



Category: Best use of innovation in Construction of Local Infrastructure

MHA+ member name

Cheshire East Council

Supporting organisation(s)

Ringway Jacobs, Cheshire East Highways

Summary

Ringway Jacobs / Cheshire East Highways embedded AI-enabled video analytics into routine highway operations, converting everyday inspections into a continuous source of road condition intelligence. Using Vaisala RoadAI and existing mobile devices, video data is captured, analysed in the cloud and integrated directly into asset management systems, replacing infrequent survey snapshots with real-time, network-wide insight to support proactive, evidence-led asset management. The innovation delivers faster, safer and more cost-effective asset intelligence. Data is available within 24 hours, enabling early intervention and better lifecycle decisions. Survey costs have reduced by up to 40%, traffic management and carbon emissions are significantly lower, and staff exposure to live-traffic risk is reduced. Improved data quality supports risk-based prioritisation, greater value for money and increased network resilience. This initiative demonstrates innovation with clear, measurable impact. It fundamentally changes how highway assets are managed, delivering safer operations, lower carbon outcomes and significant financial savings while aligning with emerging PAS 2161 standards. Executive-led, scalable and replicable, it provides a proven blueprint for modern, data-driven public sector asset management with real benefits for road users and communities.