GRVA Taskforce on Fitness for ADS

1st Meeting — 7 October 2022

Recap of guidance from WP29 & GRVA

- Report to WP29 in March 2023
- Intermediary report to GRVA in January 2023
- Guidance from GRVA:

1. Vehicles in the scope:

- Vehicles equipped with an ADS including, but not limited to:
 - Dual-mode vehicles
 - Vehicles without manual driving capabilities
 - Vehicles with or without occupants

2. Screen regulations with:

- Terms such as "driver" (interaction with controls in the vehicles, signals, etc.), "seating position" (incl. seat references) and other topics (performance requirements)
- Terms such as "driver", "seating position", "seat", etc. in relation with testing provisions

3. Recommendation:

Any proposal to introduce ADS-related terminology shall be reviewed by GRVA to ensure consistent terms and definitions.

Inventory of GRVA Regulations and GTRs

Regulation	Title
R13	Heavy vehicle braking
R13H	Brakes of M1 and N1 vehicles
R78	Braking (category L vehicles)
R79	Steering equipment
R89	Speed limitation devices
R90	Replacement braking parts
R102	Close coupling devices (CCDs)
R130	Lane Departure Warning System (LDWS)
R131	Advanced Emergency Braking Systems (AEBS)
R139	Brake Assist Systems (BAS)
R140	Electronic Stability Control (ESC)
R147	Mechanical coupling components of combinations of agricultural vehicles
R152	Advanced Emergency Braking Systems (AEBS) for M1 and N1 vehicles
R155	Cyber security and cyber security management system
R156	Software update and software update management system
R157	Automated Lane Keeping System (ALKS)

GTR	Title
GTR 3	Motorcycle brake systems
GTR 8	Electronic stability control systems

_____ = within scope

= to be decided

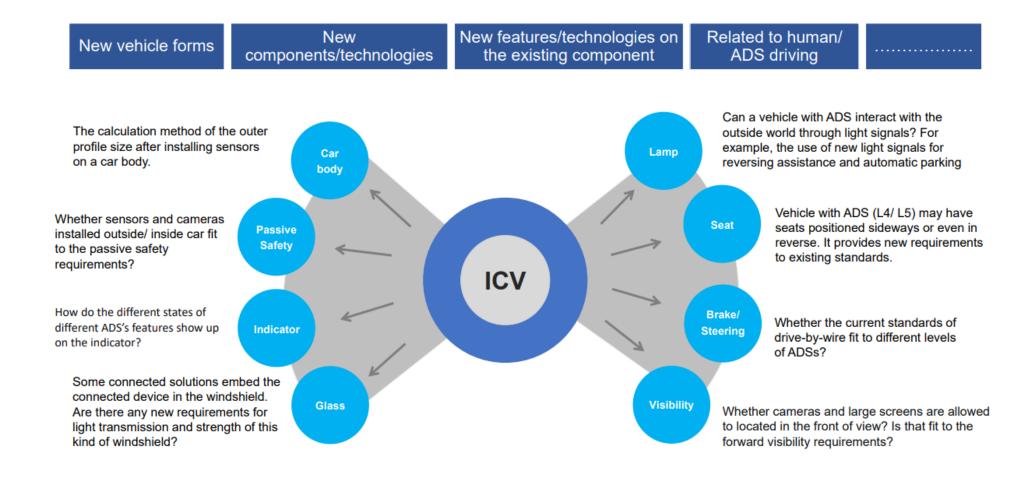
= may need to consult GRSG

Inventory of relevant explicit terms

Relevant terms for scanning Regulations and GTRs								
Word	Variations							
Driver	Person							
Driving seat	Seating position	R point	Driving position					
Foot	Pedal							
Hand	Steering wheel							
Eye	See	Visible						
Hear	Audible							
Telltale	Visual warning	Acoustic warning	Haptic warning	optical signal	instrument panel			
Pedal								
Steering Wheel								
Manual								

