







Lebanon Awareness Raising Workshop on Main UN Road Transport Agreements administered by the **UNECE Inland Transport Committee**

UN vehicle regulations agreements

Ministry of Public Works and Transport, Beirut, 16-17 May 2017

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Content

- I. WP.29
 - a) WP.29 Activities
 - b) WP.29 scope and organization
- II. The tools of WP.29
 - a) Vehicle approval: the 1958 Agreement
 - b) Vehicle certification: the 1998 Agreement
 - c) Periodic technical inspections (PTI): the 1997 Agreement
- III. Better vehicles by implementation of the UN Vehicle Agreements





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

- UNECE Sustainable Transport Division: secretariat to WP.29 for more than 60 years
- WP.29 is:
 - the unique worldwide regulatory forum for the automotive sector
 - administrating three Multilateral UN Agreements





Construction regulations

1958 Agreement – Type Approval Regulations with mutual recognition of the type approvals

1998 Agreement – Global Technical Regulations

In Use PTI regulations

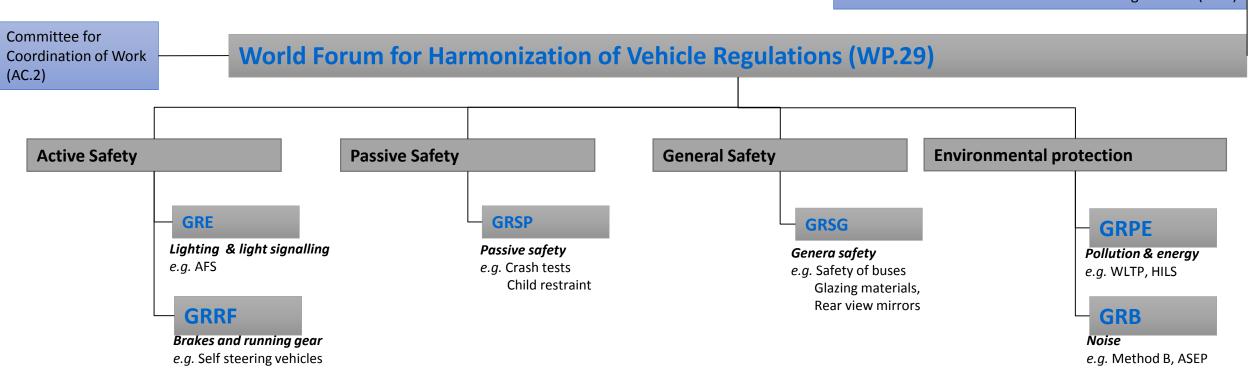
1997 Agreement – Adoption of Uniform Conditions for Periodical Technical Inspections of Wheeled Vehicles and the Reciprocal Recognition of Such Inspection





The WP.29 structure

Committee for the 1958 Agreement (AC.1) Committee for the 1998 Agreement (AC.3) Committee for the 1997 Agreement (AC.4)



and ~40 non-permanent technical groups





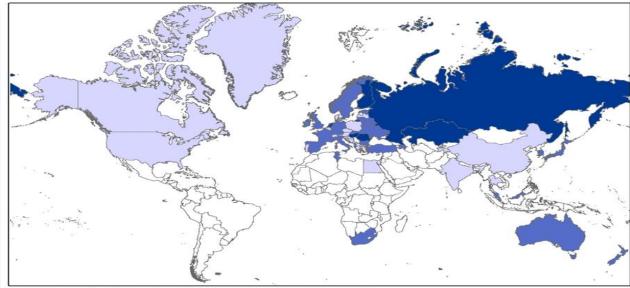


WP.29 is worldwide, unique and transparent

- Agreements open to all Nations of the UN
- Participation open to States, Governmental Organizations (GOs) and NGOs, but

Decisions are taken by

Governments (of CPs)



Countries contracting parties to Vehicle Regulations Agreements

Number of Agreements



No other worldwide organization covers this area







What is WP.29 doing?



