



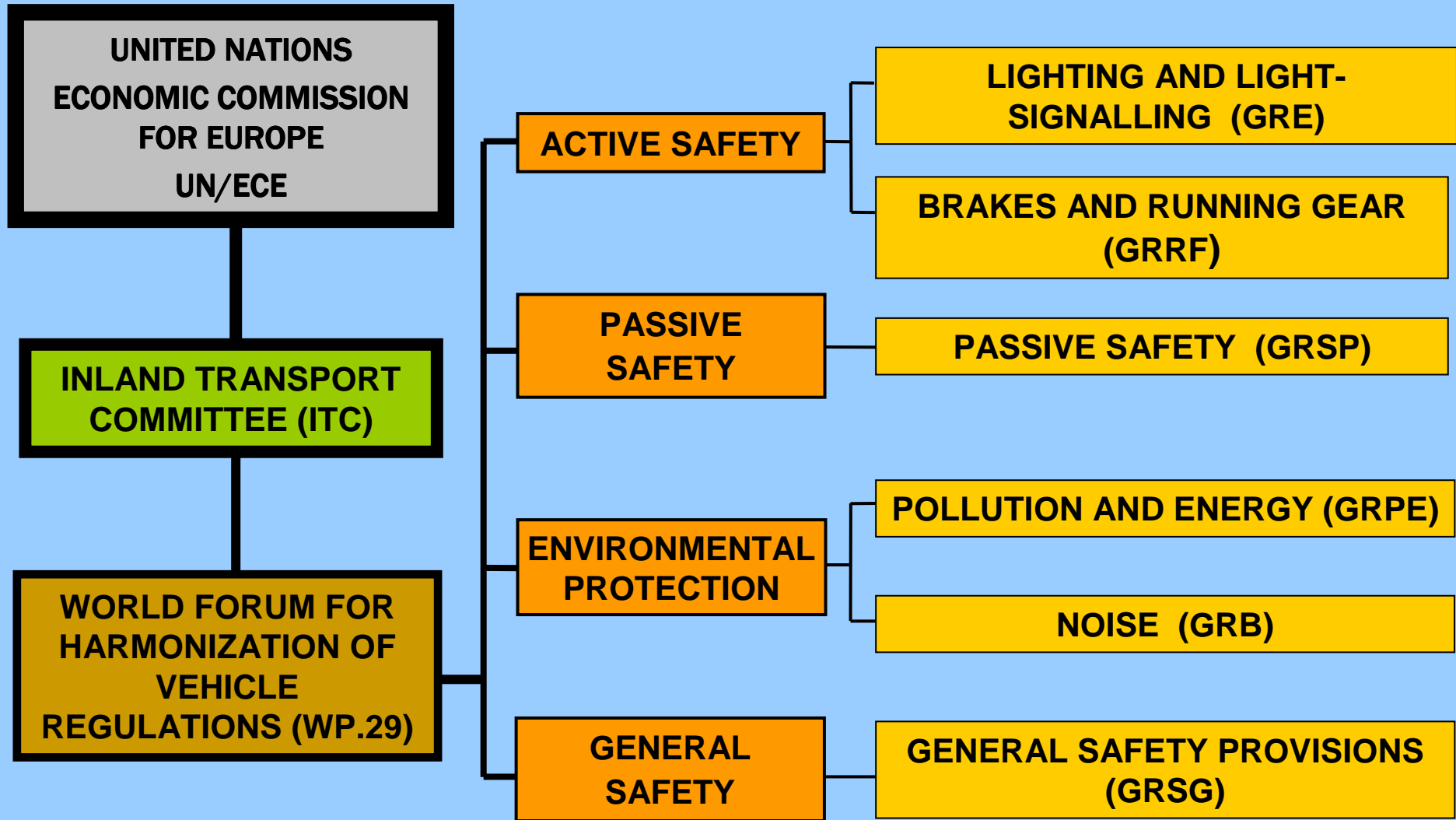
WP.29 Activities on Climate Change Mitigation and its Round Table on Global Warming and Transport

Presentation at the 22nd session of the
Working Party on Transport Trends and Economics (WP.5)

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Structure of the World Forum WP.29





Active Safety (crash-avoidance)

GRRF Activities on brakes and running gear:

Anti-lock braking systems (ABS): 1990

Regenerative braking systems: 2008

Electronic Stability Control (ESC): 2008

Tyre Pressure Monitoring Systems (TPMS): (2010)

Advanced Emergency Braking Systems and Lane Departure

Warning Systems (AEBS & LDW): (2011)

GRE Activities on lighting and light-signalling:

Conspicuity/Contour markings: 2006

Adaptive Front-lighting Systems (AFS): 2007

Dedicated Daytime Running Lamps (DRL): 2007

LED headlamps: 2008

WP.29 informal group on:

Intelligent Transport Systems (ITS)



Passive and General Safety

GRSP Activities on passive safety (crash-worthiness):

Safety belts: 1970

Protective helmets: 1972

Child Restraint Systems (CRS): 1981

Frontal and lateral crash tests: 1995

Pedestrian safety: 2008

Electric safety: (2010)

Updated frontal crash barrier: (2010)

GRSG Activities on general safety provisions:

Indirect vision systems (mirrors & camera monitoring): 1981/2005

Safety glazing materials: 1981/2008

Superstructure of buses and coaches: 1986/(2010)

Vehicle alarm systems: 1997

Burning behaviour: 2005



Environmental Protection

GRPE Activities on pollution and energy:

