Eddyfi Technologies
Remote Monitoring

SISGEO

A natural inclination towards high-precision monitoring instruments

Among *the world's leading manufacturers of instruments and equipment for structural,* geotechnical, and environmental monitoring, Sisgeo was established in 1993, inheriting the expertise and know-how of SIS Geotecnica, which was then the Italian market leader in this sector.
Passion, competence, reliability, accountability, and a constant pursuit for quality and technical perfection are Sisgeo founding values and distinctive features, placing it among the global best players in the field.
In June 2025, Sisgeo became part of the Eddyfi Technologies family, joining Senceive and Sensor Networks, within the Remote Monitoring Solutions (RMS) product line.
This means a significant expansion of the range of structural and advanced wireless connectivity solutions available to our customers.

During the years, Sisgeo has become an internationally recognized brand for *quality*, *reliability* and *innovation*.
The long-necked red dinosaur in our logo is a reflection of the ability and passion of our company to explore the soil in depth.

We design, manufacture and provide a wide range of high-precision measuring instruments covering the various monitoring applications in structural and geotechnical engineering:

- Piezometers
- Inclinometers and tiltmeters
- Railway monitoring instrumentation
- Extensometers
- Crackmeters and jointmeters
- Pressure and load cells
- Settlement gauges
- Strain gauges and thermometers
- Pendulum systems
- Readouts and dataloggers

↑ BROWSE OUR PRODUCTS

THE RIGHT TECHNOLOGY for every monitoring need

Solutions modelled on *DIRECT EXPERIENCE*

Plan, design and manufacture are our ways of *improving* and *simplifying* our customers' work.
We believe our continue *interaction with customers* and consultants is essential to increase our experience and stimulate our *creativity*.

