

# Bridge Inspection and Road Construction Surveying

Bridge inspection and road construction surveying is a critical part of providing high-quality information during the design stage of construction to safeguard the long-term reliability of these infrastructures. Road and bridge infrastructure inspection can also provide inventories of road and bridge conditions to assist in road asset management and maintenance, thereby maximise the efficiency of work crews and budgets.



## THE Applus+ SOLUTION

The teams of geophysicists at Applus+ characterise roadways and bridges by deploying ground-penetrating radar (GPR) and falling weight deflectometer (FWD). The use of GPR in infrastructure inspection allows data to be collected while travelling at high speeds and rapidly interpreted. For survey data processing, our team of geophysics specialists employ state-of-the-art GPR processing and 3D visualisation software to provide and evaluate trusted GPR survey solutions.

Our extensive network of offices, all around the world, mean that we can serve clients at short notice, wherever they are based.

## Target customers

Bridge inspection and road construction surveying are of great relevance to national and /or regional public authorities responsible for highway asset management. Infrastructure inspection can be used in both the design and the maintenance phases of an asset's life-cycle. Inspections are also performed while the roadway is in operation either to monitor quality or to determine engineering parameters.

## Key customer benefits

The services in bridge inspection and road construction surveying at Applus+ offer the following benefits :

- A greater understanding of design parameters
- A simple and effective quality-control mechanism
- Proactive condition assessments, thereby preventing emergency shutdowns
- Cost savings by being able to target work crews and budgets where they are needed most