





für Bildung









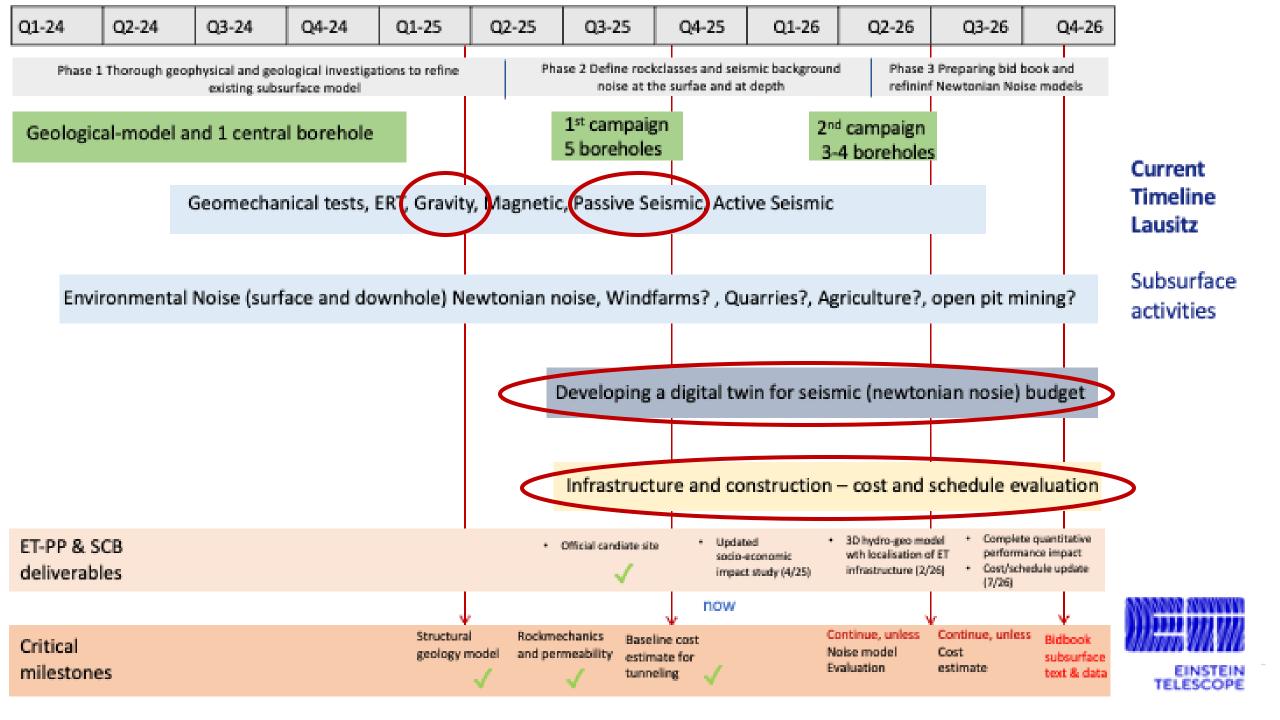






Updates on site characterization at the proposed Lausitz, Saxony, ET candidate site

