Status report to 75th session of GRBP (February 2022)
Task Force Vehicles’ Sound (TF-VS)

NB: previous name of this TF was TF-SL for Sound Limits
The experts from EC, ETRTO and OICA reported on their studies on sound level limits (GRBP-73-23, GRBP-73-11 and GRBP-73-25, respectively). To coordinate such initiatives, GRBP decided to establish a taskforce (TF) and sought a volunteer among the experts from Contracting Parties to take the leadership of TF, while OICA agreed to act as secretary. GRBP considered that **TF should address the sound level limits** of UN Regulation No. 51 and, at a later stage, No. 41. To kick-off the TF activities without delay, the Chair pointed out that he could take the lead of TF on a temporary basis, if needed.”

### Reminder

- Chair: France
- Secretariat: OICA

### TF-VS homepage

[Task Force on Sound Limits (TF SL) - Transport - Vehicle Regulations - UNECE Wiki](https://www.unece.org/trans/reqs/index.html)
TF Sound Limits / Vehicles’ Sound: Facts and Figures

Number of Meetings since 73rd GRBP in Jan. 2021

01st TF SL: March 24, 2021 (TFSL-01-07)
02nd TF SL: May 26, 2021 (TFSL-02-12)
03rd TF SL: July 12-13, 2021 (TFSL-03-08)
04th TF VS: September 13-14, 2021 (TFVS-04-16)
05th TF VS: October 26-27, 2021 (TFVS-05-07)
06th TF VS: December 17, 2021 (TFVS-06-04) CM
07th TF VS: February 07, 2022 (TFVS-07-xx)

Meetings were held in hybrid or virtual depending on the pandemic situation at that time

Participants (Contracting Parties, NGOs, Guests)

- **CPs:** China, European Commission, France, Germany, India, Italy, Japan, Spain, Switzerland, The Netherlands, United Kingdom
- **NGO’s:** CLEPA, ETRTO, EUWA, IMMA, ISO, OICA
- **GUESTS:** Aristotle University, ATEEL, BRUITPARIF, FEDRO, FEV, HS Data analysis & Consultancy, IDIADA, JARI, TNO

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~60 (53-57-67-69-58-49-~80)
TF Sound Limits / Vehicles’ Sound: Facts and Figures

Number of Meetings
SUBGROUP on Cross-matrix

01st Subgroup: October 26, 2021
06th TF VS: December 17, 2021 (TFVS-06-04)
02nd Subgroup: January 19, 2022 (UNECE Website)
03rd Subgroup: February 03, 2022 (UNECE Website)

Meetings were held in hybrid or virtual depending on the pandemic situation at that time

Volunteers
(Contracting Parties, NGOs, Guests)

• **CPs:**
  China, European Commission, France, Germany, Japan, The Netherlands, United Kingdom

• **NGO’s:**
  ETRTO, IMMA, ISO, OICA

• **GUESTS:**
  HS Data analysis & Consultancy
TF VS – Presentations done during the 07 Sessions

1. **General ideas about the work of the TF** – Germany
2. **Bruitparif presentation related to road noise in the environment – Measurement in real life** - France (BRUITPARIF)
3. **General Information on the Study on sound levels limits of M- and N-category vehicles linked to the Revision of the EC/540/2014 Regulation** - European Commission (HS Consulting, TNO, Aristotle University)
4. **EC Phenomena study** - European Commission (TNO)
5. **Impact assessment on Euro 5 step of L-category sound emissions level limits** - European Commission (IDIADA)
6. **General presentation and future prospects** – Japan
7. **Further details of vehicle noise issue and reviewing process in Japan** – Japan
8. **Development of automatic illegal replacement muffler detection system at NTSEL** – Japan
9. **Considerations on Future Road Traffic Noise Regulations - Status of Vehicle Sound Emission Regulations and their Contribution to lower Environmental Noise** - OICA
10. **Study on future sound limits values for type-approval for vehicles of category M & N** - OICA (ACEA/ATEEL)
11. **Low-road noise surfaces in Switzerland** - Switzerland (FEDRO)
12. **UK DfT Acoustic Camera Research project - methods and equipment available for the detection and enforcement of excessively noisy road vehicles** – UK
13. **Tyres & road traffic noise: where is the potential** - ETRTO