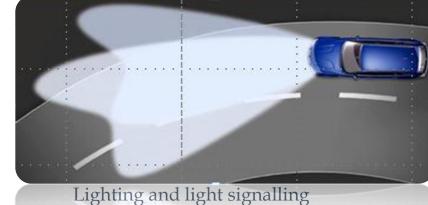
Emissions of pollutants and CO₂













The Agenda 2030 and Road Safety

The Sustainable Development Goals (SDGs)



Two targets are directly relevant for road safety



3.6. By 2020, halve the number of global deaths and injuries from road traffic accidents.



11.2. By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.



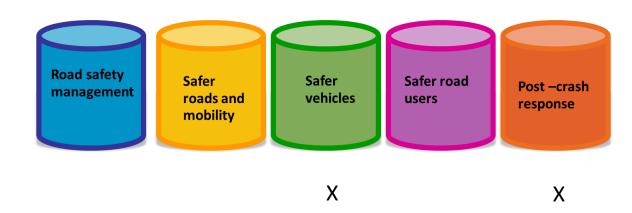
UN decade of action for road safety 2011-2020

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The plan



The 5 pillars







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Principal Elements of the 1958 Agreement

Eligible Contracting Parties to the 1958 Agreement:

Members of UN

The 1958 Agreement provides:

Legal framework for the adoption of uniform UN Regulations on the vehicle construction

Reciprocal recognition of Type Approval Approved once and accepted everywhere (CPs)

Elimination of barriers to trade







Principal Elements of the 1958 Agreement



• All vehicle parts and systems approved according to UN Regulations under the 1958 Agreement bear the unique E -marking



• The Type-Approval with an approval number and the approval date + test reports



Current Status



- More than 140 Regulations annexed to the 1958 Agreement
- Covering all kind of products and their parts



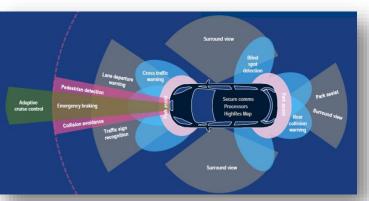
- Evolution of the Agreement (Revision 3):
 - Expected entry into force: September 2017
 - Possibility to apply former versions of a Regulation
 (e.g. possibility to use EURO 4 or EURO 5 while we are now at EURO 6)
 - DETA (Database of the exchange of Type Approval documentation)



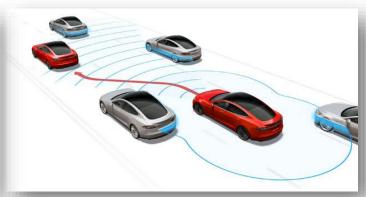
Latest Developments in Vehicle Regulations

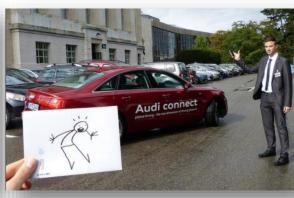


WP.29 is the forum in which are defined the performance requirements and the technical regulations applicable to automated vehicles:









WP.29 committed to continue improving the safety and environmental performance of vehicles:

- Blind Spot Monitoring
- Safety of Electric Vehicles
- WLTP...





Principal Elements of the 1998 Agreement

Eligible Contracting Parties to the 1998 Agreement:

Members of UN



The 1998 Agreement provides:

Legal framework for the adoption of uniform Global Technical Regulations - UN GTRs -

No administrative provisions (for self certification and homologation)







Principal Elements of the 1998 Agreement

Contracting Parties to the 1998 Agreement

Commit themselves to implement a GTR into national legislation, when voting in favour

Need a system/agency for market surveillance and enforcement of production compliance

The 1998 Agreement requests

Regular reporting by Contracting Parties on the implementation of GTRs in their national law







Principal Elements of the 1997 Agreement

Eligible Contracting Parties to the 1997 Agreement:

