



Department
for Transport

Adaptive regulation – autonomous cars

IRGC - 7 January 2016, Ian Yarnold





Recent Activity

February 2013: **Oxford University Robotics Group**
Automated Nissan Leaf testing on UK roads

December 2013: **Chancellor** announces the Review of Regulations for driverless cars

July 2014: **Driverless cars - £10m** innovation prize fund announced for automated vehicle technologies

February 2015: Publication of ***The Pathway to Driverless Cars*** review and launch of the prize fund trials.

July 2015: Publication of *The Pathway to Driverless Cars: A Code of Practice* for testing

July 2015: **Intelligent mobility fund - £20m** Connected and autonomous vehicles R&D fund.





The Pathway to Driverless Cars

- ▶ UK Government published a detailed review of regulations on 11 February 2015
 - ▶ <https://www.gov.uk/government/publications/driverless-cars-in-the-uk-a-regulatory-review>
- ▶ Three main deliverables
 - ▶ **A Code of Practice** - spring 2015.
 - ▶ **Review and amend domestic regulations** - summer 2017.
 - ▶ **Liaise at an international level** to amend international regulations - 2018.
- ▶ Key conclusion

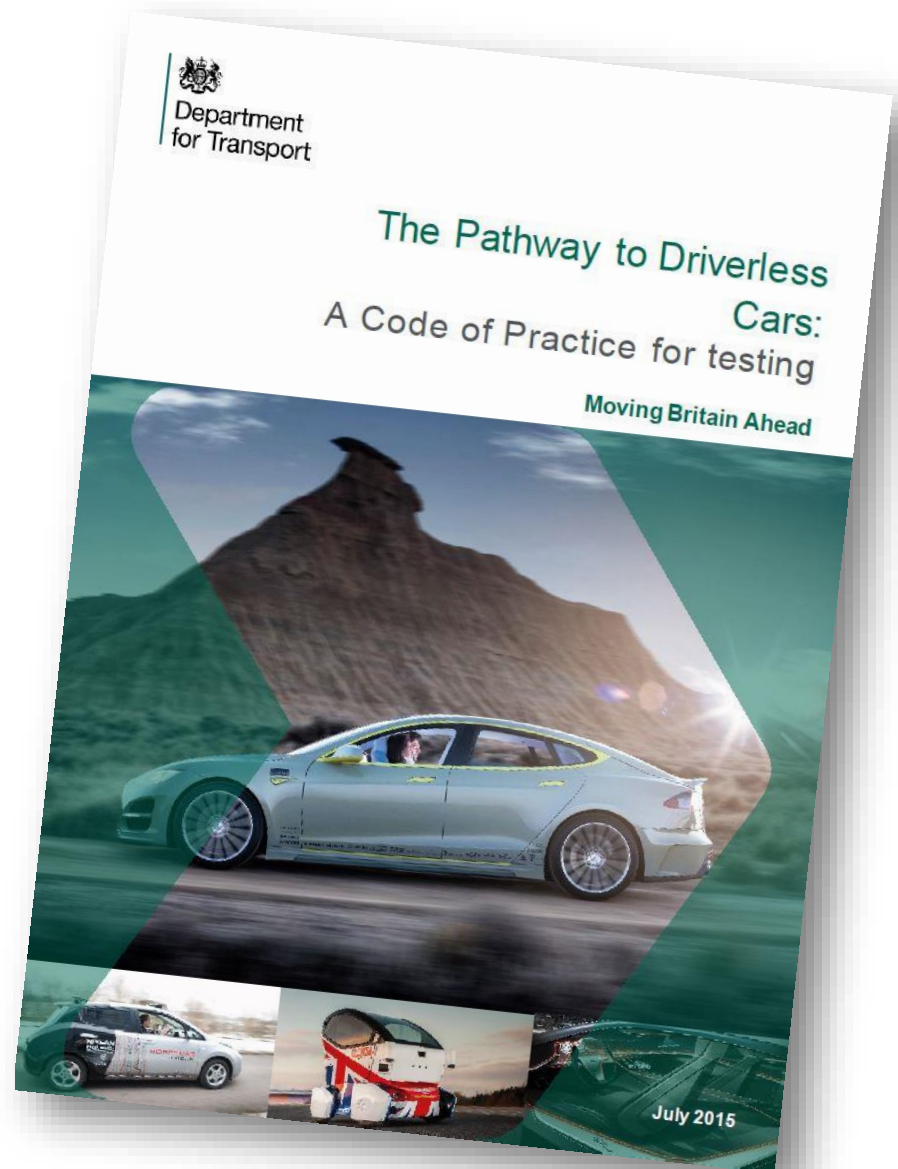
Driverless vehicles can legally be tested on public roads in the UK today





