

TRACK BED MONITORING

CLIENT: CARILLION | LONDON UNDERGROUND | **PADDINGTON**



THE CHALLENGE

As a result of nearby excavation work, engineers were concerned about potential subsidence and tilt on one section of the London Underground Hammersmith and City line at Paddington Station. The consulting engineers wanted to monitor and measure a section of track bed for a short period of time and preferred an easy to deploy, cost effective system of tilt sensors, which could also be readily removed afterwards.

OUR SOLUTION

A number of standard integrated FlatMesh tilt sensors were deployed along the section of track and affixed to the sleepers. Data was relayed back to a local laptop PC in an on-site office several 100 meters away. Data was monitored and viewed using the Senceive Webmonitor software.

THE OUTCOME

The sensors were installed for circa three months and provided invaluable data on the movement of the track bed which allowed the contractors to continue excavation whilst ensuring there was no consequential impact on the track geometry.

