

***ETH*** zürich

# Beneficiary introduction

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# Planned experiments

- DAS: Two interrogators
  - Santorini, submarine cable (volcano)
  - Alpes, monitoring permafrost, glaciers
  - Tenerife, tunnels through volcanoes
  - Greenland
- Multiple sensors: monitoring natural hazards, large landslide in Switzerland
- Centre for Immersive Waves (Laboratory)
- Bedretto Rock Laboratory, induce small earthquake

# Theoretical Developments

- Analysing DAS with more sophisticated methods for e.g. modelling and inversion
- Full Waveform Inversion
- 6C and gradients measurements (ML for wavefield classification)

# New instruments

- Integrated fibre-optic sensor (Athens)
- Tetrahedron of seismometers for measuring divergence

# Related projects

- Easygo-ITN, geothermal exploration and the Bedretto laboratory