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World Forum for Harmonization of Vehicle Regulations

179th session

Geneva, 12–14 November 2019

Reports of the

**World Forum for Harmonization of Vehicle Regulations on
its 179th session**

**Administrative Committee of the 1958 Agreement on its
seventy-third session**

**Executive Committee of the 1998 Agreement on its fifty-
seventh session**

**Administrative Committee of the 1997 Agreement on its
fourteenth session**

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I. Attendance

1. The World Forum for Harmonization of Vehicle Regulations (WP.29) held its 179th session from 12 to 14 November 2019, chaired by Mr. B. Kisulenko (Russian Federation). The following countries were represented, following Rule 1 of the Rules of Procedure of WP.29 (ECE/TRANS/WP.29/690/Rev.1): Algeria, Australia, Austria, Belgium, Bosnia and Herzegovina, Canada, China, Czech Republic, Egypt, El Salvador, Finland, France, Georgia, Germany, Hungary, India, the Islamic Republic of Iran, Israel, Italy, Japan, Jordan, Kazakhstan, Latvia, Luxembourg, Malaysia, Morocco, Netherlands, Norway, Pakistan, Poland, Republic of Korea, Romania, Russian Federation, San Marino, Serbia, Slovakia, Spain, South Africa, Sweden, Switzerland, Tunisia, Turkey, United Kingdom of Great Britain and Northern Ireland (UK), United States of America, and Uzbekistan. Representatives of the European Union participated. The following observer country was represented: State of Palestine. The following international organization was represented: International Telecommunication Union (ITU). The following intergovernmental organizations were represented: Conference of European Directors of Roads (CEDR), Eurasian Economic Commission (EEC), European Union funded EuroMed Transport Support Project. The following non-governmental organizations were also represented: Association for Emissions Control by Catalyst (AECC), European Association of Automotive Suppliers (CLEPA/MEMA/JAPIA)¹, Fahrzeugsystemdaten GmbH (FSD), Fédération Internationale des Grossistes, Importateurs et Exportateurs en Fournitures Automobiles (FIGIEFA), Consumers International (CI), European Tyre and Rim Technical Organization (ETRTO), International Automobile Federation (FIA), Global New Car Assessment Programme (Global NCAP), International Automotive Lighting and Light Signalling Expert Group (GTB), International Motorcycle Manufacturers Association (IMMA), International Motor Vehicle Inspection Committee (CITA), International Organization for Standardization (ISO), International Organization of Motor Vehicle Manufacturers (OICA) and Society of Automotive Engineers International (SAE International). Other non-governmental organizations were represented following Rule 1(d): American Automotive Policy Council (AAPC), Recreation Vehicle Industry Association (RVIA) and World Bicycle Industry Association (WBIA). Other non-governmental organizations, private sector entities, independent experts and observers were represented: European Committee for Standardization (CEN); Motor and Equipment Manufacturers Association (MEMA), United States of America Tire Manufacturers Association and The American University in Cairo.

II. Opening statements

Documentation: (ECE/TRANS/WP.29/1147)

2. The Chair of WP.29, Mr B. Kisulenko (Russian Federation), welcomed delegates to the 179th session of WP.29 and opened the meeting. He recalled the decision of WP.29 at its June 2019 session (ECE/TRANS/WP.29/1147, para. 14) to limit the duration of the 179th session to three days only as a trial to streamline its work.

3. The Director of the ECE Sustainable Transport Division, Mr Yuwei Li, informed WP.29 on the restructuring of the division in order to better address the road safety crisis with globally more than 1.3 million road traffic fatalities per year. The new section on transport of dangerous and road safety management included also oversight of the secretariat of the Secretary-General's Special Envoy for Road Safety and of the secretariat of the United Nations Road Safety Trust Fund. Mr R. Hubert had been promoted to head of this section.

4. The Director explained that due to budgetary issues, the former post of Mr Hubert as Secretary to GRSG could not be filled immediately. He informed WP.29 participants that the recruitment process had recently been initiated and that a related job-opening would be published in the coming days. He recalled the Secretary-General's gender strategy and the

¹ Representing also the Motor and Equipment Manufacturers Association (MEMA) and Japan Auto Parts Industries Association (JAPIA) (TRANS/WP.29/885, para. 4).

Executive Secretary's commitment that aimed at equal distribution of gender at staff of the secretariat, which is not the case for the Division yet. He requested WP.29 delegates to help spreading information on the job-opening to potential candidates and encourage eligible females to apply for the post. He also informed delegates that the Secretary of WP.29 would e-mail the job-opening and the request to help encourage females' applications.

III. Adoption of the agenda (agenda item 1)

Documentation: ECE/TRANS/WP.29/1148
Informal documents: WP.179-03 and WP.29-179-04

5. The annotated provisional agenda was adopted.
6. The list of informal documents is reproduced in Annex I to this report.

IV. Coordination and organization of work (agenda item 2)

A. Report of the session of the Administrative Committee for the Coordination of Work (WP.29/AC.2) (agenda item 2.1)

7. The 131st session of WP.29/AC.2 (12 November 2019) was chaired by Mr. B. Kisulenko (Russian Federation) and was attended, in accordance to Rule 29 of the terms of reference and rules of procedure of WP.29 (TRANS/WP.29/690/Rev.1) by the Chairs of GRBP (France), GRPE (Netherlands), GRVA (United Kingdom of Great Britain and Northern Ireland), GRSG (Italy), the Vice-Chair of GRSP (Republic of Korea), the Vice-Chair of GRSG (Canada), the Vice-Chair of GRVA (China), the Chair of the Executive Committee (AC.3) of the 1998 Agreement (United States of America), the Vice-Chair of WP.29 (Italy), and by the representatives of Germany, Japan and the European Union.

8. AC.2 welcomed the work done by the Chairs of GRs on strategic planning and asked the Chairs to identify their top three priorities and to provide the associated timelines. AC.2 requested the secretariat to prepare a pre-filled template containing the priorities as well as items for maintaining existing regulations, that each Chair would use for this exercise. AC.2 agreed that this document would be the basis for establishing the programme of work for 2020. AC.2 invited contracting parties to provide comments on the programme of work in advance of the next meeting. AC.2 noted that the absence of comments would be considered as agreement.

9. AC.2 adopted the calendar of meetings for 2020 with the option to amend, during the March 2020 session of AC.2, the allocation of GRs to the meetings planned in the second half of 2020.

10. AC.2 revisited the format of WP.29 sessions based on experiences gained at its 179th session and agreed to continue with the three days format subject to a regular review. AC.2 would have a preparatory meeting on Mondays afternoon (2:30 p.m.–5:30 p.m.) and thus providing more time for discussions. GRVA would benefit from half days gained by the restructuring of WP.29 sessions and would have two sessions of up to five days each per year. AC.2 would reconsider the possibility of an additional two days meeting for GRVA directly linked to the WP.29 June 2020 session at its 132nd session.

11. AC.2 noted the Inland Transport Committee (ITC) Informal Document No. 5 (2019) on implementing the ITC strategy that incorporating the ITC Recommendations for Enhancing National Road Safety Systems.

12. AC.2 approved the participation at the World Forum, under Rule 1(d) of the Rules of Procedure of WP.29, of the Non-Governmental Organization "Association of European Wheel Manufacturers (EUWA)" for the 2020–2021 biennium.

13. AC.2 reviewed and adopted the provisional agenda for the 179th session and reviewed the draft of the 180th session of the World Forum, scheduled to be held in Geneva from 10 to 12 March 2020.

14. AC.2 confirmed that AC.4 would not convene.

B. Programme of work and documentation (agenda item 2.2)

Documentation: ECE/TRANS/WP.29/2019/1/Rev.2
Informal documents: WP.29-179-01 and WP.29-179-02

15. The Secretary of WP.29 presented the programme of work with a strategic introduction on the main priorities of the WP.29 work, which are related, among others, to vehicle automation and environmental protection (ECE/TRANS/WP.29/2019/1/Rev.2).

16. WP.29 adopted the revised programme of work for 2019 based on document ECE/TRANS/WP.29/2019/1/Rev.2.

17. The World Forum took note of the list of Working Parties and Chairs (WP.29-179-01) and the draft 2020 calendar for WP.29 and its subsidiary bodies (WP.29-179-02). In line with the recommendation of AC.2 proposal, WP.29 adopted the calendar of meetings for 2020 with the option to amend, during the March 2020 session of AC.2, the allocation of GRs to the meetings planned in the second half of 2020.

18. The 2020 calendar and the list of Working Parties, Informal Working Groups (IWG) and Chairs are reproduced in annexes I and II to this report.

C. Intelligent Transport Systems and coordination of automated vehicles related activities (agenda item 2.3)

Documentation: ECE/TRANS/WP.29/2019/34/Rev.1
Informal documents: WP.29-179-18, WP.29-179-19, WP.29-179-23, WP.29-179-24 and WP.29-179-25

19. The representative of FIA presented WP.29-179-18 on consumer views on automated/autonomous vehicles emphasising the challenges associated with the cyber security performance of vehicles over their life time. He presented a possible solution to address the challenges. He admitted that the solution proposed was not design neutral. He explained that his purpose was to demonstrate that the challenge could be solved and that at least one solution would exist. He stated that the World Forum was the right place to address this issue. He proposed that WP.29 mandate GRVA to regulate Information Technology (IT) security in automotive products over their life time at the ECE level within the framework of the 1958 Agreement.

20. The representative of the United Kingdom, on behalf of the Co-Chair of the Task Force on Cyber Security and OTA issues, explained that the task force was facing difficulties of legal nature concerning what could be done within the frameworks of the 1958 and 1998 Agreements. He questioned whether, under the 1958 Agreement, manufacturers can be required to undertake to protect vehicles from cyber-attack throughout their lifetime. The representative of OICA supported this statement.

21. The representative of the Russian Federation, Co-Chair of IWG on PTI, supported the views expressed in the presentation. He invited delegates to participate in the work of IWG on PTI to work in the spirit proposed in the presentation.

22. The representative of CITA supported the idea proposed in the presentation. He clarified that the comparison of replacement parts (e.g. brake pads) with IT products did not reflect the complexity related to cyber security. He mentioned that it was certainly possible to draft technical provisions under the 1958 Agreement to address this challenge.

23. The representative of ITU supported the view of CITA. He recalled his previous compromise proposal that regulatory provisions require that manufacturers were responsible and able to address cyber security as long as the communication capability in the vehicle existed. He explained, that in practice, this would mean that manufacturers would have to apply security patches (as it is done in other industries) as long as the vehicle is equipped with a functioning communication capability.

24. The representative of Germany stated that there was no disagreement among WP.29, that cyber security would need to be archived over the life time of a vehicle. He stated that the main point was to find out how to reasonably achieve that goal from the regulatory perspective. He mentioned that his country would certainly be able to regulate this, but that given the international nature of road traffic, internationally harmonized provisions would be needed.

25. The representative of the United Kingdom noted that this issue had already been discussed at GRVA and that the key issue in the discussion was whether there was a legal basis to provide provisions. He invited the secretariat, possibly with the support of the Office of Legal Affairs, to provide guidance on this point for the next session of WP.29.

26. The representative of the United States of America suggested that the Task Force could continue its work and consider developing voluntary guidelines, while legal matters were clarified.

27. The representative of the Republic of Korea informed WP.29 about their plan to issue a national guideline for cyber security in the Republic of Korea. He stated that Korea would release a guideline for cyber security before the end of 2019, based on the activities of the Task Force on Cyber Security and Software Update and the research conducted in the Republic of Korea. He added that they would introduce their guideline in the upcoming Cyber Security and Software Update meeting in Washington, D.C.

28. The representative of the United States of America presented WP.29-179-25 proposing the correction of a printing error in the Framework Document on Automated Vehicles. WP.29 requested the secretariat to prepare Revision 2 to the framework document.

29. The representative of CLEPA presented WP.29-179-23. WP.29 referred this document to GRSP for review at its December 2019 session.

30. The representative of the United Kingdom introduced WP.29-179-24 with the report on the test phase for Software Updates of the Task Force on Cyber Security and Over-the-air issues. He highlighted that seven contracting parties as well as 15 manufacturers contributed to this work. He highlighted that the initial assessment was positive and that findings would be addressed at the coming meeting of the Task Force.

