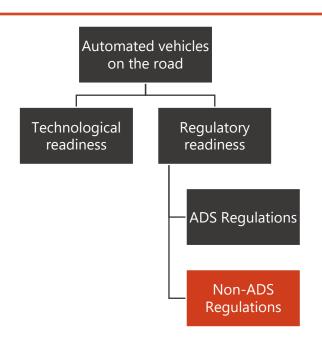
Submitted by the expert from France on behalf of the authors of ECE/TRANS/WP.29/2023/86

Informal document WP.29-190-23 190th WP.29, 20–22 June 2023 Agenda item 2.3

Fitness of UN Regulations and UN Global Technical Regulations for their application to automated vehicles

Short reminder on the context of the screening



- Contracting Parties and the industry need a Regulatory environment for automated vehicles
- Existing Regulations must be checked to determine which ones may be applicable to automated vehicles
- Screening taskforces were established by WP.29 for each GR to determine the overall status of all Regulations

Mandate (given by WP.29 186th session):

 Scan all 166 UN Regulations and 23 Global Technical Regulations to determine their relevance for fully automated vehicles, and whether changes are needed.

Focus (given by GRVA 14th session):

 All use cases should be considered, especially dual-mode vehicles, vehicles without manual driving capabilities and vehicles without occupants

Organization of the screening

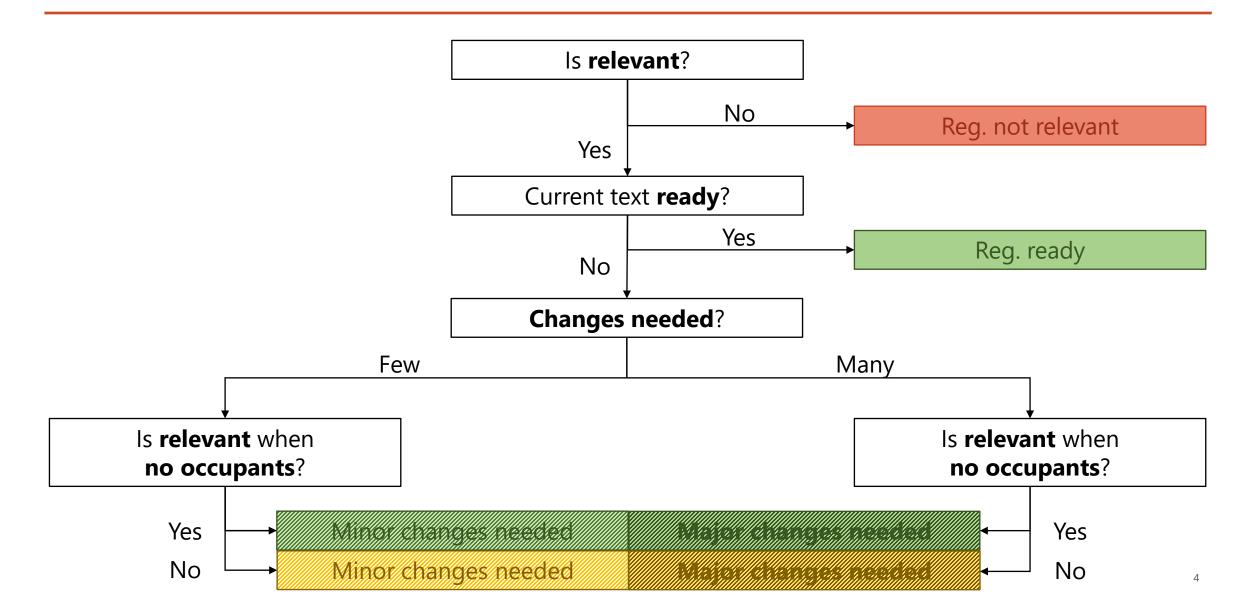
6 screening task forces were established as follows:

- Working Party on Noise and Tyres (GRBP): chaired by the Netherlands and secretariat provided by OICA
- Working Party on Lighting and Light-Signalling (GRE): Co-chaired by Germany and the United Kingdom, and secretariat provided by the International Automotive Lighting and Light-Signalling Expert Group (GTB)
- Working Party on Pollution and Energy (GRPE): Chaired by the Netherlands
- Working Party on General Safety (GRSG) provisions: Chaired by the Netherlands, and secretariat provided by OICA
- Working Party on Passive Safety (GRSP): Chaired by Germany, and secretariat provided by OICA
- Working Party on Automated/Autonomous and Connected Vehicles (GRVA): Co-chaired by France and China

