

iVMS, Coventry





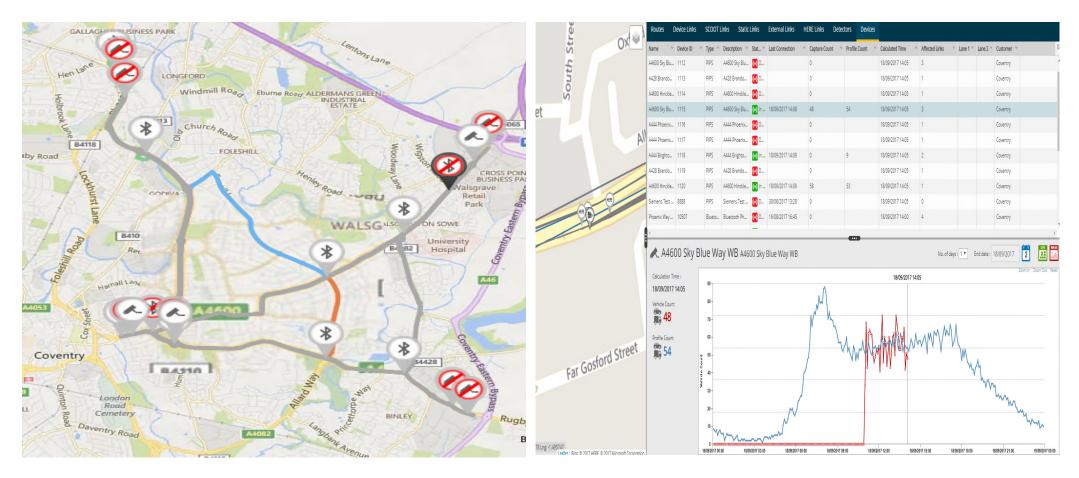


- What is iVMS?
- Project Requirements
- Challenges
- Solution
- Result Measurement & Future Development

What is iVMS?







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Project Requirements





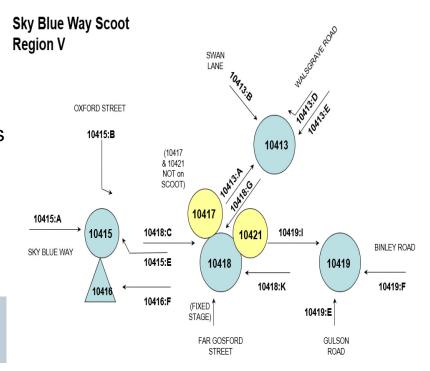
Minimise Impact on Journey Times

Review and revalidate any existing adaptive control strategies

Congestion Prediction

 Develop and implement a method of predicting unusual flows and levels of congestion entering the network

We want the system to be aware of potential problems on the network before we do



Challenges





Close to capacity

Many of the sites on the three critical routes are close to capacity, and become quickly congested during peak times

Limited adaptive control methods

Many of the sites on the critical routes use nonreactive control methods. Manual intervention is sometimes required during periods of very heavy congestion

Financial Constraints

Limited project budget for upgrades / improvements of existing sites



Solutions

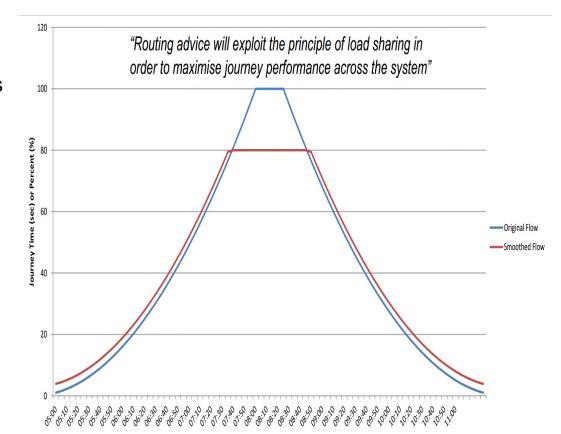




- Strategy based plan and dataset triggering
- Minimise Impact on Journey Times
 - Specific SCOOT / UTC plans and MOVA datasets written for high congestion levels

Congestion Prediction

- Upstream detection
 - Installed at strategic locations
 - Overhead detectors used
 - Reduced installation and maintenance costs
 - Minimal disruption during installation and maintenance
 - Retrofitted with limited works to most sites
 - Mobile



Project Status and Result Measurement





Installation

Street works complete

Control and Strategy

- Collecting baseline data
- Strategies currently in development

Result Measurement

- Innovation project no direct comparisons
- Testing difficult, short of using real world scenarios
- ANPR and Bluetooth data used for JTM

Future developments

The results are (almost) in.

Questions







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