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Item 2.2 of the provisional agenda

Coordination and organization of work:

Programme of work and documentation

Programme of Work of the World Forum for Harmonization of Vehicle Regulations (WP.29) and its Subsidiary Bodies

Note by the Secretariat*

The text reproduced below was prepared by the Secretariat for consideration by the World Forum. It takes into account the results and decisions taken at 190th session (ECE/TRANS/WP.29/1171), comments from GRBP, GRVA, GRSG, GRE and GRPE, and the proposed agenda for its 191st and 192nd sessions (ECE/TRANS/WP.29/1174 and 1176) and updates also the information on the work of the six subsidiary Working Parties to WP.29.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2024 (A/77/6 (Sect. 20), table 20.6), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

Program me of Work of the World Forum for Harmonization of Vehicle Regulations and its Subsidiary Bodies

Main topics of work of the World Forum for Harmonization of Vehicle Regulations and its subsidiary bodies

The World Forum for Harmonization of Vehicle Regulations has aligned its work to the Agenda 2030 incorporating into its regulatory framework the technological innovations of vehicles to make them safer and more environmentally sound and thus contributing to the implementation of SDGs 3, 7, 9, 11 and 13.

The Inland Transport Committee (ITC), at its eighty-first annual session in 2019 adopted the ITC Strategy until 2030, invited its subsidiary bodies to take follow-up actions aligning their work with the strategy. In June 2019, the ITC Chair invited all Chairs of Working Parties or Administrative Committees to support in the implementation of the ITC Strategy by proposing a concrete plan aligning the work of their Working Party or Administrative Committee with the ITC strategy.

For the implementation of the ITC strategy ITC identified that, apart from the regular work, the subsidiary bodies need to undertake the following tasks in the Strategy (only those relevant to WP.29 are displayed):

(a) Amendments to the legal instruments with geographical and procedural barriers by 2025 (all WPs/SCs and ACs);

(b) Review of relationship of the existing legal instruments and recommendations by 2022 (all WPs/SCs and ACs to review the legal instruments in the context of different clusters, namely safety, cross-border efficiency, environment and connectivity);

(c) Identification of additional necessary legal instruments (Based on the review, all WPs/SCs and ACs to identify gaps of the legal instruments fully meet the needs for safety, cross-border efficiency, environment and connectivity);

...

(e) Exploring possible new legal instruments from 2020 (all WPs/SCs and ACs based on the above item (c));

(f) Further expand global participation in, and cooperation between, WP.1 and WP.29;

(g) Update DETA and host it at ECE from 2022 onwards (WP.29). This should include consideration given to broadening the current scope of DETA to address needs of 1998 Contracting Parties¹;

...

(j) Identify, foster and facilitate the introduction of new technologies in the rail, road, road-based mobility, inland waterway, logistics, intermodal transport until 2030 (all WPs/SCs and ACs). The deliverables for this activity should follow realistic timelines, mutually agreed by Contracting Parties;

(k) Enhance support to automated vehicles from 2019, including continuation of amendments to the existing legal instruments and standards, and possible development of new agreement(s), guidance documents, or all if necessary (WP.1 and WP.29);

(l) New training standards and competency criteria from 2022 (all WPs/SCs and ACs with legal instruments);

...

¹ United States of America oppose hosting DETA at ECE under United Nations Regular Budget

(q) New tools and activities from 2019, e.g. - THE PEP; further development of local pollutant module of ForFITS; reviews on green transport and mobility (WP. 5, WP.29);

...

In conclusion and considering ITC's special priority of global interest, Road Safety and Climate Change mitigation, the top priorities for the work of the World Forum for Harmonization of Vehicle Regulations are related to vehicle safety, including the field of automated vehicles paving the way for a regulatory framework supporting the introduction of these emerging technologies towards future autonomous vehicles, and to environmental protection and climate change mitigation. A detailed list of UN Regulations, UN GTRs, UN Rules and Resolutions for discussion at the upcoming sessions of WP.29 is shown in Table 1.

1. Further development and implementation of the three Vehicle Agreements

1.1. **1958 Agreement:** Following the adoption and entry into force of Revision 3 of the 1958 Agreement on 14 September 2017, the requirements for International Whole Vehicle Type Approval (IWVTA) are to be further developed within UN Regulation No. 0. and DETA to be further developed by adding the modules for Unique Identifier (UI) and Declaration of Conformance (DoC).

1.2. **1997 Agreement:** Amendments to the agreement entered into force on 13 November 2019 introducing elements related to the performance and quality of periodic technical inspections. These endeavours were underpinned by resolution R.E.6 covering skills and training for inspectors, requirements for testing equipment and supervision of test centres. Two additional rules were established covering vehicles with gaseous fuels and electric or Hybrid electric propulsion systems. Access to information necessary for performance of periodic technical inspection of modern vehicles and their electronic controlled safety components needs to be addressed.

1.3. **1998 Agreement:** Following the establishment of Special resolution S.R.3, the implementation of the agreement will be followed with a more strategic approach by identifying key elements that define elements the work will focus on.

2. Horizontal activities

2.1. Performance requirements outside test conditions (ECE/TRANS/WP.29/1126, para. 21) and whole life compliance are elements to be considered in all areas of work both in WP.29 and in all GRs.

