CASE STUDY

Sea Wall Monitoring in Dover

CLIENT: NETWORK RAIL/COSTAIN

THE CHALLENGE
Following dramatic damage to the Dover Sea Wall, protecting the railway immediately below the cliffs, Costain urgently required monitoring of the wall whilst piling repairs and reconstruction took place, over some 750m. This involved removing the track and excavating behind the wall.

Once the wall was reinstated it was then necessary to monitor the newly laid track to ensure that it was stable and remained within operational guidelines for track geometry and stability.

OUR SOLUTION
Based upon several successful deployments elsewhere for Network Rail, Costain approached Senceive to provide its high precision wireless tilt sensors as a monitoring solution. These had the advantage of swift and easy installation, and a reputation for robustness and reliability in demanding environments, and this was a particularly challenging site. Senceive initially supplied 178 nodes which were directly mounted to the wall using sacrificial mounting plates directly glued to the surface.

Once the remedial works were completed, and the trackbed and track had been reinstated, the nodes were redeployed onto the rail sleepers, with additional nodes supplied to provide sufficient monitoring coverage.

THE OUTCOME
Data was relayed back via the FlatMesh wireless GSM/GPRS gateway, providing a totally wire and external power free solution.

Senceive successfully delivered the solution to the tight timeframes required, and also provided support for the redeployment of the system at the key transitional stages of the project. Data from the system was provided throughout the project via Senceive’s web based WebMonitor system. The wireless monitoring solution proved its ease of installation and redeployment and its reliability. It was a key enabler of successful and timely project completion.

CONTACT US
For information on FlatMesh - our award-winning wireless asset condition monitoring solution, call: +44(0)20 7731 8269 email: info@senceive.com visit: senceive.com

©2017 Senceive Ltd. Hurlingham Studios, Raleigh Gardens, London SW6 3PA