

## Guidelines of the Task Force Vehicles' Sound

### A. Introduction

1. Within the informal group for the future work of GRBP and during the seventy-third session of GRBP, several studies were presented:
  - GRBP-73-11 (ETRTO) Tyre performance study
  - GRBP-73-23 (EC) Study on sound level limits of M- and N-category vehicles (updates previous presentation GRBP-72-25 (EC) and GRBP-71-11 (EC))
  - GRBP-73-25 (OICA) OICA/ACEA study on future sound limits values
  - GRBP-73-26 (EC) Technical support for the impact assessment on Euro 5 step of L-category sound emissions level limits
2. Previous documents and a revised list of GRBP priorities were shared at GRBP
  - GRBP-70-25 (OICA/ACEA) Tyre Performance Study
  - ECE/TRANS/WP.29/1159 updating GRBP-73-24 (Chair) Work by GRs – Priorities (based on informal GRBP 72-12)
3. During the 73<sup>rd</sup> session, GRBP took note of these studies and documents on future sound emissions and decided to establish a taskforce ~~(VS)~~ on this issue, **initially called Task Force on Sound Limits (TF-SL) and then confirmed as Task Force Vehicle Sound in July (TF-VS)**.
4. This document establishes the Guidelines of the new TF-VS on future sound emissions for UN Regulations Nos. 51 and 9, 28, 41, 59, 63, 92, 117, 138, future UN Regulation on Reverse warning sound under the 1958 Agreement.
5. The aim of the group is:
  - to have a vehicles' sound forum for discussions
  - to make a review of the different studies/works with identification of pro/cons through a holistic approach,
  - to review the new information for example studies about new technologies and tyre noise related to UN-R51-03 including phase 3,
  - to provide a technical report to contribute to any work on future sound emissions

## **B. Objective of the Taskforce on Vehicles' Sound**

6. The scope includes M, N and L categories of vehicles and any fields with impact on Real Sound emissions as tyres, ASEP, roads, interaction between  $L_{EQ}$  and  $L_{MAX}$ , electrification, vehicles' fleet impact ( $L_{DEN} - L_{NIGHT}$ ), soundscape, road mapping, measurement uncertainties ...
7. The TF-VS shall:
  - for M and N categories vehicles
    - Identify all available and upcoming studies,
    - Identify the data available,
    - Review and analyse these studies/data including Phase 3,
    - Work on background information to enable third parties to deal with impact assessment including single vehicle's individual sound emission and based on the most recent regulatory framework
    - Identify the interactions between vehicles sound emissions approvals and environmental noise,
    - Determine the importance of all this information,
    - Define action plans if needed,
    - Propose any useful improvements or any additional actions to any official bodies.
  - Organize the same work for L category vehicles.
8. TF-VS shall report to GRBP.

## **C. Rules of Procedure**

9. TF-VS shall be open to all participants of GRBP. However, it is recommended that a maximum of two technical experts per country and organization participate in this TF-VS.
10. Meetings are organized in ~~that~~ **such a** way that experts can participate in the meeting in person or virtually.
11. TF-VS shall be chaired by France. OICA shall act as Secretary.
12. The working language shall be English.
13. All documents and/or proposals shall be submitted to the Secretary of the TF-VS in a suitable electronic format at least one week before a scheduled meeting.
14. An agenda and the latest draft documents shall be circulated to all members of the TF-VS in advance of all scheduled TF-VS meetings.
15. All TF-VS documentation shall be made available on the dedicated UNECE website at this [link](#).

## **D. Timeline**

16. The TF-VS will present progress reports for consideration at the GRBP sessions, including already achieved further results, and comprehensive opinions by:

- for M & N categories of vehicles: 2022.
- for L category of vehicles: to be defined later.

The aim of the TF-VS is to present a technical report to GRBP including proposed possible/realistic solutions to improve the soundscape through a complete overview.