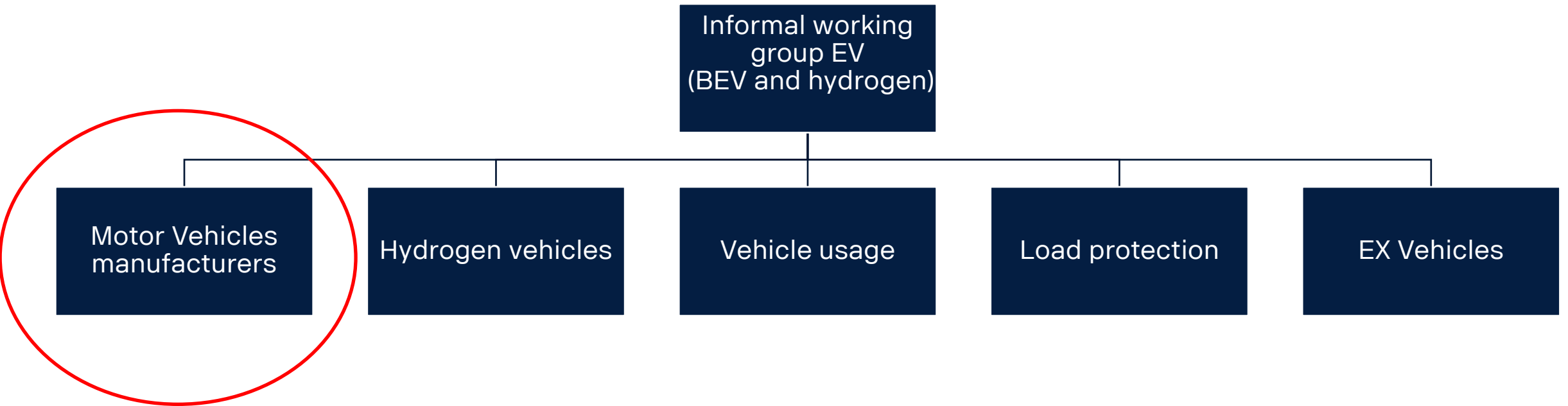


ADR_Electric vehicles

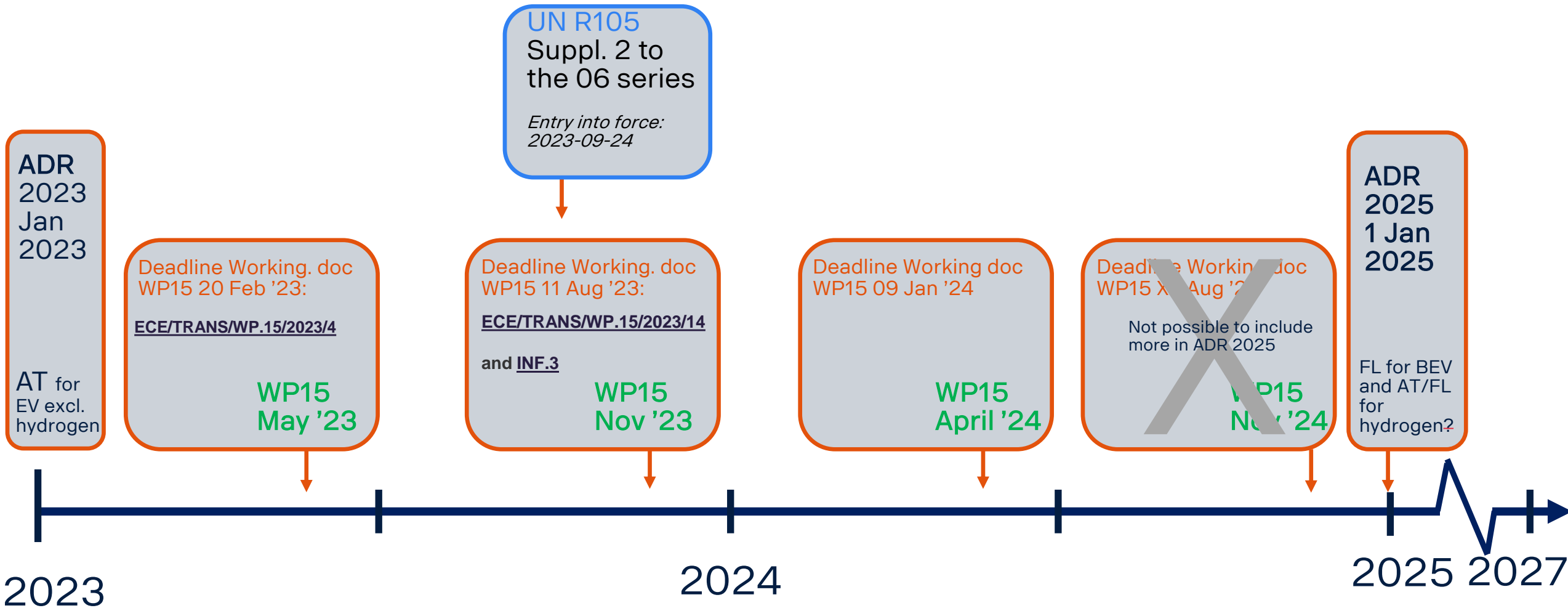
Status report from Motor vehicle manufacturers' subgroup 2024-03-08