Members of UN

Contracting Parties

The 1997 Agreement provides:

Legal framework for the adoption of uniform UN Rules for PTI of vehicles in use

Reciprocal recognition of certificates of such inspections for crossborder use of vehicles







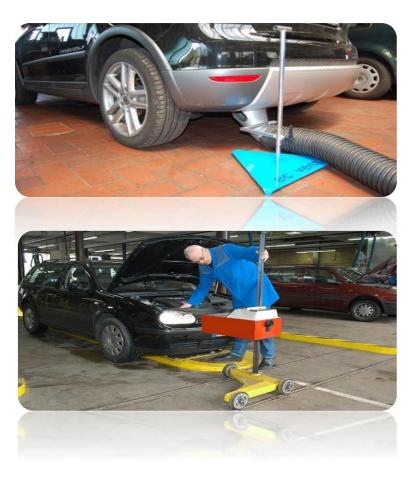
Principal Elements of the 1997 Agreement

1997 Agreement

> UN Rule No. 1

UN Rule No. 2 For environmental issues

For safety inspection







Status of the 1997 Agreement

Current PTI regulations (UN Rules)

Commercial vehicles – Vehicles of Category N2 and N3 Coach and busses – Vehicles of Category M2 and M3 (Mass > 3.5t)



WP.29 has agreed to update the UN Rules

Next steps - Amendments in discussions

Scope extension – Including vehicles below 3.5t
i.e. passenger cars and vans
Update of technical provisions – e.g. for cars



Amendments to UN Rules ready for voting by AC.4

Future

Extend content – Include elements relevant for level of PTI (test-equipment, skills & training of inspectors, supervision)

Make it a set of harmonized technical provisions - for vehicles in use derived from those of the 1958 & 1998 Agreements

Resolution R.E.6 on testequipment, skills & training of inspectors, supervision







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Implementation of 1958 Agreement



- Amendments to national legislation
 - Requirements for vehicle approval (e.g. reference to UN Regulations)
 - Requirements for reciprocal recognition of UN Type Approvals
 - Requirements for vehicle registration (e.g. vehicle approval as prerequisit)
 - Responsibilities and sanctions

Type Approval Authority

- Administrative procedures for granting, extending, suspension of approvals
- Assessment, designation and notification of technical services
- Conformity of production procedures
- Acting as liasion point to othe TAAs and the WP.29 secretariat

Technical Services

May also be private or located outside the country/in any other Contracting Party



Implementation of 1998 Agreement



- Amendments to national legislation
 - Full transposition of the UN GTR into national legislation
 - Introduce provisions for self-certification or homologation
 - Requirements for vehicle registration (e.g. vehicle certification as prerequisit)
 - Responsibilities and sanctions
- National Authority for market surveillance and enforcement of production compliance
 - Procedures for market surveillance and enforcement of production compliance
 - Technical capacity for performing compliance tests once vehicle models are put on the market
 - Enforcement of re-call activities and sanctions against manufacturers
 - Acting as liasion point to the WP.29 secretariat
 - Mandatory status report to AC.3





Implementation of 1997 Agreement



- Amendments to national legislation
 - Requirements for periodic technical inspection (e.g. reference to UN Rules and R.E.6)
 - Requirements for reciprocal recognition of PTI certificats for cross border traffic
 - Requirements for vehicle registration (e.g. PTI as prerequisit)
 - Responsibilities and sanctions

National PTI Authority

- Administrative procedures for granting, extending, suspension of authorisation for PTI test centres and for inspectors
- Requirements for test centres, equipment, skills&traning of inspectors and supervision of test centres
- Acting as liasion point to other PTI Authorities and the WP.29 secretariat
- Test Centres