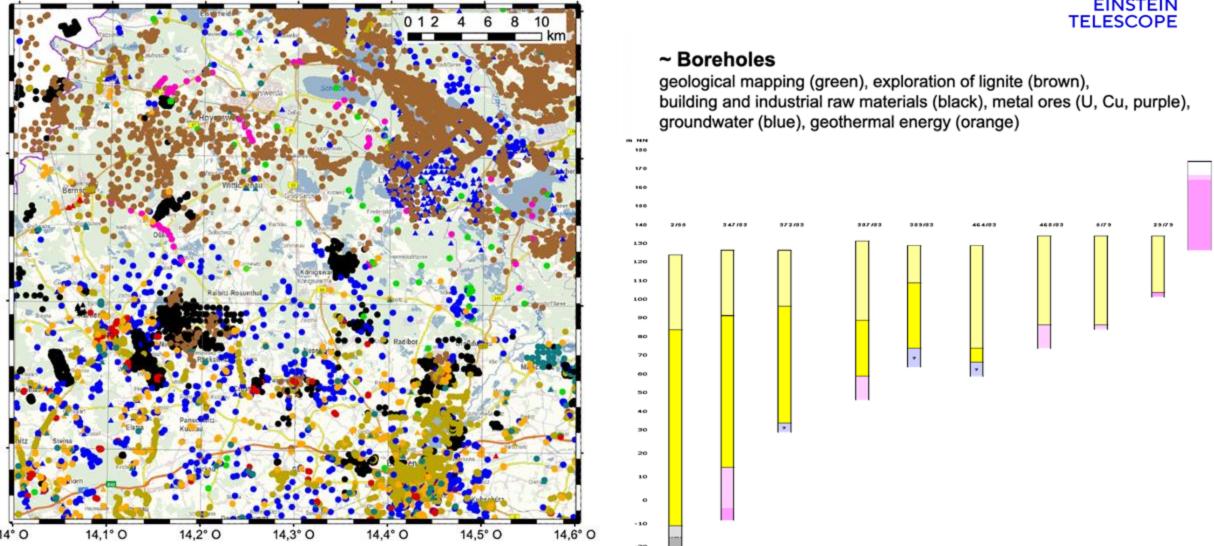




Developing a digital twin: historic boreholes



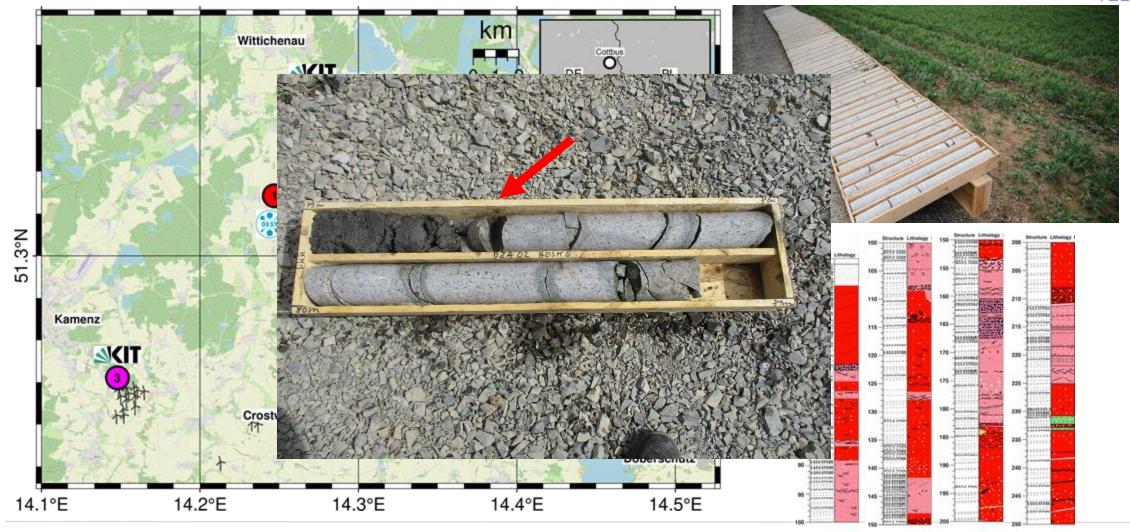
EINSTEIN



Developing a digital twin: new boreholes



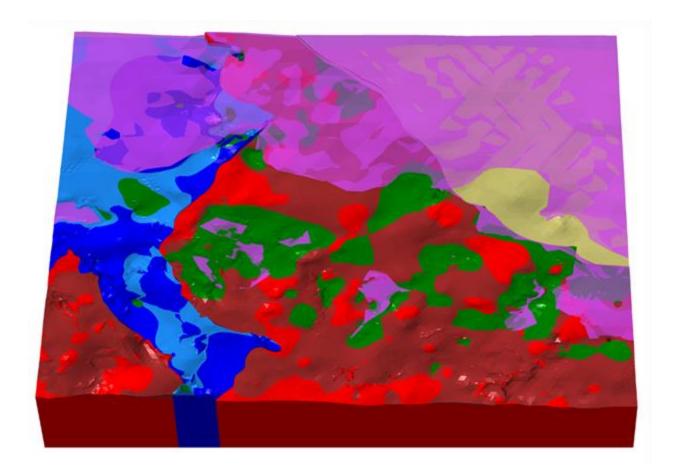
EINSTEIN TELESCOPE



