Piloting Automated Driving on European Roads

Driving Future Platform
7 March 2018, European Parliament, Brussels

Aria Etemad
Volkswagen Group Research
1,000 drivers
100 cars
10 countries
See SAE document J3016, “Taxonomy and Definitions for Terms Related to Driving Automation Systems for On-Road Motor Vehicles”, revised 2016-09-30, see also http://standards.sae.org/j3016_201609
From euroFOT to L3Pilot
Longitudinal control functions
- Forward Collision Warning (FCW)
- Adaptive Cruise Control (ACC)
- Speed Restriction System (SRS)

Lateral control functions
- Blind Spot Information System (BLIS)
- Lane Departure Warning (LDW)
- Impairment Warning (IW)

Advanced applications
- Curve Speed Warning (CSW)
- Fuel Efficiency Advisor (FEA)
- Safe Human Machine Interaction (SafeHMI)
AdaptIVe

<table>
<thead>
<tr>
<th>SPEED</th>
<th>Exclusive area</th>
<th>Dedicated lane</th>
<th>Motor vehicles</th>
<th>All road users</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>Highway applications</td>
<td></td>
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<tr>
<td>Mid</td>
<td>Urban applications</td>
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<tr>
<td>Low</td>
<td>Parking applications</td>
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</table>

TRAFFIC COMPLEXITY

- Highway applications: < 130 km/h
- Urban applications: < 70 km/h
- Parking applications: < 30 km/h

7 March 2018
Motorway  Traffic Jam  Urban  Parking

1,000 drivers  100 cars  10 European countries
Pilot across Europe

<table>
<thead>
<tr>
<th>Country/Region/OEM</th>
<th>Country/Region/OEM</th>
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</thead>
<tbody>
<tr>
<td>BE / Brussels / NL</td>
<td>Toyota</td>
</tr>
<tr>
<td>DE / Aachen</td>
<td>Ford</td>
</tr>
<tr>
<td>DE / Munich</td>
<td>BMW</td>
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<tr>
<td>DE / Offenbach</td>
<td>Honda</td>
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<tr>
<td>DE / Wolfsburg</td>
<td>VW</td>
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<tr>
<td>FR / Paris and other regions</td>
<td>REN / PSA</td>
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<tr>
<td>IT / Turin and Trento</td>
<td>CRF</td>
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<tr>
<td>LU / NL</td>
<td>Delphi</td>
</tr>
<tr>
<td>SE / Gothenburg</td>
<td>Volvo</td>
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<tr>
<td>UK / Coventry</td>
<td>JLR</td>
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</tbody>
</table>

CROSSBORDER

- Austria
- Germany
- Austria
- Italy
- Belgium
- Germany
- Belgium
- Netherlands
- Finland
- Sweden
- France
- Germany
- Germany
- Netherlands
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723051.

- **€68 million** BUDGET
- **48 months** DURATION, starting in September 2017
- **€36 million** FUNDING
- **34 PARTNERS**, among them OEMs, suppliers, research, SMEs, insurers, authorities and user groups
- **12 COUNTRIES** involved: Austria, Belgium, France, Finland, Germany, Greece, Italy, Netherlands, Norway, Sweden, Switzerland, UK
Thank you for your kind attention.

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