



# Construction

ITS Geo Solutions | Mobile surveying and mapping

## Construction goes digital: High accuracy mobile surveying and mapping

ITS Geo Solutions is a German company specialized in mobile applications for surveying by means of Augmented Reality. With its GeoAce application, digital documenting of construction projects can be performed within minutes using a mobile device and a handheld GNSS-receiver.

### The Challenge

In large construction projects, keeping an accurate documentation of the site's progress and final results can be challenging and costly. This is especially true for large scale deployments of critical infrastructure, such as Deutsche Telekom's fiber optic cable rollout in Germany. But failing to capture accurate documentation can have severe consequences, from delayed projects and inaccurate invoices to damaged infrastructure due to lack of detailed map data.

### The Solution

GeoAce from ITS Geo Solutions is an easy-to-use surveying software for both surveyors and non-specialized users, to accurately collect geospatial data or locate (stakeout) such data on-site. GeoAce turns a smartphone or tablet into a surveying system with centimeter precision, without the

need to use expensive surveying equipment. Combined with a handheld GNSS receiver, GeoAce is used in Deutsche Telekom's solution Digital Construction Monitoring to make documentation easier, faster and more accurate.

The solution uses the highly accurate Precise Positioning service Skylark from Telekom and Swift Navigation to make high-precision GNSS measurements available anywhere in Germany within a few seconds.

### The Customer Benefit

With Digital Construction Monitoring, construction crews now have a tool to create accurate measurements and maps within minutes with easy-to-use mobile tools. The results are ready to use drawings in PDF and standard CAD & GIS formats, ready to be processed for automated invoicing, progress reporting, and reliable documentation of critical infrastructure.



It was never easier and more affordable to get positions accurate to the centimeter within a few seconds everywhere in Germany. Thanks to Precise Positioning from Deutsche Telekom and Swift Navigation!

Erik Schütz, Managing Director ITS Geo Solutions GmbH