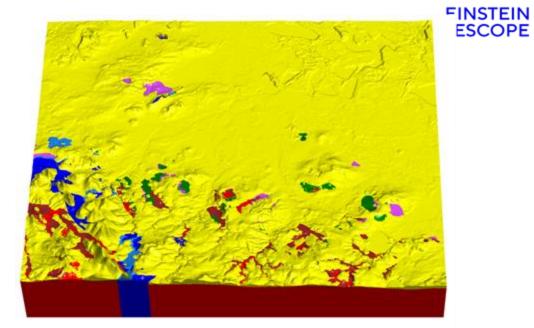


Developing a digital twin: Geological model





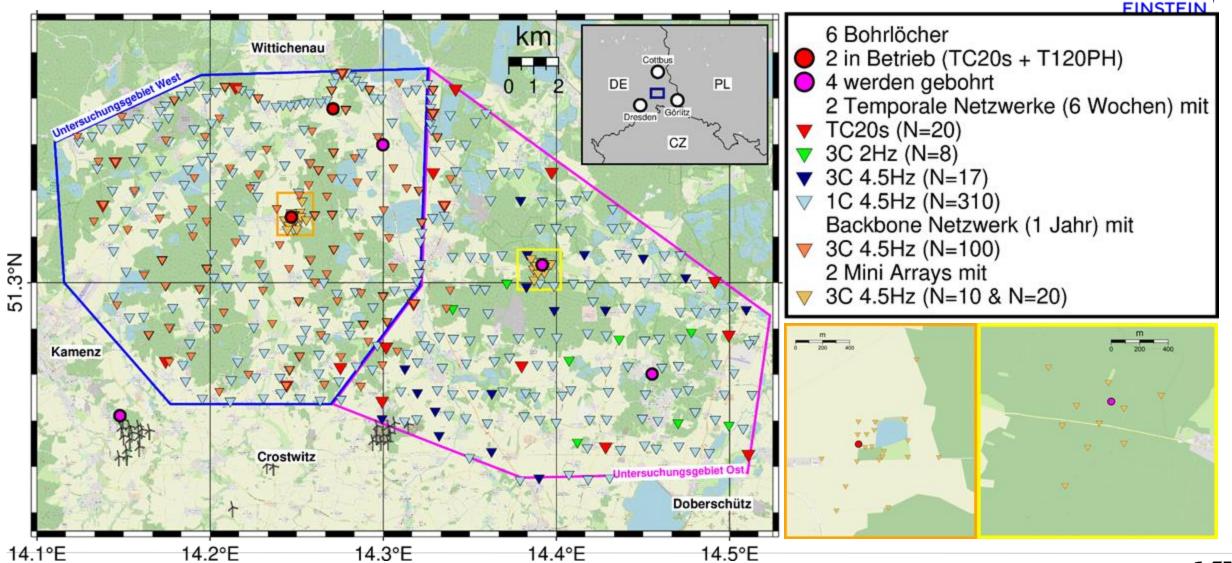
Preliminary model is available in 0.3, 1.0 and 1.5 km resolution. First hydrological modell accomplished.



