







Network Resilience Live Lab



What is it?

Transport for West Midlands (TfWM), together with its partners including Birmingham City Council and Solihull Metropolitan Borough Council, is running a pilot to explore how applying innovative data analytics along key roads in the West Midlands can help to reduce congestion.

Utilising TMWM's CCTV Control Centre and applying data analytics technology to video data from the highway, the project will learn from common car journeys in the West Midlands. Working with existing in-car applications, and utilising the latest advancements in video technology, TRWM will be able to track point to point car journeys 24 hours a day to enable an early warning system for congestion, based on patterns of behaviour.

To do this, video data will be captured along some of the West Midlands' busiest roads, including:

- Routes directly impacted by Birmingham 2022 Commonwealth Games infrastructure
- Routes where new Sprint bus rapid transit and Metro routes will be introduced
- Major routes in and out of Birmingham city centre; and
- Connected and Autonomous Vehicle (CAV) test bed routes

The Network Resilience Live Lab will also contribute to developing the operation capability of a Regional Transport Coordination Centre (RTCC) and its evolution through innovation.

How will it help the West Midlands?

If the pilot is successful, the anticipated long-term benefits will be better car journeys, improved health through reduced congestion and personalised travel planning through learned patterns of travel behaviour.

enefits of long-term

- Reduced congestion
- Improved air quality
- Support inclusive growth
- in the West Midlands
- Personalised travel planning
- Improved health
- Behavioural insight

- Fixed asset operations
- Data and testing
- Development of granular personas
- Learning and feedback loops

To maximise the benefits of our exciting innovation programme in the West Midlands, have also identified cross-cutting synergies and/ or interdependencies with the followi projects that are being delivered in the timescale of the Live Lab: Future Mobility Zone, Regional Transport Coordination Centre, West Midlands' Data Discovery Centre.

Phase 1: May 2019-October 2019

- Form project board and working
- Recruit project team
- Detailed design and commission
- works
- · Secure permits, licences and
- Capture and store analytics data

Phase 2: November 2019-April 2020

- Continued implementation of fixed asset operations Continued capture and storage of analytics data
- Compare data collection methods Visualise and utilise
- Qualitative research and stakeholder engagement co-creation of solutions

Phase 3: May 2020-October 2020

• Testing and refining proof of Develop granular personas

· Early knowledge-sharing

- Main knowledge-sharing phase
 - · Winding up and reporting

Phase 4: November

Expected outputs

- Tools to give local authorities operational and legal confidence in using raw feed data
- Model agreements for local authorities to purchase data and gain advice from app providers
- A granular persona framework to inform marketing campaigns and better target behaviour change messaging
- Model privacy agreements

Get in touch

To find out more please contact Deborah Fox FCILT, Project Sponsor **deborah.fox@tfwm.org.uk**











2020-March 2021 Business case development