The Code of Practice

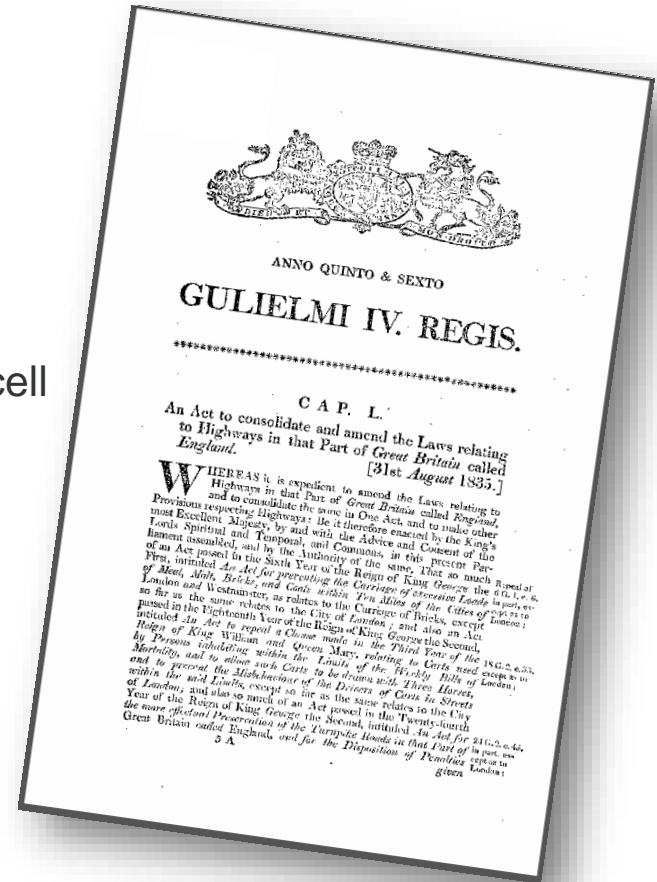
- ▶ Developed in consultation with key stakeholders – involving manufacturers, suppliers, insurers, local governments.
- ▶ Sets out recommendations for;
 - ▶ those organising trials and testing,
 - ▶ those involved in the trials,
 - ▶ drivers,
 - ▶ vehicles.





Vehicle Regulations in the UK

- ▶ Regulate new vehicle provisions prior to entry to market.
 - ▶ Safety, Emissions & Noise, Security
- ▶ Regulate the use of vehicles
 - ▶ Safe use, Roadworthiness, In-vehicle systems (e.g. cell phones, child restraints)
- ▶ Regulate driving
- ▶ Regulate what drivers can do
- ▶ Regulate driving on footways
 - ▶ The 1835 Act says
 - ...shall not ride on a footway...
 - ...shall not endanger people by driving furiously...





Adapting our regulatory frameworks

- ▶ Where to start.....
- ▶ **UK/GB**
 - ▶ Liability
 - ▶ Licensing
 - ▶ Data security/ownership
 - ▶ Road traffic rules
- ▶ **International**
 - ▶ Vehicle standards
 - ▶ Conventions/cross border issues
 - ▶ Cyber – security
 - ▶ Over the air updates