DAMS AND HYDROPOWER

MINES

TUNNELS AND EXCAVATIONS

LANDSLIDES AND NATURAL HAZARDS

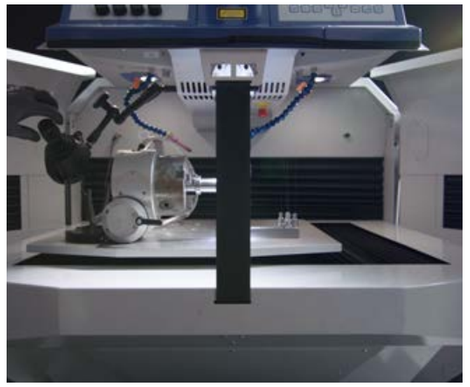
RAILWAYS

BUILDINGS AND CULTURAL HERITAGE

SHM - STRUCTURAL HEALTH MONITORING

BRIDGES

↑ BROWSE OUR APPLICATIONS



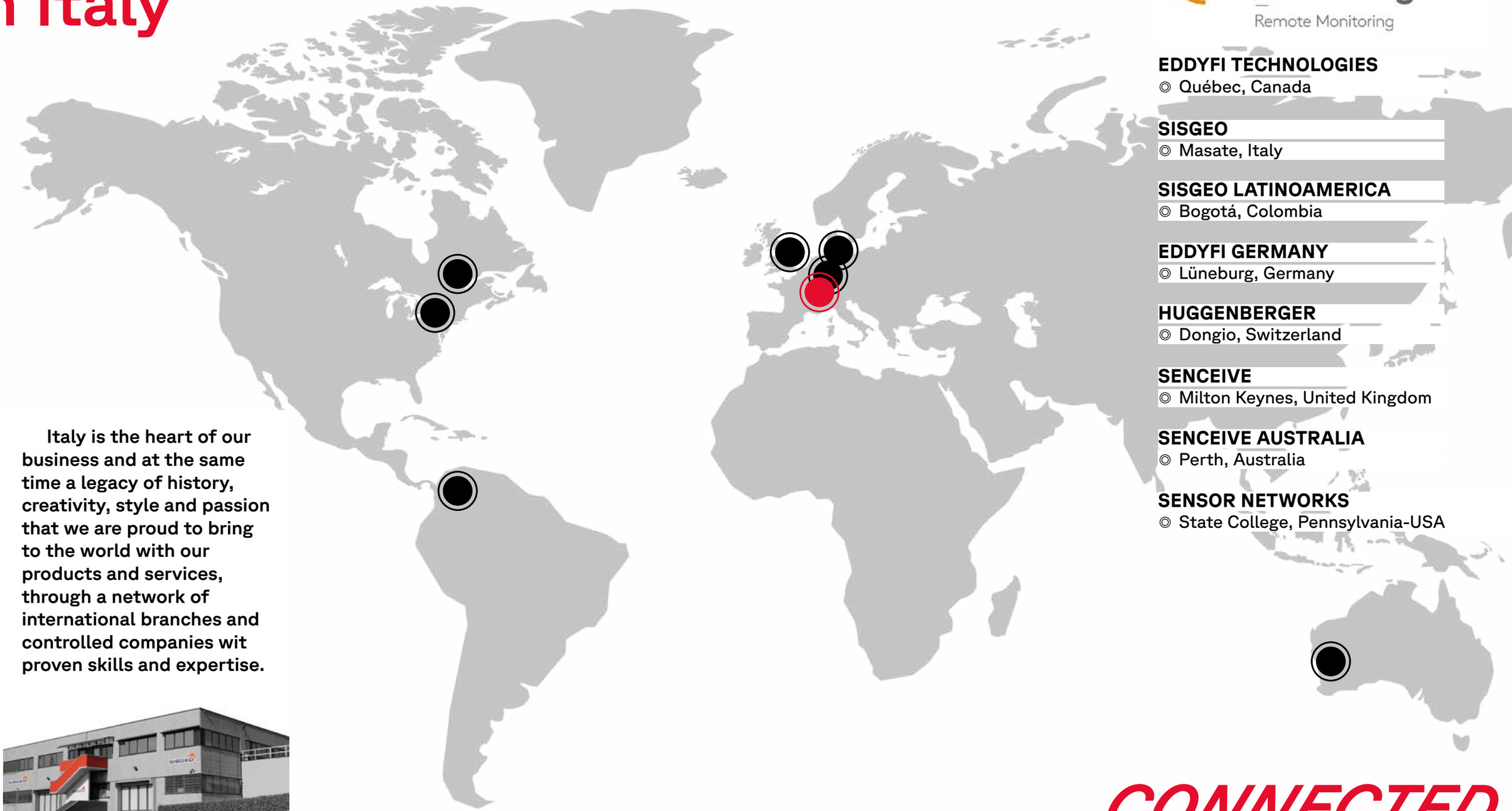
Research and development are a distinctive trait of *Sisgeo*. A consistent commitment that is reflected both in the design of new and innovative products and in the continuous optimization of the production process, in order to always keep our range of instruments technologically up to date and make it more comprehensive, flexible and competitive.

Being able to take care of the entire production process internally, allows us to offer advanced instrumentation that benefits from the expertise of a highly motivated team, capable of rising up to the latest challenges by applying innovation, know-how, cutting-edge design and a deep knowledge of civil engineering and instrumentation applied to geology.

Always *AHEAD OF TIMES*

Rooted in Italy

Italy is the heart of our business and at the same time a legacy of history, creativity, style and passion that we are proud to bring to the world with our products and services, through a network of international branches and controlled companies wit proven skills and expertise.



