Member States Expert Group – MSEG
16 November 2016

Regulation on AVAS requirements
State of play

- **New draft incorporating comments (accomplished)**  November 2016
- **ISC (to launch)**  end 2016-start 2017
- **Discussion of new draft in next MSEG or**  February 2017
  - comments in writing ddl
- **Better Regulation Portal (accomplished)**  February 2017
- **Adoption**  Q2 2017
Detailing requirements of Acoustic Vehicle Alerting System (AVAS)

- Commission empowered to detail by 1/7/2017 AVAS requirements that are already in Annex VIII to Reg. (EU) No 540/2014

- Commission Delegated Regulation taking into account the UNECE relevant work

- Result of current UNECE work:
  - UNECE Regulation No 138 on QRTV adopted in the 168<sup>th</sup> WP29 (March 2016)
  - UNECE R138 amendment 01 for AVAS pause switch – common proposal by Japan and OICA adopted by the 64<sup>th</sup> GRB (5-7 Sept 2016) for optional pause switch
UNECE Regulation No 138
Uniform provisions concerning the approval of Quiet Road Transport Vehicles with regard to their reduced audibility

- **Scope**: approval requirements with respect to audibility of electrified M and N vehicles driven, in at least one forward drive gear or in reverse, without an ICE operating

- **AVAS requirements included** – only acoustic devices addressed to
Regulation on AVAS requirements:


- **Legal obligations:**
  - to detail the requirements in Annex VIII by completing them only
  - to have the AVAS on all new EV and HEV types by 1/7/2019 and all new EV and HEV by 1/7/2021

- **Articles**
  1) Amendment of Annex VIII to Reg. 540/2014
  2) Entry into force
Regulation on AVAS requirements

• Annex

with technical and administrative requirements

- Based on the technical requirements drafting in Annex VIII, Reg. 540/2014
- Completing the technical requirements of Annex VIII, Reg. 540/2014 by referring to requirements of UN R138
- Copying the necessary admin requirements from UN R138

+ From UNECE Regulation No 138
Regulation on AVAS requirements

• Annex (cont'd)

A) **New technical requirements**

1) Reference to EU OJ number (tbd) for UNECE R138 publication

2) Accepting the definition of "Pause function" as in UN R138, 01 amendment

3) The AVAS sound generation requirement in forward motion and reverse as in Reg. 540/2014

+ or the overall sound emission of the vehicle without AVAS in accordance to UNECE R138: DE, FR request for not installing AVAS if compliant with this overall sound emission condition

+ requirements on testing, min vehicle sound level and frequency shift when no AVAS in reverse, due to vehicle warning alarm
Regulation on AVAS requirements

• Annex (cont'd)

3) Pause switch

+ Called pause function

+ Optional

+ Complying with the requirements in UN R138 (common position of Japan and OICA as adopted at the 64th GRB)
Regulation on AVAS requirements

• Annex (cont'd)

B) Administrative requirements copied from the UN R138 – AT request update – new draft to be uploaded after legal check

+ UN R138 type-approval certificate (communication) accepted and attached to the vehicle EU type-approval certificate with respect to sound emission

(Model of Communication for UN type-approval introduced)

or the EU test results attached as in Reg. 540/2014

+ Marking on vehicle: full marking for vehicle UN type-approval or UN R138 number for EU type-approval, without UN type-approval marking (to avoid confusion of E-marks) - UN marking model introduced
Thank you for your attention

DG GROW – Unit C4

Further information: