DRIVEN

DRIVEN is a ground-breaking 30-month project, which seeks to remove fundamental barriers to real-world commercial deployment of autonomous vehicles — addressing insurance, cyber security and data privacy issues.

Incoming data feeds

Including weather forecasts, information from transport organisations on accident black spots, and feeds from **Oxfordshire County Council** on traffic volumes

During the trials **TRL** will explore the potential for vehicles to communicate with traffic management control systems, and consider how autonomous vehicles will work with the Internet of Things and interact in the Smart Cities of the future

Connected infrastructure

Oxfordshire County Council host the first dedicated local authority Connected and Autonomous Vehicle Team in the UK

Oxbotica's vehicles will use **Telefonica** infrastructure to transmit data between vehicles and the cloud, and from vehicle to vehicle — working with **Nominet** to ensure information is transmitted between other partners safely, securely and privately

Global insurance firm **XL Catlin** exchanges data to and from each car — developing a risk profiling tool with **TRL**, and a new insurance proposition for autonomous vehicles

Real time risk register

Drawing on expertise from locations around the world

Poland
United States
India
Ireland
Bristol
Oxford
London
Berkshire

By the end of 2018
A fleet of six interconnected autonomous vehicles

Using Caesium, **Oxbotica's** fleet management software, cars will share their location, heading, and statistics, enabling them to interact with the other cars in the fleet

200 people-years' of research, development and testing

10,000 miles of autonomous testing on public roads

85 pieces of intellectual property

Oxbotica's safety case ensures that risks with the vehicle, autonomous control system (ACS), selected routes and route users are robustly managed. Mitigations include a safety driver, an ACS operator, safe operating procedures, off-road safety testing at **RACE**, and incident reporting

Specialist skills include

Software Developer
Business Development Leader
Insurance Underwriter
Drive Test Engineer
Head of Internet of Things
Project Manager
Data Scientist
Graduate Statisticians
Cyber Security Apprentice
Smart Mobility R&D Manager
Senior Machine Learning Researcher
Field Robotics Engineer
Safety Consultant
Senior Psychologist

DRIVEN

Camera and laser arrays provide high location accuracy, without the need for a GPS connection

Autonomous vehicle technology could be worth at least £35bn to UK plc by 2035

£

www.drivenby.ai   @drivenbyai

OXBOTICA   NOMINET   OXFORDSHIRE COUNTY COUNCIL   RACE   Telefonica   TRANSPORT FOR LONDON   TRL THE FUTURE OF TRANSPORT   UNIVERSITY OF OXFORD   Westbourne   XL CATLIN