

UNECE IWG on EPPR for L-category vehicles State of play

A.Perujo



Joint Research Centre
The European Commission's in-
house science service

www.jrc.ec.europa.eu

Serving society
Stimulating innovation
Supporting legislation

EPPR = Environmental and Propulsion Performance Requirements

Outline

- ✓ Background
- ✓ Past and next meetings
- ✓ State of play
 - GTR on Evaporative and Crankcase emissions
 - GTR on OBD-I
 - GTR2
- ✓ Roadmap

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 58th 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
- ✓ **Extended at WP29 Jun 2015 (2016 to 2020)**
(ECE/TRANS/WP.29/AC.3/36/Rev.1)

Background

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;** PRIORITY
 - 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.

Meetings

Past Meetings	Next Meetings
audio-web conference, 24 Sep 2015 (Evap.)	audio-web conference, 11 May 2016 (OBD)
audio-web conference, 13 Oct 2015 (Evap.)	16th meeting in Geneva, 06 June 2016 (OBD)
audio-web conference, 18 Nov 2015 (OBD)	audio-web conference, 07 Jul 2016 (GTR 2)
13th meeting in Brussels, 26-27 Nov 2015 (Evap/OBD)	17th meeting in USA, 17-19 Oct 2016 (GTR 2)
audio-web conference, 09 Dec 2015 (Evap/OBD)	audio-web conference, 11 Nov 2016 (TBC)(GTR 2)
14th meeting in Geneva, 12 Jan 2016 (Evap.)	audio-web conference, 19 Dec 2016 (TBC)(GTR 2)
audio-web conference, 16 Feb 2016 (OBD)	18th meetin in Geneva, Jan 2017 (TBC)
15th meeting in Ispra, 03 - 04 March 2016 (OBD)	19th meeting in Japan, March 2017 (TBC)
audio-web conference, 18 Apr 2016 (OBD)	

Stay of Play

- ✓ **New GTR (informal document June 2015 & working document January 2016)**
 - Evaporative emissions
 - Crankcase emissions
- ✓ **New GTR (working document in June 2016)**
 - OBD
- ✓ GTR 2 amended including (tentative informal document for January 2017)
 - Test type I (work have started)
 - Test type II (Idling)
 - Test type VII on Energy efficiency (CO₂, FC& Range)
- ✓ GTRs to be transposed into UN Regulations

Evaporative and Crankcase emissions

- ✓ **Adopted by the GRPE in its 72nd Session (Jan 2016)**
 - Formal GTR proposal: [ECE/TRANS/WP.29/GRPE/2016/2](#) - (Informal Working Group on Environmental and Propulsion Performance Requirements (EPPR)) Proposal for a new global technical regulation on the measurement procedure for two- or three-wheeled motor vehicles equipped with a combustion engine with regard to the crankcase and evaporative emissions
 - Combined with the
 - final draft Technical Report: GRPE-72-06
 - Several open points resolved and Informal Document GRPE-72-13