2.2. Screening of existing UN Regulations / UN GTRs for necessary amendments to enable automated driving systems.

3. Main topics of the Subsidiary Bodies

3.1. As of the 184th session of WP.29, all GRs were invited to regularly perform a review of their activities and to update their top priorities of their work. The outcome of this review provided the basis for the establishment of the Programme of Work of the World Forum for Harmonization of Vehicle Regulations (WP.29) and its Subsidiary Bodies for the year 2022 and beyond (ECE/TRANS/WP.29/1159, paras. 34 and 35). There was common agreement that in addition to the work on top priorities, existing UN Regulations, UN GTRs and UN Rules would need to be updated for keeping pace with technical progress on a continuous basis. GRs identified the following main priorities of work for 2023:

3.1.1. GRBP main topics are the work on real driving Additional Sound Emission provision (ASEP), for Quiet Road Transport Vehicles (QRTV), Measurement Uncertainties, Wet Grip of Worn Tyres (WGWT), as well as Tyre Abrasion Test method.

A detailed list of priority activities of GRBP is presented in Table 2.

3.1.2. GRE is continuing the work on simplification of the lighting regulations following the establishment of the UN Regulations Nos. 148,149 and 150 as well as Resolution R.E.5 on the common specification of light source categories. Once the first stage of simplification is finalized, in the second stage, GRE will focus on introducing technology neutral

requirements, also taking into account work to avoid glare and to ensure good visibility for dipped beam headlamps. Installation requirements will be updated by new Series of Amendments for Regulation No. 48 EMC issues will be addressed, not only specifically for certain vehicles and functionalities (e.g. for electrical vehicles) but also generally for adaptation to technical progress (e.g. consideration of enlarging frequency test-range, assistance systems)..

A detailed list of priority activities of GRE is presented in Table 3.

3.1.3. GRPE main area of work is related to improvement of exhaust emissions requirements to ensure real drive performance on the road, new propulsion energy including in-vehicle battery durability or hydrogen systems as well as particulate emissions: Provisions to limit airborne particulates from different sources e.g. sub-23 nm exhaust particles and particulates stemming from brake emissions and/or tyre wear. GRPE will embark activities on vehicle Life Cycle Assessment of energy consumption and carbon emissions including i.a. design, manufacturing, use, recycling and disposal.

A detailed list of priority activities of GRPE is presented in Table 4.

3.1.4. GRVA is establishing further elements for the UN vehicle regulatory framework towards automated driving. This includes transforming the established Functional Requirements for automated / autonomous vehicles and New assessment / Test methods into regulatory legal texts on Automated Driving Systems under both the 1958 and 1998 Agreements; Work on Cyber security and (Over-the-Air) Software updates and Data Storage System for Automated Driving vehicles (DSSAD) will be continued. GRVA will further elaborate requirements for Advanced Driver Assistance Systems (ADAS) based on the UN Regulation No.79, Automated Emergency Braking Systems (AEBS) based on UN Regulation No.131 and Automated Lane Keeping Systems based on UN Regulation No. 157.

A detailed list of priority activities of GRVA is presented in Table 5.

3.1.5. GRSG work will focus on common performance requirements for EDR suitable for both 1958 and 1998 Agreements, EDR for ADAS equipped vehicles and for Heavy Duty Vehicles (HDV), direct visibility by drivers of HDVs and heating systems for electric vehicles. GRSG will consider inclusion of automated vehicles in the vehicle classification system in R.E.3.

A detailed list of activities of GRSG is presented in Table 6.

3.1.6. GRSP focuses its work on crashworthiness. Current priorities are electric vehicle safety, pedestrian safety and child safety. Further work priorities are hydrogen and fuel cell vehicles as well as update of UN crash regulations and head restraints.

A detailed list of priority activities of GRSP is presented in Table 7.

Table 1
Subjects under consideration by the World Forum (WP.29) at its 190th session

<i>Subject</i>	<i>Document symbol ECE/TRANS/WP.29/...</i>	<i>Documentation availability</i>
1.0. Automated/Autonomous Driving		
1.0.1. Framework document on automated/autonomous vehicles.		
1.0.2. Functional Requirements for automated/autonomous vehicles		
1.0.3. New assessment / Test method Automated Driving Systems		
1.0.4. Cyber security and (Over-the-Air) Software updates		
1.0.5. Event Data Recorder (EDR)		
1.0.6. Data Storage System for Automated Driving vehicles (DSSAD)		
1.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda (1174 and 1176)
1.1.1. Proposal for amendments to UN Regulations to be considered at the March and June 2024 sessions		
UN Regulation No.:		
16 (Safety-belts)		
94 (Frontal impact)		
95 (Lateral impact)		
127 (Pedestrian safety)		
129 (Enhanced Child Restraint systems)		
134 (Hydrogen and Fuel Cells Vehicles)		
135 (Pole side impact)		
137 (Frontal impact with focus on restraint systems)		
153 (Fuel system integrity and electric power train safety at rear-end collision)		
24 (Visible pollutants, measurement of power of C.I. engines (Diesel smoke))		
49 (Emissions of compression		

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
ignition and positive ignition (LPG and CNG engines)		
83 (Emissions of M1 and N1 vehicles)		
85 (Measurement of the net power and the 30 min. power)		
101 (CO2 emission/fuel consumption)		
13 (heavy vehicle braking)		
78 (braking of Category L vehicles)		
79 (steering equipment)		
155 (Cyber Security and Cyber Security Management System)		
51 (Noise of M and N categories of vehicles)		
41 (Noise emissions of motorcycles)		
54. (Tyres for commercial vehicles and their		
75 (Tyres for L-category vehicles)		
109 (Retreaded tyres for commercial vehicles and their trailers)		
117 (Tyre rolling resistance, rolling noise and wet grip)		

1.1.2. Proposal for new UN Regulations to be considered at the June 2023 session

Proposal for a new UN Regulation on Global Real Driving Emissions (Global RDE)