31. The representative of the European Union stated the importance of completing this work soon as it would be relevant for the activities on Automated Lane Keeping Systems.

32. The representative of the United Kingdom cautioned that the application of the new cyber security measures to ALKS may prove challenging due to the advanced development status of the technology.

33. The representative of France stated the importance for the group to avoid divergence in the application of the provisions by the manufacturers, the technical services, the approval authorities and the countries.

34. WP.29 noted the report.

35. The GRVA Secretary presented WP.29-179-19 providing a comparison of both Event Data Recorder and Data Storage Systems for Automated Driving systems. The representative of the United States of America noted that the document was still work in progress and would be further developed during the next meeting of IWG.

V. Consideration of the reports of the Working Parties (GRs) subsidiary to WP.29 (agenda item 3)

A. Working Party on Lighting and Light-Signalling (GRE) (Eighty-first session, 15–18 April 2019) (agenda item 3.1)

Documentation: ECE/TRANS/WP.29/GRE/81

36. The World Forum recalled the report of the Chair of GRE on its eighty-first session (ECE/TRANS/WP.29/GRE/81) and approved the report.

**B. Working Party on General Safety Provisions (GRSG)
(116th session, 1–5 April 2019) (agenda item 3.2)**

Documentation: ECE/TRANS/WP.29/GRSG/95

37. The World Forum recalled the report of the Chair of GRSG on its 116th session (ECE/TRANS/WP.29/GRSG/95) and approved the report.

**C. Working Party on Passive Safety (GRSP)
(Sixty-fifth session, 13–17 May 2019) (agenda item 3.3)**

Documentation: ECE/TRANS/WP.29/GRSP/65

38. The World Forum recalled the report of the Chair of GRSP on its sixty-fifth session (ECE/TRANS/WP.29/GRSP/65) and approved the report.

**D. Working Party on Pollution and Energy (GRPE)
(Seventy-ninth session, 21–24 May 2019) (agenda item 3.4)**

Documentation: ECE/TRANS/WP.29/GRPE/79

39. The World Forum recalled the report of the Chair of GRPE on its seventy-ninth session (ECE/TRANS/WP.29/GRPE/79) and approved the report.

**E. Working Party on Automated/Autonomous and Connected Vehicles
(GRVA) (Third session, 3–4 June 2019) (agenda item 3.5)**

Documentation: ECE/TRANS/WP.29/GRVA/3

40. The World Forum recalled the report of the Chair of GRVA on its third session (ECE/TRANS/WP.29/GRVA/3) and approved the report.

F. Highlights of the recent sessions (agenda item 3.6)

**1. Working Party on Noise (GRBP) (Seventieth session, 11–13 September 2019)
(agenda item 3.6.1)**

41. The GRBP Chair reported on the results achieved by GRBP during its seventieth session (for details, see the report of the session ECE/TRANS/WP.29/GRBP/68).

42. He mentioned that GRBP had adopted a new series of amendments to UN Regulation No. 59 (Replacement silencing systems) and a draft technical report and Amendment No. 2 to UN GTR No. 16 (Tyres). He also indicated that the recently established Informal Working Group on Wet Grip Performance for Tyres in a Worn State (IWG WGWT) would be co-chaired by France and the European Commission.

43. The GRBP Chair mentioned that, in line with the WP.29 request, GRBP solicited views of national road administrations on the draft Resolution on Road Surface Labelling and that the main conclusions of the survey were as follows:

(a) The Draft Resolution in many aspects does not seem suitable for international implementation;

(b) There was not much interest expressed to pursue the issue of labelling road surfaces in the framework of GRBP;

(c) GRBP and WP.29 do not seem to be appropriate fora to consider this issue, as it is currently out of their scope;

(d) The issue should be communicated to the European Committee for Standardization (its technical committee CEN/TC 227) and/or to the relevant International Organization for Standardization (ISO) technical committee, if available.

44. WP.29 agreed to the above conclusions.

45. Finally, WP.29 noted that GRB had re-elected Mr. S. Ficheux (France) as Chair and Mr. A. Bocharov (Russian Federation) as Vice-Chair for the year 2020.

2. Working Party on Automated, Autonomous and Connected Vehicles (GRVA) (Fourth session, 24-27 September 2019) (agenda item 3.6.2)

46. The Chair of GRVA (United Kingdom) reported to WP.29 on the results achieved by GRVA during its fourth session (for more details see the report of the session ECE/TRANS/WP.29/GRVA/4).

47. WP.29 agreed with the mandate extension until September 2020 of IWG on Advanced Emergency Braking System (AEBS).

48. WP.29 agreed with the mandate extension until September 2021 of the Task Force on Cyber Security and Over the Air Software Updates (OTA) issues.

49. WP.29 was informed that Mr. R. Damm (Germany) had been elected Chair of GRVA for the year 2020 and that Ms. C. Chen (China) and Mr. T. Onoda (Japan) were re-elected as Vice-Chairs of GRVA. WP.29 thanked Mr. B. Frost for his excellent leadership when chairing the Working Party on Brakes and Running Gear since 2012 and then GRVA since 2018.

3. Working Party on General Safety Provisions (GRSG) (117th session, 8-11 October 2019) (agenda item 3.6.3)

50. The Chair of GRSG (Italy) reported on the results achieved during the 117th session of GRSG (for more details see the report of the session ECE/TRANS/WP.29/GRSG/96).

51. He informed WP.29 that GRSG had agreed to request withdrawal of document ECE/TRANS/WP.29/2019/93 from the agenda (item 4.7.1) of this session of WP.29 in order to resume considerations.

52. WP.29 noted that GRSG had re-elected Mr. A. Erario (Italy) as Chair and Mr. K. Hendershot (Canada) as Vice-Chair for the year 2020.

4. Working Party on Lighting and Light-Signalling (GRE) (Eighty-second session, 22-25 October 2019) (agenda item 3.6.4)

53. The secretariat, on behalf of the Chair of GRE, reported on the results of the eighty-second session of GRE (for details, see ECE/TRANS/WP.29/GRE/82).

54. In particular, he informed WP.29 about the adopted draft new series of amendments to UN Regulation No. 48 that introduces the mandatory use of Emergency Stop Signal (ESS). He further mentioned that GRE agreed to correct few mistakes and omissions in the new simplified UN Regulations Nos. [148], [149] and [150]. He recalled that, according to the WP.29 mandate, the requirements in the original series of the three new UN Regulations should be totally identical to the requirements in the device UN Regulations which had been frozen in the course of the simplification process. Therefore, GRE was of the view that eventual discrepancies should be corrected by means of supplements or corrigenda to the original series of the new UN Regulations, while substantial changes should only be introduced by the 01 series of amendments and its supplements.

55. WP.29 noted that GRE had re-elected Mr. M. Loccufier (Belgium) as Chair and Mr. D. Rovers (Netherlands) as Vice-Chair for the year 2020.

VI. 1958 Agreement (agenda item 4)

A. Status of the Agreement and of the annexed Regulations (agenda item 4.1)

56. The secretariat informed the World Forum about the latest update of the status of the 1958 Agreement, based on ECE/TRANS/WP.29/343/Rev.27, available at www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29fdocstts.html. WP.29 noted that contracting parties should notify the secretariat about any amendments needed to the status document via the new established online data base (/343app) only. The secretariat invited those Contracting Parties who had not yet notified their Single Points of Contact, to gain writing permission for the database, to do so as soon as possible.

57. WP.29 noted the introduction of new style of ECE/TRANS/WP.29/343/Rev.27 document. Only informal update of Part II would be available on the website for the June and November sessions. Part I and Annex I were accessible via the /343app. The full document would be issued at the annual March session.

B. Guidance requested by the Working Parties on matters related to UN Regulations annexed to the 1958 Agreement (agenda item 4.2)

1. Reproduction and reference to private standards in UN Regulations, UN Global Technical Regulations (UN GTRs) and Rules (agenda item 4.2.1)

58. No discussion took place under this agenda item.

2. Guidance on amendments to UN Regulations annexed to the 1958 Agreement (agenda item 4.2.2)

59. No discussion took place under this agenda item.

C. Development of the International Whole Vehicle Type Approval (IWVTA) system (agenda item 4.3)

Documentation: ECE/TRANS/WP.29/2019/74
ECE/TRANS/WP.29/2019/75
ECE/TRANS/WP.29/2019/76
Informal document: WP.29-179-08

60. The World Forum considered the draft amendments under agenda item 4.3 and recommended their submission to AC.1 for voting.

61. WP.29 endorsed the informal document WP.29-179-08 and requested the secretariat to prepare it as official document for the next session.

D. Revision 3 to the 1958 Agreement (agenda item 4.4)

62. No further information was presented under this agenda item.

E. Development of an electronic database for the exchange of type approval documentation (DETA) (agenda item 4.5)

Documentation: ECE/TRANS/WP.29/2019/77
ECE/TRANS/WP.29/2019/78
Informal documents: WP.29-179-09 and WP.29-179-21

63. The representative from Germany reported, on behalf of the Chair of IWG on DETA, on the thirty-sixth meeting of IWG on DETA. He mentioned the number of contracting

parties that had already notified the secretariat about a DETA Focal Point and have access to the database. He presented the ongoing work and expected timelines. He informed WP.29 that an automated upload functionality was under consideration and that a news area had been added to allow for the exchange of information between approval authorities of contracting parties.

64. The representative from the Russian Federation highlighted the positive developments with DETA, however some technical problems were encountered when introducing new information. The representative from Germany proposed to directly get in contact with their agency, Kraftfahrt Bundesamt, where DETA is currently hosted. The representative of Switzerland reported that when they had experienced similar problems with DETA, they had immediately been solved once they had contacted the German Agency.

65. WP.29 encouraged GRs to review the question raised by IWG on DETA concerning the application of the Unique Identifier (UI) together with markings and to provide guidance on how to proceed based on two options:

- Option 1: Using UI and keep installation marking and information on the part;
- Option 2: Using UI only for the approval marking and providing open access to the communication document, which would also contain the necessary installation marking.

66. The delegate from Finland expressed their support for option 2 that allowed open access to the type approval communication forms in DETA, while the representative from Switzerland supported option 1 as the E-mark including installation marking and information was well known and removed the necessity to retrieve information from DETA, which could not be always feasible. The delegate from Austria supported by the expert from FIA, highlighted the need to have information on the installation of a part during the whole lifetime of the vehicle as this would be important for cases when replacement parts were used as well as for Periodic Technical Inspections (PTI) or individual approvals of vehicles.

67. The representative from ETRTO noted that free access to DETA could lead to misinterpretation of communication forms and therefore the issue needed to be discussed further, which found support from by the representative of OICA, who also noted potential server overload and security issues.

68. The delegate from Germany clarified that DETA was already designed so that different levels of access were provided and that the communication form was different to the Declaration of Conformance (DoC). He proposed that the GRs should identify the content of the communication form to avoid issues of intellectual property rights.

F. Consideration of draft amendments to existing UN Regulations submitted by GRE (agenda item 4.6)

Documentation: ECE/TRANS/WP.29/2019/79
ECE/TRANS/WP.29/2019/80
ECE/TRANS/WP.29/2019/81
ECE/TRANS/WP.29/2019/82
ECE/TRANS/WP.29/2019/125
ECE/TRANS/WP.29/2019/83
ECE/TRANS/WP.29/2019/84
ECE/TRANS/WP.29/2019/85
ECE/TRANS/WP.29/2019/86
ECE/TRANS/WP.29/2019/87
ECE/TRANS/WP.29/2019/88
ECE/TRANS/WP.29/2019/89
ECE/TRANS/WP.29/2019/90
ECE/TRANS/WP.29/2019/91
ECE/TRANS/WP.29/2019/92

69. The World Forum considered the draft amendments under agenda items 4.6.1 to 4.6.15 and recommended their submission to AC.1 for voting, subject to the following modifications:

Item 4.6.3, document ECE/TRANS/WP.29/2019/81, last page, Table A2-1, line "Rear position pair (MR)", *replace "15°/15°" with "15°/10°"*.

Item 4.6.5, document ECE/TRANS/WP.29/2019/125, amend the title to read "Supplement 1 to the original series of UN Regulation No. [149] on Road Illumination Devices (RID)".

