

Submitted by the EPPR secretary

Informal document **GRPE-69-29**  
69<sup>th</sup> GRPE, 5- 6th June 2014  
Agenda item 9(a)

**Report from IWG on  
Environmental and  
Propulsion Performance  
Requirements for Light  
vehicles (EPPR)  
69<sup>th</sup> GRPE 5-6<sup>th</sup> June 2014**

Geneva

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# Background- ToR and mandate

- Priority to work under 1998 agreement but will also work under 1958 agreement
- Amend GTR No2 and develop new GTRs with respect to Environmental and Propulsion unit Performance Requirements
- Create synergies with 58<sup>th</sup> agreement and where possible develop common requirements in form of UN Reg(s)
- Exchange information on current and future regulatory requirements for 'light vehicles'
- Adopted at WP29 Nov 2013

# **Past meetings EPPR**

## **January – June 2014**

- 5th meeting in Geneva, 8 January
- 6th meeting in Tokyo, 12-14 February
  - Audio-Web meeting 15 April
  - Expert OBD and EVAP meeting 3rd June
- 7th meeting in Geneva 4th June

# Topics to be covered by EPPR

- Environmental performance:

- **Type I: Tailpipe emissions test after cold start (revision);** PRIORITY
- Type II: Tailpipe emissions test at (increased) idle / free acceleration;
- **Type III: Emission test of crankcase gases;**
- **Type IV: Evaporative emissions test;** PRIORITY
- Type V: Durability testing of pollution control devices;
- Type VII: Measurement of CO2 emissions, fuel consumption, electric energy consumption and electric range determination;

- **Type VIII: On-board diagnostics environmental verification tests.** PRIORITY

- Propulsion unit performance:

- Unified rules and test procedures to measure power and torque for propulsion technologies fitted on L-category vehicles
- unified measurement of maximum design vehicle speed and/or power for restricted L-category vehicles should be developed and agreed upon.

# Structure of coming proposals

- New GTR (work in progress)
  - Evaporative emissions
  - Crankcase emissions
- New GTR (work in progress)
  - OBD
- GTR 2 amended including
  - Test type I (work have started)
  - Test type II (Idling)
  - Test type VII on Energy efficiency (CO<sub>2</sub>, FC& Range)

# Evaporative and crankcase emissions

- **!EPPR-07-04!** = working draft GTR, version 1
- Number of issues identified:
  - Many recent amendment proposals
  - Several detailed issues, e.g. temperature unit correlation ( $^{\circ}\text{C} - \text{K}$ )
  - Biggest open issue remains durability of evap control system
- Crankcase: Revised proposal (EC+JPN) with placeholder
- Scope:
  - Priority: 2-wheel gasoline motorcycle + moped.
  - Later: 3-wheel, hybrid + possibly other fuel types
- Target to propose GTR as informal document to next GRPE

# OBD

- Proposal for draft GTR by European Commission (Dec 2013)
- Comments / counterproposal by Japan, China and India
- Expert group created, 3 meetings since Jan 2014
- Not yet ready to introduce a 'EPPR working draft GTR'
- Need to solve first following conceptual open issues:
  - Malfunction Indicator – Activation Criteria:
    - EC: emission and/or torque reduction thresholds
    - Others (JPN, CHN, IND): malfunction activation upon set and confirmed diagnostic trouble code
    - EC compromise proposal to implement both options in GTR
      - This compromise is red line for EC
      - Other stakeholders need more time reflecting on this red line
  - Japan proposal for fuel system monitoring (if closed-loop emission control fitted):
    - Open questions by stakeholders
    - JPN to provide group with actual text proposal
- Scope: Priority to 2-wheel motorcycle. Later 3w-mc
- Target to have first version of 'EPPR working draft GTR' by Autumn 2014.