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
1.1.3. Status of the Agreement and of the annexed UN Regulations, including the latest situation report	343/Rev.31	
1.1.4. Development of an International Whole Vehicle Type Approval (IWVTA) system,		
1.1.5. Consideration of amendments to the 1958 Agreement.		
1.1.6. Development of an electronic database for the exchange of type approval documentation (DETA)		
1.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda (1172)
1.2.1. Consideration of draft UN GTRs and amendments to them to be considered at the June 2022 session New UN GTR on Laboratory Measurement of Brake Emissions for Light-Duty Vehicles.		
1.2.2. Consideration of Mutual Resolutions Nil		
1.2.3. Guidance for the development of UN GTRs: Nil		
1.2.4. Progress on the development of new UN GTRs and of amendments to established UN GTRs		
1.2.5. Progress on the development of new UN GTRs and of amendments to established UN GTRs		
9 (Pedestrian safety).		
13 (Hydrogen and Fuel Cell Vehicles (HFCV) – Phase 2)		
20 (Electric Vehicles Safety (EVS))		
22 (In-vehicle battery durability (Electric vehicles and the environment));		
Draft UN GTR on Quiet Road Transport Vehicles (QRTV)		
Draft UN GTR on Global Real Driving Emissions (GRDE)		
Proposal for a draft UN GTR on brake particulate emissions;		
Proposal for a draft UN GTR on in-vehicle battery durability for electrified heavy-duty vehicles.		

<i>Subject</i>	<i>Document symbol</i>	<i>Documentation</i>
1.2.6. Exchange of views on items for further development of	<i>ECE/TRANS/WP.29/...</i>	<i>availability</i>
Event Data Recorder (EDR)		

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
1.3. 1997 Agreement (Inspections)		For document symbols and its availability, please refer to the agenda (1170)
1.3.1. Future development of the Agreement		
1.3.2. Consideration of new UN Rules		Nil
1.3.3. Update of existing UN Rules		Nil
1.3.4. Amendments to Resolution R.E.6		Nil

"Table 2
Subjects under consideration by the Working Party on Noise and Tyres (GRBP)

GRBP							
N°	Title	Tasks / Deliverables	References	Allocations / IWGs	Timeline	Chair/Initiator	Comments
Priority	Real Driving Additional sound emission Provisions (ASEP)	Real driving sound emissions and the extended work of IWG ASEP such as manipulation-safe active components and software, anti-tampering, ASEP NORESS	UN-R41	IWG ASEP	<u>GRBP [2023]</u> : UN-R41 2nd step	Chair: Germany (tbc.) Secretariat: OICA (tbc.)	M ₁ , N ₁ (First step done in R 51) → further work to be started in 2024 after the one-year monitoring period. The 2 nd step for UN-R41 (L-cat.) still in progress and to be restarted with the group in 2023. NORESS for L3 and M1/N1 should be worked in parallel under GRBP after the one-year monitoring period in UN-R51 from 2024.
Priority	Measurement Uncertainties	Application to UN- R 117	UN R 117	IWG MU	<u>GRBP-78 sept 2023</u> Working doc for UN- R117 (step 1)	Chair : Norway Secretariat : OICA	Done for UN-R51. Proposal to cluster the regulations per subject as for instance for UN R138 (TF-QRTV) and Draft WGWT test procedure.

GRBP							
N°	Title	Tasks / Deliverables	References	Allocations / IWGs	Timeline	Chair/Initiator	Comments
Priority	Revision of UN-R138 -AVAS	Review of UN-R138 for AVAS (technical, language, consistency, interpretation, operation range) Ensure compatibility/ consistency between UN R138 and Draft UN R51.03 RD-ASEP Ramp-up max. sound level curve under any driving condition to establish a handshake between UN R138 maximum sound and RD-ASEP of UN-R51.	UN-R138 Draft UN-R51-03 (including RD-ASEP)	TF QRTV	<u>1st step:</u> ▪ GRBP-78 (Sept.2023): informal doc. ▪ GRBP-79 (Jan.2024): Working doc. <u>2nd step:</u> ▪ GRBP-80 (Sept.2024): Informal doc. ▪ GRBP-81 (Jan.2025): Working doc.	Chair: Germany Secretary OICA	To be considered: -US FMVSS 141 & UN-R138 AVAS. -Review sound specifications & test conditions. -ISO 16254 Technical results expected
Priority	Wet Grip on Worn Tyres (WGWT)	Additional prescriptions regarding performances on Wet Grip of Worn Tyres to be added in UN-R117.	UN-R117	IWG WGWT	▪ GRBP-78 (Sept.2023): Informal document ▪ GRBP-79 (Feb. 24): working document ▪ GRBP-82 (Sept.2025): Informal doc ▪ GRBP -83 (Feb. 2026) Working document	Co-Chairs: France & European Commission Secretariat: ETRTO	Test precision improvement on water depth Test precision procedure
Priority	Tyre Abrasion Test method development	Microplastics from tyres, including: Method for rating tyres based on their abrasion performance. enabling the quantification of microplastic emissions from tyres. investigating correlation between abrasion rate and durability of tyres.	Current regulation or new regulation	Task Force TF-TA (in cooperation with GRPE)	▪ <u>GRBP-78 (Sept.2023)</u> Informal document (submitted to 88th GRPE in June 2023). ▪ <u>GRBP-79 (Fev.2024)</u> Working document (submitted for feedback to the 89th GRPE in January 2024).	Co-Chairs: EC & France Secretariat: ETRTO	C1 Taken into account through (EU) 2020/740 Regulation. Introduction in current UN regulations and/or new regulation under GRBP? C2, C3 at a later stage
Priority	Expand the scope of UN-R28 for new functions 'warning sound outside'	Review UN-R28 and cross-references to other UN Regulations, provide definitions and specifications (if needed) review Communication form. check for application of UI	UN-R28, UN-R97, UN-R138, UN-R165, EU-NCAP Roadmap 2025	GRBP	GRBP-78 (Sept.2023): Report	OICA	EU-NCAP with plan for 'child presence' inside the car. See WP 29 report Sound outside of the vehicles.

