Innovate UK

Results of Competition: **Connected and Autonomous Vehicles - CRD**
Competition Code: **1507_CRD1_TRANS_DAAV**

Total available funding for this competition was £17.5M from BIS and the Centre for Connected and Autonomous Vehicles

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
Visteon Engineering Services Ltd Jaguar Land Rover Ltd Coventry City Council Siemens PLC Vodafone Group Services Ltd Huawei Technologies (UK) Co Ltd Horiba Mira Ltd Coventry University University of Warwick	UK Connected Intelligent Transport Environment (UK CITE)	£5,639,368	£3,413,726

Project description - provided by applicants
The UK Connected and Intelligent Transport Environment (UK CITE) creates a real-world-lab for companies to test how connected and autonomous vehicles (CAV) can interact with communications infrastructure (so called V2X). The project will install the relevant infrastructure along sections of the M42, M40, A45, A46 and Coventry city centre. This test environment will be available to other vehicle manufacturers or fleet users who wish to test V2X technologies. It will act as a world class research asset to attract R&D to the UK.CAV test vehicles will examine the impact of V2X on road safety, traffic flow and the ability to provide other services like WiFi. Cyber-security will also be included from the outset.V2X will improve a vehicles journey through the road network. E.g. in case of an accident instead of an expensive gantry on the motorway a connected car could provide warnings and guidance to the driver, or an autonomous vehicle could respond automatically. The impact on the UK road network will be simulated based on these trials - enabling the UK to get the most benefits from CAV for the least infrastructure cost.

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Atkins Ltd	FLOURISH	£5,530,892	£3,743,126
Age UK			
Airbus Group Ltd			
React AI Ltd			
AXA Insurance UK PLC			
Bristol City Council			
Imtech Traffic & Infra UK Ltd			
Office for Public Management Ltd			
South Gloucestershire Council			
Bath Institute of Medical Engineering Ltd			
Transport Systems Catapult			
TSS - Transport Simulation Systems Ltd			
University of Bristol			
University of the West of England			

Project description - provided by applicants
Connected and autonomous vehicles will play a significant role in a future transport system and unlockenormous social benefits at the same time. FLOURISH looks to enable the delivery of many of these benefits byhelping to ensure that connected and autonomous vehicle are developed with the user in mind and aretechnically secure, trustworthy and private. Using older people and others with assisted living needs as anexemplar to develop an understanding of the diverse needs of a particular user group, FLOURISH will developinnovative products, processes and services that are directly transferrable to the wider community. FLOURISHwill expand existing physical and virtual vehicle test capability and help deliver up to 10,000 jobs through theestablishment of the Bristol City-Region as a world class independent test facility for connected andautonomous vehicles.

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Westfield Sportscars Ltd Heathrow Enterprises Ltd Fusion Processing Ltd Creative Example Ltd Conigital Ltd Birmingham City University	INSIGHT	£2,113,347	£1,564,330
Project description - provided by applicants			
INSIGHT is a collaborative project to develop existing AUTONOMOUS vehicles for safe, slow speed operation onpedestrian areas and pavements, with CONNECTIVITY not only to control and manage the vehicles, but ALSOfor innovative data collection and presentation applications that INTERACT with users and other customers ofthe systems.			

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Robert Bosch Ltd Jaguar Land Rover Ltd TRL Ltd The Floow Ltd DL Insurance Services Ltd Royal Borough of Greenwich	MOVE-UK: accelerating automated driving by connected validation & big data analysis	£5,500,006	£3,374,500
Project description - provided by applicants			
The MOVE-UK project will help the UK to become a world leader in the development of automated anddriverless cars. The project partners (Bosch, Jaguar Land Rover, TRL, Direct Line Group, The Floow and theRoyal Borough of Greenwich) will speed up the entry of automated, driverless car technologies to the motormarket. The project will allow these technologies to be developed and tested more rapidly and at lower cost tomanufacturers. Driverless systems will be tested in the real world, providing large amounts of data that will beused to develop and improve the technology. These technologies will not control the test vehicles but willgenerated information which will be fed into a unique data store. This data store will allow us to develop new,faster ways of improving and demonstrating the safety of the automated driving systems. We will also use thisinformation to provide 'smart cities' with new ways to improve services for residents and the environment; tohelp us understand how detailed data from cars can be used in the future to benefit drivers; and, to help theproject partners to understand the how driverless technologies will change their businesses in the future.			

