

EUROMED Workshop on Vehicle Regulations

Cairo

22 – 24 October 2018

*UN Vehicle Regulations Agreements
World Forum for Harmonization of Vehicle Regulations,
WP.29*

Walter NISSLER

Chief of Vehicle Regulations and Transport Innovation Section
(Secretary of the World Forum for Harmonization of Vehicle Regulations)



Content

- I. WP.29
 - a) WP.29 Activities
 - b) WP.29 scope and organization

- II. Vehicle approval: the 1958 Agreement



Content

I. WP.29

a) WP.29 Activities

b) WP.29 scope and organization

II. Vehicle approval: the 1958 Agreement



UNECE and Vehicle Regulations



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.



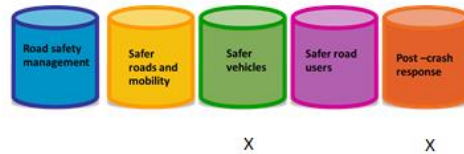
UN and Road Safety

UN decade of action for road safety 2011-2020

The plan



The 5 pillars



UN Secretary General's Special Envoy on Road Safety

- United Nations Secretary-General Ban Ki-moon announced on 29 April 2015 the appointment of Jean Todt as his Special Envoy for Road Safety.
- to help mobilize sustained political commitment at the global level towards making road safety a priority worldwide
- UNECE, which is the custodian of the UN road safety legal instruments, will act as the secretariat for the Special Envoy.



UN Road Safety Trust Fund



TRANSPORT



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



Certification regulations

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

1998 Agreement – Global Technical Regulations



In Use PTI regulations

1997 Agreement – Periodical Technical Inspections of Wheeled Vehicles and the Reciprocal Recognition of Such Inspection

What is WP.29 doing?



