Topics of work in GRE

(both current and future items)

1958 Agreement

I SIMPLIFICATION (IWG SLR)

The new component Regulations (R.148, R.149, R.150) and the installation Regulations (R.48, R.53, R.74, R.86)

- Performance based requirements
- Technology neutral requirements (starting with light sources)
- Ensuring the new requirements are more future proof (requiring less amendments, e.g. in case of the emergence of new technologies)
- Increase minimum performance of beam patterns for road illumination devices without increasing glare level
- Suitable application of the 'Unique Identifier' ('UI')
- Visibility and glare (human eye)
- Adaptive and intelligent lighting systems
- Apparent surface, new definition and possibly new measurements, to ensure better correlation with appearance of the lamp in reality
- New, or additional, requirements related to optical sensors (e.g. ensuring adequate "illumination" for and avoid "glaring" of optical sensors)
- Awareness of GRVA activity on software updates
- Harmonization (with other regulatory systems)
- Transition from component to system approach

II REGULATORY DEVELOPMENT

Electromagnetic compatibility (R.10) - TF EMC

- Further development of the requirements for electrical vehicles (EV's)
- Updating in relation to various international standards (e.g. CISPR, ISO, etc.)
- New, or additional, requirements for automated/autonomous vehicles (AV's) and new systems
- Amendments to avoid bypassing the approval to other UN Regulations
- Reg. 10 should become the reference for EMC requirements for all GRs

The light source regulations (R.37, R.99, R.128 and R.E.5)

- Development of replaceable LED light sources, including substitute and replacement light sources for filament lamps (TF S/R)
- Potential regulatory improvement by further consolidation of the light source regulations

Installation regulations (primarily R.48)

- AV light signalling (TF AVSR)
- Road Light projections
- "Zero emission mode" light signalling (hybrid & EV, city centers...)
- Attention to environmental aspects (energy efficiency, waste reduction, etc.)
- Connected & communicating light Signalling lamps

1998 Agreement

- Potential development of globally standardized signalling for automated/autonomous vehicles (AV's)