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Remote Monitoring

EDDYFI TECHNOLOGIES
◎ Québec, Canada

SISGEO
◎ Masate, Italy

SISGEO LATINOAMERICA
◎ Bogotá, Colombia

EDDYFI GERMANY
◎ Lüneburg, Germany

HUGGENBERGER
◎ Dongio, Switzerland

SENCEIVE
◎ Milton Keynes, United Kingdom

SENCEIVE AUSTRALIA
◎ Perth, Australia

SENSOR NETWORKS
◎ State College, Pennsylvania-USA

CONNECTED WORLDWIDE

CHUQUICAMATA MINE
Chile

CASE # 1

13

ACTIVITIES

- ***Sisgeo*** **supplied and installed inclinometer casings, BRAIN inclinometer system, vibrating wire piezometers, MEXID extensometers, electric load and pressure cells.**
- **In order to monitor possible settlements, *Sisgeo* installed the digital DEX-S inclino-extensometer for a 3D borehole automatic profiling.**

↑ Chuquicamata is a huge opencast copper mine located in the north of Chile.
Modern mining and smelting technology allows the usage of such deposits with low costs.

READ MORE ABOUT THE PROJECT ←

↓ The largest hydropower plant in Colombia: 13.900GWh produced each year, accounting for about 13% of Colombia's total installed power capacity.

CASE #2

ACTIVITIES

- Supervision to the installation of the instrumentation in the dam body.
- Supply and installation of the instrumentation for the diversion tunnel, underground powerhouse and spillway.
- Periodic inspections and maintenance of the monitoring system in operation.

READ MORE ABOUT THE PROJECT →

ITUANGO HPP

Colombia

↓ The new National Library is located near to the Presidential Palace in Astana, Kazakhstan. The lower part is an opaque façade and the other, a huge glass dome.
The primary structure of the building consists of 9 differently shaped slab levels situated on concrete columns. Concrete cores are providing horizontal stiffness. The 20° inclined glass roof is located on various levels of the reinforced concrete structure and lowers towards the north, where the Presidential Palace is located.

ACTIVITIES

- **During construction, *Sisgeo* installed about Nr.100 biaxial tiltmeter to monitor the tiltmeters of the structure along various points. All the tiltmeters are connected to the OMNIAlog data acquisition system for nearly real time monitoring and remote management.**