Emissions of pollutants and CO₂



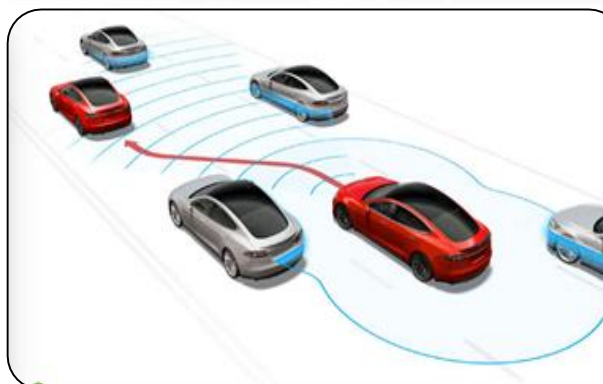
General safety



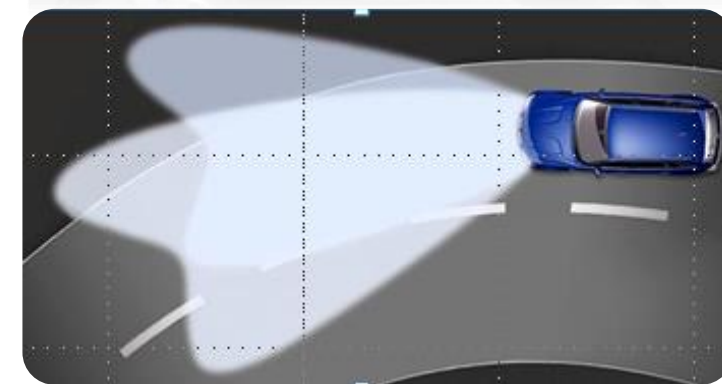
Passive safety



Noise and tyres



Automated/autonomous
and connected vehicles

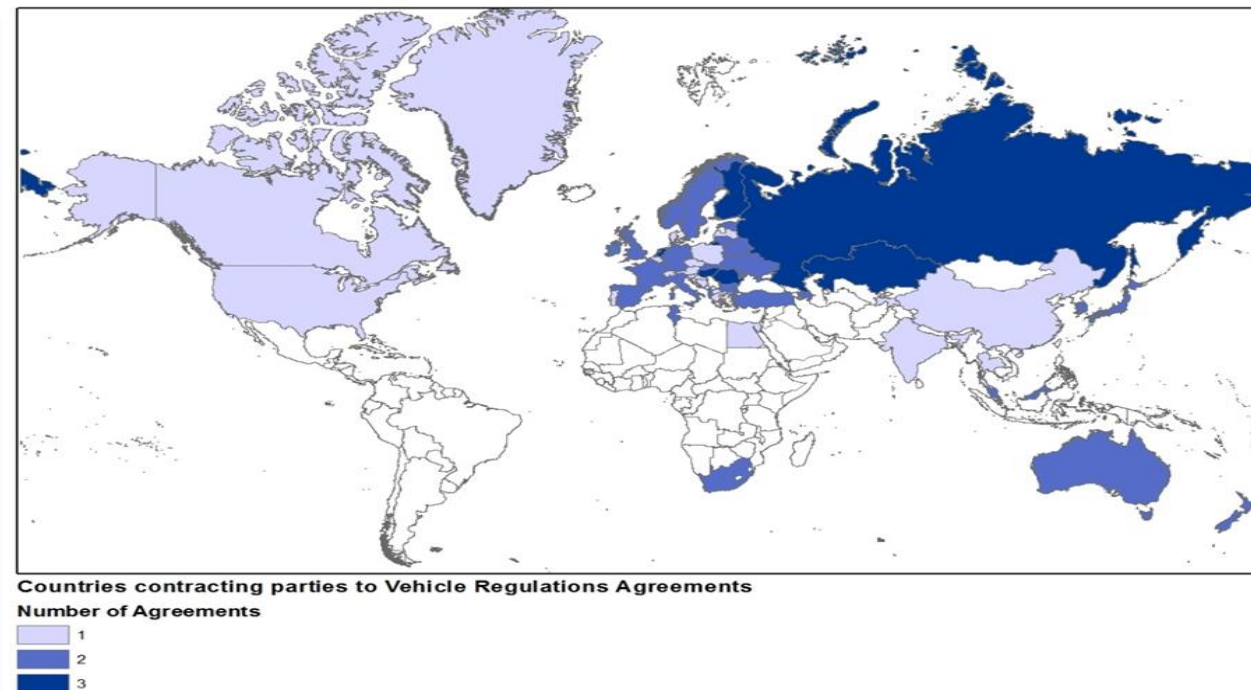


Lighting and light signalling

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)**



No other worldwide organization covers this area

WP.29 and SDGs



Content

- I. WP.29
 - a) WP.29 Activities
 - b) WP.29 scope and organization

II. Vehicle approval: the 1958 Agreement



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)...



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 vehicle approval
(performance and test requirements, conformity of production and administrative provisions)

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



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

Principal Elements of the 1958 Agreement

- 1958 Agreement provides the **legal framework** for the establishment and amendment of harmonized technical **United Nations Regulations** for wheeled vehicle, equipments and parts,
- Conditions for **reciprocal recognition of approvals granted** on basis of these UN Regulations.
- Construction of **Safer** and more **Environmentally friendly** vehicles
- Today 145 UN Regulations annexed to the 1958 Agreement
- 55 Contracting Parties



Principal Elements of the 1958 Agreement

- Better road safety and lower pollutant emissions
- Mutual recognition of type approvals under UN Regulations
- Elimination of technical barriers to trade
- Facilitation in elaboration of national vehicle regulations by applying UN Regulations
- Flexibility in application of UN Regulations (Country selects which UN Regulation and notifies)
- Keep pace with technological development (both administration, technical services but also national industry)
- Protect country and citizen from sub-standard vehicles by mandatory applying UN Regulations



Main Provisions of the 1958 Agreement

- **Legal framework** to establish UN Regulations and amendments to existing ones for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles;
- New UN Regulations and amendments to existing UN Regulations are established by a vote of **four-fifths majority** of contracting parties;
- Contracting parties can **decide not to apply** the new UN Regulations and the amendments to existing ones;
- Contracting party that applies any UN Regulation is allowed to **grant type approvals** and is required to **accept type approvals** granted by any other contracting party applying it;
- Contracting parties granting type approvals are required to have the **technical competence** to ensure the performance of the tests and the competence to ensure conformity of production



Main Provisions of the 1958 Agreement

- 8 Schedules of Administrative and Procedural Provisions:
 - Schedule 1: Conformity of production procedures
 - Schedule 2:
 - Part one: Assessment, designation and notification of technical services
 - Part two: Standards which the technical services shall comply with
 - Part three: Procedure for the assessment of technical services
 - Schedule 3: Procedures for UN type approvals
 - Schedule 4: Numbering of UN type approvals
 - Schedule 5: Circulation of approval documentation (DETA and Unique Identifier UI)
 - Schedule 6: Procedures for resolving interpretation issues
 - Schedule 7: Procedure for exemption approvals concerning new technologies
 - Schedule 8: General conditions for virtual testing methods



