

Innovate UK

Results of Competition: Connected and Autonomous Vehicles 2 - Stream 4 CRD

Competition Code: 1608_CRD1_TRANS_CAV2S4

Total available funding is £4.2m from Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Addison Lee Ltd	City-Compatible Commercial Automated Ride Sharing (the CC-CARS Project)	£412,786	£206,393
TRL Ltd		£137,888	£137,888
DG Cities Ltd		£149,995	£149,995
Transport Systems Catapult		£170,247	£170,247
Immense Simulations Ltd		£102,995	£72,097
Adam Opel AG		£25,000	£0
Project description - provided by applicants			
<p>The CC-CARS project will evaluate the operational and commercial realities of using SAE level 4 automated vehicles to deliver integrated ridesharing services in an urban environment. It builds upon ongoing work in the Innovate UK-funded GATEway project that is bringing connected and automated vehicle (CAV) technology to the streets of Greenwich. CC-CARS will explore how to enhance urban mobility, as well as reduce total vehicle journeys and thereby reduce emissions and pollution. The role of the consortium partners will be as follows: Addison Lee will explore using its booking, allocation and dispatch technology to pair ridesharing journeys and coordinate with the broader transport network. The project will also consider the user perspective, factoring safety, comfort, privacy, security and accessibility into the service. General Motors will provide guidance on suitable vehicle design and performance characteristics enabling Immense Simulations to simulate CC-CARS operations. Transport Systems Catapult will use passenger movement data to determine likely vehicle missions. The consortium will start by looking at vehicle movements in Greenwich, determining what journeys could be provided by automated vehicles to inform the development of a CAV service business model.</p>			

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Tantalum Corporation Ltd	NOx emissions estimation in real time from an OBD connected telematics device to deliver services to fleets, consumers and local authorities to improve air quality.	£1,850,477	£1,110,000
Imperial College London		£301,309	£301,309
Project description - provided by applicants			
<p>Air quality and the drive to improve it in our cities has become an increasing public health, technological and political priority. Cities across the world are looking into ways to improve air quality and real time engine emissions modelling, which is accurate and shown to be accurate, is paramount to delivering this. Tantalum Corporation has already developed best in class real time CO2 emissions modelling from vehicles through a device, which can plug into any vehicle's on board computer. We are now, in partnership with Imperial College London (ICL), pushing our technology on to add real world NOx emissions modelling in real time to our devices. This will give vehicle owners, fleet operators and local authorities the information they need to understand the environmental impact of their vehicles. The information could be used to create services to influence better procurement decisions, to drive behaviour change with better driving styles, or be used for city management, for example better modelling of the emissions impact of congestion or emissions based road user charging schemes.</p>			

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Westfield Sportscars Ltd	ESCIPODs (Electric supercapacitor integrated PODs)	£505,727	£354,009
Heathrow Enterprises Ltd		£14,922	£7,461
ZapGo Ltd		£306,096	£214,267
Potenza Technology Ltd		£289,263	£202,484
University of Warwick		£294,484	£294,484
Project description - provided by applicants			
ESCIPODs is a collaborative project led by Westfield Sportscars, alongside Zap&Go, Potenza, Heathrow Enterprises and The University of Warwick to develop existing autonomous vehicles for higher efficiency and extended range. It builds on existing research and development that has been carried out in the UK to propose a novel and innovative solution for clean and efficient urban transportation. This will be achieved by developing a new hybrid supercapacitor and Lithium-Ion battery system for deployment in both new and retrofit PODs.			

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Dynniq UK Ltd	Autonomous and Connected Vehicles for CleaneR Air (ACCRA)	£369,348	£184,674
Transport Systems Catapult		£414,671	£414,671
CENEX (Centre of Excellence for Low Carbon and Fuel Cell Technologies)		£138,740	£138,740
EarthSense Systems Ltd		£130,000	£91,000
Tevva Motors Ltd		£120,863	£84,604
Leeds City Council		£19,546	£19,546
Project description - provided by applicants			
<p>UK Government AQ strategy states that there are over 50,000 premature deaths yearly due to AQ pollution. Emissions from transport are a key contributor to poor AQ. Vehicles which have an internal combustion engine and an electric only range can offer zero emission (ZE) operation but cities lack the ability to monitor and control the vehicles. Project ACCRA - a collaboration between Dynniq, Tevva, EarthSense, Transport Systems Catapult, Cenex and Leeds City Council - will address this problem by developing a system capable of allowing remote control of a vehicles energy management system to ensure ZE operation where it has maximum benefit to AQ. The operation will be demonstrated in a proposed Clean Air Zone in Leeds. Under the overall management of the Transport Systems Catapult, the consortium will develop a hybrid vehicle interface (Tevva), a decision-making engine (Dinni) capable of taking inputs from a range of city data, such as live air quality information (EarthSense) potentially triggering on-demand ZE running instructions (known as active geofencing). The application, markets, business models and scalability of the system will be evaluated by Cenex and the Transport Systems Catapult to inform Leeds and other CAZ cities of the its potential use.</p>			

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