ASTANA NATIONAL LIBRARY

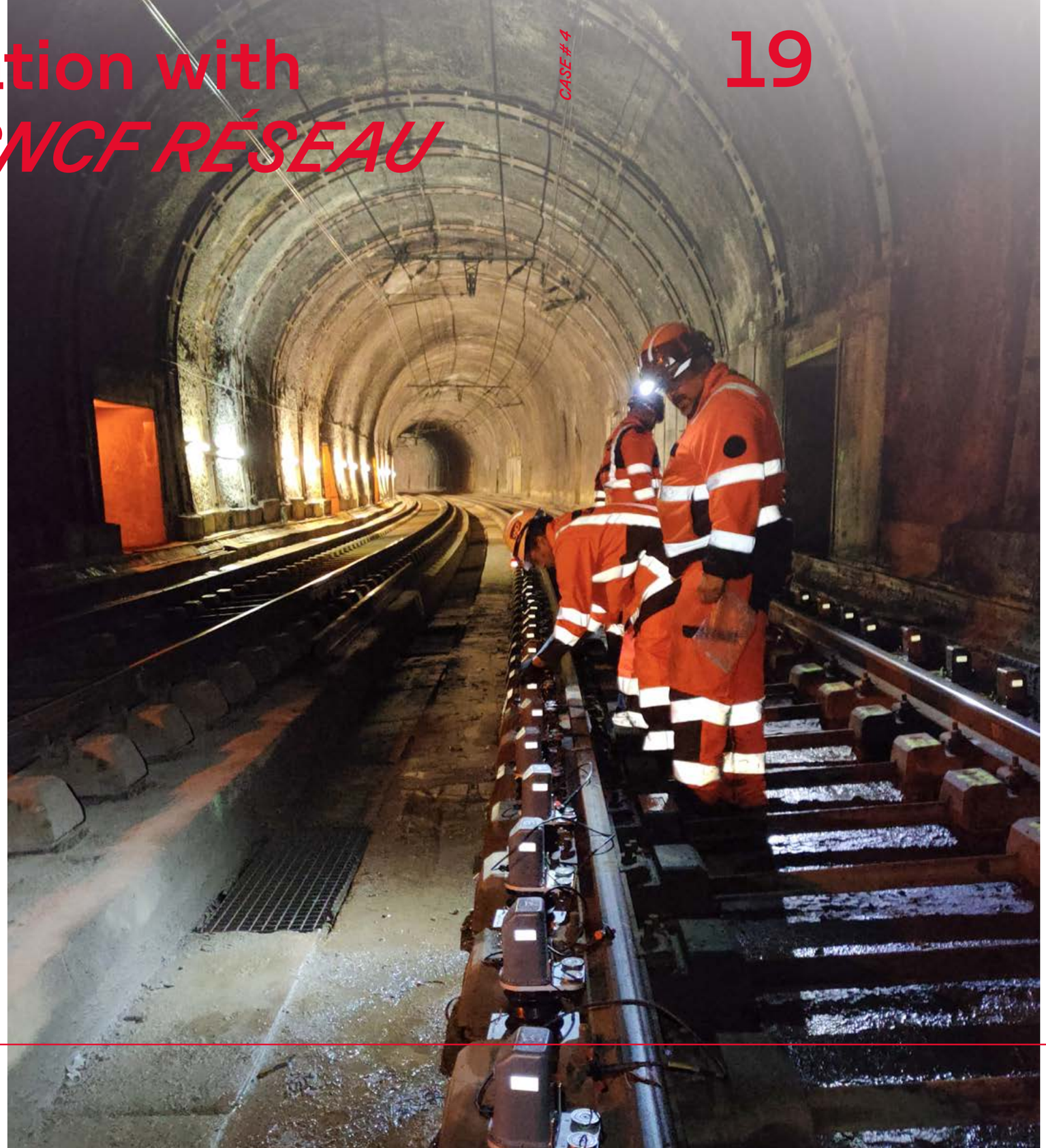
Kazakhstan

READ MORE ABOUT THE PROJECT →

Collaboration with *RATP & SNCF RÉSEAU*

CASE # 4

19



↑ Since the end of 2019, ***Sisgeo*** has been a member of the Rail Open Lab, the platform for co-development and open innovation of the French railway sector set up and managed by SNCF Réseau, FIF, SERCE and RATP.
After testing several prototypes for months, the measurement method, sensor technology and mechanical designs have been selected and all parameters have been fine tuned.

READ MORE ABOUT THE PROJECT ←

ACTIVITIES

- **SNCF Réseau & *Sisgeo* started to collaborate in developing innovative IoT solutions for the railway infrastructure monitoring. The first result of this collaboration is the FLX-Rail®, specially developed for the railway swing monitoring, automatically and continuously measures the maximum vertical deformation of the rail at each passage of a train.**

↓ The Ouldjet Mellègue dam is a Roller-Compacted Concrete Gravity Dam, located in northeastern Algeria about 13 km upstream of the city of Ouenza, in the Tébessa region.

ACTIVITIES

- **Supply and installation of a complete instrumentation system for the geotechnical and structural monitoring of the structure and surrounding soil.**
- **Training of local ANBT technical staff (Agence National Barrage et Transfer) for system maintenance.**

OULDJET MELLEGUE DAM

Algeria

READ MORE ABOUT THE PROJECT →

ROME METRO
Line C - Italy

ACTIVITIES

- ***Sisgeo*** **has supplied thousands of instruments and a large number of data loggers for the monitoring of tunnels, stations, buildings and artistic heritages.**

↑ The new Line C has been excavated under the most well-known historical buildings and artistic heritages of Rome such as the Colosseum, the Temple of Venus and Roma and the Basilica of Maxentius.

READ MORE ABOUT THE PROJECT ←

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