# SolGeo

Solgeo is a company founded in 2001 specialized in the design and manufacture of geophysical instruments and systems for microseismic and dynamic monitoring of soils, structures and buildings.

# SEISMIX

SEISMIX is a startup founded in July 2020 specialized in microseismic monitoring services.
SEISMIX is a Spin-Off of the University of Pisa (Italy) and a company of the SolGeo Group.

## DESIGN OF SEISMIC NETWORKS AND SITE CHARACTERIZATION

Optimally designed microseismic networks combined with local velocity models and attenuation curves are fundamental for an efficient monitoring.

- Design and optimization of seismic networks
- Acquisition and Analysis of the seismic background noise
- Magnitude calibration
- Seismotectonic assessment
- Hazard and risk assessment
- Local seismic velocity models

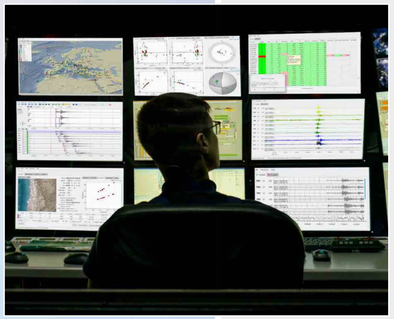

## SUPPLY AND INSTALLATION

Solgeo manufactures and installs microseismic equipment in line with international standards and state of the art. Main components of a typical station are:

- Seismic sensors
- Recorder unit
- GPS for signals' synchronization
- Modem/router for signals' transmission
- Photovoltaic panels, if electricity is not available
- Battery pack
- Charge controller




## STATISTICAL ANALYSIS OF SEISMICITY AND GEOLOGICAL INTERPRETATION



Analysis of evolution of seismicity in the space-time-magnitude domain is important for the discrimination between natural and induced seismic events.

- Spatial and temporal clustering of seismicity
- B-value analysis
- Seismotectonic interpretation
- Geomechanical modeling
- Induced seismicity discrimination

## REAL-TIME MICROSEISMIC MONITORING




The Real-Time microseismic monitoring is based on the use of the software package SeisComP, customized by our experts according to the needs of the customer.

- Real-Time (RT) 24/7 seismic monitoring
- Seismic bulletin production
- Focal mechanisms determination
- Seismic alerts via email or SMS
- Weekly or monthly reports