Innovation in Transport Systems

UK Autodrive – Passenger Vehicles

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History
The Vienna Convention

- 8th November 1968, Vienna Convention on Road Traffic - United Nations Agreement
- Covers road traffic safety regulations
- Establishes principles to govern traffic laws

1. Every moving a driver.
2. It is recommer hat pack, draught or saddle animal e marked at the entry, cattle, singly or in herds, or flocks, shall have a driver
3. Every driver shall possess the necessary physical and mental ability and be in a fit physical and mental condition to drive
4. Every driver of a power-driven vehicle shall possess the knowledge and skill necessary for driving the vehicle; however, this requirement shall not be a bar to driving practice by learner drivers in conformity with domestic legislation
5. Every driver shall at all times be able to control his vehicle or to guide his animals

Legal?

The Pathway to Driverless Cars
DfT white paper

- In February 2015, DfT published “The Pathway to Driverless Cars” *Summary report and action plan*
- Recognises the benefits of driverless vehicle technology
- Concludes that our legal and regulatory framework is not a barrier to the testing of automated vehicles on public roads
- Code of Practise for testers
- Why publish this paper?
  - To provide clarity
  - To provide the opportunity for the country to shape this growth area
  - To encourage global businesses to come to the UK to develop and test their technologies
  - To provide economic & social benefits

What is UK Autodrive
Innovate UK

- An ARUP-led ‘Introducing Driverless Cars’ competition
- ‘Match-funded’ over 3 years
- What will it deliver?
  - Feasibility studies and practical demonstrations
- Where?
  - Milton Keynes and Coventry
- Why?
  - To identify significant implications and challenges of introducing autonomous vehicles from a technical, social and economic perspective
  - To provide insights for vehicle manufacturers, cities, commercial operators, legislators and insurers to develop the legal framework for the roll-out of autonomous mobility

Jaguar Land Rover's role
Passenger Cars

- Passenger (M1) cars
- Real-world evaluation of passenger cars with increasing levels of autonomy
- Parking & Urban
  - Identify what we will demonstrate
  - Day1 demo – low level automation. E.g. Multi-point turn and Remote Control Drive
  - Increase the autonomy at each demonstration
  - Show legislators & insurers what the systems will do
  - Collaborate with city councils to ensure infrastructure is available

Jaguar Land Rover contribution
Innovation

- Definition of
- Use-case m
- Generation
  - i.e. Thing
    in order tc
    demonstra
- Design of sy
- Creation of
- Proving grou
- Closed publi
- Open public
- White paper

What else are we doing?
Research

References

- Vienna Convention
  - > http://www.unece.org/fileadmin/DAM/trans/conventn/Conv_road_traffic_EN.pdf
- DfT white paper
  - > https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/401562/pathway-driverless-cars-summary.pdf
- UK Autodrive
  - > http://www.arup.com/News/2014_12_December/02_Dec_Consortium_wins_competition_to_develop_driverless_cars.aspx
- LinkedIn
  - > https://uk.linkedin.com/pub/mark-cund/14/b82/3b1

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HANK YOU