

Connected and autonomous vehicles in the UK lain Forbes





QUEEN'S SPEECH

GOVERNMENT TO "CREATE RIGHT FOR EVERY UK GOVT "WILL USE OPP HOUSEHOLD TO ACCESS HIGH-SPEED BROADBAN DELIVER SECURITY FO

skynews.com) SO FAR AND 16 BODIES HAVE BEEN RECOVERED BREAKING NEWS QUEEN'S SPEECH: THE GOVERNMENT IS TO



Why?







efficiency



mobility

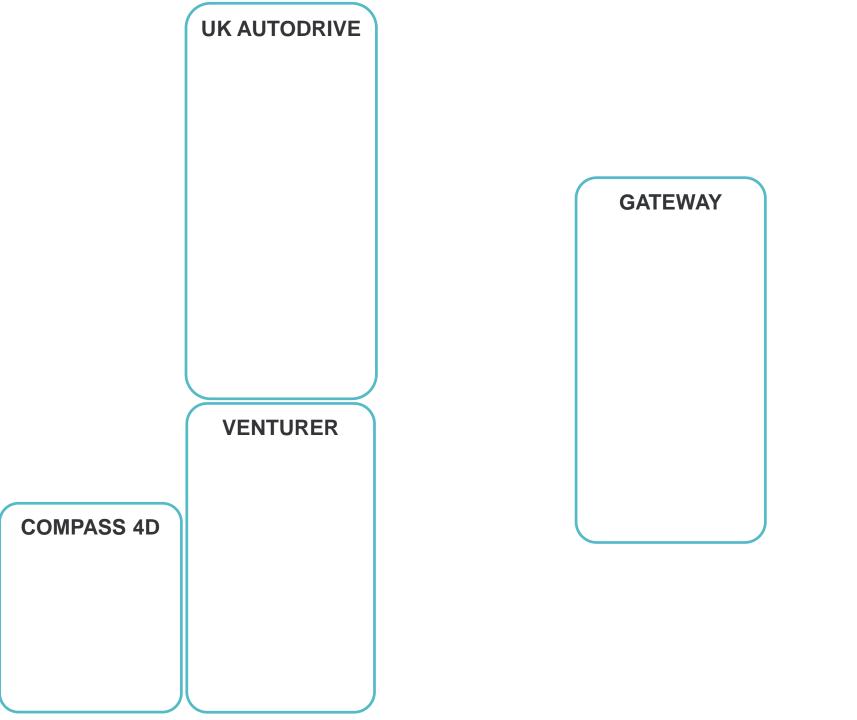


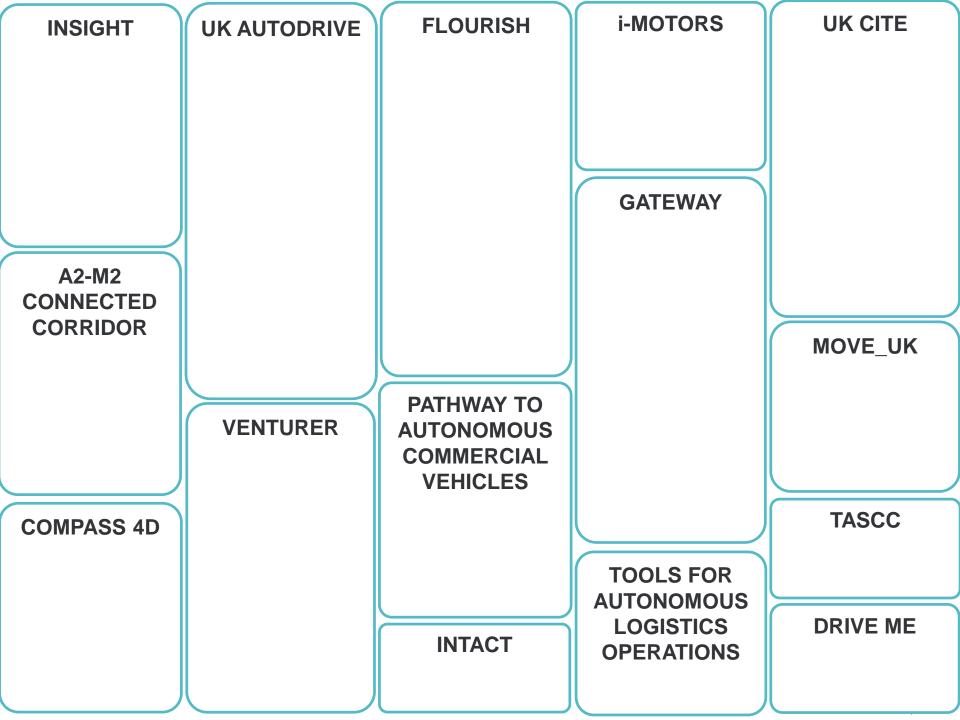
productivity



1. Work together

Research and development













A2-M2 CONNECTED **CORRIDOR**







COMPASS 4D





VENTURER

ATKINS University of BRISTOL

Fusion Processing

University of the Burges

BAE SYSTEMS

INSPIRED WORK

WILLIAMS

Salmon

RISTO

First 7

South Gloucestershire

Bristol Robotics Laboratory

BRISTOL



FLOURISH

MAIRBUS

Imtech

South Gloucestershire

designability

University of BRISTOL

AISEEDO

ageuk

RIST

SS TRANSPORT SIMULATION SYSTEMS

University of the

West of England









University of **Portsmouth**

INTACT



i-MOTORS control f1 The University of Nottingham HEAL Huduma INFOHUB und











Commonplace

GOBOTIX

TOOLS FOR AUTONOMOUS LOGISTICS OPERATIONS



























































INSIGHT

£2.2m project to develop and trial driverless shuttles with advanced sensors and control systems focussed on improving urban accessibility for disabled and visually impaired people in Birmingham. Runs from 2016-2019.



£5.6m project equipping urban roads, dual-carriageways and motorways in Coventry with combinations of 3 "talking car technologies" and LTE-V to establish benefits of connected and autonomous vehicles through connectivity. Runs from 2016-2019.



Project to provide traffic signal priority to the express bus route through a corridor in Newcastle.

RDV

WARWICK

INTACT

