**Draft programme of work (PoW) under the 1998 Agreement**

 This document repreporduces the feedback of working groups and Contracting Party representatives until 5 October 2017. It supersedes ECE/TRANS/WP.29/2017/144 (this last based on WP.29-172-31). It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to AC.3 for consideration at their November 2017 sessions.

Draft programme of work (PoW) under the 1998 Agreement

| *Ia. Existing UN GTRs - High priority* |  |  |  |  |  |
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| **UN GTR** | **Title** | **GR** | **Version** | **Reason** | **Organsiation of work** | **Reference documents** | **Expected time needed to finalise** | **Status** |
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| **UN GTR No. 3** | **Motorcycle brake systems** | **GRRF** | Amendment 3 | Reflect UN Reg. No. 78 | IWG: None Sponsor: Italy |   | March 2018 | Draft request for authorization to develop Amendment 3 to UN GTR No. 3 adopted by AC.3 in November 2016 |
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| **UN GTR No. 7** | **Head restraints** | **GRSP** | Phase 2 | Amend UN Reg. No. 17 (in parallel) | IWG: Yes (UK) Sponsor: Japan | AC.3/25/Rev. 1 GRSP/2015/34 | End of 2018 | GRSP considered an informal proposal, addressing all issues, including draft Addendum 1 to the M.R.1 at its December 2016 session. AC.3 agreed to extend the mandate of the IWG until March 2017. |
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| **UN GTR No. 9** | **Pedestrian safety** | **GRSP** | Phase 2 | Improve harmonisation, increase safety | IWG: Yes (Germany, Japan) Sponsor: Germany, Japan | AC.3/242016/115 | Phase 2 (new leg form impactor) is finalised, waiting for USA vote. Amendments to phase 1 and 2 (clarifications and bumper test zone) idem. The new work on deployable systems (by Korea, OICA for pop-up bonnets, external airbags, etc.) still under development, to be finalized by end of 2017, but probably one more year needed. | GRSP resumed discussion at its December 2016 session on IARVs and on the draft UN GTR, altogether with a proposal addressing bumper test. AC.3 endorsed the authorization to develop an amendment to the UN GTR to provide the test procedure for deployable systems of the outer surface to ensure an adequate protection of pedestrians and extended the mandate of the IWG on Phase 2 until December 2017. |
| Amendment 3 | Reflect UN Reg. No. 127 | IWG: ??? Sponsor: EC | AC.3/31 GRSP/2014/2GRSP/2014/5 | Done. This concerns phase 2 as well as the amendments to phase 1 and 2 which are already transposed into UN Reg. No. 127 | GRSP considered a revised proposal concerning points of contact of headform impactors at its December 2016 session addressing the Phase 1 and 2 of the UN GTR. |
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| **UN GTR No. 11** | **Test procedure for pollutant emissions in CI engines in tractors & NRMM** | **GRPE** |   | Reflect amendments of UN Reg. No.96  |   |   |   | Work expected to start in 2018, after amendment of UN Reg. No. 96 which is adapted to the new EU Regulation on NRMM (Stage V) |
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| **UN GTR No. 13** | **GTR on Hydrogen & fuel cell vehicles** | **GRSP** | Phase 2 |   |   |   | End of 2020 | PoW is expected to be finalized in the near future and an informal proposal of authorization to develop Phase 2 was endorsed by AC.3 in March 2017 session, AC3/49 for endorsement in June 2017 session |
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| **UN GTR No. 15** | **World harmonised light vehicle test procedures (WLTP)** | **GRPE** | Amendment 3 | Reflect EU legislation on WLTP |   |   |   | At the June 2017 GRPE conference, the Amendment 3 has been adopted by GRPE, together with a further informal document providing further amendments to Amendment 3. So the discussion on Amendment 2 might be pointless. |
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| **UN GTR No. 16** | **Tyres** | **GRRF** | Amendment 2 |   | IWG: Yes (Russia) Sponsor: Russia |   | November 18 | Draft request for authorization to develop Amendment 2 to UN GTR No. 16 adopted by AC.3 in November 2016 |
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| **UN GTR No. [x1]** | **Evaporative emissions in passenger cars (WLTP EVAP)** | **GRPE** | UN GTR  | Reflect EU legislation on WLTP | IWG: ??? (--) Sponsor: Japan, EU. |   |  End 2018 (tbc) | New UN GTR adopted at WP.29 June 2017 session.Note that sealed tanks have been included in the newly adopted (as informal document) EVAP UN GTR (June 2017 GRPE conference). On semi-sealed tanks, the work will continue. |
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| **UNGTR No. [x2]** | **Electrical Vehicle Safety (EVS)** | **GRSP** | Phase 1 and Phase 2 |   | IWG: Yes (China, Japan, USA, EU) Sponsor: China, Japan, USA, EU. | AC.3/32 |   | GRSP in May gave a green light to WP29 to proceed with a vote. Adoption of the new GTR is foreseen at WP.29 November 2017 session. Phase 2 (long-term research items) mandate expected to be approved by WP29 in November 2017. |

