



# The World Forum's Activities on Fuel Efficiency and Global Warming

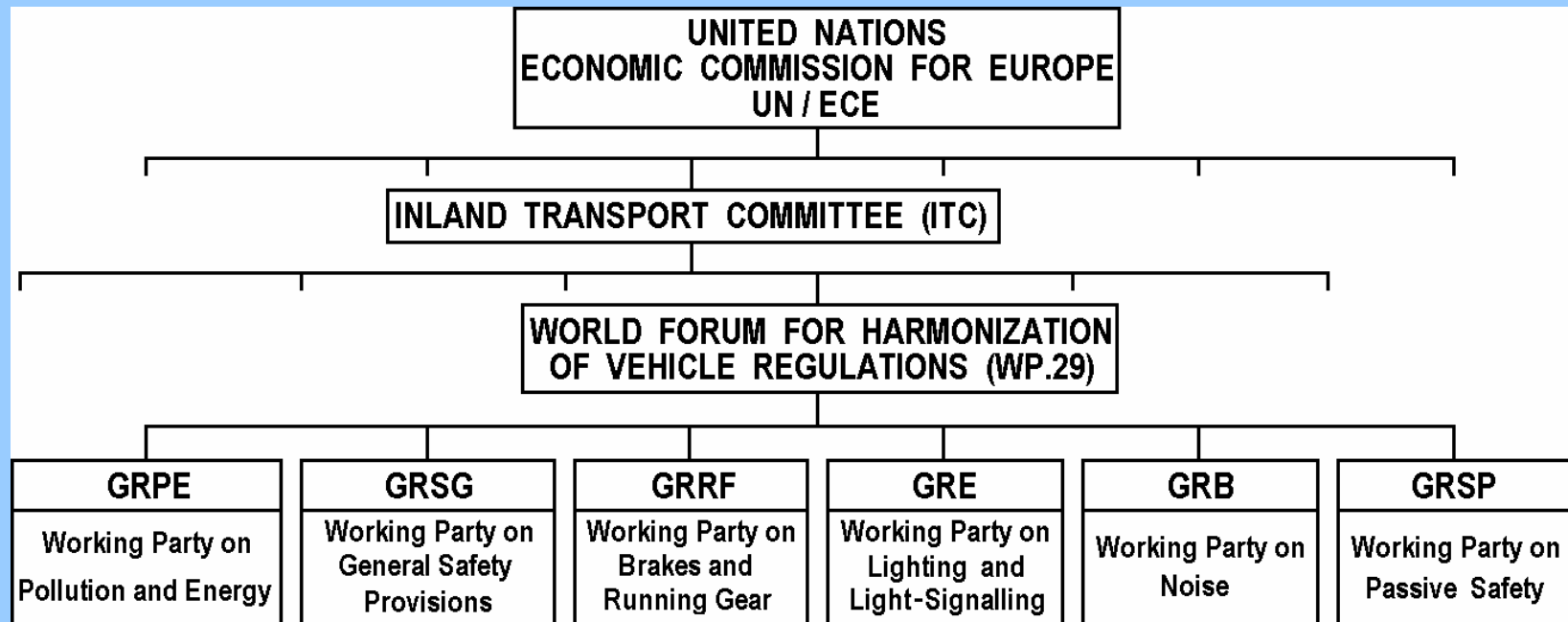
- The structure of the World Forum WP.29
- WP.29's current activities on fuel efficiency
- A possible strategy for the transport sector to mitigate climate change

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# World Forum for Harmonization of Vehicle Regulations (WP.29)



The work of the 6 subsidiary bodies of WP.29 is aimed at:

- the improvement of vehicles' active and passive safety
- the reduction of vehicles' noise level, emissions of pollutants and fuel consumption



# WP.29 Activities on Fuel Efficiency 1

## **GRPE Activities on pollution and energy:**

Liquefied Petroleum Gas (LPG): 1987

Compressed Natural Gas (CNG): 2000

Electrical Vehicles (EV): 1996

Hybrid/Electric vehicles (HEV): 2004

Plug-in Hybrid/Electric vehicles (PHEV): 2008

Fuel Quality (FQ): (2010)

Hydrogen & Fuel Cell vehicles (HFCV) - Environment: (2010)

Environmentally Friendly Vehicles (EFV)

Worldwide Harmonized Light Vehicle Test Procedures (WLTP): (2015)

## **GRB Activities on noise:**

Tyres with low Rolling Resistance: 2010



# WP.29 Activities on Fuel Efficiency 2

## GRB Activities on noise:

Tyres with low Rolling Resistance: 2010

## GRRF Activities on brakes and running gear:

Regenerative braking systems (2008)

Tyre Pressure Monitoring Systems (TPMS): (2010)

## GRE Activities on lighting and light-signalling:

Dedicated Daytime Running Lamps (DRL)

LED headlamps: 2008

## WP.29 informal group on:

Intelligent Transport Systems (ITS)

More information at: [www.unece.org/trans/wp29welc.html](http://www.unece.org/trans/wp29welc.html)



# The World Forum and a possible strategy for climate change mitigation

At the first International Transport Forum in Leipzig (May 2008), Transport Ministers agreed, in their key messages, on the need:

- to reduce, at latest by 2050, the global man-made CO<sub>2</sub> emissions by transport sector by 50%

WP.29 noted, at its November 2008 session, that a possible strategy for climate change mitigation could be:

- in 2015: 30% increase of the energy efficiency of all new vehicles with the current combustion engine technology
- in 2020: full introduction into the global market of new environmentally friendly vehicles (e.g. plug-in hybrid electric vehicles hydrogen and fuel-cell vehicles)
- in 2040: full introduction into the global market of electric vehicles

Note: The anticipated introduction by a 10 years period is necessary due to the long lifetime of vehicles of about 15-20 years



# A challenge for the automotive industry and the future power plants

This strategy would become a huge challenge for the automotive industry and could result, for the transport sector, in:

- a considerable decoupling from fossil fuels
- a switch from fossil fuel to electricity
- an increased demand of electricity

However, a commitment by the automotive industry is only agreeable, if:

- future power plants ensure a sustainable and secured production of electricity



THANK YOU FOR YOUR ATTENTION

Questions?