

MHA+ Technology Awards Shortlisted : Best use in Maintenance & Asset Management

Executive Summary: Pre-emptive Traffic Management System Aecom and Herefordshire County Council

Development of a novel, intelligent traffic management tool that provides a real-time overview and traffic management throughout the Derbyshire region without reliance on roadside infrastructure by using floating vehicle data as the primary input.

The system auto-generates interventions to manage the flow of traffic in response to the real-time state of the road network and publishes those interventions for display on static and mobile VMSs, and directly to in-vehicle information systems.

A configurable and accessible rule set determines the appropriate response to changes in traffic conditions i.e. a set of varied driver messages at different locations in a coordinated response that influences the flow of traffic through the network at a strategic level.

Developed for Derbyshire County Council, the system is now operational and providing state-of-the-art traffic management capability with upgrades in development that will enable traffic states to be predicted, and regional air quality issues to be managed.