



ISTITUTO NAZIONALE
DI GEOFISICA E VULCANOLOGIA



Einstein Telescope

Il contributo di INGV

Marco Olivieri, INGV - Bologna

INGV activities in ET collaboration

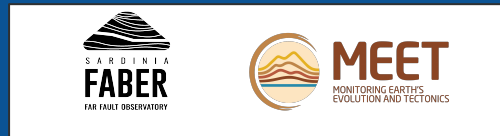
INGV RU ET (leader Carlo Giunchi)

- 20 people from different section
 - competences: geophysics, seismology, geodesy, gravimetry, ground deformation, magnetism, shallow structure characterisation
 - significant involvement in Sardinia site characterisation.
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- Active role in TETI / BidBook
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- contribution in SunLab creation (on hold, waiting for the new INGV President)

Research: FABER, AdriaArray an other

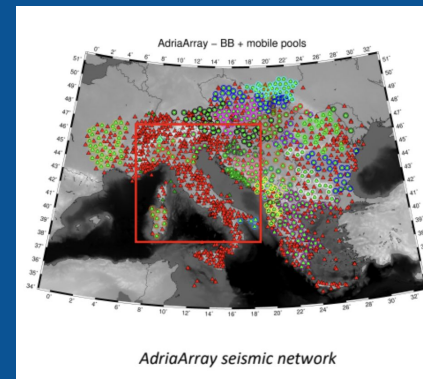
PNRR FABER under completion.

- first temporary experiment completed
- superconducting gravimeter do be installed in summer
- geophysical school planned for October 2025



AdriaArray experiment

- 8 BB stations in Sardinia
- temporary network operational since autumn 2023
- extension requested



WINDPARK impact on ET

- under review (minor revision)

Plans for future activities

Needs:

- to improve the geological model
- to assess the hydro-geological context
- ground deformation
- long-term stability

Under discussion:

- magnetic and magneto-telluric survey
- repeated seismic array analysis at vertices
- long-term impact of earthquakes and deformation (with comparison?)