## **More details**

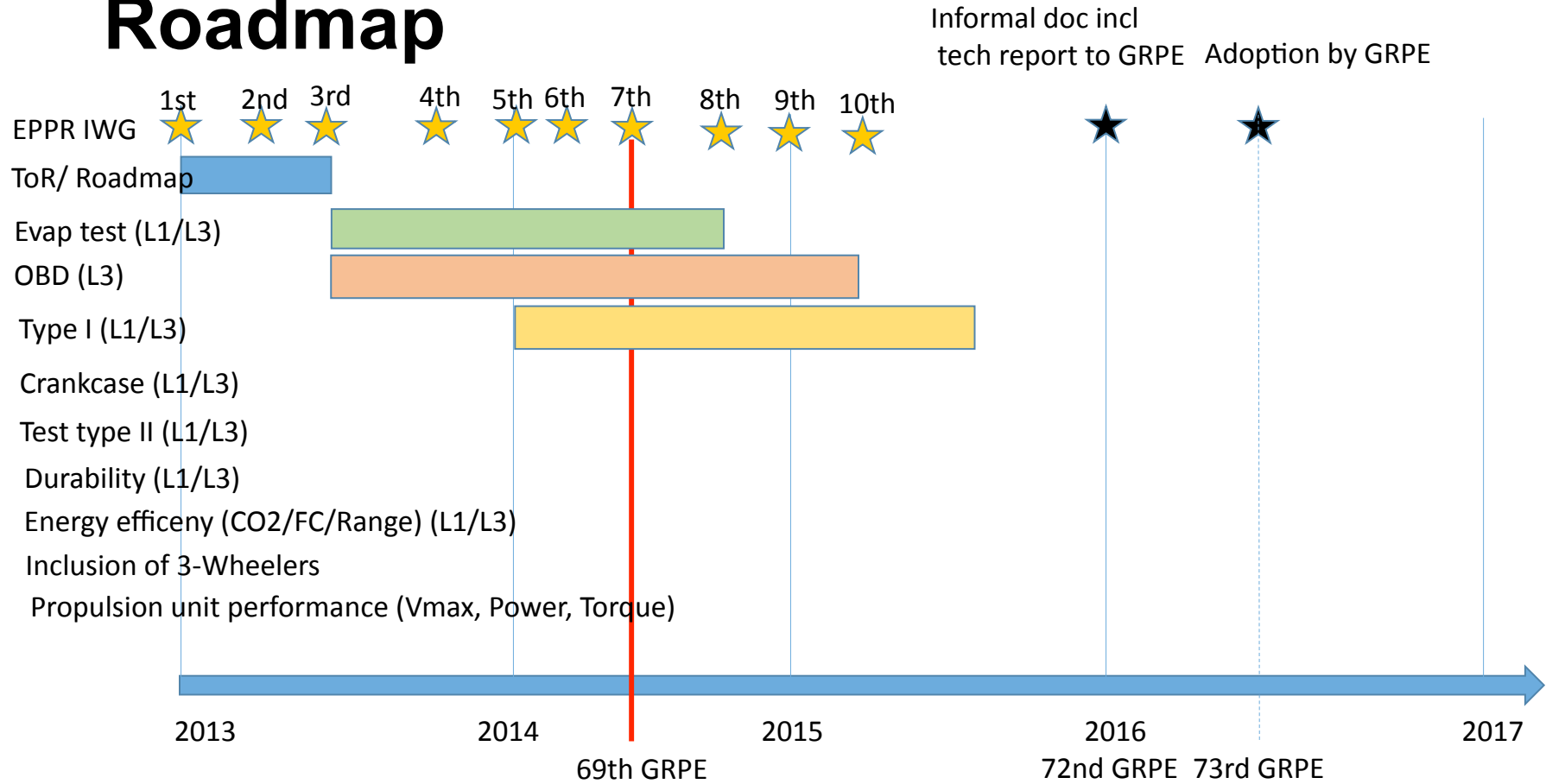
- June 4th update: document [\*EPPR-07-26e\*](#)
- All discussion documents:  
<https://www2.unece.org/wiki/display/trans/EPPR+7th+session>



# Draft Roadmap

- **November 2012: 158th session of WP.29 – agreement on establishment of informal working group by adoption of the mandate regarding environmental and propulsion performance requirements for L-category vehicles.**
- **January 2013: 1<sup>st</sup> meeting of the EPPR informal working group. Review and adoption of the Rules of Procedure and Terms of Reference.**
- **June 2013: .GRPE (66th session) meeting of the EPPR informal working group. Presentation of draft final roadmap and related programme management items to GRPE submitted for adoption.**
- **November 2013: 158th session of WP.29, adoption of GRPE decision regarding the final roadmap and related programme management items.**
- **2013-2016: meetings of the working group, regularly reporting to GRPE and the Administrative Committees (AC 1 and AC 3)**
- **January 2016: Present a final report as an informal document to GRPE**
- **2016: possible adoption of UN Regulation(s) and Global Technical Regulation(s)**

# Roadmap



# Future meetings EPPR

- Audio-web conferences: June- October TBD
- 8th meeting: 14-16 October 2014, Location TBD
- 9th meeting in Geneva, January 2015 (TBC)