

Status report to 75th session of GRBP (February 2022)

Informal Working Group on Measurement Uncertainty
(IWGMU)

IWG Measurement Uncertainty (est. 2019)

Targets

- improve test methods (UN Regulations No. 51 & No. 117 as a start)
- compensate systematic errors if possible
- evaluate the influence of random errors (remaining quantities)

Roles

- Chair: Norway
- Secretariat: OICA

IWG MU homepage

<https://wiki.unece.org/pages/viewpage.action?pageId=92012814>

IWG Measurement Uncertainty: Facts and Figures



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Number of Meetings since 74th GRBP in Sept. 2021

- 14th IWG MU: 11th October 2021
- 14½th IWG MU: 15th November 2021
- 14¾th IWG MU: 16th November 2021
- 15th IWG MU: 29th November 2021
- 15½th IWG MU: 10th January 2022
- 16th IWG MU: 17th January 2022

Only Web-meetings possible



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Participants (Contracting Parties & NGOs)

- CPs:
Netherlands, Italy, UK, China, Norway,
Germany, France, Russian Federation, India,
Spain, Japan, European Commission
- NGO's:
OICA, ETRTO, CLEPA, ISO, ETO, IMMA

IWG MU – Work since 74th GRBP (Sept. 2021)

Work on “Systematic Error” in **UN Regulation No. 51.03**:

Introduction of a **temperature correction due to tyre rolling sound** for vehicles of category M1, M2 (< 3500 kg) & N1:

- based on air temperature
- valid for tyres of category C1 and C2
- adopted to speed range of this regulation (50km/h)



IWGMU-14-03Rev.1,
IWGMU-14-05, IWGMU-14.75-01 and
IWGMU-14.75-02 (all OICA),
IWGMU-14.75-04 (ETRTO)

Work on **UN Regulation No. 51.03**:

Update of Annex 3 with two new Appendices in order to reduce test variability.

- Correction for the **tyre rolling sound** component of pass-by sound measurements: **CASE 1 Temperature Correction** and **CASE 2 Temperature and Test Track Correction**
- Coast-by **test method** for measuring tyre-rolling sound emission.



Working Document GRBP-2022-8 & Informal Document GRBP-75-04:
Suppl. 8 to UN-R51.03 and its
proposed timeline with Suppl. 07
agenda item 2

Work on UN Regulation No. 117.03:

- ETRTO was not able to work out an amendment until End of 2021, due to the lack of input data about tyre ageing and related storage conditions for tests with worn tyres.
- Goal to present an Informal Paper to the 75th session of GRPB **not achieved, revised timetable in the group’s ToR needed.**
- ETRTO still committed to work on MU for UN Regulation No. 117 with a **long-term approach**, e.g. in light of the TF Vehicle Sound and indoor testing method (ISO 20908)



No Informal document
in 75th GRBP available

IWG MU – Work since 74th GRBP (Sept. 2021)

Updated Timeline in **Terms of Reference** (GRBP-74-12):

- Informal document for amendments of **UN Regulation No. 117** has to be shifted from 75th (Febr. 2022) to 76th (Sept. 2022) session of GRBP due industry priorities



Informal document GRBP-75-06
Terms of Reference,
agenda item 7

Update **Document of Reference** (IWGMU-10-02)

“A General Approach to Estimate Measurement Uncertainties”:

- Chair has incorporated the feedback from members of IWG MU.
- aimed to help others dealing with measurement uncertainties in regulations
- Document prepared and submitted as Working Document



Working Document GRBP-2022-9 & Informal Document GRBP-75-07 :
Doc. of Reference and its Revision,
agenda item 7

Additional **Document of Reference**

“How to handle Measurement Uncertainties due to its Regulatory Impact? “

- Procedure how to implement the result of MU-work in regulations
- Does GRBP support this approach?



Informal Document GRBP-75-08
additional document of reference,
agenda item 7

Thank you!