Main Provisions of UN Regulations

- The UN Regulations annexed to the 1958 Agreement shall include:
 - (a) Technical performance based requirements;
 - (b) Test methods by which performance requirements are verified;
 - (c) The conditions for granting type approvals;
 - (d) The conditions for the reciprocal recognition of the type approvals;
 - (e) Provisions for the marking of vehicles, their equipment and parts to identify and verify the vehicles to be registered;
 - (f) The conditions for ensuring the conformity of production (COP);
 - (g) Conditions for in service conformity;
 - (h) Conditions for recyclability of vehicles.



Useful Information

- WP.29 Website

<http://www.unece.org/trans/main/welcwp29.html>

UN Vehicle Regulations - 1958 Agreement
Addenda to the 1958 Agreement (Regulations 21-40)

Important Note:
1. Some of the regulations presented in electronic format on this Website use WordPerfect fonts. If these fonts are not available on your system, certain symbols and equations may not display correctly. [Click here](#)

21 22 23 24 25 26 27 28 29 **30** 31 32 33 34 35 36 37 38 39 40

Regulation No. 30 - Rev.3 - Tyres for passenger cars and their trailers

English [DOC](#) [PDF](#)
French [DOC](#) [PDF](#)
Russian [DOC](#) [PDF](#)

Regulation No. 30 - Rev.3 - Amend.1

English [DOC](#) [PDF](#)
French [DOC](#) [PDF](#)
Russian [DOC](#) [PDF](#)

Regulation No. 30 - Rev.3 - Amend.2

English [DOC](#) [PDF](#)
French [DOC](#) [PDF](#)
Russian [DOC](#) [PDF](#)

Regulation No. 30 - Rev.3 - Amend.3

English [DOC](#) [PDF](#)
French [DOC](#) [PDF](#)
Russian [DOC](#) [PDF](#)

Regulation No. 30 - Rev.3 - Amend.3 - Corr.1

English [DOC](#) [PDF](#)
French [DOC](#) [PDF](#)
Russian [DOC](#) [PDF](#)

Regulation No. 30 - Rev.3 - Amend.4

English [DOC](#) [PDF](#)

✓ **Agreements and Regulations**

✓ **UN Regulations (1958 Agreement)**

Text of the 1958 Agreement

➤ **UN Regulations (Addenda to the 1958 Agreement)**

Status of the 1958 Agreement (and of the annexed regulations)

Requirements for designated Technical Services

ABOUT UNECE OUR WORK THEMES WHERE WE WORK Open UNECE EVENTS Publications MEDIA

UNECE **TRANSPORT** AREAS OF WORK / VEHICLE REGULATIONS

Vehicle Regulations

Transport

Vehicle Regulations

About us

Meetings and Events

Working Parties and Documents

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

Working Party on Noise (GRB)

Working Party on Lighting and Light-Signalling (GRE)

Working Party on Pollution and Energy (GRPE)

Working Party on General Safety Provisions (GRSG)

Working Party on Passive Safety (GRSP)

Working Party on Automated/Autonomous and Connected Vehicles (GRVA)

Former Working Party on Brakes and Running Gear (GRRF)

Agreements and Regulations

UN Regulations (1958 Agreement)

Technical Inspections (1997 Agreement)

Global Regulations (1998 Agreement)

Resolutions

Data sharing

Reference Material

Introduction

World Forum for the harmonization of vehicle regulations (WP.29)

The UNECE Sustainable Transport Division provides the secretariat services to WP.29, the World Forum that incorporates into its regulatory framework the technological innovations of vehicles to make them safer and more environmentally sound.



