

Cooperative Intelligent Transport Systems

Research Project Update: EV Smart Parking



Project Title Electric Vehicle Smart Parking

Project Overview A common frustration for current EV users is being blocked from using dedicated EV charge point bays by non-EV vehicles. Sensors in the charge point bays, combined with the charge points knowing when they are being used, would allow charge point operators and Local Authorities to provide real-time availability information to EV owners and direct Civil Enforcement Officers to non-compliant use of dedicated charge point bays.

In this project, we look at integrating bay sensors with the pre-existing data connection in charge points, hoping to eradicate a major cost for the mass rollout of sensors.

Objectives

- Identify the scale of the problem using qualitative (user survey) data and quantitative (bay compliance video surveys) as well as using pre-existing charge point (SmartParking) bay sensors in Westminster.
- A market review to evaluate the many bay sensors available and identify which is most appropriate for this use case. This will direct procurement for sensor trial.
- Understand who should process the sensor output data and how best to do this processing.
- Investigate how best to inform Civil Enforcement Officers of non-compliant use.



Milestones

- All baseline compliance and user data collected January 2018
- Market review complete and trial sensors procured January 2018
- Phase 2 sensor trial phase begins March 2018
- Post-trial analysis and evaluation report June 2018

Progress to date

- BluepointLondon backend integration with SmartParking sensor API complete,
- Market review completed and criteria for sensor procurement identified
- Video surveys of bay compliance completed in Hounslow and Hammersmith & Fulham.
- Bay compliance observation phase in Westminster ongoing
- User surveys in development

Deliverables

- All baseline compliance and user data collected January 2018
- Market review complete and trial sensors procured
- Phase 2 sensor trial phase begins March 2018

Partners



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Contact

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