Cap rock		Quaternary	
		Tertiary	
		Kaolin	
Base rock	Weathered granodiorite	Weathered greywacke	Görlitz Slate Mountains
	Granodiorite	Greywacke	

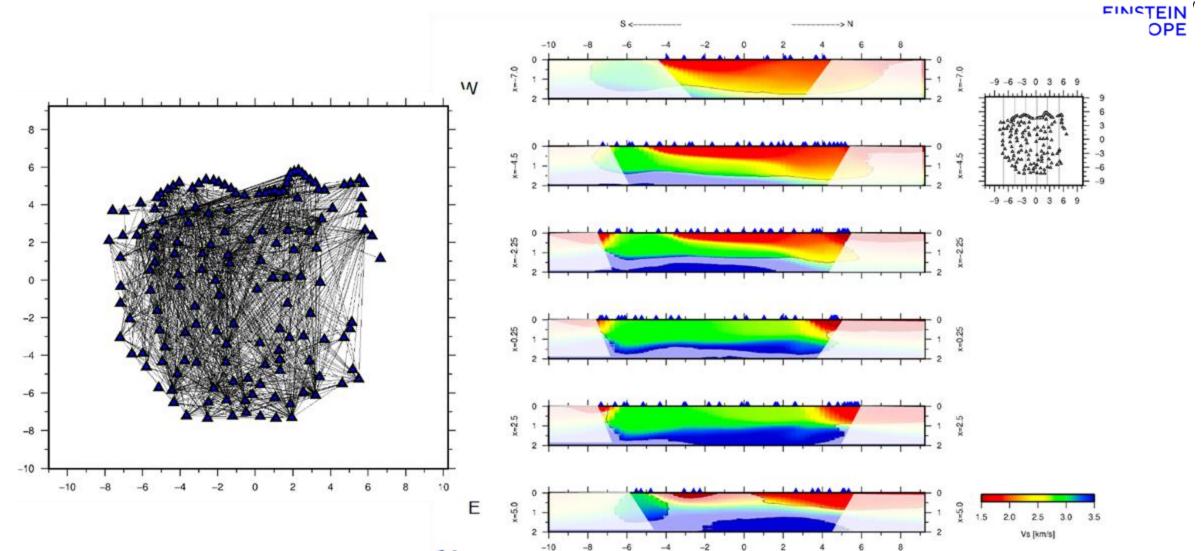


Developing a digital twin: seismics (400+ stations)