| *Ib . Existing GTRs - Low priority* |  |  |  |  |  |
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| **UN GTR No 2** | **Measurement procedures for 2-wheelers (WMTC)** | **GRPE** | Amendment 4 |   | IWG: EPPR (Sweden) Sponsor: EU | AC.3/36  |   | AC.3 recommended, in March 2015, that the IWG continue to work on the creation of a new specific UN GTR. |
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| **UN GTR No. 4** | **Test procedure gas-fuelled engines (WHDC)** | **GRPE** | Amendment 4 |   |   |   |   | "There is need for extra validation of methodology regarding hybrids" - Please check |
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| **UN GTR No. 6** | **Safety glazing materials vehicles & veh equipment** | **GRSG** | ? |   | IWG: Yes (Germany, Korea) Sponsor: Korea | AC.3/41 |   | AC.3 noted the request by GRSG to further update the Term of References and the need to extend the mandate of the IWG on PSG until June 2018. Awaiting technical investigation results |
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| **UN GTRNo. 15** | **World harmonised light vehicle test procedures (WLTP)** | **GRPE** | n/a | Reflect EU legislation on WLTP | IWG: EVE (USA, Japan, China) Sponsor: Canada, China, Japan, USA, EU |   |   | Continue research on certain environmental requirements for electric vehicles. Awaiting input from WLTP phase2. For the moment the activities related to the electrified vehicles (determination of max power, battery durability, etc.) are still being dealt with mainly by the EVE IWG, which is external to WLTP. When and how this work will become an amendment to the UN GTR No. 15 or a separate UN GTR is still unclear. |

| *Ic. Existing GTRs - No activities identified for PoW* |  |  |  |
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| **UN GTR** | **Title** | **GR** | **Version** | **Reason** | **Organsiation of work** | **Reference documents** | **Status** |
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| **UN GTR No. 5** | **Technical requirements for OBD systems** | **GRPE** |   |   |   |   |   |
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| **UN GTR No. 8** | **Electronic stability control** | **GRRF?** |   |   |   |   |   |
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| **UN GTR No. 10** | **Off-cycle emissions (OTC)** | **GRPE** |   |   |   |   |   |
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| **UN GTR No. 12** | **Motorcycle controls, tell-tales & indicators** | **GRE?** |   |   |   |   |   |
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| **UN GTR No. 14** | **Pole side impact (PSI)** | **GRSP** |   |   | IWG: Yes (Australia) Sponsor: Australia |   | No new information was provided at the March 2016 session of AC.3. |
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| **UN GTR No. 17** | **Crankcase and evaporative emissions of 2 or 3-wheeled motor vehicles**  | **GRPE** |   |   |   |   | Still to be notified! |
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| **UN GTR No. 18** | **On-board diagnostics (OBD) for 2 or 3-wheeled motor vehicles**  | **GRPE** |   |   |   |   | Still to be notified! |
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| **UN GTR No. [x3]** | **Quiet Road Transport Vehicles (QRTV)** | **GRB** |   | Reflect UN Reg No. 138 | IWG: Yes (USA); Vice-Chair: Japan Secretariat: EC | UN GTR draft dated 19 Nov. 2014 | Due to the effective date of USA rule further extension to 5 September 2017, the USA expert informed that the next QRTV GTR will be after that date. Further clarifications are expected to be addressed by National Highway Traffic Safety Administration (NHTSA) - USA in the WP29, November 2017 session. |

| *II. New Priorities* |  |  |  |  |  |
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| **Title** | **Group** | **Organsiation of work** | **Reference documents** | **Time horizon for starting work\*** | **Comments** |
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| **Framework Regulation on automated/autonomous vehicles** | **New GR? ITS/AD?** | (IWG ACSF) |   | MT (tbc) | Could possibly also take the form of a UNECE Regulation. [ACSF: Automatically Commanded Steering Function] |
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| **Cyber security** | **IG ITS/AD** | TF CS/OTA |   | ST | It is not decided yet whether to regulate cyber security issues in ITS/AD IWG and TF. Could possibly also take the form of a UNECE Regulation. Work of Task Force on Cyber Security (CS) and Over-the-Air (OTA) updates is ongoing |
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| **Advanced Emergency Braking Systems (AEBS)** | **GRRF** | IWG AEBS |   | MT (tbc) | Some work done on truck & bus collisions against moving and stationary obstacles (see UN Reg 131). Activity launched as an informal group on AEBS for cars (needed for the future revision of GSR) |
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| **Line Keeping Assist Systems (LKAS)** | **GRRF** | (IWG ACSF) |   | MT (tbc) | WP29 aleady adopted an amendment to UN Regulation No. 79 in March 2017. This could be transformed into a GTR as US is also thinking about regulating. |
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| **Event Data Recorders (EDR)** | **GRSG?** |   |   | MT (tbc) | Should be compatible with highly automated vehicle requirments. |
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| **Longitudinal control (ACC, preventive braking)** | **GRRF?** |   |   | tbd | Could possibly also take the form of a UNECE Regulation. Longitudinal control not regulated today except AEBS for Heavy Duty Vehicles (HDV) |
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| **Driver availability recognition** | **ITS/AD?GRSG?** |   |   | MT (tbc) | Should be compatible with highly automated vehicle requirements. |

\* ST : Short‐term (<1 year) ‐ MT : Mid‐term  ‐ LT : Long‐term (>3 years)