NetworkRail

Pioneers Welcome

Empowering you to transform our industry

Research and Development
Innovation is in our nature

Rail sensor technology trials at RIDC Melton

Insight from multiple rail sensor data feeds brings focus to problems before they delay passengers and freight

Impact

Repurposing technology from other industries is a faster and cheaper route to realise a greater breadth and depth of infrastructure data, putting us in a better place to detect a variety of problems.

Where we are now

Technology specialists, from small to large enterprises, have used RIDC Melton to trial a range of communications-based sensing technologies with support from Network Rail.

Where next?

More extensive trial deployments of wireless internet of things (IoT) and optical fibre acoustic sensing will deliver a rich flow of live data. This will enable further innovation, potentially leading to new ways of working for the railway, underpinning improved performance.

"It has been a pleasure working with the highly knowledgeable people at Network Rail as we trialled our IoT sensing technology solutions on the railway. Network Rail installed our LoRaWAN gateways and sensors and we've worked together to explore sensor reliability, maximising battery life and how data can be used for insight in a variety of use cases impacting rail infrastructure operations."

Mike van Bunnens, Managing Director, Comms365