<i>GRBP</i>							
<i>N°</i>	<i>Title</i>	<i>Tasks / Deliverables</i>	<i>References</i>	<i>Allocations / IWGs</i>	<i>Timeline</i>	<i>Chair/Initiator</i>	<i>Comments</i>
Priority	Small group on retreaded tyres regulations	To amend UN-R108 and R109 by addressing the provisions for snow tyre for use in severe snow conditions in a new UN-Regulation	UN-R108 UN-R109	GRBP	GRBP-77 (February 2023): Report GRBP-78 (September 2023): Informal Document GRBP-79 (February 2024): Working Document	ETRTO	new UN-Regulation
Priority	Reference test track	Influence of surfaces on real sound emissions of the vehicles vs. ISO test track for exchange of information	All regulations concerned by	GRBP			To take into account the test surfaces and see how to manage these road surfaces. Other parties are invited to be involved in this topic.

Subjects under consideration by the Working Party on Noise and Tyres (GRBP) at its 76th session

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
2.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the seventy-fifth session (GRBP/2023/1)
2.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
Part 1 – Noise:		
51 (Noise of M and N categories of vehicles);		
138 (Quiet road transport vehicles).		
Part 2 – Tyres:		
30 (Tyres for passenger cars and their trailers);		
54 (Tyres for commercial vehicles and their trailers)		
75 (Tyres for L-category vehicles)		
106 (Tyres for agricultural vehicles and their trailers)		
117 (Tyre rolling resistance, rolling noise and wet grip);		
141 (Tyre pressure monitoring system);		
2.1.2. Proposal for draft new UN Regulations (1958 Agreement):		
Nil.		
2.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda of the seventy-fourth session (GRBP/2023/1)

Table 3
Subjects under consideration by the Working Party on Lighting and Light-Signalling (draft Priority of Work of GRE for WP.29 level)

<i>GRE</i>							
<i>Priority / Recurrent</i>	<i>Title</i>	<i>Tasks / Deliverables</i>	<i>References</i>	<i>Allocations / IWGs</i>	<i>Timeline</i>	<i>Initiator</i>	<i>Comments</i>
Priority	Simplification Stage 2	Simplify and update the technical requirements of the new Regulations Nos. 148, 149 and 150, as well as the installation Regulations Nos. 48, 53, 74 and 86 to become future proof and technology neutral, with performance-based and objective test requirements	New simplified UN Regulations Nos. 148, 149 and 150 and amendments to UN Regulations Nos. 48, 53, 74 and 86	GRE, IWG SLR	2025	IWG SLR (GRE)	Ongoing
Priority	EMC issues	Further development of EMC requirements, updating existing requirements and introduction of new provisions for adaptation to technical progress. Adoption of 07 series of amendments in April 2024 GRE and after this the development of 08 series of amendments.	UN Regulation No. 10	GRE, IWG EMC	2026		Ongoing
Priority	Enabling vehicle automation	Screening of GRE regulations for automated/autonomous vehicles, starting from Regulation Nos. 10 and 48	UN Regulation Nos. 10 and 48	GRE, TF AVSR, IWG EMC	2024	TF AVSR	Ongoing
Priority	Light sources	Development of intelligently equivalent LED replacement light sources	UN Regulation Nos. 37, 99 and 128 and Resolution R.E.5	GRE			Ongoing

Subjects under consideration by the Working Party on Lighting and Light-Signalling (GRE) at its 87th session

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
3.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the eighty-eighth session (GRE/2023/1)
3.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
[10 (Electromagnetic compatibility)		
37 (Filament lamps);		
48 (Installation of lighting and light-signalling devices);		
53 (Installation of lighting and light-signalling devices for L ₃ vehicles);		
74 (Installation of lighting and light-signalling devices for mopeds);		
86 (Installation of lighting and light-signalling devices for agricultural vehicles);		
99 (Gas discharge light sources);		
128 (Light emitting diodes light sources);		
148 (Light-signalling devices);		
149 (Road illumination devices);		
150 (Retro-reflective devices);		
R.E.5 (Consolidated Resolution on the common specification of light source categories).]		
3.1.2. Proposal for draft new UN Regulations:		
Nil		
3.2. 1998 Agreement (Global)		
Possibility to develop further UN GTRs		
3.3. 1997 Agreement (Inspections)		
Nil		
3.4. Proposal for draft recommendations or amendments to existing recommendations		
3.5. Miscellaneous items		For document symbols and its availability, please refer to the agenda of the eighty- eighth session (GRE/2023/1)
Amendments to the Convention on Road Traffic (Vienna 1968)		
Development of an international whole vehicle type approval (IWVTA)		
Direction for future GRE work		

Table 4
Subjects under consideration by the Working Party on Pollution and Energy (GRPE)

