Innovate UK

Results of Competition: Connected and Autonomous Vehicles Testbed

Competition Code: 1704_CRD_TRANS_CCAVTB

Total available funding is £55M from CCAV (£35M Stream 1, £7M Stream 2, £13M Stream 3)

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
TRL Limited	Smart Mobility Living Lab	£3,520,000	£3,520,000
Costain Limited		£4,214,284	£2,107,142
Cubic Transportation Systems Limited		£2,427,956	£1,213,978
Cisco International Limited		£4,887,967	£2,443,984
Transport for London		£827,299	£827,299
Loughborough University		£495,669	£495,669
DG Cities Limited		£2,830,143	£2,830,143

Project description - provided by applicants
Our vision is to create a world leading test environment for the development of future mobility solutions in London. The Smart Mobility Living Lab based in the Royal Borough of Greenwich (RBG) and the Queen Elizabeth Olympic Park (QEOP). Businesses will be able to test their ideas, technology and services, examples include: • Testing autonomous and connected vehicles on real roads safely • Exploring the relationship and interaction between autonomous vehicles and people in complex and busy real world environments • Testing the use of driverless pods to carry people short distances (1-2 miles) from transport nodes, i.e. railway and underground stations to major venues or destinations • Exploring the use of large data sets to improve the flow of traffic and people • Exploring how much more can be achieved through a more integrated transport system that requires little interaction from the passenger • Exploring the benefits of new technology for logistics companies This is an exciting project and part of the UK Governments commitment for the UK to be at the forefront of this new and rapidly evolving market. Investment will give UK industry the opportunity to take the lead and reinforce its position as a leader in this field.

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Millbrook Proving Ground Limited United Kingdom Atomic Energy Authority	The Millbrook-Culham Test and Evaluation Environment: A semi-controlled urban CAV Test Bed	£6,119,100 £3,883,244	£3,059,550 £3,883,244

Project description - provided by applicants

Addressing the critical need for a semi-controlled but realistic urban test environment for CAV, that seamlessly connects with other CAV test functions and open road urban environments, this proposal between Millbrook and the United Kingdom Atomic Energy Authority's centre for Remote Applications for Challenging Environments (RACE) seeks to realise the joined-up Millbrook-Culham Test and Evaluation Environment (MCTEE). Based on a step change enhancement to their existing road networks and CAV test capability via: 1) upgraded instrumented roads to capture complexity of real urban contexts; 2) infrastructure – most notably around V2I, V2V and V2X connectivity and integrated transport; and 3) external obstacles, the proposed facility will revolutionise preparation and validation of CAVs, services and (sub)system-level technologies for real-world deployment on public roads. Going far beyond a facility for vehicle manufacturers, MCTEE will give open access to all users – from global OEMs and SMEs to start-ups at all levels of autonomy and readiness – specifically targeting developers of software, sensors, roadside units, telecommunications (5G), cyber security systems etc., catalysing wider benefits from the world class capability that will emerge from the CCAV process. The consortium is committed to working closely with the CAV Hub (CCAV) and other test bed nodes to leverage all benefits of commonality across technology, infrastructure, operations and customers within the UK CAV test bed to explore public, industry and stakeholder impacts of CAV and enable UK leadership.

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Horiba Mira Limited	Trusted Intelligent CAV (TIC-IT)	£20,437,000	£8,220,000
Coventry University		£5,563,000	£4,780,000
Project description - provided by applicants			
Connected and Autonomous Vehicles (CAV) bring huge benefits to society, representing a substantial wealth creation opportunity. To turn this opportunity into reality the UK must build an eco-system to accelerate the development, deployment and commercialisation. The Trusted Intelligent CAV (TIC-IT) facility will be critical to this eco-system, providing a realistic, controlled high speed, limit-handling and fully connected environment. Allowing real world CAV driving scenarios to be created, including testing that cannot be conducted in public environments. TIC-IT will be a flexible facility allowing the maximum number of use cases and test scenarios to be performed using temporary real world features. It will accelerate development and testing to ensure CAVs are safe and secure. Developed in conjunction with Coventry University's Centre for Mobility and Transport it will bring a unique capability to the UK, increasing the level of test and engineering activities conducted allowing the consortium to build its capability in CAV and enhancing the attractiveness of the UK to inward investment.			

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University of Warwick	UK Central CAV Testbed	£3,999,886	£3,999,886
Amey OW Limited		£1,094,691	£547,345
AVL Powertrain UK Limited		£692,250	£346,125
Costain Limited		£3,138,332	£1,569,166
Coventry University		£179,014	£179,014
Horiba Mira Limited		£544,236	£272,118
Open Network Systems Limited		£9,955,566	£4,977,783
West Midlands Combined Authority		£5,674,661	£5,674,661

Project description - provided by applicants
Driven by the need to reduce traffic congestion and accidents on our roads, the development and deployment of CAVs (connected and autonomous vehicles) will provide significant societal benefits, as well as business opportunities for the the automotive, comunications, infrastructure and transport sectors in the UK. Demonstrating CAVs on road, in real-world driving situations, not only helps to establish confidence in the technology, but also provides invaluable learning that can be incorporated to achieve the ultimate aim of making them, and the additional services that they could provide, a commercially viable and desirable means of road-transport. A consortium comprising of Amey, AVL, Costain, Coventry University, HORIBA MIRA, TfWM (Transport for West Midlands), WIG (Wireless Infrastructure Group) and the University of Warwick will therefore deliver a full suite of urban environments, in Coventry and Birmingham, to test CAVs and their related technologies and services, in order to accelerate their deployment in the real-world, benefitting the region and UK companies. Furthermore the testing will be supported by extensive public engagement and a database of participants who will help support the more human elements of technology and service evaluation. To attract continued R&D investment into the region and the UK, the test infrastructure will be operational after the project conclusion and will be fully self-sustaining.

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