G. Consideration of draft amendments to existing UN Regulations submitted by GRSG (agenda item 4.7)

Documentation: ECE/TRANS/WP.29/2019/93
ECE/TRANS/WP.29/2019/94
ECE/TRANS/WP.29/2019/95
ECE/TRANS/WP.29/2019/96
ECE/TRANS/WP.29/2019/97
ECE/TRANS/WP.29/2019/98
ECE/TRANS/WP.29/2019/99
ECE/TRANS/WP.29/2019/100
ECE/TRANS/WP.29/2019/101
ECE/TRANS/WP.29/2019/102

70. The World Forum considered the draft amendments under agenda items 4.7.2. to 4.7.10. and recommended their submission to AC.1 for voting subject to the following modifications:

Item 4.7.2., document ECE/TRANS/WP.29/2019/94, throughout the document *replace "para. 6.15.10.8." by "para. 6.17.10.8."*

Item 4.7.6., document ECE/TRANS/WP.29/2019/98, throughout the document *replace "Annex 15" by "Annex 16"*.

Item 4.7.8, document ECE/TRANS/WP.29/2019/100, amend the title to read "Supplement 3 to the 07 series of amendments to UN Regulation No. 107 (M₂ and M₃ vehicles)".

70 bis. WP.29 recommended AC.1 not to vote on draft amendment under agenda item 4.7.1.

H. Consideration of draft amendments to existing UN Regulations submitted by GRSP (agenda item 4.8)

Documentation: ECE/TRANS/WP.29/2019/103
ECE/TRANS/WP.29/2019/104
ECE/TRANS/WP.29/2019/105
ECE/TRANS/WP.29/2019/106
ECE/TRANS/WP.29/2019/107
ECE/TRANS/WP.29/2019/108
ECE/TRANS/WP.29/2019/109
ECE/TRANS/WP.29/2019/110
ECE/TRANS/WP.29/2019/111

71. The World Forum considered the draft amendments under agenda items 4.8.1. to 4.8.9. and recommended their submission to AC.1 for voting.

I. Consideration of draft amendments to existing UN Regulations submitted by GRPE (agenda item 4.9)

Documentation: ECE/TRANS/WP.29/2019/112
ECE/TRANS/WP.29/2019/113
ECE/TRANS/WP.29/2019/127

72. The World Forum considered the draft amendments under items 4.9.1 to 4.9.9 and recommended their submission to AC.1 for voting.

J. Consideration of draft amendments to existing UN Regulations submitted by GRVA (agenda item 4.10)

Documentation: ECE/TRANS/WP.29/2019/114
Informal document: WP.29-179-15

73. Following the recommendation by the Chair of GRVA, WP.29 deferred adoption of ECE/TRANS/WP.29/2019/114 to its March 2020 session and requested the secretariat to issue it as a revised version incorporating the proposed amendments of WP.29-179-15.

K. Consideration of draft corrigenda to existing UN Regulations submitted by GRs, if any (agenda item 4.11)

Documentation: ECE/TRANS/WP.29/2019/115
ECE/TRANS/WP.29/2019/116

74. The World Forum considered the draft corrigenda under items 4.11.1 to 4.11.2 and recommended their submission to AC.1 for voting.

L. Consideration of draft corrigenda to existing UN Regulations submitted by the secretariat if any (agenda item 4.12)

75. WP.29 noted that no document had been submitted under this item.

M. Consideration of proposals for new UN Regulations submitted by the Working Parties subsidiary to the World Forum (agenda item 4.13)

76. WP.29 noted that no document had been submitted under this item.

N. Proposal for amendments to the Consolidated Resolution on the Construction of Vehicles (R.E.3) submitted by the Working Parties to the World Forum for consideration (agenda item 4.14)

Documentation: ECE/TRANS/WP.29/2019/117
ECE/TRANS/WP.29/2019/118
Informal document: WP.29-179-06

77. The representative of the European Union informed WP.29 that it would be able to vote on document ECE/TRANS/WP.29/2019/118 if it was together with the informal document WP.29-179-06.

78. The World Forum adopted the amendments to the Consolidated Resolution on the Construction of Vehicles (R.E.3) under items 4.14.1 to 4.14.2.

O. Proposal for amendments to the Consolidated Resolution on the common specification of light source categories (R.E.5) (agenda item 4.15)

Documentation: ECE/TRANS/WP.29/2019/126

79. The World Forum approved the amendments to the Consolidated Resolution on the common specification of light source categories (R.E.5).

P. Pending proposals for amendments to existing UN Regulations submitted by the Working Parties to the World Forum (agenda item 4.16)

80. WP.29 noted that no document had been submitted under this item.

Q. Proposals for amendments to Mutual Resolution (agenda item 4.17)

Documentation: ECE/TRANS/WP.29/2019/119

81. The World Forum approved the Amendment 2 to Mutual Resolution No. 1 (M.R.1) and noted it would also be considered in the Executive Committee of the 1998 Agreement (AC.3).

VII. 1998 Agreement (agenda item 5)

82. The World Forum agreed that agenda items 5.1 to 5.5 should be considered in detail by the Executive Committee of the 1998 Agreement (AC.3).

VIII. Exchange of views on national/regional rulemaking procedures and implementation of established UN Regulations and/or UN GTRs into national/regional law (agenda item 6)

83. The World Forum agreed to keep this item on its agenda awaiting additional presentations.

IX. 1997 Agreement (Periodical Technical Inspections) (agenda item 7)

Documentation: Informal documents: WP.29-179-20 and WP.29-179-22

84. The representative of the Russian Federation, Co-Chair of IWG on PTI, reported on the activities of IWG since June 2019 (WP.29-179-20) and presented WP.29-179-22 with a general overview of the "in-service compliance assessment approach". He noted that, according to the principles for in-service compliance enforcement addressed by WP.29, a shift towards sustainability of transport systems that includes safety needed to be considered. He added that the increased complexity of vehicles would require these vehicles to be properly maintained throughout their life. He stated that, to meet the above two principles, the continuous compliance of vehicles through their whole life shall be warranted.

85. He listed several procedures servicing the purpose of continuous compliance of the vehicle: Conformity of Production (CoP) and in-service conformity in framework of the 1958 Agreement, market surveillance, PTI and roadside inspections in framework of the 1997 Agreement. He added that the data collected in these processes could be used by the contracting parties for a proper safety management. He mentioned that both international legal acts shall be interconnected and could be united in the future. He recalled that there

were precedents: one of them being the Customs Union Regulation on the safety of wheeled vehicles.

86. He proposed that compliance management should:

- (i) Incorporate procedures to identify compliance obligations and to evaluate compliance risks;
- (ii) Include planning to address compliance risks and to achieve the objectives;
- iii) Operational planning and control of compliance risks;
- (iv) Performance evaluation and compliance reporting;
- (v) Managing non-compliances; and
- (vi) Continual improvement of the management.

87. He emphasized that the two principles of integrity and compliance were the basis and thus an opportunity for a sustainable transport system.

88. The Co-Chair of IWG on PTI proposed that information on the results of PTI/Roadside Inspection could be used for in-service conformity purposes as well as information from type approval authorities, warranty claims, contracting party surveillance testing and warranty repair works recorded at servicing.

89. He concluded that there was need to explore the feasibility of introducing provisions, relevant for in-use requirements for vehicles, into the relevant UN Regulations by GRs. PTI/Roadside Inspection could be the element of in-service conformity. He advocated that in-use requirements for vehicles together with test and inspection methods stemming from the relevant UN Regulations should be placed into UN Rules.

90. He advised that the next task was the development of the definitions for:

- In-service conformity;
- In-service compliance;
- Vehicle normal in-service conditions; and
- Vehicle normal useful life period.

91. The representative of Sweden expressed support for the work going on in IWG on PTI. He raised the question of how to take the work forward and to propose provisions.

92. The representative of Italy, Vice-Chair of WP.29, noted that the in-service conformity process involved the manufacturer and the authorities of the country which had granted type approval for a vehicle type, while the PTI process involved the vehicles registered in a given country. He asked how to reconcile these two different scopes and jurisdictions. The Chair of IWG confirmed that this item was currently under discussion.

93. The representative of the Netherlands provided insight on the reasons for their support for the ongoing activities of IWG. He explained that they supported the overall concept presented and that his organization was in charge of both type approval and period technical inspection and that, therefore, they had an interest to manage the implications of technical progress and regulatory updates on the period technical inspection system.

A. Status of the Agreement (agenda item 7.1)

Documentation: ECE/TRANS/WP.29/1074/Rev.14

94. WP.29 noted the consolidated document (ECE/TRANS/WP.29/1074/Rev.14) on the status of the agreement, including the status of the UN Rules annexed to the agreement, the list of the contracting parties to the agreement and of their administrative departments.

B. Update of Rules annexed to the 1997 Agreement (agenda item 7.2)

95. No update was provided under this agenda item.

C. Amendments to the 1997 Agreement (agenda item 7.3)

Documentation: ECE/TRANS/WP.29/2017/92/Rev.1
WP.29-179-10

96. The secretariat recalled that the amendments to the 1997 Agreement discussed by WP.29 had been sent by the Russian Federation to the Office of Legal Affairs in New York. The secretariat presented WP.29-179-10 reproducing the notification sent by OLA on the entry into force of the amendments to the 1997 Agreement on 13 November 2019.

D. Establishment of new Rules annexed to the 1997 Agreement (agenda item 7.4)

97. No document had been submitted under this agenda item.

E. Update of Resolution R.E.6 related to requirements for testing equipment, for skills and training of inspectors and for supervision of test centres (agenda item 7.5)

Documentation: ECE/TRANS/WP.29/2019/120

98. The Co-Chair of IWG on PTI recalled the purpose of ECE/TRANS/WP.29/2019/120 and that this document was currently under review by the GRs. He noted that the proposal for the amendment to R.E.6 that introduced recommendations for technical roadside inspections, had been submitted to WP.29 Working Parties with the request to provide comments according to their areas of expertise.

99. He announced that this document could be reviewed and considered for voting by AC.4 at its March 2020 session.

X. Other Business (agenda item 8)**A. Exchange of information on enforcement of issues on defects and non-compliance, including recall systems (agenda item 8.1)**

Documentation: Informal documents: WP.29-179-07 and WP.29-179-17/Rev.1

100. The representative of CLEPA presented informal document WP.29-179-07 and invited everyone to join the event celebrating their anniversary taking place on 4 December 2019 in Brussels.

101. The representative of the Russian Federation presented the informal document WP.29-179-17/Rev.1 and described the results of the state surveillance and monitoring of busses. He concluded that work would continue with finding solutions to issues that arose during the tests and asked for support on the proposals to move forward. These findings would warrant reflection related to UN Regulations Nos. 66, 80 and 107. A completed report would be available early 2020.

102. The representative of France welcomed this work, especially on UN regulation No. 66.

B. Consistency between the provisions of the 1968 Vienna Convention and the technical provisions for vehicle of Regulations and UN GTRs adopted in the framework of the 1958 and 1998 Agreements (agenda item 8.2)

Documentation: Informal document: WP.29-179-05

103. The Secretary of WP.1 informed WP.29 on the progress in harmonizing lighting provisions in the 1968 Vienna convention and the UN Regulations on lighting annexed to the 1958 agreement where still open issues had not been solved.

104. He introduced WP.29-179-05 related to the activities of the WP.1-WP.29 Executive-Task-Force that aimed at enhanced cooperation between the two fora. The United States proposed a joint WP.1–WP.29 event for March 2020 when both fora would have their sessions during the same week. Both secretaries agreed to identify a time for such a meeting.

C. Safer vehicles as the third pillar of the global plan for the decade of action for road safety (agenda item 8.3)

Documentation: Informal documents: WP.29-179-11, WP.29-179-13 and WP.29-179-26

105. The secretariat reported on actions taken in the framework of the responsibilities of the World Forum regarding the third pillar (ECE/TRANS/WP.29/1095, para. 97).

106. The representative of OICA presented the informal document WP.29-179-11 and their manifesto. He stressed the strong commitment of OICA to road safety and stated that only an integrated approach would yield benefits in improving road safety. He continued that manufacturers had the responsibility to offer safe and affordable vehicles to the public and strongly recommended governments to place manufacturers on a level playing field by legislating mandatory minimum safety requirements on the basis of the list contained in informal document WP.29-179-11

107. The representative of NCAP welcomed the initiative of OICA and announced that they would comment through a letter. The representative of Germany considered it as important action and expressed the willingness of his country to support those countries asking for support for improving road safety. He also encouraged other countries to do so. The representative of South Africa congratulated OICA on the important agreement and informed WP:29 that manufacturers in South Africa had already changed their approach towards legally mandating minimum safety regulations due to the manifesto.

