About us

STRATAGEM974 is an engineering and consulting firm specialized in delivering high-quality data acquisition, processing and interpretation for practical applications in geosciences.

Our objective is to assist our clients in geological, hydrological, environmental and civil engineering applications. These clients include mining companies, geophysical contractors, universities, research institutes and governmental agencies.

Fielding the most modern equipment available and utilizing the latest data gathering techniques, our experienced personnel provides quality data in a cost-effective manner in all kinds of environment (work at height, hazardous sites, underwater).

Services

Underground & reinforced concrete structures investigations

Civil engineering applications

Detection of buried networks and utilities
- water pipes, electricity, phone lines, leakages

Detection of underground cavities
- lava tubes, archaeology, roads, runways

Foundations design
- depth to bedrock, elastic moduli, rippability

Inspection of reinforced concrete structures

Location and diameter of reinforcement bars
- walls, beams, slabs, decks

Concrete integrity and aging effects
- cover thickness, voids, corrosion and carbonation phenomenon

Leakage detection
- walls, dams

Environmental applications

Groundwater investigations
- aquifer prospecting, borehole location, saline water intrusion mapping

Borehole investigations
- inspection, instrumentation, pumping tests

Pollution diagnosis
- contamination mapping, soil and water samplings

Geological investigations
- nature and thickness of geological formations, mineral prospecting
Our extensive experience in instrumentation design, conception and installation is recognized by international institutions (UN, INGV, IGP) for the study of natural risks and climate change.

Monitoring of deformations and vibrations

Deformations, vibrations, noise

Real-time monitoring of deformations
bridges, buildings, rock mass, landslides

Vibrations monitoring
building protection, construction sites

Noise monitoring
airport proximity, road traffic, construction sites

Instrumentation and development of innovative solutions

Conception and installation of monitoring instruments

On any kind of site
hazardous areas, work at height, isolated sites

For any kind of data acquisition
weather, oceanography, landslides

With any kind of set-up
on-site & long-distance monitoring, real-time monitoring, website monitoring

Project management

Consulting and assistance for defining technical requirements
Assistance for contracting owner
Design and manufacturing of innovative solutions
Monitoring, maintenance and inspection
Tailor-made and adapted solutions

Geophysical studies for environmental and civil engineering applications

A reliable and internationally recognized instrumentation
(Campbell Scientific®, MadgeTech®)

A quick intervention worldwide

A complete set of equipment available in Reunion Island

- Electrical resistivity
- Seismic refraction, MASW
- Ground Penetrating Radar
- TDEM, Electromagnetic detectors
- Sound level meter, vibration monitoring equipment
- Magnetometer
- Borehole inspection equipment
- Coring equipment

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