GRPE						
Priority	Justification/Background information	References	Allocations /IWGs/TFs	Timeline (GRPE session)	Chair /sponsor(s)	Comments
Improvement of exhaust emissions requirements to ensure real drive performance on the road	Revise technical requirements to allow technological progress, ensure technological neutrality by introducing consistent and long-lasting performance-based emissions measures, at type approval, in use and potentially over the lifetime of the vehicle.	UN GTR on RDE	IWG on RDE	[tbd]	EC-JP-KR	Delayed until after the regional Regulations are finalized.
Life Cycle Assessment	Quantify and monitor progress towards Carbon neutrality of road transport by 2050. Internationally harmonized procedure to measure carbon footprint of different technologies for fuels and vehicles from production to use and disposal.	new WP.29 Resolution	IWG on A-LCA	June 2025	JP-KR	Started in June 2022 and further explored during the next sessions of GRPE
New propulsion energy	Develop technical regulation to ensure environmentally friendly and level-playing market introduction of new form of propulsion energy, such as hydrogen and electricity.	New amendment to UN GTR No. 21 on DEVP	IWG on EVE	January 2024	US, Canada, China, Japan, EC	Amd.1 to GTR 21
		New amendment to UN GTR No. 22	IWG on EVE	January 2024	US, Canada, China, Japan, EC	Amd.1 to GTR 22
		New UN GTR on Heavy Duty Battery Durability	GRPE	June 2024	US, Canada, China, Japan, Korea, UK, EC	
Particulate emissions:	Light duty Brake emissions	Amd. 1 to UN GTR No. 24	IWG on PMP	January 2024	EC	Work continues for update in January 2024.

Provisions to limit airborne particulates from different sources	Heavy duty brake emissions	[tbd]	IWG on PMP	June 2025	[EC]	
	Tyre wear emissions /Tyre Abrasion (TA). Develop regulations for tyres to limit the emissions of microplastics to the environment	New UN Regulation / amendment to existing UN Regulation	TF TA GRBP/GRPE	January 2024	EC-FR	TF TA operating under GRBP . GRPE and IWG PMP directly participating Test method(s) description for C1-tyres. C2, C3 tyre at a later stage. Market assessment and threshold definition at a later step.

**Subjects under consideration by the Working Party on Pollution and Energy (GRPE)
at its 89th session**

<i>Subject</i>	<i>Document symbol ECE/TRANS/WP.29/...</i>	<i>Documentation availability</i>
4.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the latest session (GRPE/202X/1)
4.1.1 Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
24 (Visible pollutants, measurement of power of C.I. engines (Diesel smoke));		
40 (Emission of gaseous pollutants by motorcycles);		
47 (Emission of gaseous pollutants of mopeds)		
49 (Emissions of compression ignition and positive ignition (LPG and CNG) engines);		
68 (Measurement of the maximum speed, including electric vehicles);		
83 (Emissions of M ₁ and N ₁ vehicles);		
85 (Measurement of the net power);		
96 (Diesel emission (agricultural tractors));		
101 (CO ₂ emissions/fuel consumption)		
103 (Replacement pollution control devices);		
115 (LPG and CNG retrofit systems);		
120 (Net power of tractors and non-road mobile machinery);		
132 (Retrofit Emissions Control devices (REC));		
133 (Recyclability of motor vehicles);		
143 (Heavy duty dual-fuel engine retrofit systems)		
154 (Worldwide harmonized Light vehicles Test Procedure (WLTP Regulation)		
[168](Global Real Driving Emissions)		
4.1.2. Proposal for draft new UN Regulations		
Tyre Wear Emissions or amendment to UN Regulation No. 117		
4.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda of the latest session (GRPE/202X/1)
2 (Worldwide motorcycle emissions test cycle (WMTC));		
4 (Worldwide harmonized Heavy-Duty Certification Procedure (WHDC));		
5 (Worldwide harmonized Heavy duty on-board diagnostic systems (WWH-OBD));		

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
10	(Off-Cycle Emissions (OCE));	
11	(Non-road mobile machinery engines);	
15	(Worldwide harmonized Light Vehicle Test Procedure (WLTP));	
17	(Crankcase and evaporative emissions of L-category vehicles);	
18	(On-Board Diagnostic (OBD) systems for L-category vehicles)	
19	(Evaporative emission test procedure for the Worldwide harmonized Light vehicle Test Procedure (WLTP EVAP));	
21	(Determination of Electrified Vehicle Power (DEVPP))	
22	(In-vehicle Battery Durability for Light Duty Electrified Vehicles)	
23	(Measurement procedure for two- and three-wheeled vehicles equipped with a combustion engine with regard to durability of pollution-control devices)	
24	(Laboratory Measurement of Brake Emissions for Light-Duty Vehicles)	
4.2.1.	Proposal for developing new UN Global Technical Regulations	
	Real Driving Emissions In-vehicle battery durability for heavy duty vehicles	
4.3.	1997 Agreement (Inspections)	
	Nil	
4.4.	Proposal for draft recommendations or amendments to existing recommendations	
	Nil	
4.5.	Miscellaneous items	
	Particle Measurement Programme (PMP)	
	Environmental and Propulsion Performance Requirements (EPPR) for L-category vehicles	
	Electric Vehicles and the Environment (EVE)	
	Vehicles Interior Air Quality (VIAQ)	
	Automotive Life Cycle Assessment (A-LCA)	
		For document symbols and its availability, please refer to the agenda of the latest session (GRPE/202X/1)

Table 5

Subjects under consideration by the Working Party on Automated / Autonomous and Connected Vehicles (GRVA)