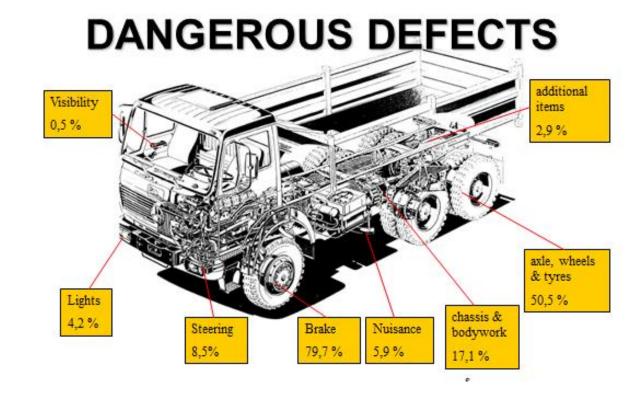


Why does it matter?

Why PTI?

- Evidence base:
 - Technical defects related to fatal accidents (based on indepth accident analysis)
 - 8 to 15% in high income countries (EU)
 - 15 to 25% in middle income countries
- 1997 Agreement?
 - New specifications for new technologies

Example of results of technical roadside inspections (Austria '08)







Why does it matter?

Why vehicle regulations?

Several versions of a given model, because:

- Left Hand Drive
- Right Hand Drive
- The US/Canada version
- The Rest of the World (e.g. for countries with low fuel quality)...









Type Approval

Testing

- Submission of the information document (documentation of the product)
- Performance of the tests prescribed
- (According to the provisions of the Regulation)

Approval

- Test report and documentation checked
- Type approval issued by the Authority

COP

- Conformity of Production (COP) process and checks (QM / QA)
- COP audit by the Authorities

• Some regulations require «in use» testing of products (e.g. in the field of emissions)

• One regulation is dedicated to the recyclability of vehicles

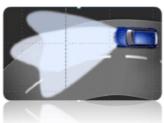


The most important UN Vehicle Regulations to make a change to road safety









Topic	Passenger cars	PTWs	Commercial vehicles
	UN Regulation	UN Regulation	UN Regulation
Active safety			
Brakes	R13 H (incl. ESC) GTR 8	R 78 (incl. ABS) GTR 3	R 13 (incl. EVSC)
Steering	R 79		R 79
Tyres	R 30/ GTR 16	R75	R 54
Mechanical couplings			R 55
Passive safety			
Helmets		R22	
Safety belts anchorages	R 14		R 14
Safety belts	R 16		R 16
Seats/ head restraints	R 17, R 25/ GTR 7		
Frontal collision	R 94		
Lateral collision/	R 95,		
pole side impact	R 135/ GTR 14		
Pedestrian safety	R 127/ GTR 9		
Child restraints	R 44		
Electric PTW safety		R 136	
Cabs strength			R 29
General safety			
Buses and coaches			R 107
Safety glazing	R 43/ GTR 6		R 43
Devices for indirect			R 46
vision			
Rear underrun protection			R 58
Lighting and light installation			
Installation of lighting	R 48	R 53, R 74	R 48









The advantage of a international regulation

For the business sector:

- The "safe harbor"
- Harmonized requirements
- Simpler export (less/no technical barrier)
- Less uncertainty about market acceptance

For Countries and their citizens:

- Safety
- Better trade
- Interoperability
- Facilitated border crossing









THANK YOU FOR YOUR ATTENTION

UNECE Sustainable Transport Division

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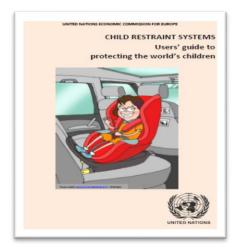




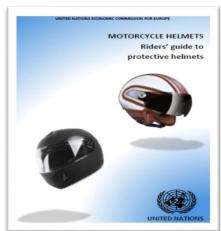
Leaflets and Publications

UNECE Inland Transport Committee

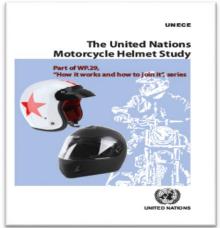
Child restraint systems



Motorcycle helmets









How are used UN type approvals / certificates