Developing a digital twin: seismic velocity structure

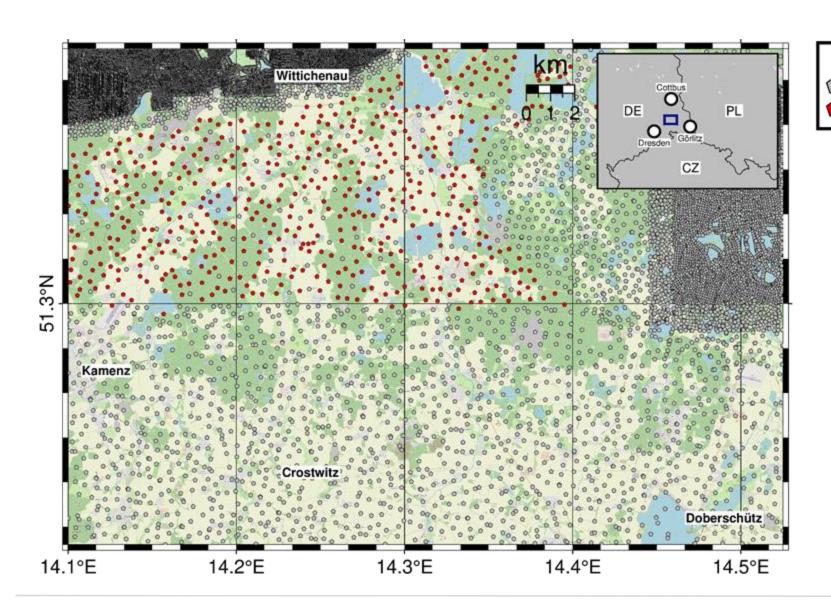




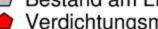


Developing a digital twin: healed fault structures





Gravimetriepunkte aus Bestand am LfULG



Verdichtungsmessung 2025

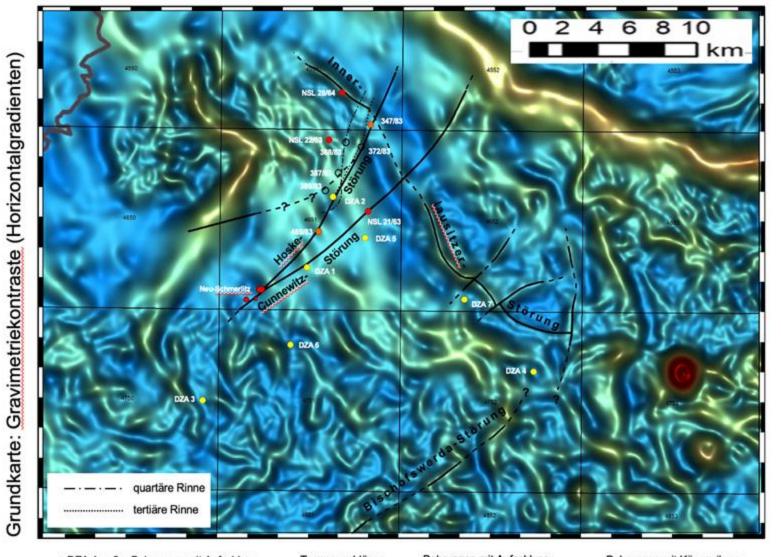


- historic ground gravity point measurements
- varying local point distance of 10 m to 2+ km
- DZA commissioned a remeasurement for increase -
- point density in north (red) about 1200 new points added



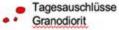
Developing a digital twin: identifying fault structures





Horizontal gradient of the static magentic field



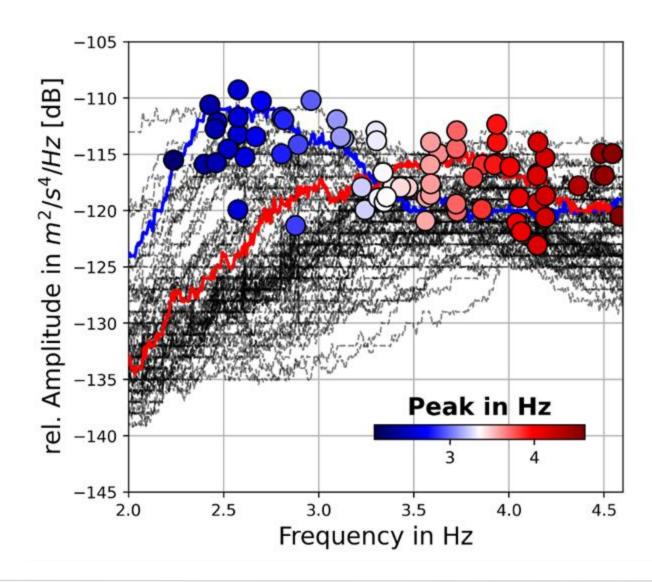


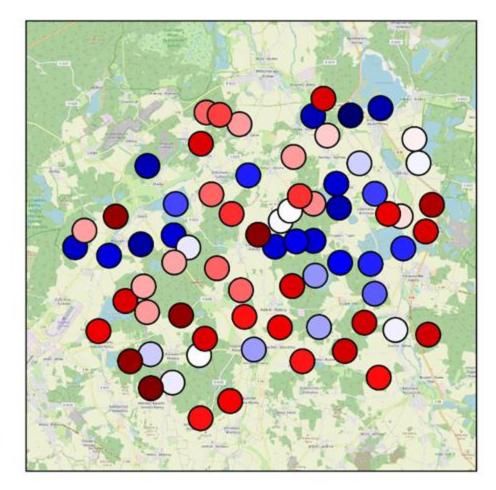
Bohrungen mit Aufschluss Top Granodiorit (kurze Profile) O Bohrungen mit Känozoikum, ohne Aufschluss Granodiorit