1. TFSL-01-05 Rev.1
2. TFSL-03-05
3. GRBP-73-23 & TFSL-02-08
4. TFSL-03-04
5. TFSL-02-05 & TFVS-04-15
6. TFSL-01-06 & TFSL-02-09
7. TFSL-03-06
8. TFSL-04-08
9. TFSL-02-10 Rev.2
10. TFSL-04-10 & GRBP-74-27
    → TFSL-07-03 & 04 / GRBP-75-16 & 17
11. TFVS-04-04 + TFVS-04-09
12. TFSL-04-06
13. TFVS-04-11 Rev.1
TF VS – Presentations done during the 07 Sessions

14. **Noise policy update & PHENOMENA** – European Commission
15. **“Automotive in soundscape” Future of Pass-by noise regulation and their impact on city life** – France/SIA
16. **Coast-by drum indoor method ISO TC31 WG11, ISO 20908** – ISO
17. **Proposal for a Set of Parameters to Define Road Traffic Scenarios** – Subgroup Cross-Matrix
18. **Comments on Cross-matrix ‘Set of parameters’** – Japan
19. **New sound radar & Social cost of noise** - France
20. **Initial draft table for traffic scenario** – TFVS-Subgroup Cross-Matrix
21. **Study on sound level limits of M- and N-category vehicles** - Publications Office of the EU (europa.eu)
22. **IAI – Acustica – TUG study motorcycles** - IMMA

14. TFSL-05-03
15. TFSL-05-04
16. TFSL-05-05
17. TFSL-05-06; 08
18. TFVS-06-03
19. TFVS-07-07
20. TFVS-06-05 → TFVS-07-05; TFVS-07-13
21. TFVS-07-11
22. TFVS-07-09; 10 & 12
TF Sound Limits / Vehicles’ Sound: Presentations

Need of a holistic approach

- Sound limits
- Road surface
- Measurement detection system
- Identification of noise pb
- Interaction Tyre-Road
- Env. & safety balance
- Uncertainties
- Reduction impact in real life
TF VS – in addition to the discussions to be continued, main works done & ongoing

**Guidelines of this Task Force:**
- From 1st discussions at the 01st Session, a subgroup was decided to build a proposal
- The proposal has been approved at the 03rd Session & updated at the 04th session
- Change of the name of this TF from TF-SL (Sound limit) to TF-VS (Vehicle Sound)

**Need to identify where the noise issues lie** e.g. through a cross-matrix
- Agreement of the TF group for a subgroup of this TF accordingly
- Volunteers:
  - CPs: EC, France, Germany, The Netherlands, UK, Japan, China
  - NGO: IMMA, OICA, ETRTO, ISO

**Impact of AVAS (UN-R138) on Noise Emissions (UN-R51) at low speeds**
- Thoughts from some Noise experts related to UN-R138 & UN-R51 matching
- Actions to be defined through the documents related to the UN-R138

**Informal document GRBP-74-03 Rev.1**
- to be submitted to 74th GRBP → postponed to GRBP-75

**Documents:**
- TFVS-02-07
- TFVS-04-14
- TFVS-05-06
- TFVS-07-08
- TFVS-04-12
- TFVS-06-03
- TFVS-06-05
- TFVS-07-05
- TFVS-07-13
TF VS – in addition to the discussions to be continued, main works done & ongoing

Topics still open for the next Sessions:

- EC study on sound level limits of M, N, L categories of vehicles
- Update of national presentations (EC, Japan, UK, ...) and others (OICA, IMMA, ...)
- Cross-matrix
- R138 vs. UN-R51 activities?
- ...

NEXT 08th Session on April 04, 2022 10:00-16:00 (CET)

To be defined according to the GRBP-75 conclusions
Thank you!