Category: Best use of technology to reduce cost/enhance productivity - SHORTLISTED

MHA+ member name

Galliford Try Infrastructure

other partners involved in the development of this product/project/nomination

Leicestershire County Council, Britons Fabricators

Summary

The MMDR Project delivered 7.5km of new carriageway and four bridges, including two complex, pre-cambered steel structures. To minimise installation risk and avoid costly rework, we adopted a digital workflow using laser scanning and survey technology. Each beam was scanned at the fabrication site with a Leica MS60, processed in Leica Cyclone 3DR, and compared against the 3D design model to perform detailed deviation analysis. This allowed us to detect alignment issues and potential clashes—such as undersized bearing pockets—before delivery, enabling early interventions without delaying the programme. Heatmap reports were shared via Trimble Connect, supporting collaborative decision-making and eliminating the need for late-stage corrections. In the absence of 3D consultant models, we built simplified geometry from 2D PDFs to complete clash detection. This approach reduced error, avoided expensive on-site modifications, and ensured installation proceeded efficiently. The result: fewer risks, lower costs, and greater productivity.