

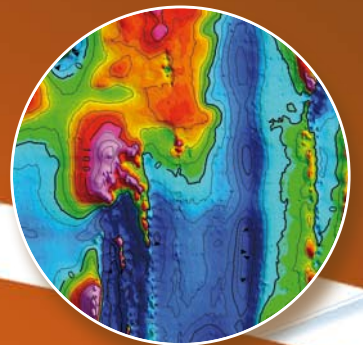
Engineering & Consulting

STRATAGEM<sup>974</sup>  
.com

GEOPHYSICAL SURVEYS



NON-DESTRUCTIVE TESTING



CIVIL ENGINEERING  
& ENVIRONMENTAL STUDIES



INSTRUMENTATION & MONITORING



# 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

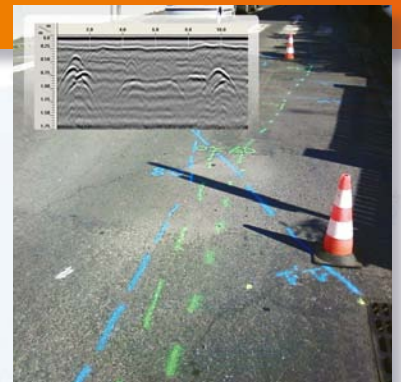
*water pipes, electricity, phone lines, leakages*

##### 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

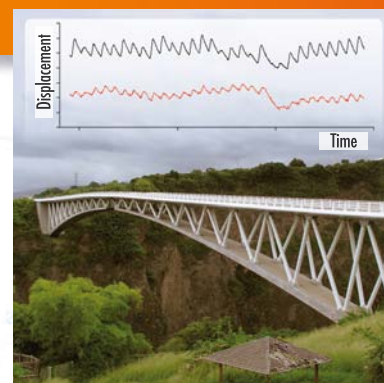
*bridges, buildings, rock mass, landslides*

#### 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

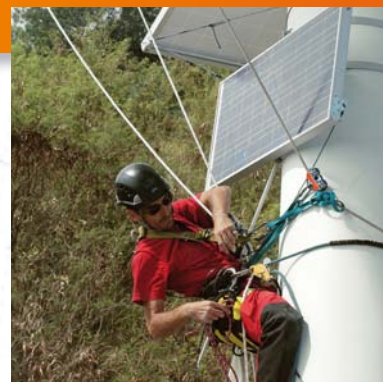
*hazardous areas, work at height, isolated sites*

#### 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



# Engineering & Consulting

**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



**Stratagem974**

**62 Bd du Chaudron  
97490 Sainte-Clotilde  
Reunion Island**

**Tel/fax**

**GSM**

**Email**

**Website**

**+262 262 21 84 69**

**+262 692 26 60 62 / +262 692 36 96 50**

**contact@stratagem974.com**

**http://www.stratagem974.com**