£1m project to reduce the cost of testing and evaluating autonomous control systems in a safe repeatable controlled and scientifically rigorous environment. Runs from 2016-



i-Motors

£1.7m project to deliver a connected vehicle-to-anything (V2X) system via a mobile platform as a proof of concept.

UKAutodrive

£19 million project to demonstrate road-going cars and low speed pods in Milton Keynes and Coventry.

VOLVO

Drive Me London

Volvo's UK-based test, using real families driving automated cars on public roads.

A2-M2 Connected Corridor

UK Government's flagship vehicle connectivity project.

GATEway

£8m project to demonstrate driverless shuttles and automated urban deliveries in Greenwich, London. Runs from 2015-2018.

flourish emouwerment through trusted secure mobility

£5.5m project to help develop innovative new tools to improve the understanding of user needs and expectations of connected and autonomous vehicles. Runs from 2016-2019.

Tructyre



University

Pathway to Autonomous Commercial Vehicles

£1.2m project to develop innovative solutions to monitor key information from connected and automated vehicles and predict safety risks based on analytics. Runs from 2016-2018.

TASCC

£11m JLR-EPSRC collaborative programme based around the central challenge of moving towards a fully automated car.

Tools for Autonomous Logistics and operations

£5m project to investigate public acceptance of

connected and automated

vehicles, and whether they can reduce congestion and

of increasingly complex scenarios in Bristol. Runs

from 2015-2018.

make roads safer in a series

£3m project bringing together transport modellers and the computer games industry to develop new modelling for automated vehicle fleets.

MOVE IIK

£5.5m project to increase the rate of development and testing of connected and automated vehicle technologies at a lower cost to vehicle manufacturers.

