

# Innovate UK

**Results of Competition: Connected and Autonomous Vehicles 2 - Stream 1 CRD**  
**Competition Code: 1608\_CRD1\_TRANS\_CAV2S1**

**Total available funding is £15m from CCAV**

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

<b>Participant organisation names</b>	<b>Project title</b>	<b>Proposed project costs</b>	<b>Proposed project grant</b>
<b>Nissan Motor Manufacturing UK Ltd</b>	HumanDrive	£6,851,592	£3,425,796
HITACHI Europe LTD		£1,670,414	£835,207
Secured By Design Limited		£82,542	£49,525
Transport Systems Catapult		£1,346,951	£1,346,951
Cranfield University		£1,199,941	£1,199,941
University of Leeds		£1,501,199	£1,501,199
Transport Simulation Systems Ltd		£272,180	£190,526
HORIBA MIRA Ltd		£459,112	£229,556
Atkins Limited		£115,902	£57,951

### **Project description - provided by applicants**

The project will build an autonomous vehicle with human like, natural control / path planning, by 2019, that 1) is able to be fully autonomous on country roads, when overtaking, on roundabouts and/ or motorways 2) mimics the driving behaviour of human beings, to provide an enhanced experiences for the occupants. Nissan and Hitachi will use their global automotive, artificial intelligence/ machine learning and communication technology expertise to build vehicles and AI models that are fit for purpose, and use the expertise of Horiba MIRA, Cranfield University and the University of Leeds to ensure the system is validated and end-user acceptance is evaluated. Atkins and SBD will address protective security, making the vehicle digitally and physically secure. The Transport Systems Catapult will be responsible for project management and development of safety aspects of the project. The impact of L4 vehicles on the Strategic Road Network will be explored through work by Highways England and TSS. Highways England and Milton Keynes Council will provide support to the demonstration route of the vehicle.

**Note: you can see all Innovate UK-funded projects here**

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<b>Oxbotica Ltd</b>	DRIVEN	£6,935,513	£4,854,859
University of Oxford - ORI		£460,287	£460,287
XL Catlin Services SE		£1,923,228	£961,614
Telefonica UK Limited (trading as O2)		£363,641	£181,821
TRL Limited		£426,159	£426,159
RACE (UK Atomic Energy Authority)		£485,805	£485,805
Oxfordshire County Council		£478,099	£478,099
Transport for London		£148,610	£148,610
Westbourne Comms Company Ltd		£40,196	£28,137
Nominet UK		£1,175,216	£587,600

### **Project description - provided by applicants**

DRIVEN aims to remove fundamental barriers to real-world commercial deployment of autonomous vehicles, by addressing the need for real-time risk assessment frameworks to authorise engagement of Level 4 autonomous driving sessions and provide pro-active connected insurance. This integration of risk and dynamic authorisation into a L4 autonomous vehicle control system is transformative, underpinned by distributed data sharing, learning and connected real-time risk management to optimise overall autonomous fleet safety and operation. To realise these developments, Oxbotica, a market leader in the deployment of real-world autonomy solutions in the UK, will lead a consortium including Oxford Robotics Institute, XL Catlin, Nominet, Telefonica, Transport Research Laboratory, RACE, Oxfordshire County Council and Westbourne Communications. The ambitious trials programme culminates in 6 co-operative L4 CAVs performing mixed urban and motorway driving routes in a live-traffic environment between Oxford and London. DRIVEN demonstrates autonomy as a viable service, unlocking new service models that enable widespread autonomy for UK plc and accelerate market implementation in UK and globally.

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<b>Charge Automotive Ltd</b>	RoboPilot	£11,112,497	£5,556,249
UPS UK Ltd		£97,958	£48,979
THALES UK LIMITED		£554,287	£277,143
Loughborough University		£215,354	£215,354
University of Bristol		£220,161	£220,161
University of West of England		£123,805	£123,805
South Gloucestershire Council		£159,370	£159,370
Test and Verification Solutions Ltd		£200,433	£140,303
AXA UK plc		£159,037	£79,519

### **Project description - provided by applicants**

Charge find trucks today totally unacceptable. At Charge we are making trucks the way they should be – affordable, elegant, quiet, clean and safe. We are removing all the barriers to entry for electric vehicles by pricing them in line with conventional trucks, giving every fleet manager, tradesman or company, no matter how big or small, the opportunity to change the way they transport goods and make our towns and cities better places to live in. Charge is well funded by private venture capital but its plans are extremely ambitious and require considerable investment. The public funding provided by the Robopilot project will greatly accelerate the 'safety' component of our vision in line with key objectives of both central Government and City authorities such as Transport for London. It will develop & demonstrate autonomous driving functionality for our recently announced electric delivery van, which can then be adapted for our planned future rollout of larger trucks and buses. It brings advanced autonomous racing technology to the light commercial vehicles market. Demonstration of SAE level 4 autonomy over a 10-mile route on mixed public roads in all weathers, and of driverless self-parking, will be planned and conducted with potential customers.

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