



Category: Best use of innovation in local transport

MHA+ member name

AECOM (developer of RouteInsight).

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

Sandwell Borough Council

AECOM is the developer of RouteInsight, its rapid corridor width assessment tool. AECOM provides highways and transportation design services to MHA+ member authorities and developed RouteInsight in-house to speed up early-stage feasibility and optioneering. The tool has been applied for Sandwell Metropolitan Borough Council to assess around 870 km of highway and identify corridors suitable for cycling infrastructure.

Summary

RouteInsight is AECOM's rapid corridor and network width assessment tool. It automates the measurement of available highway width, generating high-frequency cross-sections, at an adjustable interval defaulting to 2 m, across pre-defined routes and whole highway networks. It measures carriageway, footway and verge separately, then classifies available width against the requirements of a proposed cross-section, such as a segregated cycle track or bus priority lane. Outputs are colour-coded plans that are easy to interpret at a glance, with the styling tailored to the story the data needs to tell, for example a red, amber, green rating against available width. These are delivered alongside interactive WebGIS layers that technical and non-technical stakeholders can interrogate, and structured data for onward analysis. Traditional corridor review relies on manual measurement at sparse intervals, which is slow, inconsistent and prone to missing local constraints. RouteInsight replaces this with a rapid, repeatable, evidence-led workflow. It has been applied for Sandwell Metropolitan Borough Council across around 870 km of highway to identify corridors suitable for cycling infrastructure, and proven at programme scale elsewhere, including over 200 km of routes for the Department for Infrastructure in Northern Ireland.