<i>GRVA</i>						
<i>Title</i>	<i>Tasks / Deliverables</i>	<i>References</i>	<i>Allocations / IWGs</i>	<i>Timeline</i>	<i>Initiator</i>	<i>Comments</i>
Functional Requirements for Automated Vehicles	<p>Proposal for WP.29 guidelines on ADS safety requirements and for verifiable criteria for ADS safety validation</p> <p>Consolidated FRAV/VMAD submission covering both functional requirements and assessment/test methods (Progressive increase in FRAV-VMAD collaboration towards 2024 deliverable of consolidated submission).</p>	Framework document for automated/autonomous vehicles ECE/TRANS/WP.29/2019/34 as revised	GRVA, IWG on FRAV and VMAD	<p>June 2023: Guidelines for regulatory requirements and for verifiable criteria for ADS safety validation</p> <p>June 2024: Consolidated FRAV/VMAD submission (requirements + assessment)</p>	WP.29	Shift of emphasis towards alignment of FRAV and VMAD outcomes to provide integrated guidelines on ADS safety assurance sufficient to enable WP.29 decisions on initiatives, if any, under the Agreements.
New Assessment/Test Method	<p>Second iteration of NATM addressing the "outstanding issues".</p> <p>Consolidated FRAV/VMAD submission covering both</p>	Framework document for automated/autonomous vehicles ECE/TRANS/WP.29/2019/34 as revised	GRVA, IWG on VMAD	<p>June 2023 2nd iteration of the Guidelines for NATM including outcome of "outstanding issues"</p> <p>June 2024 Consolidated FRAV/VMAD</p>	WP.29	<i>Progressive increase in FRAV-VMAD collaboration towards 2024 deliverable of consolidated submission, sufficient to enable WP.29 decisions on</i>

GRVA						
Title	Tasks / Deliverables	References	Allocations / IWGs	Timeline	Initiator	Comments
	functional requirements and assessment/test methods			submission (requirements + assessment)		initiatives, if any, under the Agreements..
Cyber security and (Over-the-Air) Software updates	Review of draft set of technical requirements for 1998 CPs. [...]	Framework document for automated/autonomous vehicles ECE/TRANS/WP.29/2019/34 as revised	GRVA, IWG on Cyber Security and OTA issues	November 2024	WP.29	Ongoing More time needed (expected)
Data Storage System for Automated Driving vehicles (DSSAD)	Inventory of best ADS storage practices. DSSAD performance elements for ADS	Framework document for automated/autonomous vehicles ECE/TRANS/WP.29/2019/34 as revised	GRVA, IWG on EDR/DSSAD	June 2024	WP.29	Ongoing
Event Data Recorder (EDR)	WP29 guidelines on EDR Performance Elements for ADS EDR Step 2: Consideration of additional technical requirements to current UN Regulation regarding trucks and buses	Framework document for automated/autonomous vehicles ECE/TRANS/WP.29/2019/34 as revised	GRSG in cooperation with GRVA, IWG on EDR/DSSAD	June 2024 November 2024	WP.29	Ongoing
ADAS / DCAS	Amendment to UN Regulation No. 79 and new UN Regulation	ECE/TRANS/WP.29/GRVA/9, Annex IV	GRVA, Task Force on ADAS	November 2023	Russian Federation and European Commission	Ongoing More time needed (expected)
UN GTRs	Amendments to UN GTRs	AC.3 decisions	GRVA	Upon decisions	AC.3	Ongoing
UN Regulations	Amendments to UN Regulations <ul style="list-style-type: none"> • UN Regulation No. 157 • UN Regulation No. 156 • UN Regulation No. 155 • UN Regulation No. 140 • UN Regulation No. 131 • UN Regulation No. 90 	Provisions of the 1958 Agreement	GRVA	Permanent	N/a	N/a

<i>GRVA</i>						
<i>Title</i>	<i>Tasks / Deliverables</i>	<i>References</i>	<i>Allocations / IWGs</i>	<i>Timeline</i>	<i>Initiator</i>	<i>Comments</i>
	<ul style="list-style-type: none">• UN Regulation No. 78• UN Regulation No. 13• UN Regulation No. 13H		IWG on ACPE			

Subjects under consideration by the Working Party on Automated / Autonomous and Connected Vehicles (GRVA) at its 15th session

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
5.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda of the fifteenth and sixteenth sessions (GRVA/2023/1 and GRVA/2023/7)
5.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
13 and 13-H (Braking);		
78 (Motorcycle braking);		
79 (Steering equipment);		
89 (Speed limitation devices);		
90 (Replacement brake linings);		
139 (Brake Assist Systems);		
140 (Electronic Stability Control);		
152 (AEBS for M ₁ and N ₁);		
155 (Cyber security);		
156 (Software updates);		
157 Automated Lane Keeping Systems. (ALKS);		
5.1.2. Proposal for draft new UN Regulations:		
Driver Control Assistance System		
Acceleration Control Pedal Error		
Urban Emergency Braking System		
5.1.3. Vehicle automation		
Automated Lane Keeping Systems (ALKS)		
Validation Methods for Automated Driving (VMAD)		
New assessment / Test method		
Functional Requirements for Automated and Autonomous Vehicles (FRAV)		
Longitudinal control (Adaptive Cruise Control, preventing braking);		
Transition demand (Human Machine Interface (HMI));		
Driver Availability Recognition;		
Information to the driver (HMI);		
Electronic System Compliance (Complex Electronics Development);		
Periodic Technical Inspection/ Roadworthiness Provisions;		