108. The representative of Consumer International presented the project aiming at raising awareness about the safe transport of children among consumers in Latin America (PERSI).

109. The representative of the Russian Federation thanked Consumer International for the presentation and noted that the Russian Federation also made significant efforts for increasing child safety during transportation. He also noted that WP.29 adopted the supplement to UN Regulation No. 44 initiated by the Russian Federation, which excluded various adapters from the types of child restraint systems. This initiative increased child safety during transportation by vehicles.

110. The representative of Global NCAP highlighted that fake labels on car seats were a problem as they undermined our work. He encouraged the WP.29 and its secretariat to think about developing digital systems to check if labels are real, perhaps through some support from DETA.

D. Documents for publication (agenda item 8.4)

Documentation: Informal document: WP.29-179-14

111. The WP.29 Secretary presented the informal document WP.29-179-14 and announced that amendments agreed in June 2019 would enter into force in January 2020. He clarified that corrigenda should only correct typos and not have impact on the substance.

E. Tributes

112. It was brought to the attention of the World Forum that Mrs. R. Urdhwareshe (India) and Mr. B. Frost (United Kingdom) would no longer attend WP.29 sessions. WP.29 thanked them for their long-lasting cooperation and their important contributions to the success of the World Forum. WP.29 wished them long and happy retirements.

XI. Adoption of the report (agenda item 9)

113. The World Forum adopted the report on its 179th session and its annexes based on a draft prepared by the secretariat. The report included sections related to the seventy-third session of the Administrative Committee (AC.1) of the 1958 Agreement, to the fifty-seventh session of the Executive Committee (AC.3) of the 1998 Agreement and to the fourteenth session of the Administrative Committee (AC.4) of the 1997 Agreement.

B. Administrative Committee of the 1958 Agreement (AC.1)

XII. Establishment of the Committee AC.1 (agenda item 10)

114. Of the 55 contracting parties to the agreement, 40 were represented and established AC.1 for its seventy-third session on 13 November 2019.

115. AC.1 invited the Chair of WP.29 to chair the session.

XIII. Proposals for amendments and corrigenda to existing Regulations and for new Regulations – Voting by AC.1 (agenda item 11)

116. The results of the voting on the documents submitted are in the following tables, following the rules of procedure of article 12 and the appendix of Revision 3 to the 1958 Agreement:

| <i>Amendments to existing Regulations</i> | | | | | | | |
|---|-------------------------------------|--------------------------------|-------------------------------|--------------------------------------|--|-------------------------------------|---------------|
| <i>Regulation No.</i> | <i>Subject of the Regulation</i> | <i>Contracting Parties</i> | | <i>Document: ECE/TRANS/WP.29/...</i> | <i>Voting result: for/agains/abstentions</i> | <i>Document status</i> | <i>Remark</i> |
| | | <i>applying the Regulation</i> | <i>represented and voting</i> | | | | |
| 0 | Whole Vehicle Type Approval (IWVTA) | 54 | 40 | 2019/74 | 40/0/0 | Supplement 1 to the original series | * |
| 0 | Whole Vehicle Type Approval (IWVTA) | 54 | 40 | 2019/75 | 40/0/0 | Supplement 1 to the 01 series | |
| 0 | Whole Vehicle Type Approval (IWVTA) | 54 | 40 | 2019/76 | 40/0/0 | Proposal for a new 02 series | |

| Amendments to existing Regulations | | | | | | | |
|------------------------------------|---|-------------------------|------------------------|--------------------------------------|--|---|--------|
| Regulation No. | Subject of the Regulation | Contracting Parties | | Document: ECE/TRANS/WP.29/... | Voting result: for/against/abstentions | Document status | Remark |
| | | applying the Regulation | represented and voting | | | | |
| 16 | Safety-belts, ISOFIX and i-Size | 48 | 36 | 2019/104 | 36/0/0 | Proposal for Supplement 12 to the 06 series | * |
| 16 | Safety-belts, ISOFIX and i-Size | 48 | 36 | 2019/105 | 36/0/0 | Proposal for Supplement 5 to the 07 series | * |
| 21 | Interior fittings | 48 | 37 | 2019/106 | 37/0/0 | Proposal for Supplement 4 the 01 series | * |
| 29 | Cabs of commercial vehicles | 42 | 34 | 2019/107 | 34/0/0 | Proposal for Supplement 5 to the 03 series | * |
| 43 | Safety glazing | 49 | 37 | 2019/95 | 37/0/0 | Proposal for Supplement 9 to the 01 series | * |
| 44 | Child Restraint Systems | 45 | 35 | 2019/108 | 35/0/0 | Proposal for Supplement 17 to the 04 series | * |
| 48 | Installation of lighting and light-signalling devices | 47 | 36 | 2019/84 | 36/0/0 | Proposal for Supplement 13 to the 06 series | * |
| 53 | Installation of lighting and light-signalling devices for L ₃ vehicles | 46 | 35 | 2019/80 | 35/0/0 | Proposal for a new 03 series | * |
| 53 | Installation of lighting and light-signalling devices for L ₃ vehicles | 46 | 35 | 2019/85 | 35/0/0 | Proposal for Supplement 3 to the 02 series | * |
| 53 | Installation of lighting and light-signalling devices for L ₃ vehicles | 46 | 35 | 2019/86 | 35/0/0 | Proposal for Supplement 21 to the 01 series | * |
| 55 | Mechanical couplings | 45 | 34 | 2019/96 | 34/0/0 | Proposal for Supplement 8 to the 01 series | * |
| 58 | Rear underrun protection | 47 | 36 | 2019/97 | 36/0/0 | Proposal for Supplement 1 to the 03 series | * |
| 67 | LPG Vehicles | 44 | 33 | 2019/94 as amended by para. 70 above | 33/0/0 | Proposal for the 03 series | * |
| 67 | LPG Vehicles | 44 | 33 | 2019/98 as amended by para. 70 above | 33/0/0 | Proposal for Supplement 2 to the 02 series | * |
| 74 | Installation of lighting and light-signalling devices for mopeds | 45 | 34 | 2019/79 | 34/0/0 | Proposal for a new 02 series | * |

| Amendments to existing Regulations | | | | | | | |
|------------------------------------|---|-------------------------|------------------------|---------------------------------------|--|--|--------|
| Regulation No. | Subject of the Regulation | Contracting Parties | | Document: ECE/TRANS/WP.29/... | Voting result: for/against/abstentions | Document status | Remark |
| | | applying the Regulation | represented and voting | | | | |
| 74 | Installation of lighting and light-signalling devices for mopeds | 45 | 34 | 2019/87 | 34/0/0 | Proposal for Supplement 11 to the 01 series | * |
| 80 | Strength of seats and their anchorages (buses) | 44 | 35 | 2019/103 | 35/0/0 | Proposal for the 04 series | * |
| 83 | Emissions of M ₁ and N ₁ vehicles | 46 | 35 | 2019/127 | 35/0/0 | Proposal for Supplement 10 to the 07 series | * |
| 85 | Measurement of the net power and the 30 min. power | 47 | 36 | 2019/112 | 36/0/0 | Proposal for Supplement 10 | * |
| 86 | Installation of lighting and light-signalling devices for agricultural vehicles | 42 | 33 | 2019/88 | 33/0/0 | Proposal for Supplement 2 to the 01 series | * |
| 98 | Headlamps with gas-discharge light sources | 47 | 37 | 2019/89 | 37/0/0 | Proposal for Supplement 1 to the 02 series | * |
| 107 | M2 and M3 vehicles | 49 | 36 | 2019/99 | 36/0/0 | Proposal for Supplement 8 to the 06 series | * |
| 107 | M2 and M3 vehicles | 49 | 36 | 2019/100 as amended by para. 70 above | 36/0/0 | Proposal for Supplement 3 to the 07 series | * |
| 107 | M2 and M3 vehicles | 49 | 36 | 2019/101 | 36/0/0 | Proposal for Supplement 2 to the 08 series | * |
| 112 | Headlamps emitting an asymmetrical passing-beam | 52 | 39 | 2019/90 | 39/0/0 | Proposal for Supplement 1 to the 02 series | * |
| 113 | Headlamps emitting a symmetrical passing-beam | 52 | 39 | 2019/91 | 39/0/0 | Proposal for Supplement 1 to the 03 series | * |
| 115 | LPG and CNG retrofit systems | 51 | 37 | 2019/113 | 37/0/0 | Proposal for Supplement 9 | * |
| 116 | Anti-theft and alarm systems | 52 | 38 | 2019/102 | 38/0/0 | Proposal for Supplement 7 | * |
| 123 | Adaptive front lighting (AFS) | 52 | 39 | 2019/92 | 39/0/0 | Proposal for Supplement 1 to the 02 series | * |
| 129 | Enhanced Child Restraint Systems (ECRS) | 54 | 39 | 2019/109 | 39/0/0 | Proposal for Supplement 3 to the 03 series | * |
| 135 | Pole Side Impact (PSI) | 55 | 40 | 2019/110 | 40/0/0 | Proposal for Supplement 2 to the original series | * |
| 135 | Pole Side Impact (PSI) | 55 | 40 | 2019/111 | 40/0/0 | Proposal for Supplement 2 to the 01 series | * |

| <i>Amendments to existing Regulations</i> | | | | | | | |
|---|----------------------------------|--------------------------------|-------------------------------|---------------------------------------|---|--|---------------|
| <i>Regulation No.</i> | <i>Subject of the Regulation</i> | <i>Contracting Parties</i> | | <i>Document: ECE/TRANS/WP.29/...</i> | <i>Voting result: for/against/abstentions</i> | <i>Document status</i> | <i>Remark</i> |
| | | <i>applying the Regulation</i> | <i>represented and voting</i> | | | | |
| 148 | Light Signalling Devices (LSD) | 55 | 40 | 2019/81 as amended by para. 69 above | 40/0/0 | Proposal for Supplement 1 to the original series | * |
| 149 | Road Illumination Devices (RID) | 55 | 40 | 2019/82 | 40/0/0 | Proposal for Supplement 1 to the original series | * |
| 149 | Road Illumination Devices (RID) | 55 | 40 | 2019/125 as amended by para. 69 above | 40/0/0 | Proposal for Supplement 1 to the original series | * |
| 150 | Retro-Reflective Devices (RRD) | 55 | 40 | 2019/83 | 40/0/0 | Proposal for Supplement 1 to the original series | * |
| <i>Corrigenda to existing Regulations</i> | | | | | | | |
| <i>Regulation No.</i> | <i>Subject of the Regulation</i> | <i>Contracting Parties</i> | | <i>Document: ECE/TRANS/WP.29/...</i> | <i>Voting result: for/against/abstentions</i> | <i>Document status</i> | <i>Remark</i> |
| | | <i>applying the Regulation</i> | <i>represented and voting</i> | | | | |
| 17 | Strength of seats | 49 | 37 | 2019/115 | 37/0/0 | Proposal for Corrigendum 1 to the 08 series | * |
| 17 | Strength of seats | 49 | 37 | 2019/116 | 37/0/0 | Proposal for Corrigendum 1 to the 09 series | * |

* The European Union voting on behalf of its member States.

C. Executive Committee of the 1998 Agreement (AC.3)

XIV. Establishment of the Executive Committee AC.3 (agenda item 12)

Documentation: Informal document: WP.29-179-16

117. The fifty-seventh session of the Executive Committee (AC.3) was held on 13 November 2019 and chaired by the representative of the United States of America. The representatives of 14 of the 38 contracting parties to the agreement attended: Australia, Canada, China, the European Union (representing Cyprus, Finland, France, Germany, Hungary, Italy, Lithuania, Luxembourg, the Netherlands, Romania, Slovakia, Slovenia, Spain, Sweden and the United Kingdom), India, Japan, Norway, the Republic of Korea, the

Russian Federation, San Marino, South Africa, Tunisia, Turkey and United States of America.