WP.29 **Q&A** **Meetings** **Regulations** **Data sharing**

News

Draft regulation will aim to reduce cyclist and pedestrian deaths caused by trucks' blind spots
16 October 2018

UNECE adopts resolution on the deployment of highly and fully automated vehicles in road traffic
09 October 2018

Events

(WP.29/GRE) Working Party on Lighting and Light-Signalling (80th session)
23 to 26 October 2018

(WP.29/AC.2) Administrative Committee for the Coordination of Work (128th session)
12 November 2018

(WP.29) World Forum for the Harmonization of Vehicle Regulations (176th session)
13 to 16 November 2018

(WP.29/GRSP) Working Party on Passive Safety (64th session)
11 to 14 December 2018

(WP.29/GRPE) Working Party on Pollution and Energy (78th session)
08 to 11 January 2019

Highlights

Note for [GRB & GRRF experts](#) - re-issued

Note for visitors at the Palais des Nations: new security measures

See our [Child Restrain Systems users' guide](#) (ES/IT/KR) and [Motorcycle helmets riders' guide](#) (KR)

TRANSPORT



Useful Information

- Explanation of UN Regulation front page

Agreement

Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations*

(Revision 3, including the amendments which entered into force on 14 September 2017)

This field contains the title of the Agreement.
Currently Revision 3 of the Agreement is in force.

Addendum 77: UN Regulation No. 78

Revision 2

Incorporating all valid text up to:

Erratum to Revision 1

Corrigendum 1 to the 03 series of amendments - Date of entry into force: 12 March 2008

Supplement 1 to the 03 series of amendments - Date of entry into force: 26 February 2009

Corrigendum 2 to the 03 series of amendments - Date of entry into force: 23 June 2010

Supplement 2 to the 03 series of amendments - Date of entry into force: 8 October 2015

Supplement 3 to the 03 series of amendments - Date of entry into force: 9 February 2017

04 series of amendments - Date of entry into force: 22 June 2017

This field contains the heading of the UN Regulation. UN Regulation No. 78 is the 77th Addendum to the Agreement. Revision 2 refers to it as the second consolidated text of the UN Regulation.

This field contains the information on texts of series of amendments, supplements, corrigenda or errata incorporated into the consolidated text of the revision.

Uniform provisions concerning the approval of vehicles of categories L1, L2, L3, L4 and L5 with regard to braking

This field contains the title of the UN Regulation.



Useful Information

1958 Agreement Status Document ECE/TRANS/WP.29/343/Rev.XX

- Information on application of UN Regulations by Contracting Parties
- Information on notified Type Approval Authorities per Country and UN Regulation
- Information on designated Technical Services per Country and UN Regulation

https://apps.unece.org/WP29_application/

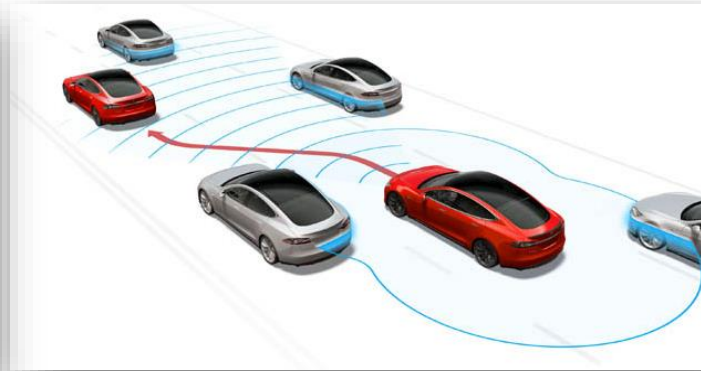
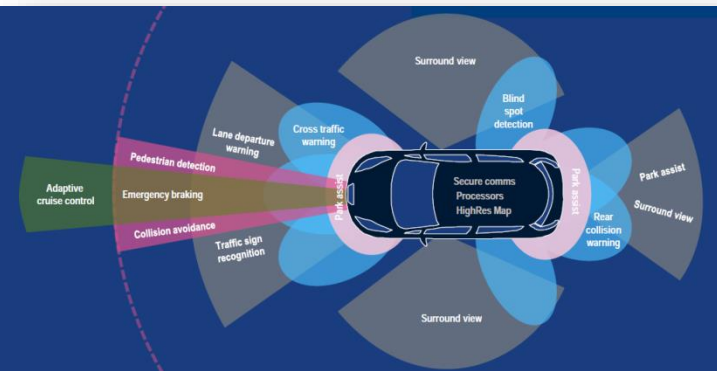
- List of status of official documents and entry into force of UN Regulations and their amendments.