Subgroup Motor Vehicle Manufacturers



WP 15 workflow

– update of UN R105 towards ADR 2025



What has happened since last IWG meeting 2024-01-08?

- From the WP.15 (114th session) report:

34. The Working Party adopted, with some modifications, the amendments in document ECE/TRANS/WP.15/2023/14 aimed at adding, in the 2025 edition of ADR, battery electric vehicles to category FL, hydrogen fuel cell vehicles to categories AT and FL, and vehicles equipped with an internal combustion engine using hydrogen as a fuel to categories AT and FL (see annex III).

- Continued work on paragraphs within square brackets:

Text within square brackets, 9.2.4.4.3:

9.2.4.4.3 *Measures against thermal propagation*

For REESS containing cells for which thermal propagation cannot be guaranteed to be contained within the REESS, measures shall be taken to prevent mitigate danger to the load by heating or ignition. ~~[The design shall consider the need for facilitation of intervention by emergency services to mitigate effects of a thermal propagation.]~~

- Replace prevent with mitigate: Proposal in ECE/TRANS/WP.15/2024/8
- Delete sentence within square brackets: Supported after discussion in IWG_EV_17th session and Proposal in ECE/TRANS/WP.15/2024/8

Text within square brackets, 9.2.4.4.1:

9.2.4.4.2.1 REESS of vehicles with an electric power train shall be designed and constructed taking into account a risk evaluation according to ISO 6469-1:2019/Amd 1:2022 to establish safety for normal operational conditions. A review shall be carried out by [an accordingly designated] technical service. [e.g. technical service for vehicle approvals according to UN Regulation No. 100]

- Still under discussion/investigation:
Still under discussion

New item: Vehicle charging inlet

Will propose to introduce a new paragraph

9.2.4.4.1.3 The vehicle charging inlet shall be provided with thermal sensing function which interrupts and/or limits current transfer according to ISO 17409, when the temperature exceeds component rated values or required limits by applicable product standards, see e.g. IEC 62196-3-1:2020.

Justification:

To be able to react on possible thermal events during charging by limiting/interrupting current transfer.

Items under discussion (but not for WP.15 115:th session)

Discussion on situation for Programming devices for Electrical heaters (water heaters and air heaters) with ref to the situation for Combustion heaters (ADR 2023)?

From ADR 2023:

9.2.4.8.5 The combustion heater shall be switched on manually. Programming devices shall be prohibited.

Status: Discussion/investigation ongoing

Other items, for info and of specific interest for the subgroup:

Decision on INF.12 (114:th session of WP.15) issued by NL. Text from WP.15 report:

6. Regenerative braking system

Informal document: INF.12 (Netherlands)

37. The Working Party noted that the special requirements for endurance braking incorporating regenerative braking systems adopted by the World Forum for Harmonization of Vehicle Regulations (WP.29) (Supplement 18 to the 11 series of amendments to UN Regulation No. 13) were based on two systems, one with a route planning system, anticipating the state of charge of the battery for future descents, and the other without such a system.

38. The proposal of the Netherlands in informal document INF.12 was aimed at retaining the route planning system for dangerous goods vehicles.

39. The representative of the Netherlands indicated that he would present a revised proposal, taking into account the comments received, **at the next session.**

Result:

- At meeting between RDW (NL) and OICA (mostly GRVA members) 2024-03-07 the R13 Type IIA options were further explained by OICA and discussed together with RDW.
- Conclusion from the meeting was that NL will not follow up with a revised proposal as they accepted the OICA proposal of not restricting UN.R 13 regarding Type IIA Options.
- **In practice this means that the proposal of the content of Inf.12 of WP.15 November 2023 will not be adopted.**

Next steps

- One remaining meeting before WP15 115:th session in April 2024.
- Follow and support if needed the coming work of ADR EX.