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

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| *GRE* | | | | | | | |
| *Priority / Recurrent* | *Title* | *Tasks / Deliverables* | *References* | *Allocations / IWGs* | *Timeline* | *Initiator* | *Comments* |
| Priority | Simplification  Stage 2 | Simplify and update the technical requirements of the new Regulations Nos. 148, 149 and 150, as well as the installation Regulations Nos. 48, 53, 74 and 86 to become future proof and technology neutral, with performance-based and objective test requirements | New simplified UN Regulations Nos. 148, 149 and 150 and amendments to UN Regulations Nos. 48, 53, 74 and 86 | GRE,  IWG-SLR | 2025 | IWG SLR  (GRE) | Ongoing |
| Priority | Installation  New Series of Amendments for Regulation No. 48 | Clarifications, particularly with regard to the inclusion of the ‘park condition’ and usage of certain lamps for additional signals (e.g. welcoming lights) | UN Regulation No. 48 | GRE,  SIG-R.48-09 | 2023 | Japan, supported by various CP’s | Ongoing |
| Priority | EMC issues  (e.g. for electrical vehicles) | Further development of EMC requirements, updating existing requirements and introduction of new provisions for adaptation to technical progress | UN Regulation No. 10 | GRE,  IWG EMC | 2023-2024 |  | Ongoing |
| Priority | Enabling vehicle automation | Screening of GRE regulations for automated/autonomous vehicles, starting from Regulation No. 48 | UN Regulation No. 48 | GRE, TF AVSR | 2023 | TF AVSR | Ongoing |
| Recurrent | Light sources | Further development LED replacement light sources and other light sources | UN Regulation Nos. 37, 99 and 128  and Resolution R.E.5 | GRE |  |  | Ongoing |
| Recurrent | Unique Identifier (UI) | Use of the UI in all component regulations and the preparation of summary document template |  | GRE |  |  | Ongoing |
| Recurrent | Adaptation to technical progress of lighting and light-signalling Regulations | e.g. further development of driver assistance projections and development of road signalling projections |  | GRE |  |  | Continuous process |
| Potential priority | Harmonization, possibly global | Development of standardized signalling for automated/autonomous vehicles (AV’s) |  | TF-AVSR in cooperation with GRVA (FRAV) |  |  | Start of the work is pending on decision of GRVA and WP.29 |

# **Other recurrent, potential and future items for consideration by the Working Party on Lighting and Light-Signalling (GRE level)**

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| *GRE* | | | | | | | |
| *Recurrent/*  *Potential/*  *Future* | *Title* | *Tasks / Deliverables* | *References* | *Allocations / IWGs* | *Timeline* | *Initiator* | *Comments* |
| Future | Sensors | New, or additional, requirements related to optical sensors (e.g. ensuring adequate illumination for – and avoid glaring of – optical sensors) | UN Regulations Nos. 48, 53, 74, 86, 148, 149 | t.b.c. |  |  | t.b.c. |
| Potential | Software | Awareness of GRVA activity on software updates |  | GRE |  |  | t.b.c. |
| Potential | Reference EMC | Regulation No. 10 should become the reference for EMC requirements for all GR’s. Important to try avoiding that other GR’s have, or introduce, their own specific EMC requirements in(to) other Regulations | UN Regulation No.10 | IWG EMC and GRE |  | GRE | t.b.c. |
| Potential | Avoid approval by-passing | Further amendments to Regulation No. 10 to avoid by-passing the approval of other regulations | UN Regulation No. 10 | IWG EMC and GRE |  |  | t.b.c. |
| Potential | Sustainability | Attention to environmental aspects (energy efficiency, waste reduction, etc.) |  | GRE |  |  | t.b.c. |
| Potential | Zero emission | “Zero emission mode” light signalling (hybrid vehicles, city centers, etc.) |  | t.b.c. |  |  | t.b.c. |
| Potential | Light source regulations | Regulatory improvement by further consolidation of the light source regulations |  | t.b.c. |  |  | t.b.c. |
| Potential | Connected vehicles (CV’s) | Connected & communicating light signalling lamps |  | t.b.c. |  |  | t.b.c. |