Provisional template for listing terms related to human driving

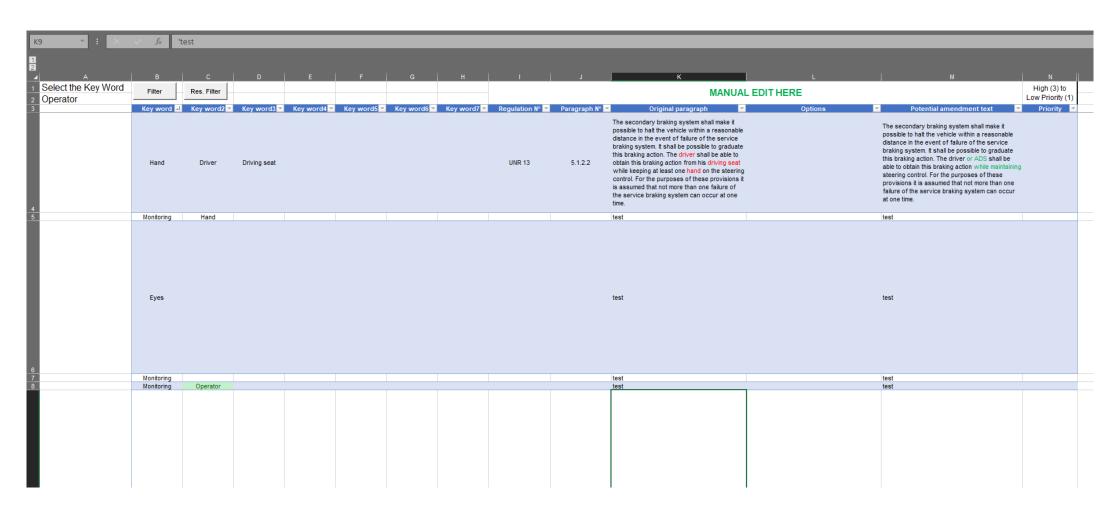
Inventory of relevant implicit terms



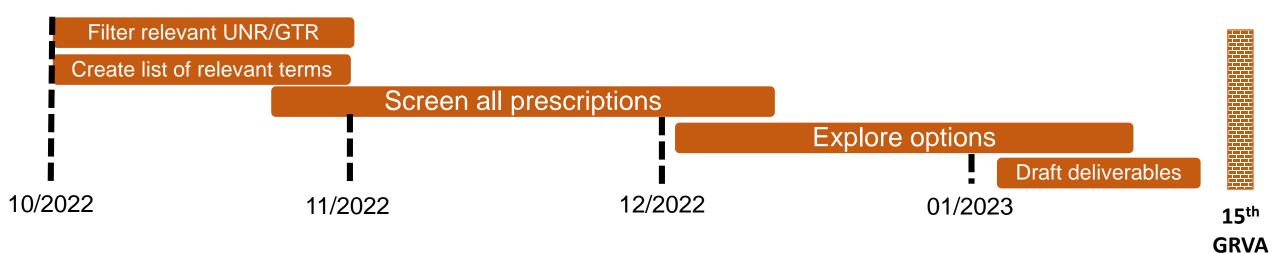
Deliverables

- Table of all relevant prescriptions
- Reason for ADS impactLevel of impact / priority
- Step 2 Options for making the prescription fit for ADS
 - TBD: Whitebook for drafting future Regulations / GTRs
 - For non ADS Regulations, terms to avoid and precautions to take
 - For ADS Regulations, prescriptions identified in non ADS Regs that must be implemented in ADS Regs

Template spreadsheet for screening UNR/GTR



Provisional timeline



Scheduling future meetings

- 2nd meeting targeted for 21 October
- Target pace: 5~6 meetings before 15th GRVA

- In-person meetings: welcoming volunteers for hosting
 - Potential dates:
 - Mid-December
 - Week before 15th GRVA (e.g. 19-20 January 2023)
 - Between 15th GRVA and 189th WP29 (February 2023)

Next steps

• Link to all relevant files: https://wiki.unece.org/pages/viewpage.action?pageId=179700571

- Next meeting:
 - Presentation of existing work
 - Validation of relevant UNR / GTR
 - Validation of relevant terms
 - Dispatching UNR/GTR screening

Backup

- EU ADS Regulation 2022/1426
- NHTSA Occupant Protection for Automated Driving Systems