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Tructyre Fleet Management Ltd University of Portsmouth Satellite Applications Catapult Ltd RL Capital Ltd	Pathway to Autonomous Commercial Vehicles	£1,259,753	£931,448
Project description - provided by applicants			
This project will develop a cloud based software model for its tyre data monitoring system on commercialvehicles, trailers and PSV's that will offer accurate predictions of tyre and mechanical issues by using real timedata from the installed hardware. Tyre data from each vehicle will be linked with satellite communications andintelligent decision making to provide drivers, fleet managers, and tyre service providers with a real timesystem to prevent unnecessary downtime, such as roadside breakdowns and improve efficiencies in vehicle andtyre management. Tyres have a significant impact on vehicle safety, fuel consumption and CO2 emissions.Damaged tyres can cost fleet operators tens of thousands of pounds in repair costs, wasted fuel and fines fromlate deliveries. In response to this, Tructyre, a Hampshire based SME, has gathered together a strongconsortium of companies and academic partners to develop predictive software with an automated dataexchange capability between vehicle, fleet operator and tyre service provider.			

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Control F1 Ltd University of Nottingham Head Communications Ltd Huduma Ltd Infohub Ltd	i-MOTORS - Intelligent Mobility for Future Cities Transport Systems	£1,725,084	£1,325,151
Project description - provided by applicants			
i-MOTORS is a CR&D project that will see the development of a vehicular cloud computing platform that fusesdata from road vehicles with ancillary information relating to the road environment. The product will includedynamic maps that are transmitted back to vehicles to aid drivers and near real-time alerts which can be usedto improve the management of the road network. The maps and alerts will also underpin an intelligent trafficmanagement dashboard that will be available to stakeholders in traffic monitoring and management to aid inplanning, reducing congestion and improving traffic flows. As a proof of concept we will develop an M2Msystem to achieve V2V connectivity to allow sharing of information between vehicles to demonstrate novelconcepts such as car platooning. i-MOTORS recognises the difficulties in accurately positioning vehicles,therefore a novel concept of ubiquitous positioning through the integration of multiple sensors (GNSS, IMU,vision, LiDAR) through the development of an innovative Beyond Line of Sight device will allow precise andaccurate positioning in wireless and mobile denied areas.			

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Richmond Design and Marketing Ltd University of Warwick	INnovative Testing of Autonomous Control Techniques (INTACT)	£1,085,228	£856,767

Project description - provided by applicants

Urban mobility vehicles, or driverless Pods, will reduce congestion and accidents on our roads and give morepeople travel independence. However, they require trust from users ' they must be safe, secure and robust.This requires extensive testing and validation of the Autonomous Control System, or ACS, which is the brains ofthe Pod responsible for detecting objects and controlling the vehicle. Reducing the cost and optimising this ACSis essential in facilitating the large scale manufacture and sale of commercially viable Pods in the near term.However testing on public roads and in real-world driving situations would be very expensive, unrepeatableand potentially dangerous. Hence this project proposes the use of a novel simulator concept, to enable theevaluation of an optimised ACS in a safe, repeatable and scientifically rigorous environment. RDM, the UK'sonly designer and manufacturer of driverless Pods, and University of Warwick will work together to enable thebroader uptake of Pods, help inform the legislative framework for the UK and eventual certification ofautonomous vehicles, and show the UK as a leader of research into autonomous vehicles.

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Immense Simulations Ltd Improbable Worlds Ltd	Tools for autonomous logistics operations and management	£3,185,708	£2,083,835
Project description - provided by applicants			
Connected and Autonomous Vehicles are coming! The OECD says that there will be 70% fewer vehicles, butthat they will drive further. KPMG says that by 2040 they will be a significant proportion of vehicle sales.Fleet operations and logistics planning is a well-established sector of the value chain for fleets of commercialvehicles. This project is developing fleet operations solutions aimed at fleets of autonomous vehicles.			

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