Adaptive regulation – autonomous cars

IRGC - 7 January 2016, Ian Yarnold

Moving Britain Ahead
# Recent Activity

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>February 2013</td>
<td>Oxford University Robotics Group</td>
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<td>Automated Nissan Leaf testing on UK roads</td>
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<td>December 2013</td>
<td>Chancellor announces the Review of Regulations for driverless cars</td>
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<td>July 2014</td>
<td>Driverless cars - £10m innovation prize fund announced for automated vehicle technologies</td>
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<td>February 2015</td>
<td>Publication of <em>The Pathway to Driverless Cars</em>: review and launch of the prize fund trials.</td>
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<td>July 2015</td>
<td>Publication of <em>The Pathway to Driverless Cars</em>: A Code of Practice for testing</td>
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<td>July 2015</td>
<td>Intelligent mobility fund - £20m Connected and autonomous vehicles R&amp;D fund.</td>
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The Pathway to Driverless Cars

- UK Government published a detailed review of regulations on 11 February 2015
- Three main deliverables
  - **A Code of Practice** - spring 2015.
  - **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