Informal Group

“Automatically Commanded Steering Function (ACSF)”
Summary

• Proposal to establish an IWG for ACSF in the 79th meeting of GRRF

• WP29 endorsed the creation of the IWG in the 165th session, TOR shall be reviewed in the next session

• 3 IWG meetings hold between 79th and 80th session of GRRF

• All documents are available on the official website of the IG "ACSF"
Structure of the ASCF requirements

Definitions for ACSF
- 5 categories
- new terms

Special Warning Provisions for ACSF

Special Provisions for ACSF
- General
- Operation of ACSF
- System information data
- Transition demand
- Minimum Risk Manoeuvre

Test Requirements
5 Categorys of ACSF

- **Category A**: a function that operates at a speed not greater than 10 km/h to assist the driver, on demand, in low speed manoeuvring or parking operations.

- **Category B**: a function which is initiated/activated by the driver and which keeps the vehicle within its lane by influencing the lateral movement of the vehicle.

- **Category C**: a function which can perform a single manoeuvre (e.g. lane change) when commanded by the driver.

- **Category D**: a function which can indicate the possibility of a single manoeuvre (e.g. lane change) but performs that function only following a confirmation by the driver.

- **Category E**: a function which is [initiated/activated] by the driver and which can continuously determine the possibility of a manoeuvre (e.g. lane change) and complete these manoeuvres for extended periods without further driver command/confirmation.]
## Test requirements for ACSF (new Annex 7)

<table>
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<tr>
<th>Description</th>
<th>What is tested</th>
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<tr>
<td><strong>Functional Test 1</strong></td>
<td>Safe lane keeping</td>
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<td><strong>Functional Test 2</strong></td>
<td>Safe lane change</td>
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<tr>
<td><strong>Transition Test 1</strong></td>
<td>• Transition demand&lt;br&gt;• Minimum Risk Maneuvre&lt;br&gt;• System boundaries ($a_y$)</td>
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<td>Tight curve ($a_y &gt; 3m/s^2$)</td>
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<td><strong>Transition Test 2</strong></td>
<td>• Transition demand&lt;br&gt;• Minimum Risk Maneuvre&lt;br&gt;• System boundaries (missing lane marking)</td>
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<tr>
<td>Missing lane marking</td>
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<td><strong>Emergency Test 1</strong></td>
<td>Braking behind a vehicle, which suddenly decelerates sharply</td>
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<tr>
<td><strong>Emergency Test 2</strong></td>
<td>Braking behind a small static obstacle (Motorcycle)</td>
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Next meetings

• 4th meeting of the IG „ACSF“
  25th – 27th in Tokyo, JASIC Office

• Currently checking the possibility of a 5th meeting in January 2016
Thank you for your attention!

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