Collaborative R&D Competition Results

Simulation and Modelling

Centre for Connected & Autonomous Vehicles

The Centre for Connected and Autonomous Vehicles, through Innovate UK, launched a collaborative R&D competition in January 2018 for holistic CAV simulation and modelling capabilities. Following assessments by independent experts the following six projects have been awarded funding.

Project/grant	Description	Consortium Partners
OmniCAV, £2.7m grant, £3.9m project:	Latent Logic, a young UK start up specialising in the simulation of realistic actors using AI within virtual environments, is leading a consortium of 11 to develop a testing certification tool that can be used by accreditation bodies, insurers and manufacturers to accelerate the development of CAVs.	Latent Logic; Aimsun Limited; Arcadis Consulting (Uk) Limited; Arrival Limited; Eui Limited; Ordnance Survey Limited; Oxfordshire County Council; Thatcham Research; UKAEA; University of Warwick; XPI simulation Limited
COSMOS, £1.7m grant, £2.7m project	JLR is leading a consortium of three in the development of a simulation capability to reduce sensor interference in traffic and therefore improve safety.	JLR, Horiba Mira Limited, University of Birmingham
VeriCAV, £2.4m grant, £3.4m project:	Horiba Mira is leading a consortium of eight in the development of simulation test system with automated generation of scenarios and realistic virtual actors.	Horiba Mira; Aimsun Limited; Jaguar Land Rover Limited; Latent Logic; Propelmee Limited; Saic Motor Uk Technical Centre Limited; Transport Systems Catapult; University Of Leeds
D-RISK, £3m grant, £3.8m project	aiPod Limited, a US start up, is leading a consortium of five organisations to develop a novel scenario generator incorporating realistic edge case scenarios, in order to virtually validate a CAV's decision making and qualify risk.	aiPod Limited; Claytex Services Limited; DG Cities Limited; Imperial College London; Transport for London
Simulation of Complex Off-Road Environments, £0.9m grant, £1.2m project	Dynium Robot, a young start up from Cambridge, is leading a consortium of three to develop off road simulation environments which will reduce the cost of deploying autonomous vehicles on farms in order to help smaller farms compete with larger ones that benefit from economies of scale.	Dynium Robot; University College London
Sim4SafeCAV, £1.4m grant, £2.0m project	JLR is leading a consortium of three in a bid to combine simulation to safety for SAE level 4 autonomous vehicles to significantly enhance safety analysis and use simulation to demonstrate achievement of safety targets.	JLR; Kangaloosh Limited; University of Warwick