

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

TF Vehicles' Sound

Reminder

- “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.”

Roles

- Chair: France
- Secretariat: OICA

TF-VS homepage

[Task Force on Sound Limits \(TF SL\) - Transport - Vehicle Regulations - UNECE Wiki](#)

TF Sound Limits / Vehicles' Sound: Facts and Figures



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**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



~60 (53-57-67-69-58-49-~80)

**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

TF Sound Limits / Vehicles' Sound: Facts and Figures



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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



~15-20

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

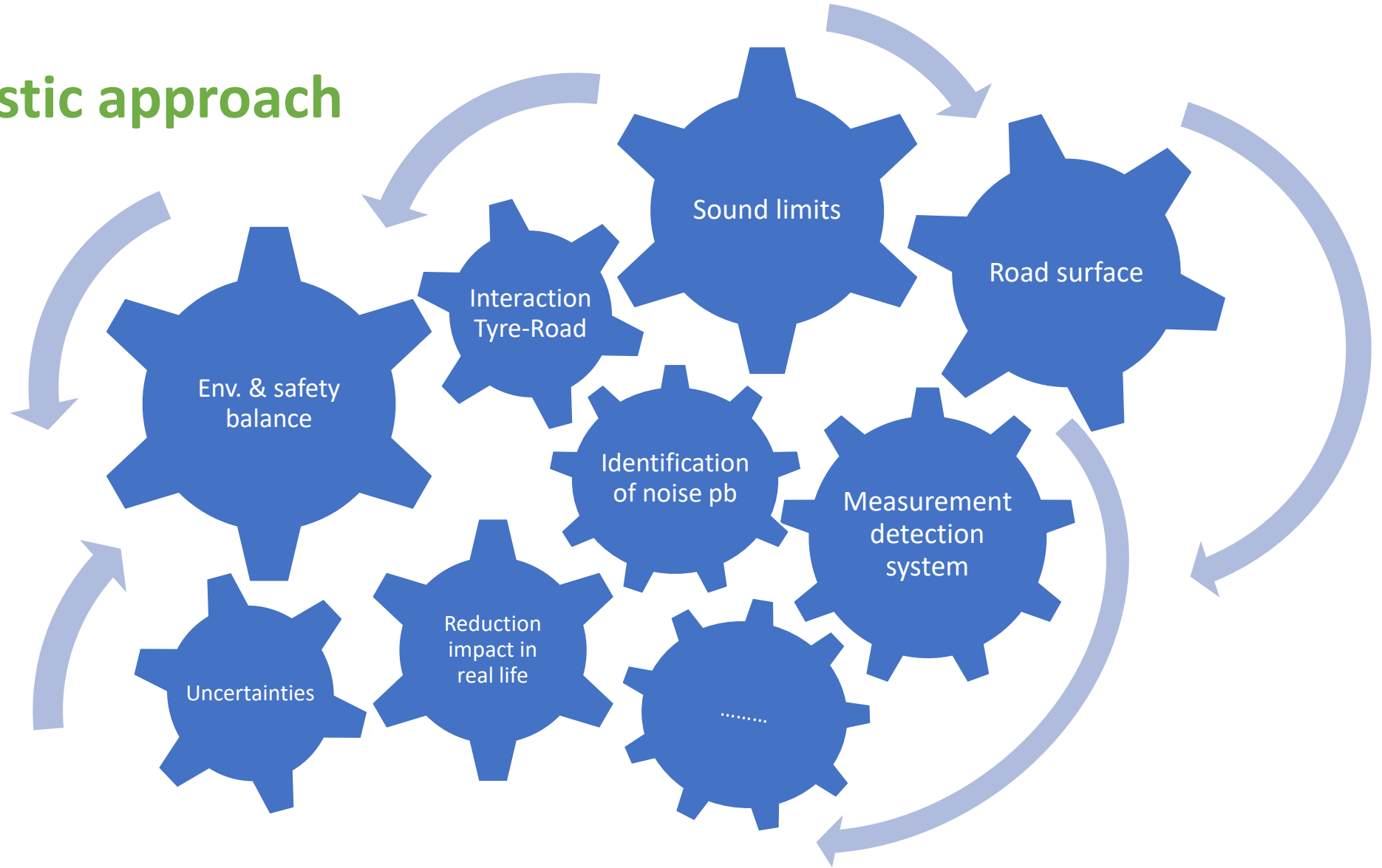
14. Noise policy update & PHENOMENA – European Commission
15. “Automotive in soundscape” Future of Pass-by noise regulation and their impact on city life – France/SIA
16. Coast-by drum indoor method ISO TC31 WG11, ISO 20908 – ISO
17. Proposal for a Set of Parameters to Define Road Traffic Scenarios – 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



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)



Informal document GRBP-74-03
Rev.1

to be submitted to 74th GRBP →
postponed to GRBP-75

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



TFVS-02-07	TFVS-06-03
TFVS-04-14	TFVS-06-05
TFVS-05-06	TFVS-07-05
TFVS-07-08	TFVS-07-13

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



TFVS-04-12

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?
- ...



To be defined according to the GRBP-75 conclusions

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

Thank you!