

Case Study

Customer:

Skanska

Project:

Searching for a reliable correction service

Solution:

Trimble VRS Now Site License for Construction



- we've had no problems at all and it really has been 99.9% reliable. This site is 100km long which means that using a traditional base station network we would have had to purchase up to ten base stations and finance their maintenance. As it is, with Trimble VRS Now, the package is supplied and managed by KOREC for any number of users on the project. This includes visiting

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Mark Lawton,
Skanska

contractors with their own manufacturer's GPS units. All users can employ the service as much as they want, wherever they want, day and night, 7 days a week. It really is a maintenance free solution."

So after four years, what do Skanska think now?

We next caught up with Skanska in 2014 on the M1 junction improvement scheme near Catthorpe in Leicestershire. Skanska has a strong ethos of adopting new technology and on this project Mark introduced the newly released Trimble R10 GNSS to use alongside Skanska's existing GNSS survey technology, all in conjunction with Trimble VRS Now. Operating a strict 'check-in, check-out' policy for all survey equipment, Mark ensured that the engineers measured the same point, morning and evening, to make certain that everything was within tolerance. Thanks to this approach, Mark had daily confirmation of the consistency of the Trimble VRS Now service and reported that there had been no problems whatsoever apart from occasional downtime for essential maintenance, which was under taking normally outside of working pattern.

...and after seven years?

Fast forward to 2017 and to a new road project, this time a /Skanska / Costain Balfour Beatty/Carillion JV delivering the £1.5bn A14 Cambridge. The VRS Now license has been ported over to the new site for use with Skanska's 20+ Trimble GNSS receivers. Mark reports that the VRS Now is



Skanska's Trimble VRS Now journey, seven years on

Under the guidance of Chief Engineering Surveyor, Mark Lawton, Skanska has been using Trimble VRS Now for over seven years and was one of our earliest users. Throughout that period, Mark reports that it has proved its reliability on all the road schemes it's been used on.

Surveyors and engineers want reliable data. They also want to maximise their time on site. When these basic requirements are compromised, businesses will take fast and efficient measures to rectify any issues that could affect hard won and carefully nurtured customer relationships. Because of this, we know that when a KOREC customer renews their Trimble VRS Now license with us, they have taken an active decision based purely on the quality of the correction service that they have received. Often these customers have had experience of services provided elsewhere before subscribing to VRS Now and their repeat subscriptions reinforce what we believe about Trimble VRS Now – it is the most reliable service out there!

Another of our Trimble VRS Now 'catch up' stories revisits Skanska, one of our longest term users of a VRS Now site license.

It was back in 2010 that we announced the Skanska Balfour Beatty JV adoption of Trimble VRS Now for the 100km+ M25 road widening scheme.

This license provided coverage for the entire job through a customized 'polygon' of the area which also included all slip roads. Chief Engineering Surveyor Mark Lawton attributed the original decision to a number of factors. "This is a high profile contract and the perfect showcase for exploring new technology to enhance quality, production and safety issues. Our decision to go with Trimble VRS Now was based on end user feedback – a simple evaluation process that entailed users (mainly land surveyors and engineers) trialling similar packages and completing a comparative questionnaire. Everyone reported back that with the Trimble solution there was minimal loss of connection and repeatability of known point data. These findings have been justified every day since

...continued

as reliable as ever. "We have continued to use Trimble VRS due to the continuous connection time and stability in the service. The option to port over an ongoing "site wide licence" ensures that a project that is coming to an end and a project that is starting, gets the best value without interruption in the licence provision. We use VRS to establish our site. Once the site is established, we switch to radio communications with VRS being the backup. As we near the end of a project, we remove the radio option and return to using VRS Now as the whole solution."



"The reliability, continuous connection and stability of Trimble VRS Now delivers confidence on the construction site, confidence turns into less rework, less rework turns into greater profitability.

Skanska are proving, once again, that not all correction services are the same "

**Andy Beckerson, Director of Business Development,
KOREC Group**

VRS Now fact box:

- Availability: Unites States, Europe and Australia
- High Accuracy: Provides < 2 cm (1") accuracy*
- Ideal for industries needing high precision including survey and construction, mapping and GIS, cadastral, utilities, transportation and areas having good cellular coverage
- Instant Initialization: Start working immediately under optimal conditions**
- Multi-constellation support: GPS and GLONASS enabled
- More uptime: Built-in redundancy to ensure connectivity, consistency and quality
- No base station required: No need to worry about losing radio signal reception since a base station is not needed for Trimble VRS Now based correction services
- Ease of Use: Online self-service portal to activate subscriptions.



** All horizontal accuracy specifications are based on in-field performance 95% of the time.*

*** Receiver initialization time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees.*



Initialization Time*

Service

Horizontal Accuracy**

Instant

VRS NOW™

2 cm / 1"

Contact us:

Please do get in touch for further information on any of the products or services mentioned in this case study, a demonstration, support or just a chat about your requirements.

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