

# Geotechnical Instrumentation and Monitoring

Applus+ can deliver structural and geotechnical safety monitoring during the construction phase and in-service lifetime. Our structure and infrastructure monitoring services include the continuous, real-time measurement and control of geotechnical and structural parameters on any type of structure or foundation.



## THE Applus+ SOLUTION

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

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

## Target customers

Applus+ supplies our geotechnical and instrumentation services to the civil engineering sector and to both public and private infrastructure owners and construction companies.

Our advanced geotechnical monitoring and instrumentation can continuously measure and monitor all high-risk parameters related to structural or geotechnical stability in civil engineering projects, for example in:

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

## Key customer benefits

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

Applus+ can act as a geotechnical single provider across the whole of a construction project, and our project-management capabilities assist clients to realise cost savings.