XV. Monitoring of the 1998 Agreement: Reports of the Contracting Parties on the transposition of UN GTRs and their amendments into their national/regional law (agenda item 13)

Documentation: ECE/TRANS/WP.29/1073/Rev.26
Informal document: WP.29-179-12

118. AC.3 noted the information, as of 6 November 2019, on the status of the Agreement of the Global Registry and of the Compendium of Candidates (ECE/TRANS/WP.29/1073/Rev.26), the status of the priorities of the 1998 Agreement (based on WP.29-176-04 as reproduced in Annex II to this report) and items on which the exchange of views should continue. AC.3 noted that notifications and the mandatory reports on the transposition process through their Permanent Missions in Geneva to the secretariat, are publicly accessible at: <https://wiki.unece.org/display/TRAN/Home>. AC.3 agreed to always send the above-mentioned reports and notifications through their Permanent Missions in Geneva and directly to the secretariat (email: edoardo.gianotti@un.org) to ensure updating of the status document, which is the monitoring tool of the agreement. Finally, AC.3 requested to its representatives to provide to the secretariat with the coordinates of their corresponding focal points to the agreement: they are appointed in their capitals to draft the reports and notifications to keep them informed in the exchange of information through the above-mentioned website.

XVI. Consideration and vote by AC.3 of draft UN GTRs and/or draft amendments to established UN GTRs, if any (agenda item 14)

A. Proposal for a new UN GTR (agenda item 14.1)

119. No new proposals for new UN GTRs have been submitted under this agenda item.

B. Proposal for Amendment 4 to UN GTR No. 2 (on the measurement procedure for two wheeled motorcycles equipped with a positive or compression ignition engine with regard to the emissions of gaseous pollutants, CO₂ emissions and fuel consumption) (agenda item 14.2)

Documentation: ECE/TRANS/WP.29/2019/121
ECE/TRANS/WP.29/2019/122
ECE/TRANS/WP.29/AC.3/36

120. Submitted for consideration and vote, the proposal for Amendment 4 to UN GTR No 2 on the measurement procedure for two wheeled motorcycles equipped with a positive or compression ignition engine with regard to the emissions of gaseous pollutants, CO₂ emissions and fuel consumption (ECE/TRANS/WP.29/2019/121, ECE/TRANS/WP.29/2019/122 and ECE/TRANS/WP.29/AC.3/36), subject to the following modification in ECE/TRANS/WP.29/2019/121:

Paragraph 3.4.3.1 to Annex 1: "1.225 Pa" *should read* "1.225 kPa".

121. The proposal was adopted on 13 November 2019 by consensus of vote of the following contracting parties present and voting: Australia, Canada, China, the European Union (representing Cyprus, Finland, France, Germany, Hungary, Italy, Lithuania, Luxembourg, the Netherlands, Romania, Slovakia, Slovenia, Spain, Sweden and the United

Kingdom), India, Japan, Norway, the Republic of Korea, the Russian Federation, South Africa, Tunisia, Turkey and the United States of America.

122. The representatives from San Marino abstained from voting.

XVII. Consideration of technical regulations to be listed in the Compendium of Candidates for UN GTRs, if any (agenda item 15)

123. AC.3 Chair reminded representatives of contracting parties to the Agreement to provide secretariat with official letters to re-affirm listing of candidate regulations whose 5-year period would expire next year.

XVIII. Consideration of amendments to Mutual Resolutions (agenda item 16)

Documentation: ECE/TRANS/WP.29/2019/119
WP.29-179-16

124. Submitted for consideration and vote, the proposal for amendment 2 to Mutual Resolution No. 1 of the 1958 and 1998 Agreements (M.R.1) (ECE/TRANS/WP.29/2019/119) was adopted on 13 November 2019 by consensus vote of the following contracting parties present and voting: Australia, Canada, China, the European Union (representing Cyprus, Finland, France, Germany, Hungary, Italy, Lithuania, Luxembourg, the Netherlands, Romania, Slovakia, Slovenia, Spain, Sweden and the United Kingdom), India, Japan, Norway, the Republic of Korea, the Russian Federation, South Africa, Turkey.

125. The representatives from Tunisia and the United States of America abstained from voting.

XIX. Guidance, by consensus decision, on those elements of draft UN GTRs that have not been resolved by the Working Parties subsidiary to the World Forum, if any (agenda item 17)

126. Contracting parties did not, at the time, request additional guidance under this agenda item, beyond the discussions that had taken place under agenda item 18.

XX. Exchange of information on new priorities to be included in the programme of work (agenda item 18)

Documentation: ECE/TRANS/WP.29/2019/2
ECE/TRANS/WP.29/2019/31/Rev.1

127. AC.3 noted that GRSP would provide their priority topics after its December 2019 meeting.

XXI. Progress on the development of new UN GTRs and of amendments to established UN GTRs (agenda item 19)

A. UN GTR No. 1 (Doors locks and door retention components) (agenda item 19.1)

128. No new information was provided under this agenda item. AC.3 agreed to keep this agenda item until new proposal would be submitted.

B. UN GTR No. 2 (Worldwide Motorcycle emission Test Cycle (WMTC)) (agenda item 19.2)

129. The representative of European Union thanked AC.3 for the vote on Amendment 4 to UN GTR No. 2 under agenda item 14.2. He highlighted that two levels of stringency had been implemented in Amendment 4 to reflect discrepancy among the different regions involved in the development work of the UN GTR. IWG on EPPR would now focus on transposing Amendment 4 to UN GTR No. 2 into an equivalent UN Regulation for L category vehicle. He informed that IWG will extend the requirements to other categories as a part of the next stage discussion.

C. UN GTR No. 3 (Motorcycle braking) (agenda item 19.3)

Documentation: ECE/TRANS/WP.29/AC.3/47

130. The representative of Italy reported on the progress in harmonizing the provisions of UN GTR No. 3 and UN Regulation No. 78 according to the mandate (ECE/TRANS/WP.29/AC.3/47). He announced that GRVA adopted a proposal for amendments to UN GTR No. 3 as well as the corresponding technical report and that both would be reviewed by AC.3 in March 2020. He thanked the contracting parties involved in the development of this amendment. He announced that the outcome of this work could result in amendments to UN Regulation No. 78 which the expert from IMMA volunteered to submit for review at the fifth session of GRVA.

D. UN GTR No. 4 (Worldwide Heavy-Duty vehicle emission test Cycle (WHDC)) (agenda item 19.4)

131. The representative of the United States of America updated AC.3 about their work on proposing new federal standards for pollutant emissions from heavy duty vehicles. He expected a proposal to be issued in 2020 and a final rule adopted in 2021. He explained that the United States of America were exploring the possibility to use part of UN GTR No. 4 as a basis for this proposal, for example, on heavy-duty hybrid vehicles.

E. UN GTR No. 5 (On-Board Diagnostic Systems (OBD)) (agenda item 19.5)

132. No new information was provided under this agenda item. AC.3 agreed to keep this agenda item until new proposal would be submitted.

F. UN GTR No. 6 (Safety glazing) (agenda item 19.6)

Documentation: ECE/TRANS/WP.29/AC.3/41
ECE/TRANS/WP.29/AC.3/52
ECE/TRANS/WP.29/2019/123

133. The representative of the Republic of Korea reported on the progress of IWG on Panoramic Sunroof Glazing (PSG) in developing an amendment to UN GTR No. 6.

134. AC.3 noted that IWG was developing a draft Mutual Resolution No. [4] on the ceramic printed areas under the mandate, as amendments to the UN GTR No. 6 were considered premature.

135. The representative also introduced ECE/TRANS/WP.29/2019/123, which is the request for authorization to develop an amendment to UN GTR No.6 on Safety Glazing. He explained that the authorization included the proposal for an amendment to exempt, in Zone I, the possible opaque obscuration in the test area on the windscreen of Categories 1-2 and 2 vehicles, which was used for installing devices such as rain-drop sensor, inside mirror or autonomous vehicle sensors.

136. AC.3 adopted ECE/TRANS/WP.29/2019/123 and requested the secretariat to prepare the corresponding AC.3 document.

G. UN GTR No. 7 (Head restraints) (agenda item 19.7)

Documentation: ECE/TRANS/WP.29/2014/86
ECE/TRANS/WP.29/2012/34
ECE/TRANS/WP.29/2011/86
ECE/TRANS/WP.29/2010/136
ECE/TRANS/WP.29/AC.3/25 and Rev.1

137. The representative of Japan, as technical sponsor, reported on the progress of IWG on Phase 2 of UN GTR No. 7 on head restraints. He explained that IWG had proposed an advanced proposal that removed several square brackets and, therefore, had solved the main issues. He added that the draft amendment would introduce injury criteria focusing on Neck Injury Criteria (NIC), namely upper and lower neck flexion and extension and the procedure for establishing the height of the head restraint based on head contact. He concluded that the proposal would be further discussed at the December 2019 session of GRSP and complemented by the final status report.

138. The representative of the United Kingdom explained that a proposal to amend Mutual Resolution No. 1 would incorporate drawings and specifications of the Biofidelic Rear Impact Dummy. However, he indicated that the major challenge was the legal issue of copyright infringement concerning the above-mentioned specifications and consequent limitation of their public usage. He concluded by announcing that work would continue in close cooperation with the secretariat and with the dummy manufacturer to devise a disclaimer text, that would be removed from the drawings once the amendment was adopted by WP.29 and AC.3.

H. UN GTR No. 8 (Electronic stability control systems (ESC)) (agenda item 19.8)

139. The representative of the Republic of Korea recalled that, at the fourth session of GRVA, discussions had begun for the Sine "with Dwell" series test of vehicle directional stability performance in UN Regulation No. 140 (ESC) as well as in UN GTR No. 8 (ESC). He confirmed that Republic of Korea would prepare a request for authorization to amend GTR No. 8 for the next AC.3 session.

I. UN GTR No. 9 (Pedestrian safety) (agenda item 19.9)

Documentation: ECE/TRANS/WP.29/AC.3/31
ECE/TRANS/WP.29/GRSP/2012/2
ECE/TRANS/WP.29/GRSP/2014/5
ECE/TRANS/WP.29/AC.3/45
ECE/TRANS/WP.29/AC.3/45/Rev.1
ECE/TRANS/WP.29/2018/162

140. The expert of the Republic of Korea informed AC.3 about the progress of IWG-DPPS. He stated that the fifth meeting of IWG-DPPS had been held in London in September 2019. He announced that the group was about to start drafting amendments, based on a proposed structure that was still under consideration and that a next IWG meeting was scheduled in March 2020 in Sweden.

J. UN GTR No. 10 (Off-cycle emissions (OCE)) (agenda item 19.10)

141. No new information was provided under this agenda item. AC.3 agreed to keep this agenda item until new proposal would be submitted.

K. UN GTR No. 11 (Agricultural and forestry tractors and non-road mobile machinery emission test procedures) (agenda item 19.11)

142. No new information was provided under this agenda item. AC.3 agreed to keep this agenda item until new proposal would be submitted.

L. UN GTR No. 12 (Motorcycle Controls, Tell-tales and Indicators) (agenda item 19.12)

143. No new information was provided under this agenda item. AC.3 agreed to keep this agenda item until new proposal would be submitted.

M. UN GTR No. 13 (Hydrogen and Fuel Cell Vehicles (HFCV) – Phase 2) (agenda item 19.13)

Documentation: ECE/TRANS/WP.29/AC.3/49

144. The representative of the United States of America, on behalf of the Chair of IWG on EVS UN GTR No. 13, Phase 2 and of GRSP, informed AC.3 on the progress of the group. She reported on IWG meeting that had been held from 6 to 9 November 2019, in Stuttgart, Germany. She stated that, under Phase 2 of the UN GTR, the task forces and subgroups of IWG were working on issues such as extending the scope of the UN GTR to cover heavy-duty vehicles and buses, material compatibility, tank stress rupture, fire test parameters and further clarification of existing GTR test procedures. Overall, she added that IWG was on track, however, some items had proven to be more complex and challenging, and additional work may be necessary. She added, that task force work would continue on heavy duty vehicles and buses, fuelling receptacle requirements, fire tests and test procedure recommendations. In addition, subgroups were looking at issues such as initial burst pressure, material compatibility and humid gas stress corrosion cracking.

