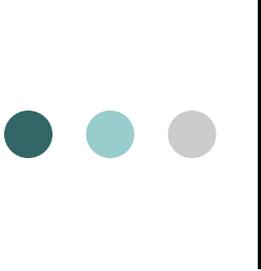


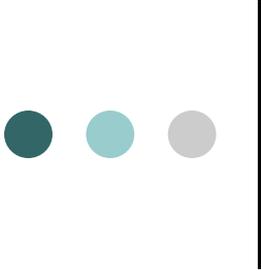
# Informal Group on Gaseous Fuelled Vehicles (GFV)

Report 64th GRPE June 2012



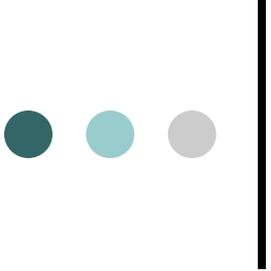
# Meetings GFV Group

- 18th GFV meeting
  - **29 February 2012 Brussels**
- 19th GFV meeting
  - **8 March 2012 Zoetermeer (The Netherlands)**
- 20th GFV meeting
  - **14-15 May 2012 Bologna (Italy)**
- 21th GFV meeting
  - **5 June 2012 Geneva**



# GFV items

- **Heavy Duty Dual-Fuel Task Force (HDDF-TF)**
  - R.49 rev 6 (Euro VI)
  - R.49 rev 5 (Euro V)
  - R.85 (net power)
  - R.115/? (retrofit LPG/NG)

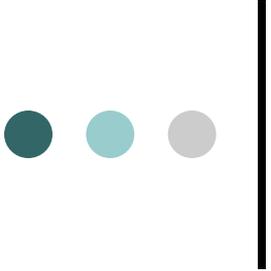


# GFV items

## Heavy Duty Dual-Fuel (HDDF)

- Amendments to rev.6 of Regulation 49 (EURO VI)
- The drafting work has been finalized