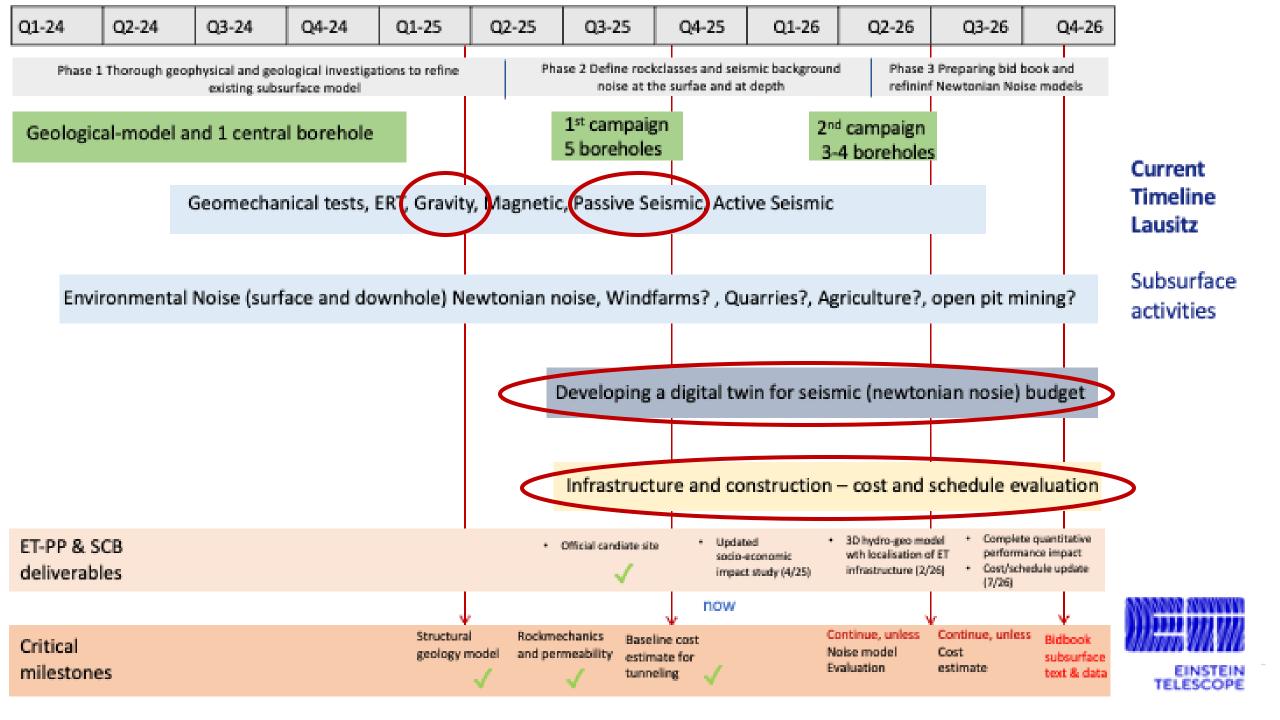
Developing a digital twin: ambient noise field









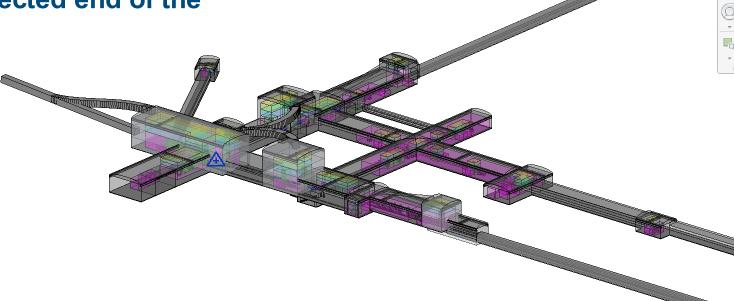


Translate geological data into reliable cost estimate



- Based on current regional data and the latest ET geometry with adaptation for the Lausitz
- The results will provide an initial estimate of underground infrastructure costs.

Results are expected end of the year





Feasibility study for ET at Lusatia (11M € approved)



WP1 PMC

- Communication
- Sozio-economicStudy

WP2 GEO

- Geomechanics
- Ambient Noise
- Seismics
- 3-5 boreholes (instrumented)
- integration

WP3 UG

- Underground Buildings & Infrastructure
- Permitting procedures
- Legal aspects

WP4 OG

- Surface Buildings& Infrastructure
- Permitting procedures
- Legal aspects

Acceptance

Scientific feasibility

Timeline & cost estimate