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
Vehicle cybersecurity and data protection;		
Software (incl. Over-the-Air) updates;		
Data Storage System for Automated Driving (DSSAD);		
Artificial Intelligence technologies for wheeled vehicles		
Vehicle-to-Vehicle data transmission		
International Whole Vehicle Type Approval (IWVTA)		
Exchange of views on innovations and relevant national activities		
Electromechanical brakes		
5.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda of the fifteenth and sixteenth sessions (GRVA/2023/1 and GRVA/2023/7)
3 (Motorcycle braking)		
8 (ESC);		
5.3. 1997 Agreement (Inspections)		
Nil		
5.4. Proposal for draft recommendations or amendments to existing recommendations:		
Nil		
5.5. Miscellaneous items		For document symbols and its availability, please refer to the agenda of the fifteenth and sixteenth sessions (GRVA/2023/1 and GRVA/2023/7)
Intelligent Transport Systems (ITS)		
Intelligent Transport Systems/Automated Driving (AD)		
Connected, automated and autonomous vehicles		
Horizontal regulation on automated and autonomous vehicles and associated recommendations		
System safety		
Rear crossing traffic alerting		
Night Vision system		
360-degree vision monitor		
Modular Vehicle Combinations (MVC)		
Door-open blind spot detection		
Around view monitoring		

Table 6
Subjects under consideration by the Working Party on General Safety Provisions (GRSG)

GRSG								
Priority/ recurrent	Title	Tasks / Deliverables	References	Allocations / IWGs	Timeline (GRSG adoption)	Timeline (WP.29 adoption)	Initiator	Comments
Priority	Event Data Recorder	EDR performance elements for ADS		GRSG in cooperation with GRVA, IWG on EDR/DSSAD	April 2024 (GRSG)	November 2024	WP.29	
Priority	Event Data Recorder	1) Common technical elements document for creation of a UN regulation on EDR for heavy duty vehicles (trucks and busses) 2) Supplement to the original version of the UN Regulation addressing vehicles with maximum mass 8,000-12,000 kg.		IWG on EDR/DSSAD	1) October 2023 GRSG 2) [April 2024 GRSG]	1) Nov 2023 2) [Nov. 2024]	WP.29	
Priority	Event Data Recorder	EDR Step#2 - consideration of amendments to Step #1 requirements with respect to additional data elements, durability considerations including potential fire resistance, potential test procedures and consideration of new triggering criteria (e.g. “jerk”).		IWG on EDR/DSSAD	Oct. 2024 (GRSG)	March 2025	WP.29	
Priority	Field of Vision Assistant (FVA)	Verify and address as necessary “Augmented Reality” related aspects in relation with existing	- UN R- 125 -	IWG on FVA	[April 2024]	[November 2024]	OICA	Chair: NL Secr.: OICA

		UN Regulations / UN GTRs / UN Rules Step 2 aims at developing more detailed rules and guidelines and a new Regulation on FVA also covering other vehicle categories	GRSG-121-24/Rev.2 Field of Vision Assistant (FVA) may increase driver awareness but may also constitute obstruction to the prescribed driver's field of vision (). Step 1 was finished in 2021					
Priority	Direct Vision	Phase 2 of the new UN Regulation		VRU Proxi	October 2023 (GRSG)	March. 2024	Japan, EC WP.29	
Priority	Heating System	1) Phase 1- Electric Radiant Warmers for EVs	UN Regulation No. 122	Korea	1) March 2023	1) November 2023	Korea	[
Priority	Consolidated Resolution on the construction of vehicles and SR1	1)Inclusion of automated vehicles and categorization 2)Definition of e-trailers	R.E.3 and SR1 GRSG-126-39	Joint TF GRVA/GRSG	[April 2025]	[Nov. 2025]	WP.29	
Priority	UN Regulation No. 107	Accessibility on Buses and Coaches	GRSG-126-08	TF ABC	Kick-off meeting by GRSG April 2024			
Priority	UN Regulation No. 39	Mileage values	Regulatory proposal introducing provisions on accuracy, security management and antitampering of on-board odometer mileage values in vehicles (L category excluded) – GRSG-126-21-Rev.1	TF R39MV	October. 2024	March 2025		
Priority	R43, R107, R160, R.E.3, S.R.1	Regulatory update for inclusion of AD vehicles	ECE/TRANS/WP.29/GRVA/2023/18	TF on Automated Vehicles Regulation				

				Screening (AVRS) -				
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Subjects under consideration by the Working Party on General Safety Provisions (GRSG) at its 124th session

<i>Subject</i>	<i>Document symbol ECE/TRANS/WP.29/...</i>	<i>Documentation availability</i>
6.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda for the 125th session (GRSG/2023/1)
6.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
43 (Safety glazing);		
46 (Devices for indirect vision);		
66 (Strength of superstructure (buses))		
67 (LPG vehicles);		
93 (Front underrun protection);		
107 (M ₂ and M ₃ vehicles);		
110 (CNG and LNG vehicles);		
116 (Anti-theft and alarm systems);		
118 (Burning behaviour of materials);;		
122 (Heating systems);		
125 (Forward field of Vision for Drivers);		
144 (Accident Emergency Call Systems (AECS))		
151 (Blind Spot Information Systems)		
158 (Reversing motion);		
159 (Moving Off Information System)		
161 (Devices against Unauthorized Use)..		
162 (Immobilizers)		
163 (Vehicle Alarm Systems)		
166 (VRU in Front and Side Close Proximity)		
167 (VRU Direct Vision)		
6.1.2. Proposal for draft new UN Regulations:		
6.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda for the 125th session (GRSG/2023/1)
Possibility to develop further UN GTRs		
SR1 and amendments expected		
6.3. 1997 Agreement (Inspections)		
Nil		
6.4. Proposal for draft recommendations or amendments to existing recommendations:		

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
Nil		
6.5. Miscellaneous items		For document symbols and its availability, please refer to the agenda for the 125th session (GRSG/2023/1)
International Whole Vehicle Type Approval (IWVTA)		
Consolidated Resolution on the Construction of Vehicles (R.E.3) and Special Resolution No. 1		
Event Data Recorder Requirements		

Table 7
Subjects under consideration by the Working Party on Passive Safety (GRSP)