<http://www.unece.org/fileadmin/DAM/trans/main/wp29/wp29regs/2018/ECE-TRANS-WP.29-343-Rev.26-June.pdf>



Latest Developments in Vehicle Regulations

WP.29 is a regulatory forum in which technical performance requirements applicable to ADAS and automated vehicles are defined :

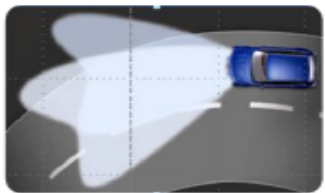
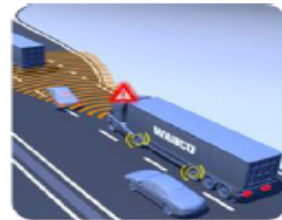


WP.29 committed to continue improving the safety and environmental performance of vehicles:

- Blind Spot Monitoring
- Safety of Electric Vehicles
- WLTP...
- Simplification of Lightning Regulations
- Cyber security and OTA SW updates
- Automatic Emergency Call System..

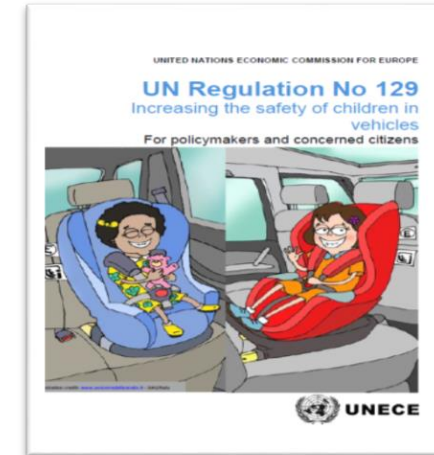
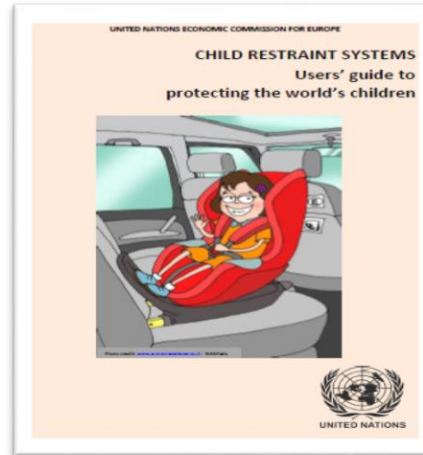
The most important UN Vehicle Regulations to make a change to road safety

| Topic | Passenger cars UN Regulation | PTWs UN Regulation | Commercial vehicles UN Regulation |
|--|---------------------------------|------------------------|--------------------------------------|
| Active safety | | | |
| Brakes | R13 H (incl. ABS) | R 78 (incl. ABS) GTR 3 | R 13 (incl. EVSC) |
| Electronic Stability Control | R 140 GTR 8 | | |
| 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/ pole side impact | R 95, 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 vision | | | R 46 |
| Underrun protection | | | R 58 R 93 |
| Lighting and light installation | | | |
| Installation of lighting | R 48 | R 53, R 74 | R 48 |

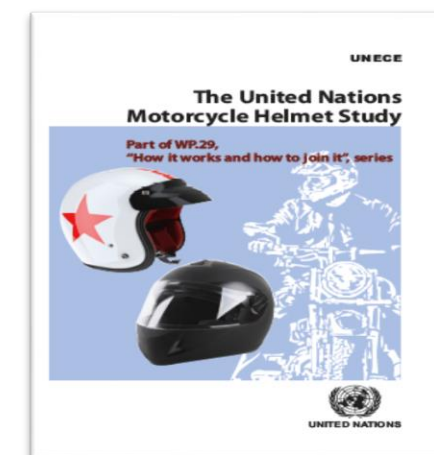
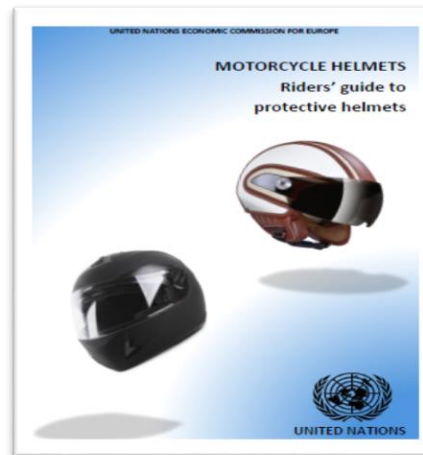


Leaflets and Publications

- Child restraint systems



- Motorcycle helmets



**THANK YOU
FOR YOUR ATTENTION**

UNECE Sustainable Transport Division

<http://www.unece.org/trans/main/welcwp29.html>

Walter.nissler@un.org