UNECE GRPE Informal Group on Environmental and Propulsion Performance Requirements of L-cat Vehicles (EPPR L-cat)
State of Play

Adolfo Perujo (IWG chairman)
EPPR meetings in 2019/2020

Face-to-face meetings

• 08-09 Jan 2019: EPPR 26th (GRPE Geneva summary; GTR2 & OBD2)
• 19-22 Feb 2019: EPPR 27th (JRC Ispra; GTR2 & OBD2)
• 26-29 Mar 2019: EPPR 28th (Geneva; GTR2 & OBD2)
• 21-22 May 2019: EPPR 29th (Geneva; GTR2 & OBD2)
• 15-18 Oct. 2019: EPPR 31st (CARB; OBD2 & Durability)
• 14-15 Jan. 2020: EPPR 33rd (Geneva; OBD2 & Durability)
• 12-13 Feb. 2020: EPPR 34th (NL; OBD2 & Durability)

Web conferences

• 20 Sept. 2019: EPPR 30th (OBD2 & Durability)
• 04 Dec. 2019: EPPR 32nd (OBD2 & Durability)
Amendment 4 to UN GTR 2

• The IWG issued a working document containing the Amendment 4 to UN GTR No. 2(*) for consideration at the 79th session of GRPE (May 2019) (ECE/TRANS/WP.29/GRPE/2019/12)


• GRPE-79-21 (EPPR) amendments to GRPE/2019/12 Endorsed by GRPE

• GRPE-79-21-Rev.1 (Sec.) amendments to GRPE-79-21
  o Inclusion of the "Statement of technical rationale and justification"
  o Several minor editorial points

• EPPR-30-01 (EPPR Sec.), revision of GRPE-79-21-Rev.1
  o Amendments: necessary to remove the last residual references to three- and four-wheelers, which were finally not included in the Scope.

(*) on the measurement procedure for two-wheeled motor cycles equipped with a positive or compression ignition engine with regard to the emissions of gaseous pollutants, CO₂ emissions and fuel consumption.
• WP29-2019-121, on the agenda of Nov 2019 WP29
  ○ Based on EPPR-30-01

The GTR Technical Report and Regulation were adopted at Nov 2019 WP29.

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<tr>
<th>GRPE</th>
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<tr>
<td>Item</td>
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<tr>
<td>[Amend. 4] to UN GTR No. 2 (WMTC)</td>
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Amendment of UN GTR 18 to include OBD 2

✓ **Purpose:**
  - To develop functional aspects of On-Board Diagnostic (OBD) systems.

✓ **Mode of Operation:**
  - “Corresponding Group” within the IWG EPPR L-Cat (agreed by all parties) to concentrate in the development of OBD 2 has been ended as the Phase 1(§) was finished within schedule.

✓ **Vice-chair**
  - The IWG has decided to appoint Mr. Suzuki-san as vice-chair of the EPPR IWG.
  - Mr. Suzuki-san will provide support to the chair in the running of the IWG.

(§) Speed up to complete phase 1 of the process was necessary because of a CP required the development of OBD 2 for regional legislation.
Amendment of UN GTR 18 to include OBD 2

✓ Content:

- The work of the OBD 2 (amendment to GTR 18) is also based on the European EURO5 regulation

<table>
<thead>
<tr>
<th>I. Statement of technical rationale and justification</th>
<th>Part 1</th>
<th>Part 2</th>
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<tbody>
<tr>
<td>A. Introduction</td>
<td>Yes</td>
<td></td>
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<tr>
<td>B. Procedural background and future development of the gtr</td>
<td>Yes</td>
<td></td>
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<td>C. Existing regulations, directives and international voluntary standards</td>
<td>Yes</td>
<td></td>
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<tr>
<td>D. Discussion of the issues addressed by the gtr</td>
<td>Yes</td>
<td></td>
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<tr>
<th>II. Text of the global technical regulation</th>
<th>Part 1</th>
<th>Part 2</th>
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<tbody>
<tr>
<td>1. Purpose</td>
<td>Yes</td>
<td></td>
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<tr>
<td>2. Scope and application</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>3. Definitions</td>
<td>Yes</td>
<td></td>
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<tr>
<td>4. List of acronyms and symbols</td>
<td>Yes</td>
<td></td>
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<tr>
<td>5. General requirements</td>
<td>Yes</td>
<td></td>
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Annexes

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<tr>
<th>Annexes</th>
<th>Part 1</th>
<th>Part 2</th>
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</thead>
<tbody>
<tr>
<td>1. Functional aspects of On-Board Diagnostic (OBD) systems</td>
<td>Yes</td>
<td>Only for IUPR and access to OBD information</td>
</tr>
<tr>
<td>2. Minimum monitoring requirements for electric circuit diagnostics</td>
<td>Yes</td>
<td></td>
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<tr>
<td>3. In-use performance ratio</td>
<td>Yes</td>
<td></td>
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<tr>
<td>4. Selecting criteria for vehicles with respect to in use performance ratios</td>
<td>Yes</td>
<td></td>
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<td>5. On-board diagnostics family for IUPR</td>
<td>Yes</td>
<td></td>
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<tr>
<td>6. Test type VIII requirements: OBD environmental tests</td>
<td>Yes</td>
<td></td>
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<td>7. Propulsion unit family definition with regard to on-board diagnostics</td>
<td>Yes</td>
<td></td>
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<td>8. Administrative provisions</td>
<td>Yes</td>
<td></td>
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</tbody>
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Amendment of UN GTR 18 to include OBD 2

✓ Progress:

- **Informal document GRPE-79-23**: This is the consolidated document addressing the phase 1 of the work of the IWG and in particular of the work of the Correspondent Group as defined by the IWG in its formation (EPPR-24 and its term of reference).

- **Informal document GRPE-80-XX**: This is the Informal Document including the full amendment to GTR 18 and the basis of the Working Document planned to be submitted to GRPE in March 2020.

- IWG intends to submit a Working Document for endorsement by the GRPE in its next session (81st session – June 2020).

- Amendment to GTR No.18 is expected to be adopted by WP29 in Nov 2020.
Durability of pollution-control devices

• The initial working document is based on:

• Base document: EPPR-8-11, proposal GTR test type V, submitted by EC at EPPR 8th session in 2014.

• The work started in the 30th session of the EPPR (Sept. 2019)

• The work is on-going
The IWG intends to request the extension of its mandate for the period 2021-2026

- Request to GRPE 81st session
- Request to WP291 Nov. 2020

Next areas of activities:

- Propulsion Unit Performance
  - Possibly in parallel to the development of the Durability GTR once the OBD amendment work is completed
- GTRs to be transposed into UN Regulations (?)

https://wiki.unece.org/pages/viewpage.action?pageId=63308245
Any questions?
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