Task force on regulatory Fitness for ADS

Status report
Context and purpose

Original mandate (given by WP.29 186th session):
• Scan all 167 UN Regulations and 23 Global Technical Regulations
• Expected at 190th session in June 2023: Report, summary and details for each Regulation, instructions for drafting amendments

• Contracting Parties and the industry need a regulatory environment for automated vehicles, including non-ADS Regulations
• Which existing Regulations are relevant for automated vehicles? Which ones need to be amended before being applicable to vehicles with ADS?
Report to WP.29

**New mandate**
- All groups may start drafting amendments to proposed “priority Regulations”
- The groups shall present a timeline for amending relevant regulations at WP.29 in March 2024
- Coordination between groups shall continue for common definitions, translations and solutions to cross-GR issues
Contents of the report

Relevance / readiness screening overview

List of relevant keywords

List of high-level issues

List of Regulations & GTRs to amend in priority

Screening results for individual Regulations and GTRs
# Focus on GRVA Regulations

<table>
<thead>
<tr>
<th>Relevant</th>
<th>R155</th>
<th>R156</th>
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<tbody>
<tr>
<td>No changes needed</td>
<td>Cybersecurity</td>
<td>Software Updates</td>
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<th>R13-H</th>
<th>R79</th>
<th>R78</th>
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<th>GTR3</th>
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<td>Braking (HDV)</td>
<td>Braking (cat. M₁-N₁)</td>
<td>Steering</td>
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<td>(A)SLD/F</td>
<td>LDWS</td>
<td>AEBS (HDV)</td>
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**To amend in priority**
Areas of work

**Amending R13, R13-H and R79**

- Drafting led by EC with support from JP, UK, OICA/CLEPA
- **First amendment proposal to include dual-mode vehicles only**
- First drafts to be completed in October

*Highest priority*

**Cross-GR issues**

- (Sub)categories for automated vehicles
- Impact of ODD on performance and testing requirements
- Test mode
- Dual-mode interactions
- Etc.

**Common definitions**

- Based on FRAV definitions
- Currently drafting the smallest possible list of needed definitions (see next slide)

**Common translations**

- First draft transmitted to the other groups
Definition dependencies (from FRAV-43-04rev4)

**Operational Design Domain**
Operating conditions under which an **ADS feature** is specifically designed to function.

**ADS feature**
An application of **ADS** hardware and software designed specifically for use within an ODD.

**Automated Driving System**
The hardware and software that are collectively capable of performing the entire **DDT** [...]

**Operational function**
A capability to control the real-time motion of the vehicle.

**Tactical function**
A capability to perceive the vehicle environment [...] 

**Dynamic Driving Task**
The real-time **operational and tactical functions** required to operate [...] 

**Example**: a definition such as “maximum design speed of the vehicle” needs to be changed to introduce the maximum speed supported by the **ODD**.

These definitions should not have to be added to each relevant Regulation

The groups would welcome a **central document at the WP.29 level**

FADS will consult FRAV for missing useful definitions (dual-mode vehicle, etc.)
Next steps

• Full focus on amendments to R13, R13-H and R79 for dual-mode vehicles

• Meeting in Paris on 16-19 October 2023
  • 16-17 (joint meeting of ADS fitness groups): review of cross-GR items (issues, definitions, translations)
  • 18-19 (FADS only): review of amendment drafts for R13, R13-H and R79

• FADS aims to present first amendment proposals at the 18th GRVA session in January 2024

Requesting validation from GRVA

• Areas of work: amendments, issues, definitions, translations
• Immediate priority: amend R13, R13-H and R79 for dual-mode vehicles