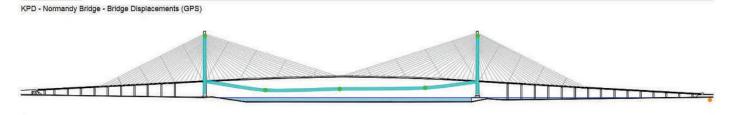
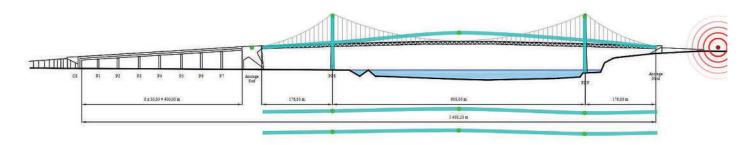
A BRIDGE BETWEEN SYSTEMS

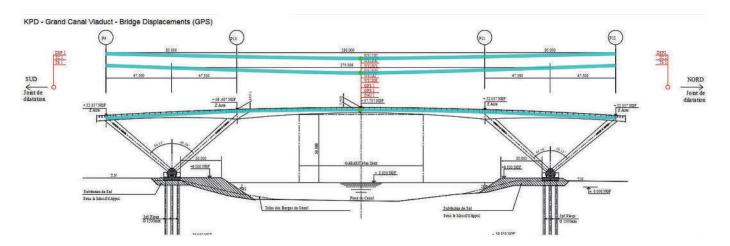
TO MANAGE THE VAST AMOUNTS OF DATA THAT NEEDED TO BE COLLECTED AT THREE ICONIC BRIDGES IN FRANCE TO MONITOR THEIR STRUCTURAL HEALTH, DIFFERENT HARDWARE AND SOFTWARE NEEDED TO BE COMBINED. GEOCONNEXION INTERNATIONAL REPORTS ON THE INTEGRATION PROJECT AND HOW THE SYSTEM WORKS IN PRACTICE





KPD - Tancarville Bridge - Bridge Displacements (GPS)





Dealing with scale

"The span of the bridges means there's a huge area to measure and monitor," says Simon Crowhen, national sales manager for Topcon Positioning. "And to do that accurately requires numerous positions to be measured simultaneously. For that reason, we recommended a GPS-led system as opposed to total stations. A total station needs to have a line of sight to the prisms and require a routine of measuring, whereas with GPS, the antenna just needs a view of the sky to give a constant position, plus you can measure numerous rovers at the same time."

As well as consulting on the most effective GNSS technology for the three Normandy bridges, Topcon also worked with JFTS to integrate its equipment into the BridgeWatch system. "Combined, our hardware and JFTS' software takes 145 million individual data points per hour across 15 DAUs and turns it into meaningful and powerful insights for CCISE," adds Simon. "The JFTS system is very visual in its presentation so it's easy for the client to identify bridge movement and any points for concern. It's a huge step up from their previous system."



Following a short one-month installation period, the system went live in September 2019, much to the delight of CCISE.

"This is a pioneering system unlike any other in France," says Clément Fasquel, director at CCISE. "The system is a joy to use, adds so much value to our bridges, and beyond that, Topcon and JFTS were impeccable to work with. They were incredibly supportive and answered all our questions and challenges along the way. We look forward to building a long-term partnership with them."



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