



Condition Monitoring

One Big Circle

AIVR by One Big Circle: Delivering Your Railway Insight

One Big Circle is a UK rail technology company and the creator of AIVR® – Automated Intelligent Video Review – a multi-award-winning end-to-end railway monitoring platform that is changing the way the industry monitors infrastructure, improves operational performance, and delivers safer, more reliable railways.

Founded in 2017, One Big Circle designs and manufactures AIVR® in-house, combining hardware engineering, software development and deep railway domain expertise within a single team – working closely with customers to develop technology that solves real operational challenges.

AIVR® is an integrated system combining bespoke video, sensor and laser data capture with cloud infrastructure and advanced AI-powered analytics – all accessible through a smart, easy-to-use online platform that also integrates other data sources. Captured data is time and location-stamped, providing a precise, evidential record of network condition that can be reviewed remotely, annotated using built-in digital tools and exported for reporting, analysis and integration with wider asset management workflows.

Together, these capabilities span every railway discipline – from track and infrastructure condition monitoring to overhead line inspection, conductor rail health, lineside structures and signalling sightlines. Experts can monitor the complete rail environment remotely and



safely, giving infrastructure owners, train operators and maintenance teams the insight they need to move from reactive to preventative maintenance.

One Big Circle works in close partnership with organisations including Network Rail, Transport for Wales, Siemens and South Western Railway, and AIVR® has been deployed internationally across North America, Europe and Australia, strengthened by a strategic partnership with Loram Maintenance of Way.

Visit One Big Circle at InnoTrans 2026 (Hall 2.2, Stand 560H) to see AIVR® in action, and discover how the innovative end-to-end technology is delivering railway insight.

[Learn more on our website.](#)

One Big Circle

7-9 Temple Studios, Temple Gate
Bristol, BS1 6QA, UK

anna.coates@onebigcircle.co.uk

Tel: 0845 838 7178





500+ devices
deployed globally



Delivering Your Railway Insight



£70M+
saved annually

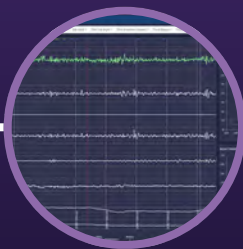
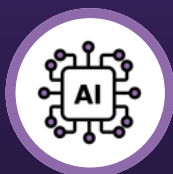


50K+ km
of track monitored globally

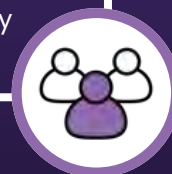
4M+ hours
saved annually



100K+ issues
identified & alerted



13K+ users
globally



OneBigCircle
Hall 2.2, Stand 560H