
Connected Intelligent Transport Systems

Research Project Update



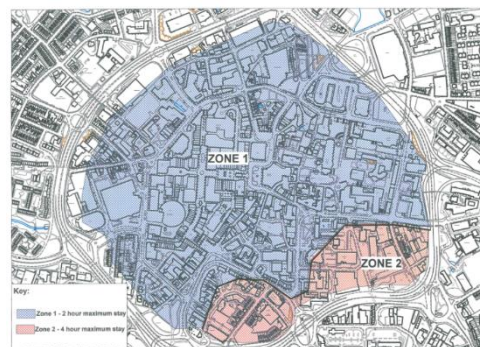
Project Title

Real-Time Bay Sensor System

Project Overview

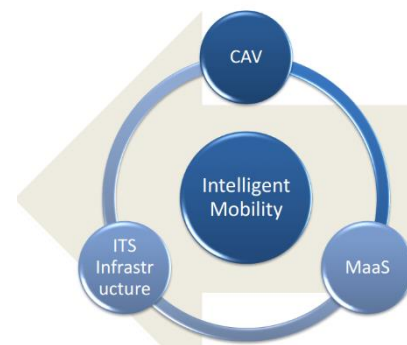
Managing **Coventry's** transport strategy continues to be a challenge as the growing population increases demands on **parking infrastructure**.

Appy Parking's RTA system has the potential to address the complete end-to-end mobility process benefiting motorists, the council and citizens.



Objectives

- Install a real-time bay availability (RTA) system across all of Coventry's P&D / EV bays. Extend upon existing trials in the city.
- Impacts: reduced congestion/pollution; increasing positive parking payments, encouraging the use of EV's, increasing revenue.
- Allows vehicles to communicate with the infrastructure, enabling multiple advancements, testing of automated vehicles etc.
- Evaluated on a) occupancy optimisation and b) enforcement optimisation.

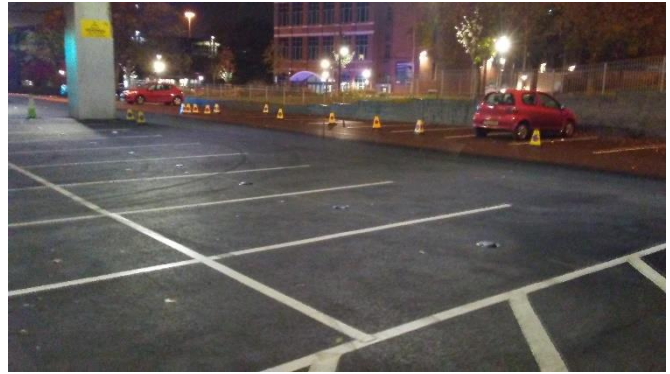


Milestones

- Investigation, Design and Scoping / Standardise Data – March-April 2017
 - Hardware Installation / Sensor Plan – May-July 2017
 - System Configuration, Testing and Go-Live – July-August 2017
 - Exposing & Integration with External Systems – September 2017 onwards
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Progress to Date

- Sensors installed on-street and configured
- Data collected from sensors, parking payment data and PCN data
- Data helping to evaluate average occupancy rates, load sharing between bays/streets, number of overstay, durations, and comparison of payment data between two years.
- Through the use of occupancy data it is anticipated that the proportion of PCNs issued for contraventions will increase.
- Working with JLR on collaborative parking demonstrating off-street parking.



Deliverables

- Progress reports
- Phase 1 Planning
- Phase 2 Installation
- Upcoming actions: consideration of faulty sensors and analytics, installation of second base station, payment integration, preparation of final DfT C-ITS report include lessons learned, challenges overcome, enhancements to original scope, progress opportunity for deployment of BLE sensors across the black country / Wolverhampton under West Midlands Combined Authority.



Partners



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