. If you encounter any problems with your experiment, don't hesitate to contact us directly. We wish you a happy summer!

## **BIM (Mont Terri Building Information Modeling) experiment**

- From Tuesday to Friday, July 1–4, P. Mosler and B. Broich (TU Darmstadt) worked on the integration of the BIM geometry and the Fulcrum semantics of the installations and boreholes for an augmented reality simulation of the lab. The tests after one week look very promising (**Figure 1**).

## **CD-A (Influence of Humidity on Cyclic and Long-Term Deformations) experiment**

- On Monday, June 30, S. Schefer (swisstopo) on behalf of F. Königer (ISU) restarted the TDR measurements .

## **FE-M (Long-Term Monitoring of the Full-Scale Emplacement Experiment) experiment**

- On Tuesday, July 1, B. Firat (Nagra) and S. Schefer (swisstopo) replaced the temperature sensor in the heated calibration bath and refilled 40 l of demineralized water.
- On Wednesday, July 2, T. Theurillat (swisstopo) refilled the demineralized water containers and added another 20 l to the hot calibration bath.

## **FS-B (Imaging the Long-Term Loss of Faulted Host Rock Integrity) experiment**

- From Monday to Saturday, June 30 to July 5, A. Eul and S. Braunschweig (Eul GmbH) continued drilling BFS-B17 and reached a depth of ca. 62 m (**Figure 2**).

## **GT (Gas Transport Models and the Behavior of OPA to Gas Pressure) experiment**

- On Monday, June 30, S. Schefer (swisstopo) restarted the computer of the miniRuedi measurements.

## **PF-A (Progressive Evolution of Structurally-Controlled Overbreaks: Long-term monitoring, hydromechanical simulation and rock testing) experiment**

- From Monday to Thursday, June 30 to July 3, S. Schefer (swisstopo) installed the DAS from sandwich shaft 1 at the PF site and M. Furche (BGR) performed along- and cross-hole measurements in and between the six monitoring boreholes around BPF-7.

## **SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment**

- From Monday to Thursday, June 30 to July 3, S. Schefer (swisstopo) removed the ERT DAS from shaft 1 and brought it to the PF-site. Measurements on shaft 1 restarted Thursday night.
- On Wednesday, July 2, T. Theurillat (swisstopo) refilled the HPT of shaft 1.

## **Visits**

Day	Date	Group Name	Group Size	Visitors Guide
Wed	2.7.2025	Gymnasium Lerbermatt	26	H. Sager (Nagra)
Thu	3.7.2025	Gymnasium Lerbermatt	23	H. Sager (Nagra)
Thu	3.7.2025	Gymnasium Lerbermatt	25	H. Sager (Nagra)
Fri	4.7.2025	CFF Infrastructures	19	R. Nicol (swisstopo)



## Figures



Figure 1: BIM: Testing the AR environment inside Niche MI (S. Schefer, swisstopo).



Figure 2: FS-B: Drilling of BFS-B17 (S. Schefer, swisstopo).