- ✓ **To be considered for vote by WP.29 and AC.3 in the June 2016 sessions**

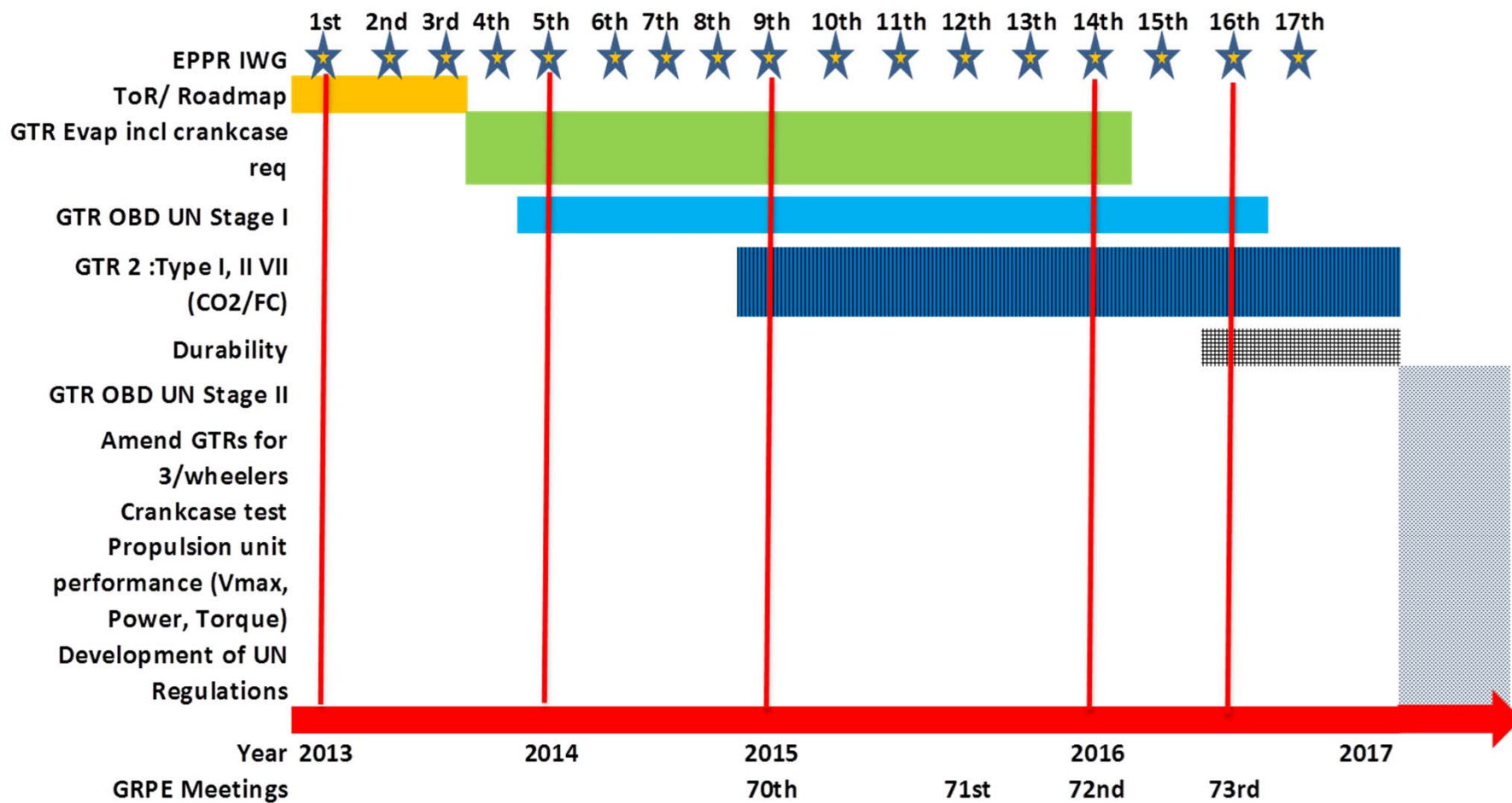
OBD-I

- ✓ **Submitted working document for the 73rd Session of the GRPE (June 2016)**
 - **ECE-TRANS-WP29-GRPE-2016-13**
- ✓ **Some open issues resolved within the group:**
 - Definition of warm-up cycle
 - Clarification of “freeze-frame” parameters to be stored
 - Template for the RMI (new Annex): Based upon some of the already existing templates in the parties.
- ✓ **Technical report submitted**

GTR2

- ✓ EPPR-11-15 Rev1 = proposal EC
- ✓ IMMA started identification of differences with current GTR2 = EPPR-11-10
- ✓ Extensive document. Split the work, during 2016

EPPR Roadmap





Contact information

Chair: Adolfo Perujo
adolfo.perujo@ec.europa.eu

Secretariat: Daniela Leveratto
d.leveratto@immamotorcycles.org

Hardik Makhija
hardik@siam.in

Web page for the EPPR IWG:
<https://www2.unece.org/wiki/pages/viewpage.action?pagelId=5800520>