

CASPAR – The friendly parking project – DfT C-ITS Update



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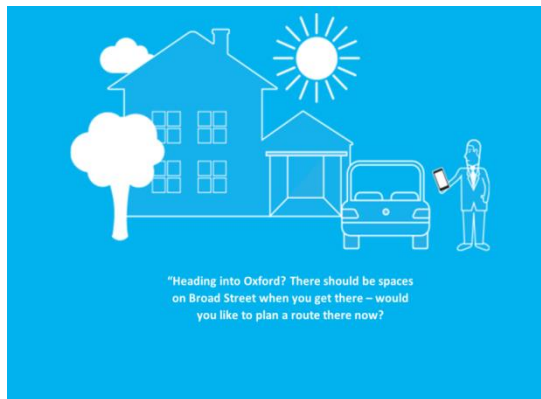


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Project overview

The key aim of the project is to simplify journeys in Oxfordshire, by guiding drivers to available parking spaces using real-time information. The key demographic focus of the project are vulnerable road users. There are circa 35,000 blue badge holders within 45 minutes' drive of Oxford with just 100 dedicated blue badge parking spaces.



Objectives

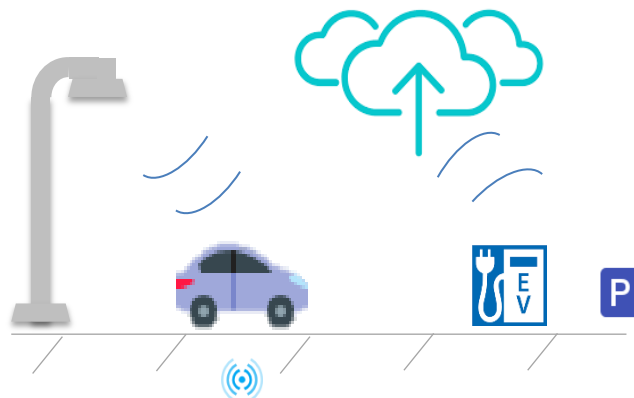
- Install sensors in all disabled parking bays
- Compare, contrast and integrate 4 disparate data sources
- Develop Backhaul architecture
- Develop City parking model
- Develop driver safe guidance app
- Development of VMS informatics
- Data collection to help plan & manage transport
- Foster understanding UK LA and STB roles in data aggregation
- Explore In car tech opportunities
- Charger use data

Headline Numbers

- **146 Smart Spots**
- **191 camera monitored spaces**
- **Total: 299 bays Monitored**

Milestones - completed

- Sensors installed
- UTMCI integration/Graph/API
- Backhaul architecture - complete
- Connected Kiosks – data integrated
- Driver safe guidance application
- Private carpark data agreed
- New VMS installed



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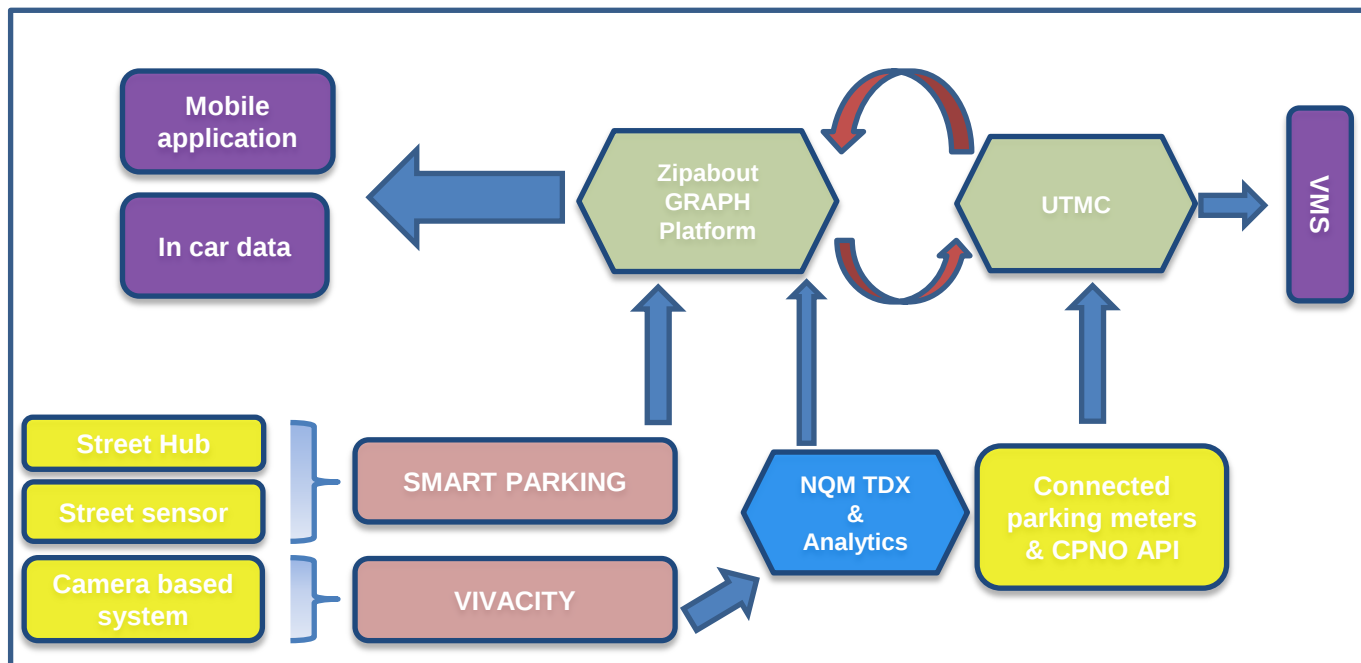
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Upcoming milestones

- CPNO API Integration
- Parking model
- User testing for app
- Data share with Google
- Deployment of data to County JP

Progress update – Challenges & Learning

- Cobbled streets need to be in good condition to facilitate installation of in ground sensors..
- Hanging baskets and Christmas lights are “challenging” for visual base sensors
- Contractors working on city infrastructure often move equipment -
- The physical makeup of the City is challenging – Heritage infrastructure (small lighting columns & thick stone walls) are hard to work with .
- Wayleave agreements are challenging to enact
- Without a lighting contract or (client side) it’s difficult to manage installations
- Several locations will require additional feeder poles to accommodate data hubs