N. UN GTR No. 14 (Pole Side Impact (PSI)) (agenda item 19.14)

145. AC.3 recalled the group's discussions on side impact dummies. He reminded AC.3 about the vacant chairmanship of IWG on Harmonization of Side Impact Dummies. He further underlined that Technical Services continued to lack the technical specifications and drawings of side impact dummies, which led to inconsistencies in the test results. Difficulties related to legal uncertainties due to copyright issues had been recently solved for the FlexPLI (see para. 158 below) and a similar approach was envisaged for other dummies.

O. UN GTR No. 15 (Worldwide harmonized Light vehicle Test Procedures (WLTP) – Phase 2) (agenda item 19.15)

Documentation: ECE/TRANS/WP.29/AC.3/39
ECE/TRANS/WP.29/AC.3/44

146. The representative of the EU updated AC.3 on the latest progress on the development of UN GTR No. 15. He explained that IWG on WLTP was drafting Amendment 6 to UN GTR No. 15, which reflected some modifications made within the transposition of UN GTR No. 15 into a UN Regulation. He stated this transposition process had taken significant resources from IWG on WLTP.

P. UN GTR No. 16 (Tyres) (agenda item 19.16)

Documentation: ECE/TRANS/WP.29/AC.3/48

147. The representative of the Russian Federation, on behalf of the Chair of IWG on Tyre GTR, reported that GRBP, at its seventieth session in September 2019, had adopted draft Amendment 2 to UN GTR No. 16 and that the adopted documents would be submitted to the March 2020 session of AC.3. He pointed out that the draft amendment had been prepared by IWG and thanked the experts from Canada, China, Japan, Netherlands, United States of America, and the tyre and automotive industry for participating.

Q. UN GTR No. 17 (Crankcase and evaporative emissions for two-or three-wheeled motor vehicles) (agenda item 19.17)

148. No new information was provided under this agenda item. AC.3 agreed to keep this agenda item until new proposal would be submitted.

R. UN GTR No.18 (On-board diagnostics for two- or three-wheeled motor vehicles) (agenda item 19.18)

Documentation: ECE/TRANS/WP.29/AC.3/36/Rev.1
ECE/TRANS/WP.29/AC.3/36

149. The representative of the European Union reported on the latest progress in developing OBD, stage 2 as part of UN GTR No. 18. He explained the work had been split into two phases; Phase 1 had been completed in time for the GRPE session of May 2019 where an informal document was presented. He informed AC.3 that Phase 2 was still being developed, and highlighted that consensus still had to be reached on certain topics such as requirements for In Use Permanent Ratio, access to OBD information and administrative provisions. He finally informed the session that a new amendment to UN GTR No. 18 was expected to be presented at the November 2020 session of AC.3.

S. UN GTR No. 19 (EVAPorative emission test procedure for the Worldwide harmonized Light vehicle Test Procedure (WLTP EVAP)) (agenda item 19.19)

Documentation: ECE/TRANS/WP.29/AC.3/39
ECE/TRANS/WP.29/AC.3/44

150. The representative of the European Union informed the session that Amendment 3 to UN GTR No. 19 had been submitted as a working document for the January 2020 session of GRPE. He explained that the new amendment contained issues reflecting the transposition of WLTP in a UN Regulation, such as the update of the scope (includes all vehicles fuelled with petrol), and a new optional annex for the conformity of production method.

T. UN GTR No. 20 (Electric Vehicles Safety (EVS)) (agenda item 19.20)

Documentation: ECE/TRANS/WP.29/AC.3/50/Corr.1
ECE/TRANS/WP.29/AC.3/50

151. The representative of the United States of America, on behalf of the Chair of IWG on Electric Vehicle Safety (EVS), UN GTR No. 20, Phase 2 and of GRSP, informed AC.3 about the progress of the group. She said that IWG had met in Tokyo from 11 to 13 June 2019. She explained that an official report of the meeting was being drafted, and that, once reviewed by GRSP, would be presented to AC.3. She clarified that IWG had covered such issues as thermal runaway, battery vibration and water immersion safety. Finally, she announced that the next meeting was scheduled to take place in Berlin in the first week of December 2019.

**U. Draft UN GTR on Quiet Road Transport Vehicles (QRTV)
(agenda item 19.21)**

Documentation: ECE/TRANS/WP.29/AC.3/33

152. The representative of the United States of America, on behalf of the Chair of IWG on Quiet Road Transport Vehicle GTR (QRTV GTR), recalled that the work of IWG had been put on hold, pending consideration of several petitions to the Federal Motor Vehicle Safety Standard (FMVSS) No. 141 on Minimum Sound Requirements for Hybrid and Electric Vehicles. She reported that one petition had been considered so far. She estimated that, in September 2019, 50 % of all hybrid and electric vehicles in the United States of America were in compliance with the FMVSS No. 141 and that this figure was expected to reach 100 % in September 2020.

**V. Draft UN GTR on Global Real Driving Emissions (GRDE)
(agenda item 19.22)**

Documentation: ECE/TRANS/WP.29/AC.3/51
ECE/TRANS/WP.29/AC.3/54
ECE/TRANS/WP.29/2019/72

153. The representative of the European Union informed the session about the fast-paced progress in developing a new UN GTR on global real driving emissions. He added that the last meeting of IWG on GRDE that had taken place in Seoul in October 2019 and provided a good platform for drafting both the new UN GTR and the UN Regulation that was developed simultaneously. He stated that IWG on GRDE was expecting a vote on the new UN GTR during the AC.3 session in November 2020. He also stated that GRPE would be requested to renew the mandate for phase 2, in order to reflect the request from a contracting party on specific requirements for dedicated driving.

W. Draft UN GTR on determination of electrified vehicle power (Electric vehicles and the environment) (agenda item 19.23)

Documentation: ECE/TRANS/WP.29/AC.3/46
ECE/TRANS/WP.29/AC.3/40
ECE/TRANS/WP.29/AC.3/32
ECE/TRANS/WP.29/AC.3/53
ECE/TRANS/WP.29/2014/81
ECE/TRANS/WP.29/2019/33
ECE/TRANS/WP.29/2019/124

154. The representative from Canada, Secretary of IWG on Electric Vehicles and the Environment (EVE), briefed WP.29 about the latest activities in developing the new UN GTR on Determination of Electrified Vehicle Power (DEVPP). He explained that extra validation testing led to the one-year delay requested in the revised authorization (ECE/TRANS/WP.29/2019/124), with a proposal to AC.3 now expected for the November 2020 session.

155. AC.3 adopted the revision of the authorization to develop a new UN GTR on DEVPP (ECE/TRANS/WP.29/2019/124) and requested the secretariat to issue it as Revision 1 to ECE/TRANS/WP.29/AC.3/53.

156. He also informed the session about other activities of IWG on EVE on in-vehicle battery durability, with IWG on EVE expecting to present a proposal to GRPE in January 2020. At GRPE in May 2019, IWG on EVE noted that a UN GTR on in-vehicle battery durability for EVs could be developed, incorporating the concepts of battery life modelling, deterioration factors and in-service conformity checks. This approach was further confirmed during IWG on EVE meeting in October 2019 in Brussels. He stated IWG on EVE was continuing to refine these views to coordinate a proposal.

157. He finally explained that the ECE secretariat had led interactions with other bodies within the ECE framework on developing a method of stating energy consumption. He provided an update at the thirty-second meeting of IWG on EVE that the Group of Experts on Energy Efficiency (GEEE) had outlined a pilot project in their work plan that considers joint activities between IWG on EVE and GEEE. He highlighted the pilot project could look at EV recharging parameters and upstream emissions. He indicated that GEEE was interested to have support from IWG on EVE for developing this work, particularly with quantifying emissions data for the recharging of EVs.

XXII. Items on which the exchange of views and data should continue or begin (agenda item 20)

A. Harmonization of side impact (agenda item 20.1)

1. Side impact dummies (agenda item 20.1 (a))

158. The Chair of AC.3 recalled that intellectual property rights were held by dummy manufacturers and had hampered their introduction into M.R.1. in the past. He emphasized that good experience had been made during the work on GTR No. 9, Phase 2 with the FlexPLI where the dummy manufacturer had provided the set of drawings for the test tool and had agreed to have the disclaimer on intellectual property rights removed from the drawings, which was done after the positive vote on the Phase 2 amendment in AC.3.

2. Pole side impact (agenda item 20.1 (b))

159. No subject was raised under this agenda item.

B. Specifications for the 3-D H-point machine (agenda item 20.2)

160. The representative of Spain informed AC.3 that IWG work on defining specifications for the 3-D H-point machine was in progress. He added that the group currently dealt with a proposal for an amendment to the (R.E.3) with the aim to present an official document at the May 2020 session of GRSP.

C. Event Data Recorder (EDR) (agenda item 20.3)

161. The Chair of GRSG recalled discussions on this topic under agenda item 2.3 (see para. 35 above)

XXIII. Other business (agenda item 21)

162. No subject was raised under this agenda item.

D. Administrative Committee of the 1997 Agreement (AC.4)**XXIV. Establishment of the Committee AC.4 and election of officers for the year 2019 (agenda item 22)**

Documentation: Informal document:

163. The Administrative Committee (AC.4) did not convene, as recommended by AC.2 during its 131st session.

XXV. Amendments to UN Rules annexed to the 1997 Agreement (agenda item 23)

164. No further supplementary information was provided beyond agenda item 7.2. (see para. 95 above).

XXVI. Establishment of new Rules annexed to the 1997 Agreement (agenda item 24)

165. No further supplementary information was provided beyond agenda item 7.4. (see para. 97 above).

XXVII. Other business (agenda item 25)

166. No subject was raised under this agenda item.

Annex I

[English only]

**List of informal documents (WP.29-179-...) distributed
without a symbol during the 179th session**

| <i>No. WP.29-179-</i> | <i>Transmitted by</i> | <i>Agenda item</i> | <i>Language</i> | <i>Title</i> | <i>Follow-up</i> |
|-----------------------|-----------------------|--------------------|-----------------|---|------------------|
| 1 | Secretariat | 2.2. | E | WP.29, Working Parties, Informal Working Groups and Chairmanship | (b) |
| 2 | Secretariat | 2.2. | E | Calendar of meetings for 2020 | (b/c) |
| 3 | Secretariat | 1. | E | 179 th WP.29 running-order | (b) |
| 4 | Secretariat | 1. | E | Consolidated annotated agenda | (b) |
| 5 | WP.1 | 8.2 | E | Collaboration and common approaches between WP.1-WP.29 on automated vehicles | (d) |
| 6 | Netherlands | 4.14.2 | E | Proposal for amendments to ECE/TRANS/WP.29/2019/118 | (a) |
| 7 | CLEPA | 8 | E | Future as we move – Shaping solutions for mobility | (d) |
| 8 | IWG on IWVTA | 4.3. | E | Report to the 179th WP.29 session from the 31st IWVTA IWG meeting | (a) |
| 9 | IWG on DETA | 4.5. | E | Report to WP.29 from 36 th IWG on DETA meeting | (d) |
| 10 | Secretariat | 7.3. | E | Notification of entry into force of amendments to the 1997 Agreement | (d) |
| 11 | OICA | 8.3 | E | Global Road Safety - OICA Manifesto | (d) |
| 12 | Secretariat | 5.1 and 13 | E | Status of the 1998 Agreement of the global registry and of the compendium of candidates | (d) |
| 13 | Secretariat | 8.3 | E | The Inland Transport Committee and the Road Safety Progress Report of the ECE Road Safety Action Plan (2011-2020) | (d) |
| 14 | Secretariat | 8.4 | E | Adopted proposals, amendments, corrigenda and new UN Regulations and situation of their entry into force | (d) |
| 15 | GRVA | 4.10.1. | E | Proposal for amendments to ECE/TRANS/WP.29/2019/114 | (a) |