A complete proposal has been submitted to this 64<sup>th</sup> GRPE

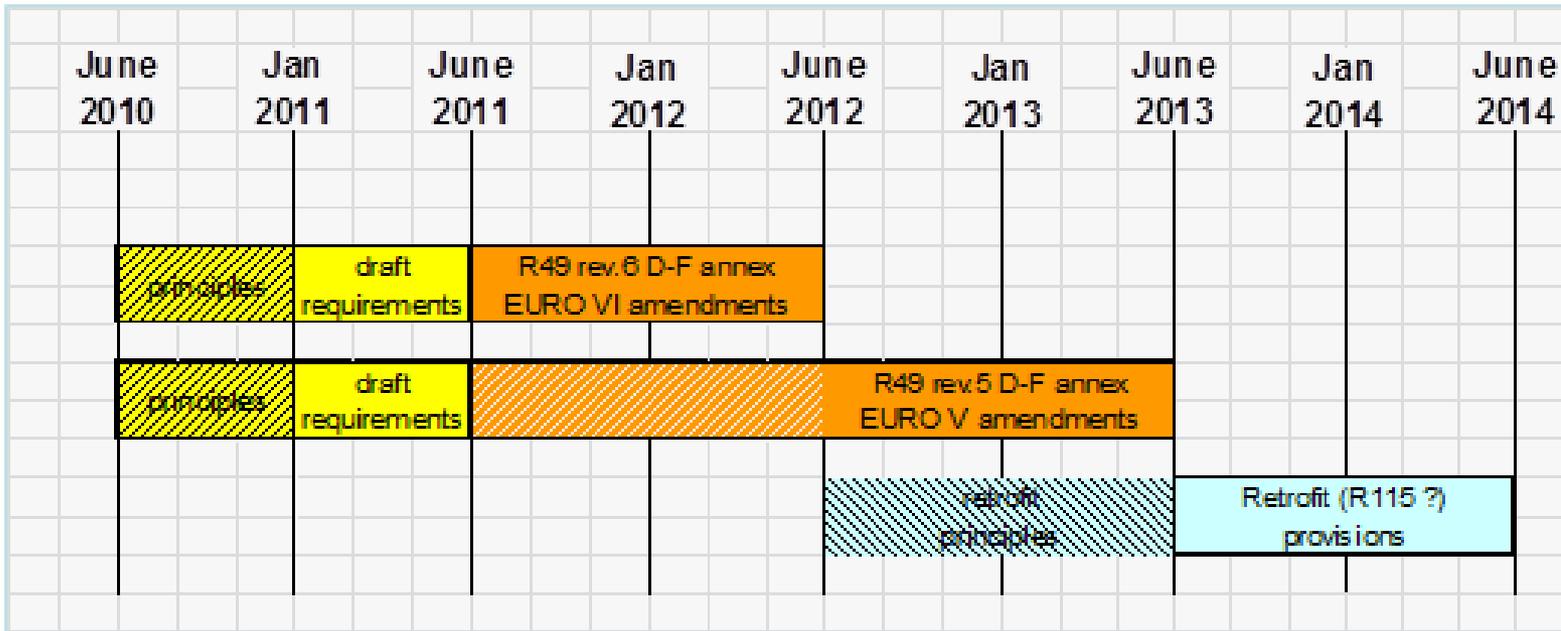


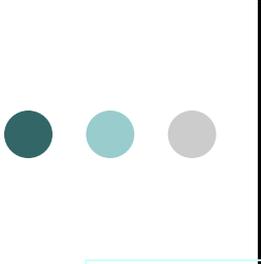
# GFV items

## **HDDF Amendments to rev.5 of Regulation 49 (EURO V)**

- No progress since January 2012
- GFV proposal: 1 year delay
- Informal document to be submitted to January 2013  
GRPE
- Formal document to be submitted to June 2013 GRPE
- Final amendments to be submitted to November 2013  
WP29

# GFV items

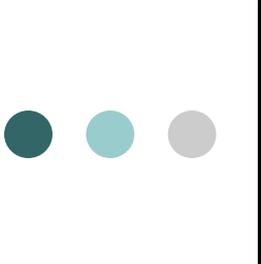




# GFV items

## **HDDF retrofitted engines and vehicles**

- The GFV kindly request the GRPE to validate the following working plan
  - July 2012 – January 2013
    - Draft of the rules permitting type-approval of EURO V dual-fuel engines and vehicles (basis for setting retrofit rules)
    - Explore the legal framework for retrofit. 3 options:
      - Restructuration and extension of R115 to address HDVs
      - Extension of the REC Regulation
      - New HD-retrofit Regulation
  - January 2013
    - Decision by GRPE of the legal framework (the 3 options)
  - January 2013 – June 2013
    - Draft of the principles to be considered for setting retrofit rules (taking advantage of the experience of the REC group)
  - June 2013
    - Validation by GRPE of the principles



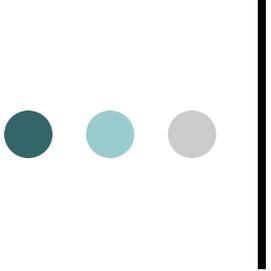
# GFV items

## o **Bi-fuel gas vehicles with mix operations (DI engines).**

- Safeguard petrol injectors
  - Minimum use of petrol during gas mode
- Definitions bi-fuel vehicles changed (higher than 80% energy ratio)
- Energy measurement developed by weighing the gas during the emission test
  - New alternative measuring procedure proposal CLEPA will be evaluated in GFV meeting next time.

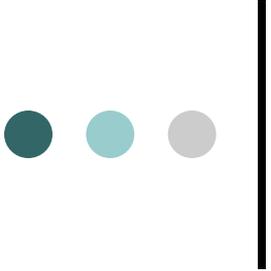
## ● documents

- 1.R83 ECE/TRANS/WP.29/GRPE/2012/6)
- 2.R115(ECE/TRANS/WP.29/GRPE/2012/7)
- 3.Mass correction factor G25 (informal document GRPE-64-06 revised by GRPE-64-21)



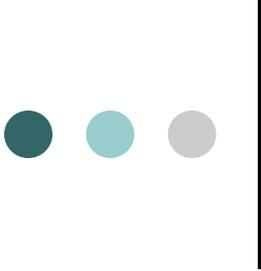
# GFV items

- **Definitions for Gaseous Fuelled vehicles**
- The GFV has collected the existing and proposed definitions dealing with gaseous fuelled vehicles in the different UNECE Regulations to facilitate WLTP.



# GFV items

- **Task Force on Liquefied Natural Gas (LNG)**
  - This LNG TF will report to GRSG on their progress and will finally propose amendments to R.110. The group makes good progress and TF had a meeting during this GRPE on Wednesday.
- **Special GFV item**
  - Under discussion the request of the European Commission to GFV for input for a European proposal for amendments to M1 and N1 vehicles emission regulation (Euro 5/6) concerning THC / CH<sub>4</sub> (methane).



# Next steps GFV

## o Next meetings

- GFV meeting 12<sup>th</sup> July 12 (Brussels)
- GFV meeting in Geneva in January 2013
  - GFV request GRPE for a ½ day meeting during the 65th GRPE
- HDDF TF meetings scheduled by the Task Force
- LNG TF meeting scheduled by the Task Force

-----