Liquefied Petroleum Gas (LPG): 1987

Electrical Vehicles (EV): 1996

Measurement procedure for CO2 emissions (Fuel consumption): 1997

Compressed Natural Gas (CNG): 2000

Hybrid/Electric Vehicles (HEV): 2004

Bio-Fuels and Plug-in Hybrid/Electric Vehicles (PHEV): 2008

Market Fuel Quality (FQ): (2010)

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

Environmentally Friendly Vehicles (EFV) – Feasibility (2009)

Worldwide Harmonized Light Vehicle Test Procedures (WLTP): (2014)

GRB Activities on noise:

Noise level of for motor cycles and motor vehicles : 1980 &1982

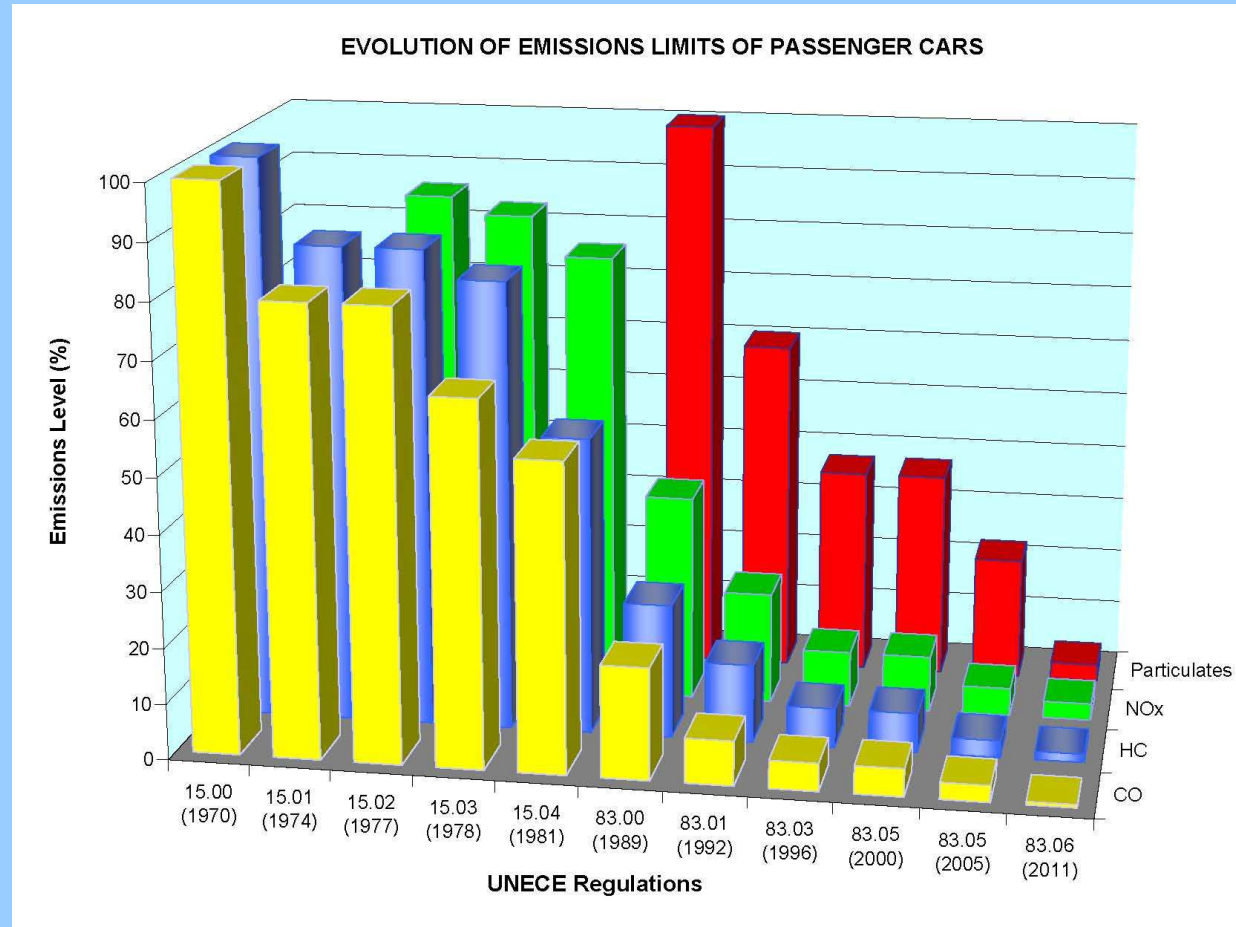
Tyre rolling noise and wet grip adhesion: 2007

New noise measurement method: 2007 – new limit values: (2010)

Tyres with low Rolling Resistance: (2010)



Gaseous pollutants and particles





The World Forum and a possible strategy for climate change mitigation

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 vehicles)
- in 2040: full introduction into the global market of electric vehicles as well as hydrogen and fuel-cell vehicles

In March 2009, WP.29 decided to hold during its June 2010 session a “Round table on Global Warming and Transport”:

- to promote and secure the implementation of its work programme and strategy to mitigate climate change
- brainstorming session in November 2009



UNDA Project on Global Warming and Transport

Objective:

To develop an information and analysis tool based on a uniform methodology for the evaluation of CO₂ emissions in the transport sector in order to enable all UN countries to optimize the use of energy sources in the transport sector, taking into consideration: road vehicle fleets, types of propulsion systems, transport infrastructure, Intelligent Transport Systems, sustainable energy sources, intermodal transport on railways and inland waterways.

Expected Achievement:

A powerful analysis tool to develop future transport strategies and to support policy decisions by the countries to receive feedback on the impact of their policy scenarios on the economy.