GRSP							
Priority/ recurrent	Title	Tasks / Deliverables	References	Allocations / IWGs	Timeline	Initiator	Comments
Short Term							
Priority	Pedestrian Safety (including ongoing and pending amendments)	Review proposed Amendment 3 to GTR9	GRSP-72-08 GRSP-72-09	IWG DPPS	GRSP May 2023 WP.29 November 2023	Korea	Official documents GRSP May 2023 session
Priority	Pedestrian Safety (including ongoing and pending amendments)	Review proposed Amendment 4 to GTR9	ECE/TRANS/WP.29/2021/53 ECE/TRANS/WP.29/2021/54 AC3/31/Rev.1 GRSP-69-43-Rev.1	TF on hold	TBD	US/EC	activity paused. No consensus could be reached yet
Priority	Amendment to Mutual Resolution No. 1 – Addendum 4	Inclusion of Addendum 4 (Q dummies)	Ongoing Q0, Q1 and Q1.5	Task Force	2023	Germany	Urgent matter, since the lack of specifications may hamper the proper use of UN Regulation No. 129
Priority	GTR 13 – Hydrogen	Inclusion of new tank concepts and other upgrades to in GTR13 Phase 2 and relevant UN Regulations Nos. 134	ECE/TRANS/WP.29/AC.3/49 ECE/TRANS/WP.29/GRSP/2022/16 ECE/TRANS/WP.29/GRSP/2022/17	IWG-HFCV	To WP.29 and AC.3 June 2023 (GTR)	US, CN, JPN, KOR, EC	Recommended by GRSP at December 2022 session
Priority	UN Regulations No. 94, 95, 134, 135, 137, 153.	Transposition of UN GTR 13 Ph2	ECE/TRANS/WP.29/GRSP/2022/15 GRSP-72-29, GRSP-72-30, GRSP-72-31, GRSP-72-32 and GRSP-72-34		To GRSP May 2023 session	OICA	
Priority	Children in buses	New UN Regulation	GRSP-72-02	IWG-STCBC	May 2023 GRSP	SP	Ongoing

GRSP							
Priority/ recurrent	Title	Tasks / Deliverables	References	Allocations / IWGs	Timeline	Initiator	Comments
			Medium Term				
Priority	GTR 20 - Electric vehicles safety	Inclusion of upgrades to GTR20 Phase 2		IWG-EVS	Proposal at March/Nov 2024 WP.29	US, EC, CN, JPN	Informal document GRSP December 2023
Recurrent	UN Regulation No. 16, 129, 145	To align UN R16, R129 and R145 with regard to the use of a support leg for non-iSize positions and to the requirements for Lower Tether Anchorages	GRSP-71-19 and GRSP-72-28	Ad-Hoc Group	Proposals at May 2023 session	NL	
Recurrent	3DH point machine UN Regs/UN GTR	Remove inconsistencies and include the HPM-1 into M.R.1	GRSP-72-33	Ad-hoc group	December 2023 off. proposal GRSP	NL, Spain, OICA and CLEPA	
Recurrent	Children left in cars	Data gathering and examination of strategies at national level				Australia, CI, USA, Canada, Russian Federation, Italy	
			Long Term				
Priority	Equitable protection of vehicle occupants	Examine field data and evidence on whether occupants suffer disproportionate injuries and fatalities	GRSP 68-07, GRSP 68-08, GRSP 68-09, GRSP-71-23, GRSP-72-10 and GRSP-72-45	IWG pending approval of WP.29 and AC.3 at the March 2023 sessions	2027	Sweden	
Recurrent	Protective Helmets	Consider future series of amendments (07)		Suspended	2023 Discussion in GRSP May session	FR IT	To be started if agreed by GRSP

Subjects under consideration by the Working Party on Passive Safety (GRSP) at its 73rd session

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
7.1. 1958 Agreement		For document symbols and its availability, please refer to the agenda for the seventy-third session (GRSP/2023/1)
7.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):		
14 (Safety-belts anchorages)		
16 (Safety-belts).		
17 (Strength of seats)		
21 (Interior fittings);		
22 (Protective helmets);		
80 (Strength of seats and their anchorages (buses));		
94 (Frontal collision);		
95 (Lateral collision)		
100 (Electric power trained vehicles);		
127 (Pedestrian safety);		
129 (Enhanced child restraint systems)		
134 (Hydrogen and fuel cell vehicles (HFCV))		
137 (Frontal impact with focus on restraint systems)		
145 (ISOFIX anchorage systems, ISOFIX top tether anchorages and i-Size)]		
7.1.2. Proposal for draft new UN Regulations:		
Nil		
7.2. 1998 Agreement (Global)		For document symbols and its availability, please refer to the agenda for the seventy-third session (GRSP/2023/1)
[9 (Pedestrian safety);		
13 (Hydrogen and Fuel Cells Vehicles)		
20 (Electric vehicle safety)		
Electric vehicles		
Vehicle Crash compatibility]		
7.3. 1997 Agreement (Inspections)		
Nil		
7.4. Proposal for draft recommendations or amendments to existing recommendations		
Mutual Resolution No. 1.		

<i>Subject</i>	<i>Document symbol</i> <i>ECE/TRANS/WP.29/...</i>	<i>Documentation</i> <i>availability</i>
7.5. Miscellaneous items		For document symbols and its availability, please refer to the agenda for the seventy-third session (GRSP/2023/1)
[Exchange of information on national and international requirements on passive safety;		
International Whole Vehicle Type Approval (IWVTA)		
Securing of children in buses and coaches;		
Exchange of views on vehicle automation;		
Three-dimensional H-point machine;		
Children left in cars.]		
