

# Instrumentation and Monitoring

Structural and geotechnical safety monitoring of structures and infrastructures both during construction and 'in service' involves the continuous, real-time measurement and control of geotechnical and structural parameters in any kind of structure or foundation.



## THE Applus+ SOLUTION

Applus+ helps its clients to minimise their risks with round-the-clock monitoring performed by highly skilled technicians. We ensure the safety of any works in accordance with the project specifications:

- Designing instrumentation
- Supplying equipment
- Installing equipment
- Taking readings and carrying out maintenance work
- We use our own, bespoke monitoring technology called SIGTUN (a geographical information system) to control for deformations, settlements, forces, movements, etc. SIGTUN shows the field monitoring of a project, using digitalised cartography (UTM coordinates) and the location of every single instrumentation device.

## Target customers

Applus+ works with construction companies and both public and private infrastructure owners in the continuous measurement and monitoring of all risky parameters related to structural or geotechnical stability, for example in:

- Tunnel monitoring
- Under-track crossings
- Track subsidence
- Landslips and embankment failures
- Viaducts, overbridges and abutments

## Key customer benefits

The Applus+ instrumentation and monitoring service helps our clients to minimise risks both during the construction process and also during the 'in service' life of their infrastructure.

All phases of the project are carried out by a single provider: APPLUS+.

With our project-management capabilities, our clients will realise cost savings.