| <i>No. WP.29-179-</i> | <i>Transmitted by</i> | <i>Agenda item</i> | <i>Language</i> | <i>Title</i> | <i>Follow-up</i> |
|-----------------------|-----------------------|--------------------|-----------------|---|------------------|
| 16 | Secretariat | 12-16 | E | Establishment of the Executive Committee (AC.3) and vote | (d) |
| 17 | Russian Federation | 8.1 | E | The results of the state surveillance of buses | (d) |
| 18 | FIA | 2.3 | E | Consumer views on automated and connected vehicles | (d) |
| 19 | IWG on EDR/DSSAD | 2.3 | E | Comparison between Event Data Recorder (EDR) and Data Storage System for Automated Driving (DSSAD) | (d) |
| 20 | IWG on PTI | 7 | E | Report to WP.29 about results of the 15th meeting of the Informal Working Group on Periodical Technical Inspections | (d) |
| 21 | IWG on DETA | 4.5 | E | Report to 179th WP.29 session from the 36th IWG on DETA meeting | (d) |
| 22 | IWG on PTI | 7 | E | General Overview of in-service compliance assessment | (d) |
| 23 | CLEPA | 2.3 | E | Proposal for a draft Amendment to the Framework document on automated/autonomous vehicles ECE/TRANS/WP.29/2019/34rev1 | (e) |
| 24 | TF CS/OTA | 2.3 | E | Report on the test phase for Software Updates of the Task Force on Cyber Security and Over-the-air issues | (d) |
| 25 | IWG on FRAV | 2.3 | E | Proposal for a Corrigendum to the Framework document on automated/autonomous vehicles ECE/TRANS/WP.29/2019/34rev1 | (e) |
| 26 | CI/Global NCAP | 8.3 | E | Child restraint systems in Latin America | (d) |
| 27 | CEN / ISO | 2.3 | E | Practicable workable cybersecurity for connected vehicles through the use of CEN_ISO Standards | (d) |
| 28 | CEN / ISO | 2.3 | E | How ISO 21217 works | (d) |
| 29 | CEN / ISO | 2.3 | E | ISO 21177 | (d) |
| 30 | CEN / ISO | 2.3 | E | ISO 21217 | (d) |

| <i>No. WP.29- 179-</i> | <i>Transmitted by</i> | <i>Agenda item</i> | <i>Language</i> | <i>Title</i> | <i>Follow-up</i> |
|----------------------------|-----------------------|------------------------|-----------------|--------------|------------------|
| 31 | CEN / ISO | 2.3 | E | ISO TS 21185 | (d) |
| 32 | CEN / ISO | 2.3 | E | ISO TS 21184 | (d) |

Notes:

- (a) Issue as official document for the next session.
- (b) Adopted.
- (c) Continue consideration at the next session.
- (d) Consideration completed or to be superseded
- (e) Referred to GRSP for further elaboration.

Annex II

[English only]

Status of the 1998 Agreement of the global registry and of the compendium of candidates*

Situation on priorities and proposals to develop UN GTRs as of 6 November 2019

GRVA

| <i>Item</i> | <i>Informal group (Yes-No)/ Chair & Vice- Chair</i> | <i>Tech. sponsor</i> | <i>Formal proposal (ECE/TRANS/ WP.29/...)</i> | <i>Proposal for a draft UN GTR (ECE/TRANS/WP.29/..)</i> | <i>State of play/Comments</i> |
|--|---|--------------------------|---|---|---|
| [Amendment 3] to UN GTR No. 3 (Motorcycle brake systems) | No | Italy | AC.3/47 | GRVA/2019/23 | GRVA completed the worked on this item and recommended its proposal to AC.3 for vote in March 2020. |

GRSP

| <i>Item</i> | <i>Informal group (Yes-No)/ Chair & Vice-Chair</i> | <i>Tech. sponsor</i> | <i>Formal proposal (ECE/TRANS/ WP.29).../</i> | <i>Proposal for a draft UN GTR (ECE/TRANS/WP.29/..)</i> | <i>State of play/Comments</i> |
|--|--|----------------------|---|---|--|
| Phase 2 of UN GTR No. 7 (Head Restraints) | Yes/UK | Japan | AC.3/25/ Rev.1 | 2014/86 (fourth progress report) GRSP/2019/5 (Draft UN GTR) | GRSP is expected to finalize discussion on new proposals of Amendment 1 to the UN GTR (GRSP/2019/5) and of a draft Addendum 1 to the M.R.1 at its December 2019 session. |
| Amendment 2 - Phase 2 of UN GTR No. 9 (Flex-PLI) (Pedestrian Safety) | Yes/ Germany/ Japan | Germany/ Japan | AC.3/24 | GRSP/2019/4 | At its May 2019 session GRSP adopted Amendment 2 to Mutual Resolution No. 1 to insert Addendum 3 related to drawings and technical specifications of flex-PLI |

* Information on the contracting parties (38), the Global Registry and the Compendium of Candidates are in document ECE/TRANS/WP.29/1073/Rev.26.

| Item | Informal group (Yes–No)/ Chair & Vice-Chair | | Tech. sponsor | Formal proposal (ECE/TRANS/ WP.29)/.../ | Proposal for a draft UN GTR (ECE/TRANS/WP.29/..) | State of play/Comments |
|------------------------------------|--|--|--|---|--|--|
| | | | | | | |
| Amendment 3 to UN GTR No. 9 | | | Netherlands | AC.3/31 | GRSP/2012/2 GRSP/2014/5 | GRSP will continue consideration on a proposal concerning points of contact of headform impactors at its December 2019 session, also considering the issue of adjustable suspension systems. |
| Amendment 4 to UN GTR No. 9 | | | Republic of Korea | | AC.3/45/Rev.1 2018/162 (ToR) | AC.3 endorsed the ToR of IWG-DPPS (.../2018/162). GRSP will resume consideration on Amendment 4 to the UN GTR to provide the test procedure for deployable systems of the outer surface to ensure an adequate protection of pedestrians at its December 2019 session. |
| Phase 2 of UN GTR No. 13 (HFCV) | | | Japan, Republic of Korea and the European Union | | AC.3/49 2018/75 (ToR) | The ToR of IWG were endorsed at June 2018 session of AC.3 (ECE/TRANS/WP.29/2018/75). |
| UN GTR No. 14 (PSI) | Yes/ Australia | | Australia | AC.3/28 | | No new information was provided at the March 2019 session of AC.3. |
| UN GTR No. 20 (EVS) – Phase 2 | Yes/USA/ European Union/ Japan/ China | | European Union/ Japan/ USA/ China | AC.3/50 & Corr.1 (authorizat ion to develop Phase 2) | | GRSP started Phase 2 concerning the long-term research. AC.3: |

GRPE

| Item | Informal group (Yes–No)/ Chair & Vice-Chair | | Tech. sponsor | Formal proposal (ECE/TRANS/ WP.29/...)/ | Proposal for a draft UN GTR (ECE/TRANS/WP.29/..) | State of play/Comments |
|--|---|--|-----------------------------|--|--|---|
| | | | | | | |
| [Amend. 4] to UN GTR No. 2 (WMTC) | Yes/European Union (EPPR) | | European Union | AC.3/36/ Rev.1 (based on 2015/113) | | GRPE has endorsed the Amend. 4 at its May 2019 session. |
| [Amend. 5] to UN GTR No. 15 (WLTP) | Yes/ Netherlands (WLTP) | | European Union/ Japan | AC.3/44 (based on 2016/73) | | AC.3 to vote during the June 2019 session. |
| [Amend 2] to UN GTR No. 19 (WLTP EVAP) | Yes Netherlands (WLTP) | | European Union/ Japan | AC.3/44 (based on 2016/73) | | AC.3 to vote during the June 2019 session |

| <i>Item</i> | <i>Informal group</i> | | <i>Formal proposal</i> | <i>Proposal for a draft</i> | <i>State of play/Comments</i> |
|---|---|---|------------------------------------|---|---|
| | <i>(Yes-No)/ Chair & Vice-Chair</i> | <i>Tech. sponsor</i> | <i>(ECE/TRANS/ WP.29/...)/</i> | <i>UN GTR (ECE/TRANS/WP.29/...)</i> | |
| Electric vehicles and the environment (EVE) | Yes/USA/ China/ Japan | Canada/ China/European Union/ Japan/USA | AC.3/46 (based on 2016/11) | | GRPE was informed about the ongoing work by IWG on EVE as part B of the mandate. AC.3 agreed to establish a dedicated new UN GTR. Revision to AC.3/46 endorsed by GRPE in May 2019. |
| Global Real Driving Emissions (RDE) | Yes/European Union/ Japan/ Rep. of Korea | European Union/ Japan/ Rep. of Korea | AC.3/51 | | AC.3/51 amended by ECE/TRANS/WP.29/2019/72 to accommodate updated timeline. IWG ToR endorsed by GRPE in January 2019 |

GRBP

| <i>Item</i> | <i>Informal group</i> | | <i>Formal proposal</i> | <i>Proposal for a draft</i> | <i>State of play/Comments</i> |
|--|---|------------------------------|------------------------------------|---|---|
| | <i>(Yes-No)/ Chair & Vice-Chair</i> | <i>Tech. sponsor</i> | <i>(ECE/TRANS/ WP.29/...)/</i> | <i>UN GTR (ECE/TRANS/WP.29/...)</i> | |
| Quiet Road Transport Vehicle | Yes/USA/ Japan | European Union/Japan/ USA | AC.3/33 (Including ToR) | | AC.3 expects a progress report of the ITWG on QRTV |
| [Amendment 2] to UN GTR No. 16 (Tyres) | Yes/Russian Federation | Russian Federation | AC.3/48 | - | This former GRRF activity has been transferred to GRBP. |

GRSG

| <i>Item</i> | <i>Informal group</i> | | <i>Formal proposal</i> | <i>Proposal for a draft</i> | <i>State of play/Comments</i> |
|--|---|----------------------|------------------------------------|---|--|
| | <i>(Yes-No)/ Chair & Vice-Chair</i> | <i>Tech. sponsor</i> | <i>(ECE/TRANS/ WP.29/...)/</i> | <i>UN GTR (ECE/TRANS/WP.29/...)</i> | |
| Panoramic Sunroof Glazing (PSG) | Yes/Rep. of Korea/ Germany | Rep. of Korea | AC.3/41 | | WP.29/AC.3 extended the mandate of IWG on PSG until April 2020. In the meantime, AC.3 established in the Global Registry Corrigendum 2 to UN GTR No. 6 (to clarify the scope). |
| Amendments to UN GTR No.6 (Safety Glazing) | No | India | AC.3/52 | | AC.3 endorsed the authorization (2018/167) to develop an amendment to UN GTR No. 6 on thinner laminated-glass panes for front of upper deck of double decked buses. |

Subjects for exchange of views

| <i>Working Party</i> | <i>Item</i> | <i>Inf. group (Yes-No)/ Chair & Vice-Chair</i> | <i>Tech. sponsor</i> | <i>Formal proposal ECE/TRANS/WP.29/...</i> | <i>State of play.</i> |
|----------------------|----------------------------------|--|----------------------|--|--|
| GRSP | Crash compatibility | No | No | --- | No new information was provided. |
| GRSP | Harmonized side impact dummies | Yes | USA | 2010/88 (second progress report) | AC.3 was informed on the progress made in relation to the 5th percentile female dummy and noted that a redesign of the dummy might be necessary. AC.3 extended the mandate of IWG until December 2017. |
| WP.29 | ITS | No | --- | --- | No new information was provided to AC.3. |
| WP.29 | New technology not yet regulated | No | No | --- | Exchange of views took place on priorities for work on new technologies including automated driving functionalities, in-vehicle communications, cyber security and data protection |

Annex III

[English only]

