Customer Stories
Tyne and Wear UTMC

Successful implementation of ANPR Journey Time Management System

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PROJECT

Client: Tyne and Wear UTMC

Location: North East Region of England

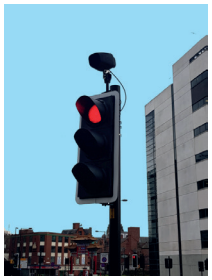
Year of installation: 2013 on onwards

EVO8 device: Currently 258 cameras installed

OVERVIEW

Key Purpose:
- Reducing Travel Times
- Keeping public fully informed
- Improving air quality for public
- Encouraging visitors into the Region

Data From:
- 200+ CCTV Cameras
- 300+ Traffic Signals
- 250+ ANPR Cameras
- Weather Stations
- Air Quality Sensors
- Street works databases.
- National & neighbouring systems.



One of the 258 EVO8 cameras installed in Newcastle.

Involvement:
- Gateshead Council
- Newcastle City Council
- South Tyneside Council
- Sunderland City Council
- Durham UTMC
- Northumbria Police
- Regional Bus Operators
- Tyne & Wear Metro
- Private enterprise (Metrocentre etc.)

SOLUTION

Taking data from multiple sources, and using advanced techniques the Transport North East UTMC facility are able to implement a number of strategies, many of which are fully automated, to achieve the key aims of reducing travel times, improving air quality and keeping the public fully informed in order to encourage visitors to the Region. Strategies include:

Using ANPR Journey Time Data

- Utilised to trigger automated traffic signal strategies to ease congested routes.
- Individual Bus Fleet journey times calculated with adjustment of traffic signals to assist bus routes with running to schedule.
- Journey time information reported on social media
- Journey time information reported on Variable Message Signs (VMS).

Using Traffic Signal Loop Data

- Alert operators to congestion
- Alerts via social media
- Set VMS to warn of congestion
- Automated Traffic signal control strategies (extending green run at congested locations etc.).

Using Car Park Data

- Alert operators to abnormal usage
- Provide social media information
- Vehicle counts collected to inform public of space availability
- Set VMS to provide travel time and spaces information
- Automated traffic signal control strategies to empty car parks at peak times.

Using Air Quality Data

- Alert operators
- Automated traffic signal control strategies to clear areas
- Combined with weather and traffic data to predict future air quality levels.

RESULT

Despite a 2% increase in traffic, analysis of results across 100 km of routes show:

- 4.9% reduction in peak hour delays
- 13.5% reduction in journey time variability
- 2% reduction in average journey times

ANPR PRODUCT USED

CitySync 50T ANPR Camera
EVO8 ANPR Camera System
CORTEX JTMS Instation
CATALYST Analysis Instation

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