

IWG on Electromagnetic Compatibility (IWG EMC)

Status report to GRE-90

April / May 2023

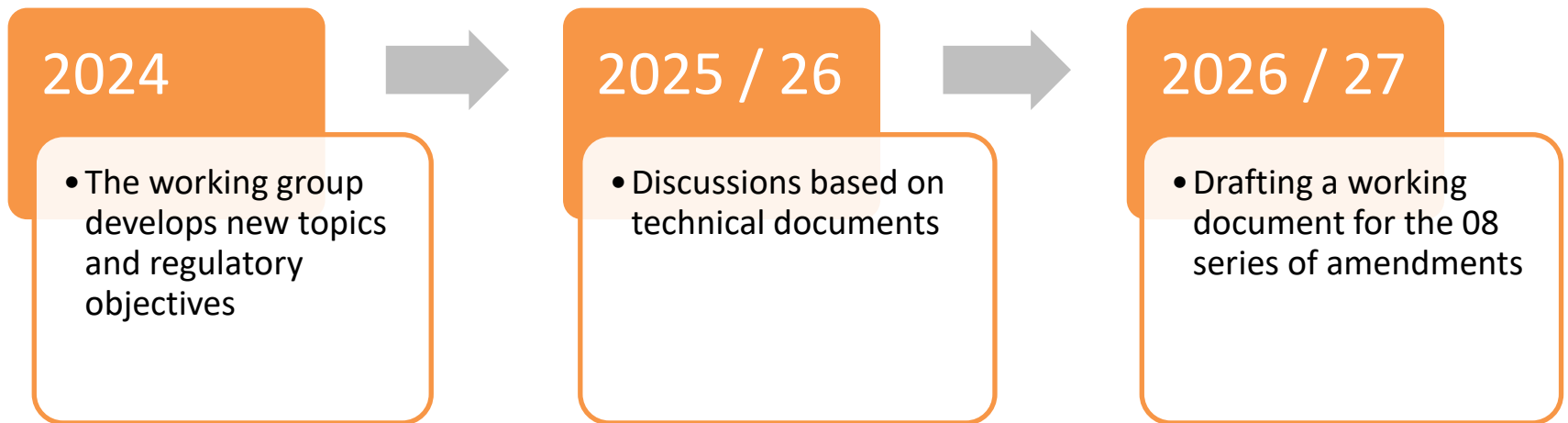
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Proposal for a new 07 series of amendments to UN Regulation No. 10:

- The frequency range of electromagnetic immunity test was extended to 6 GHz in order to ensure robustness regarding state-of-the-art mobile services (e.g. mobile phone standards and wireless networks, 4G, 5G, Wi-Fi).
- The reverberation chamber for ESA electromagnetic immunity test was introduced. This test method is a state-of-the-art immunity test method.
- The minimum number of steady state operating conditions of vehicle propulsion systems have to be considered in the test plan. This is necessary because the default test conditions may not trigger all intended operating modes.
- Definitions regarding automated driving systems (ADS), Acoustic Vehicle Alerting System (AVAS), Accident Emergency Call Systems (AECS) were introduced as well as additional operating conditions and failure criteria have been defined for those systems.
- New flow charts have been developed for each concerned annex to clarify which charge mode must be conducted with which cable.
- New alternative test methods have been created for longer, wider or higher vehicles with the aim to have a harmonized testing procedure of these vehicles.

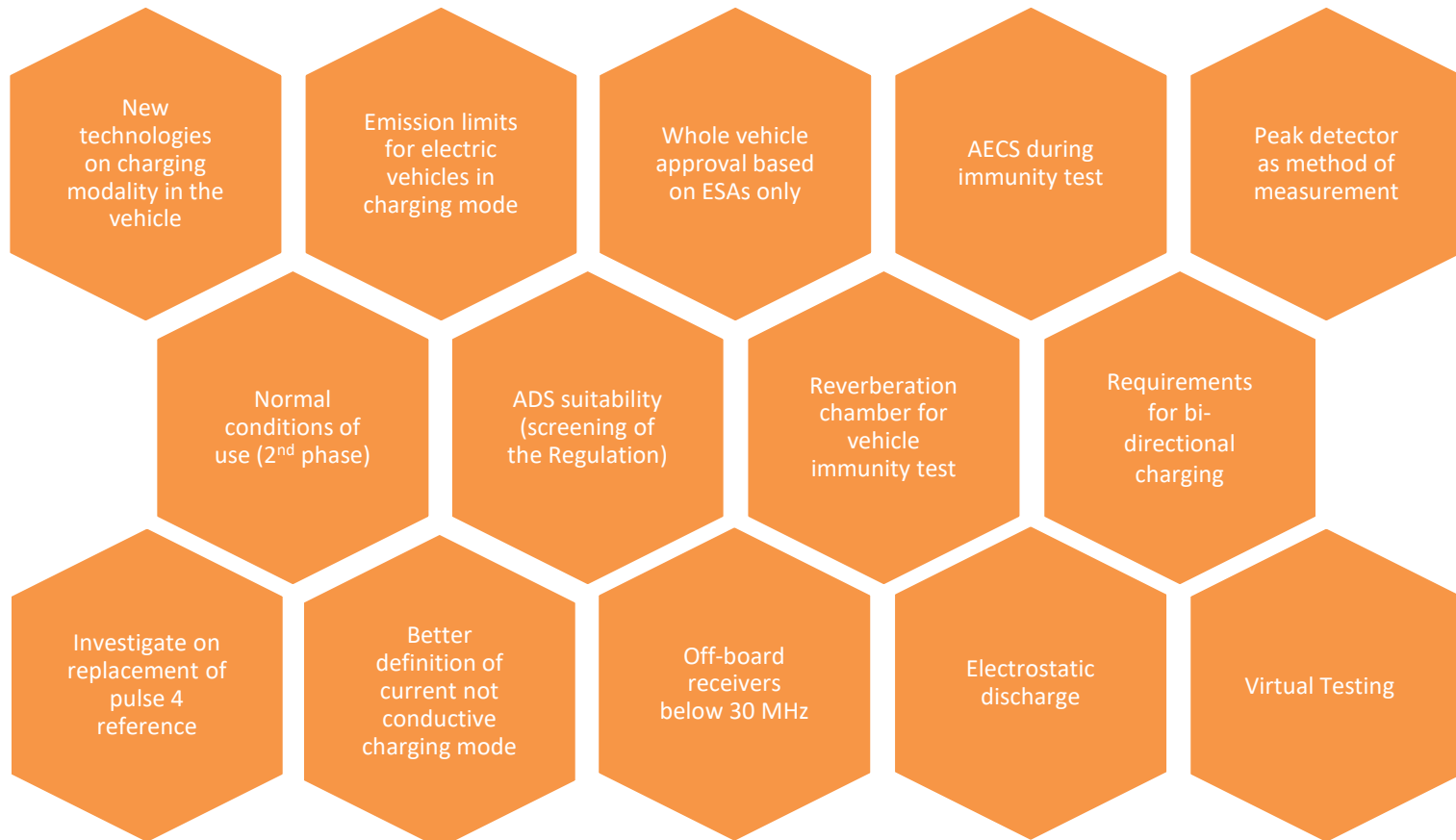
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Road map for a new 08 series of amendments to UN Regulation No. 10:



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Topics for a new 08 series of amendments to UN Regulation No. 10:



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Future planning and outlook:

- The working group is continuing its work with the aim to develop the 8th series of amendments
- IWG-EMC-45: 6 September 2024. Online
- IWG-EMC-46: 28 November 2024. Bonn, Germany