**World Forum for Harmonization of Vehicle Regulations
(WP.29):
Working Parties, Informal Working Groups and
Chairmanship
State of play of 1 November 2019**

| | <i>Working Parties and informal working groups</i> | <i>Chair/Co-Chairs Vice-Chair</i> | <i>Country</i> | <i>Expiry date of the mandate</i> |
|--------------|---|--|---|---------------------------------------|
| WP.29 | World Forum | Mr. B. Kisulenko Mr. A. Erario | Russian Federation Italy | 2020 |
| | Intelligent Transport Systems (ITS) | Ms. J. Doherty Mr. H. Inomata Mr. I. Yarnold | USA Japan UK | November 2020 |
| | Electronic Database for the Exchange of Type Approval documentation (DETA) | Mr. S. Paeslack | Germany | June 2019 |
| | International Whole Vehicle Type Approval (IWVTA) | Mr. T. Onoda | Japan | November 2019 |
| | Enforcement Working Group | Mr. E. Wondimneh | USA | 2020 |
| | Periodic Technical Inspections (PTI) | Mr. H. P. Weem Mr. V. Komarov | Netherlands Russian Federation | November 2019 |
| GRBP | Noise and Tyres | Mr. S. Ficheux Mr. A. Bocharov | France Russian Federation | 2020 |
| | Quiet Road Transport Vehicles (QRTV UN GTR) | Mr. E. Wondimneh Mr. I. Sakamoto | USA Japan | December 2020 |
| | Additional Sound Emission Provisions (ASEP) | Mr. B. Schuttler Mr. D. Xie Mr. K. Okamoto | Germany China Japan | September 2020 |
| | UN GTR No. 16 (Tyres), Phase II | Mr. A. Bocharov | Russian Federation | November 2020 |
| | Wet grip performance for tyres in worn state (WGWT) | Mrs. E. Collot Mr. A. Vosinis | France EC | September 2020 |
| GRE | Lighting and Light-Signalling | Mr. M. Loccufier Mr. D. Rovers | Belgium Netherlands | 2020 |
| | Simplification of the Lighting and Light Signalling Regulations (SLR) | Mr. M. Loccufier M. A. Lazarevic | Belgium EC | December 2022 |
| GRPE | Pollution and Energy | Mr. A. Rijnders | Netherlands | 2020 |
| | Environmental and Propulsion Performance Requirements of L-category vehicles (EPPR) | Mr. A. Perujo Mr. H. Suzuki | EC Japan | December 2020 |
| | Electric Vehicle and Environment (EVE) | Mr. M. Olechiw Mrs. C. Chen Mr. H. Ishii | USA China Japan | November 2019 |
| | Particle Measurement Programme (PMP) | Mr. G. Martini | EC | June 2019 |
| | Vehicle Interior Air Quality (VIAQ) | Mr. A. Kozlov Mr. J. Lim | Russian Federation Republic of Korea | November 2020 |

| | <i>Working Parties and informal working groups</i> | <i>Chair/Co-Chairs Vice-Chair</i> | <i>Country</i> | <i>Expiry date of the mandate</i> |
|-------------|---|--|---|---------------------------------------|
| | Worldwide harmonized Light vehicles Test Procedures (WLTP Phase 2) | Mr. R. Cuelenaere Mr. D. Kawano | Netherlands Japan | December 2019 |
| | Global Real Driving Emissions (RDE) | Ms. P. Dilara Mr. Y. Kono Mr. J. Park | EC Japan Republic of Korea | November 2021 |
| GRVA | Automated/Autonomous and Connected Vehicles | Mr. R. Damm Ms. C. Chen Mr. T. Onoda | Germany China Japan | 2020 |
| | Functional Requirements for Automated and Autonomous Vehicles (FRAV) | Mr. E. Wondimneh ² Ms. C. Chen. ¹ Mr. R. Damm ¹ | USA China Germany | March 2020 |
| | Validation Method for Automated Driving (VMAD) | Mr. T. Onoda ¹ Mr. P. Striekwold ¹ Mr. I. Sow ¹ | Japan Netherlands Canada | March 2021 |
| | Cyber Security and Over-The-Air software updates (CS/OTA) | Mr. T. Niikuni ¹ Dr. D. Handley ¹ Ms. M. Versailles ¹ | Japan UK USA | November 2019 |
| | Event Data Recorder / Data Storage System for Automated Driving (EDR/DSSAD) | T. Guiting ¹ T. Niikuni ¹ Ms. J. Doherty ¹ | Netherlands Japan USA | November 2020 |
| | Automatically Commended Steering Functions (ACSF) | Mr. C. Theis ¹ Mr. H. Morimoto ¹ | Germany Japan | March 2020 |
| | Advanced Emergency Braking Systems (AEBS) | Mr. A. Lagrange ¹ Mr. T. Hirose ¹ | EC Japan | March 2020 |
| | Modular Vehicle Combinations (MVC) | Mr. A. Gunneriusson | Sweden | March 2020 |
| GRSP | Passive Safety | N.N. N.N. | USA Republic of Korea | 2020 |
| | Harmonization of side impact dummies | Suspended | | Tbd |
| | UN GTR No. 7 on Head Restraints - Development of Phase 2 | Mr. B. Frost | UK | June 2020 |
| | UN GTR No. 9 on Pedestrian Safety Deployable – Pedestrian Protection Systems (DPPS) | Mr. J. S. Park | Republic of Korea | June 2020 |
| | Electric Vehicle Safety (EVS) – Phase 2 | Mr. M. Koubek Ms. Chen M. A. Lazarevic | USA, China and EC Co Chairs no Vice-Chairs | December 2021 |
| | Specification of the 3D-H machine | Mr. L. Martinez | Spain | Tbd |
| | Hydrogen and Fuel Cell Vehicles (HFCV) – Phase 2 | Mr. M. Koubek Ms. Chen Mr. M. Takahashi ¹ | USA China Japan | December 2020 |

² IWG Co-Chairs

| | <i>Working Parties and informal working groups</i> | <i>Chair/Co-Chairs Vice-Chair</i> | <i>Country</i> | <i>Expiry date of the mandate</i> |
|-------------|--|--|------------------------------|---------------------------------------|
| | Protective helmets | Mr. L. Rocco | Italy | December 2019 |
| GRSG | General Safety | Mr. A. Erario Mr. K. Hendershot | Italy Canada | 2020 |
| | Panoramic Sunroof Glazing (PSG) | Mr. S. Eom Mr. T. Fuhrmann | Republic of Korea Germany | April 2020 |
| | Awareness of Vulnerable Road Users proximity (VRU-Proxi) | Mr. Y. Matsui Mr. P. Broertjes | Japan EC | April 2021 |
| | Behaviour of M ₂ and M ₃ category vehicles' general construction in case of fire events (BMFE) | Mr. F. Herveleu | France | October 2020 |

World Forum for Harmonization of Vehicle Regulations (WP.29): Administrative/Executive Committees and Chairmanship

| | <i>Committees</i> | <i>Chair Vice-Chair</i> | <i>Country</i> | <i>Expiry date of the mandate</i> |
|------|---|--|-----------------------------|---------------------------------------|
| AC.1 | Administrative Committee of the 1958 Agreement | Mr. B. Kisulenko Mr. A. Erario | Russian Federation Italy | N.a. |
| AC.2 | Administrative Committee for the coordination of work | Mr. B. Kisulenko | Russian Federation | 2020 |
| AC.3 | Executive Committee of the 1998 Agreement | Mr. E. Wondimneh Mr. I. Yarnold Mr. H. Inomata | USA UK Japan | N.a. |
| AC.4 | Administrative Committee of the 1997 Agreement | Mr. B. Kisulenko | Russian Federation | N.a. |

Annex IV

[English only]

Draft calendar of Meetings of WP.29, GRs and Committees for 2020

| Month | Meeting (title and session No.) | Dates proposed | Schedule | Half-days | Interpretation | 12 weeks deadline | Delegates |
|-------------|---|---|---|-----------|----------------|-------------------|-----------|
| JANUARY | Working Party on Pollution and Energy (GRPE) (80 th session) | 14-17 | p.m./a.m. | 6 | Yes | 21.10.2019 | 150 |
| JANUARY | Working Party on Noise and Tyres (GRBP) (71 st session) | 28-31 | p.m./a.m. | 6 | Yes | 04.11.2019 | 120 |
| FEBRUARY | Working Party on Automated/Autonomous and Connected Vehicles (GRVA) (5 th session) | 10-14 | p.m./a.m. | 8 | Yes | 18.11.2019 | 150 |
| MARCH | Administrative Committee for the Coordination of Work (WP.29/AC.2) (132 nd session) | 9 | a.m./p.m. | 2 | No | | 35 |
| MARCH | World Forum for Harmonization of Vehicle Regulations (WP.29) (180 th); Admin. Committee of the 1958 Agreement (AC.1: 74 th session); Executive Committee of the 1998 Agreement (AC.3: 58 th session); Admin. Committee of the 1997 Agreement (AC.4: 15 th session) | 10-13 (11 11-12) | a.m./a.m. (p.m. p.m./a.m.) | 6 | Yes | 09.12.2019 | 160 |
| MARCH/APRIL | Working Party on General Safety Provisions (GRSG) (118 th session) | 30-3 | p.m./a.m. | 8 | Yes | 06.01.2020 | 120 |
| APRIL | Working Party on Lighting and Light-Signalling (GRE) (83 rd session) | 21-24 | a.m./p.m. | 8 | Yes | 28.01.2020 | 120 |
| MAY | Working Party on Passive Safety (GRSP) (67 th session) | 11-15 | p.m./a.m. | 8 | Yes | 17.02.2020 | 120 |
| JUNE | Working Party on Pollution and Energy (GRPE) (81 st session) | 9-12 | p.m./a.m. | 6 | Yes | 17.3.2020 | 150 |
| JUNE | Administrative Committee for the Coordination of Work (WP.29/AC.2) (133 rd session) | 22 | a.m./p.m. | 2 | No | | 35 |
| JUNE | World Forum for Harmonization of Vehicle Regulations (WP.29) (181 st session); Admin. Committee of the 1958 Agreement (AC.1: 75 th session); Executive Committee of the 1998 Agreement (AC.3: 59 th session); Admin. Committee of the 1997 Agreement (AC.4: 16 th session) | 23-26 (24 24-25 25) | a.m./a.m. (p.m. p.m./a.m. p.m.) | 7 | Yes | 30.03.2020 | 160 |
| SEPTEMBER | Working Party on Noise and Tyres (GRBP) (72 nd session) | 7-9 | p.m./p.m. | 5 | Yes | 15.06.2020 | 120 |
| SEPTEMBER | Working Party on Automated/Autonomous and Connected Vehicles (GRVA) (6 th session) | 21-25 | p.m./a.m. | 8 | Yes | 29.06.2020 | 150 |
| OCTOBER | Working Party on General Safety Provisions (GRSG) (119 th session) | 6-9 | a.m./a.m. | 7 | Yes | 14.07.2020 | 120 |
| OCTOBER | Working Party on Lighting and Light-Signalling (GRE) (84 th session) | 20-23 | a.m./a.m. | 7 | Yes | 28.07.2020 | 120 |
| NOVEMBER | Administrative Committee for the Coordination of Work (WP.29/AC.2) (134 th session) | 9 | a.m./p.m. | 2 | No | | 35 |
| NOVEMBER | World Forum for Harmonization of Vehicle Regulations (WP.29) (182 nd session); Admin. Committee of the 1958 Agreement (AC.1: 76 th session); Executive Committee of the 1998 Agreement (AC.3: 60 th session); Admin. Committee of the 1997 Agreement (AC.4: 17 th session) | 10-13 (11 11-12 12) | a.m./a.m. a.m. p.m./a.m. p.m./a.m. | 7 | Yes | 17.08.2020 | 160 |
| DECEMBER | Working Party on Passive Safety (GRSP) (68 th session) | 7-11 | p.m./a.m. | 8 | Yes | 14.09.2020 | 120 |
| | | TOTAL: 111 half days = 55.5 days | | | | | |

Except the three sessions of the Administrative Committee (WP.29/AC.2) (without interpretation), all sessions are **PUBLIC**

The sessions scheduled "p.m./a.m." will begin in the afternoon, at 2.30 p.m. on the indicated date and are expected to last to 12.30 p.m. on the indicated date.

The sessions scheduled "p.m./p.m." will begin in the afternoon, at 2.30 p.m. on the indicated date and are expected to last to 5.30 p.m. on the indicated date.

The sessions not marked in the column "schedule" start at 9.30 a.m. on the indicated date and are expected to last to 5.30 p.m. on the indicated date.

The sessions of WP.29/AC.2 and of the World Forum (WP.29) begin at 10.00 a.m. (the first day only) and at 10.30 am on last day (Friday). During the WP.29 sessions, the Administrative Committee of the 1958 Agreement (AC.1) will hold its sessions usually on Wednesday, sessions of the Executive Committee of the 1998 Agreement (AC.3) are expected to be held on Wednesday afternoon, and sessions of the Administrative Committee of 1997 Agreement (AC.4) would be held on Wednesday immediately following the AC.1, if necessary.

Note: Geneva Motor Show, Palexpo: 3–15 March 2020; (Press days: 3–4 March 2020).