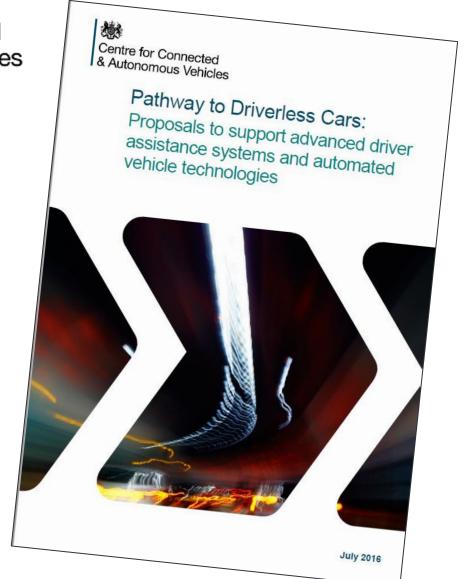


2. Focus on key priorities

Regulatory reform







Centre for Connected & Autonomous Vehicles

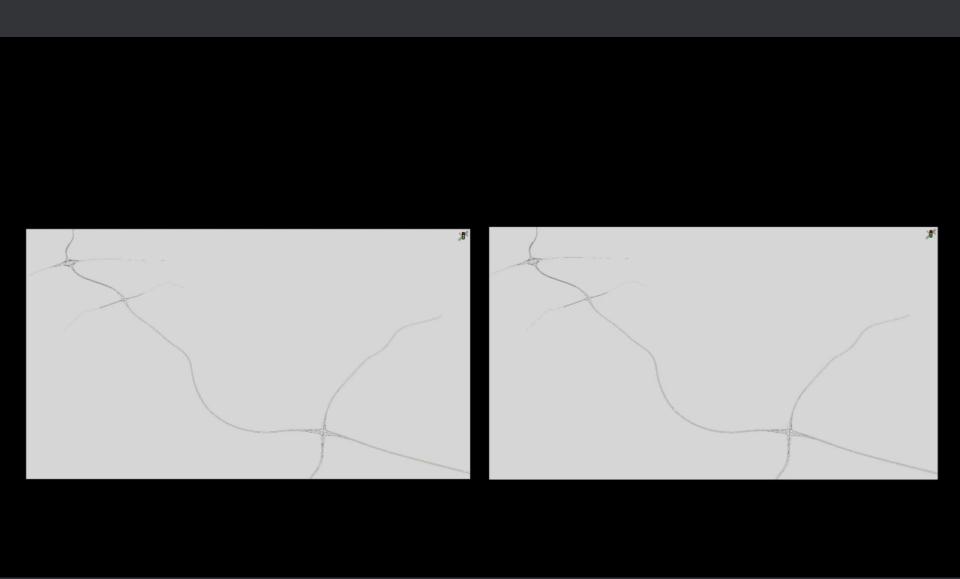


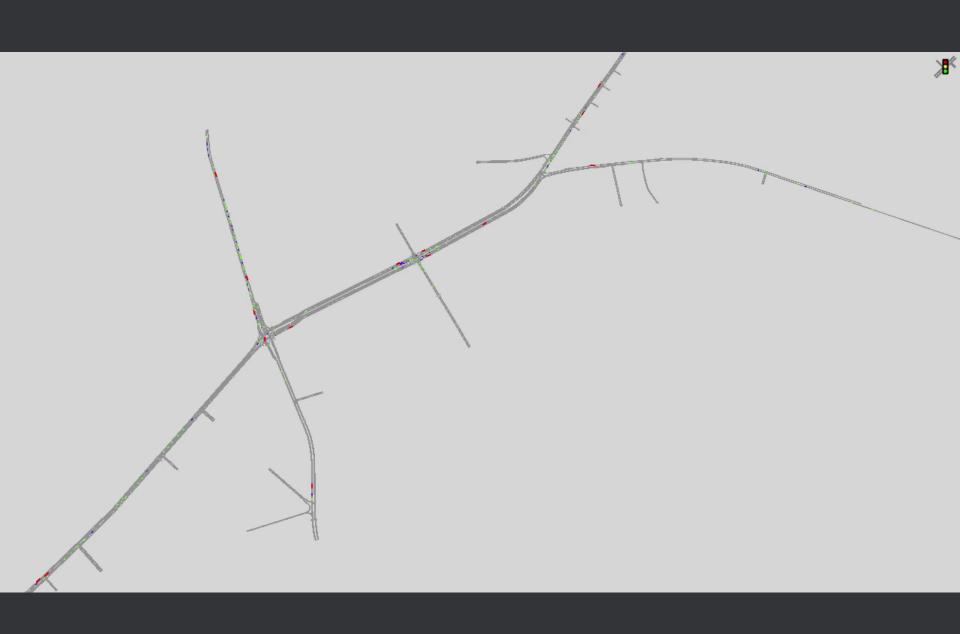




3. Keep learning

Infrastructure and social research









Centre for Connected & Autonomous Vehicles

@ccavgovuk

"Why?"

- Safety
- Efficiency
- Mobility
- Productivity

1. "Work together" – R&D

- Over £100m of government funding (matched by industry)
- Range of partners: automotive, telecoms, technology and insurance companies, universities, local government, etc.
- New £35m competition just closed announcements soon

2. "Focus on key priorities" – Regulations

- One of the most open regulatory frameworks for testing in the world
- Legal changes on insurance and ADAS soon
- International regulation:
 - WP29:
 - WP1: Exploring flexibilities in Conventions
 - Cyber security: principles and task force

3. "Keep learning" – infrastructure & social research

- Microsimulation of vehicles on road network
- Connected corridors: A2-M2 corridor; UK CITE around Coventry
- Three year social and behavioural science programme