

Case Study

Journey Time Monitoring through roadworks

Background

BMV, a joint venture between BAM Nuttall, Morgan Sindall and VolkerFitzpatrick, has been carrying out major concrete repair and waterproofing work on the M5 Oldbury viaduct, between junctions 1 and 3 near West Bromwich since April 2017.

In April 2019, Highways England (HE) asked for information about the average speed of vehicles travelling through the 30mph enforced roadworks. The speed information was to be gathered for a week and the equipment to collect the information needed to be deployed quickly as the results were needed ahead of an important meeting.

Key Benefits

- Very cost-effective solution for operators as you only pay for the duration and routes required
- Set up and monitoring traffic flow within hours as no need to procure, deliver and install roadside detection and monitoring equipment
- Continuous provision of reliable data that is not subject to weather, power, or communication failures
- Increased safety for roadworkers and customers as no equipment is installed within the roadworks, which could be a hazard to workers or customers
- Flexible reporting within the application means traffic flow can be reported as journey times or average speeds, providing the customer valuable information when travelling through roadworks

Initially, BMV was considering the use of traditional radar units, which included trailer mounted and lamp column mounted equipment, until they became aware of Clearview's Insight@ Journey Time Monitoring application.

Solution

The Insight Journey Time Monitoring application uses crowdsourced data to provide accurate and reliable journey times and average speed information. When the solution was outlined in a discussion with BMV and HE, it quickly became apparent this application could provide all the information needed and it was far more efficient and safe than the alternatives mentioned above.

Unlike radar-based systems, this solution requires zero roadside infrastructure and traffic management. This means it can be up and running incredibly quickly; reduces the risks to roadworkers and negates the costs of deploying hardware at the side of the road. There are further safety benefits as there is no equipment within the roadworks, which could be a hazard to roadworkers or customers.

Clearview offers a range of flexible subscription packages based on the duration and routes to be monitored, which in this case meant BMV only had to pay for one week of data.

The Insight Journey Time Monitoring software has extensive reporting capabilities as standard that facilitate both live network monitoring and historical analysis. The software can send out alerts to notify active users of issues on the network, meaning they can respond quickly where needed.

BMV and HE were delighted with the results and BMV has shared this application with its parent company projects as a best practice approach for monitoring traffic flow through roadworks.

"The Journey Time Monitoring application supplied by Clearview was the ideal solution to provide accurate and reliable journey times and average speed information through our roadworks. Not needing to deploy infrastructure saved us time, money and we didn't have to expose anybody by using TM or infrastructure, yet the quality of the journey time data was just as good as other systems we have used in the past. We now recommend this as best practice for monitoring journey times and average speed through roadworks."

Nigel Fullam, Project Director, BMV Joint Venture