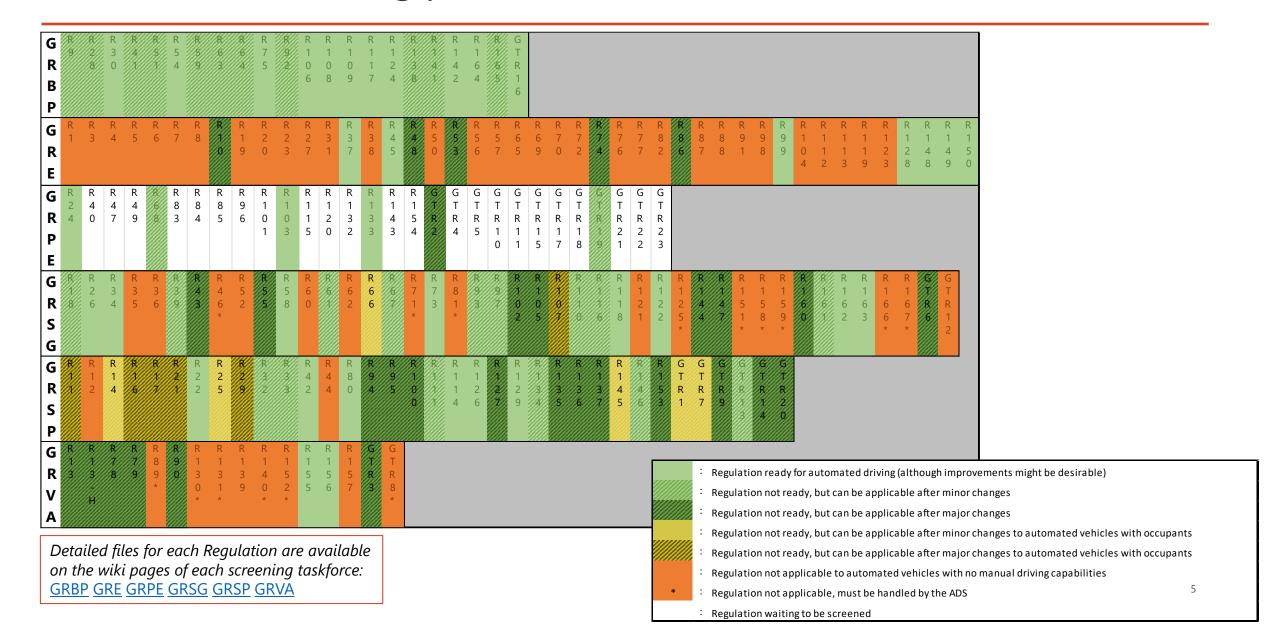
Plenty meetings at each GRs level + coordination meeting of TF chairs

Report in WP29 by GRVA TF chairs of behalf of other TF chairs

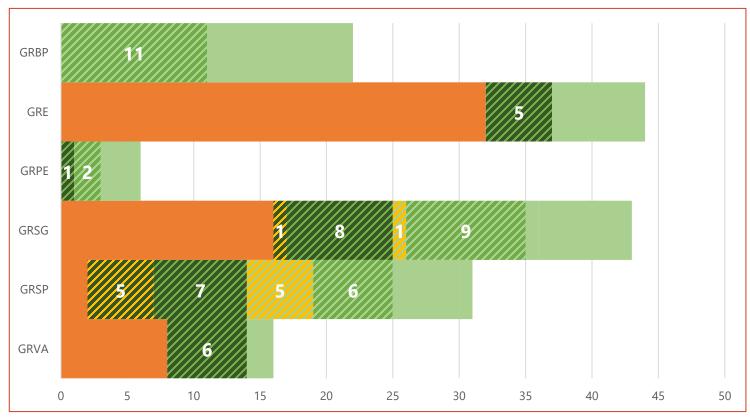
Screening process of a Regulation / Objectives



Result of the screening process (1/2)



Result of the screening process (2/2)



Number of Regulations by status

- : Regulation ready for automated driving (although improvements might be desirable)
- : Regulation not ready, but can be applicable after minor changes
- : Regulation not ready, but can be applicable after major changes
- Regulation not ready, but can be applicable after minor changes to automated vehicles with occupants
- Regulation not ready, but can be applicable after major changes to automated vehicles with occupants
- : Regulation not applicable to automated vehicles with no manual driving capabilities

Main Open Issues

- Categories / sub-categories for automated vehicles
 - Depending of decision on that topic, a clear roadmap is needed in order to amend Regulations accordingly
- Impact of the ADS ODD on performance and testing provisions
 - Should vehicles with restricted Operational Design Domains benefit from adapted performance and testing provisions?
- Test mode
 - How can manufacturers enable Type Approval Authorities and Technical Services to perform testing scenarios for emissions measurement, braking, etc. for driverless vehicles?
- Unknown policies
 - Are children allowed to travel unattended in automated vehicles? Can automated vehicles carry dangerous goods? How should an ADS react to a passenger unfastening its seatbelt? Etc.

Next steps

• The Task Forces welcome AC.2's recommendations to the GRs to start amending the regulations, with the following priorities:

Subsidiary Working Party	Regulations to be amended in priority
GRBP	R9, R28, R51, R138, R165
GRE	R10, R48
GRPE	To be decided after all Regulations have been screened.
GRSG	R43, R107, R160, R.E.3 ¹ , S.R.1 ¹
GRSP	R11, R14, R16, R 17, R 21, R29, R94, R95, R100
GRVA	R13, R13-H, R79

^{1:} In collaboration with GRVA

• The Task Force welcome AC.2's recommendation that the established coordination of task forces continue to provide coordination.