ANNUAL CONFERENCE
SAFETY-MOBILITY-SUSTAINABILITY

Sharing the road with Robots: When Motorcycling Meets Automation

The Italian Position as Biggest Market pf PTW in Europe

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Italian Ministry of Infrastructure and Transport

Where The Rules Are Established

- National Parliament & Government

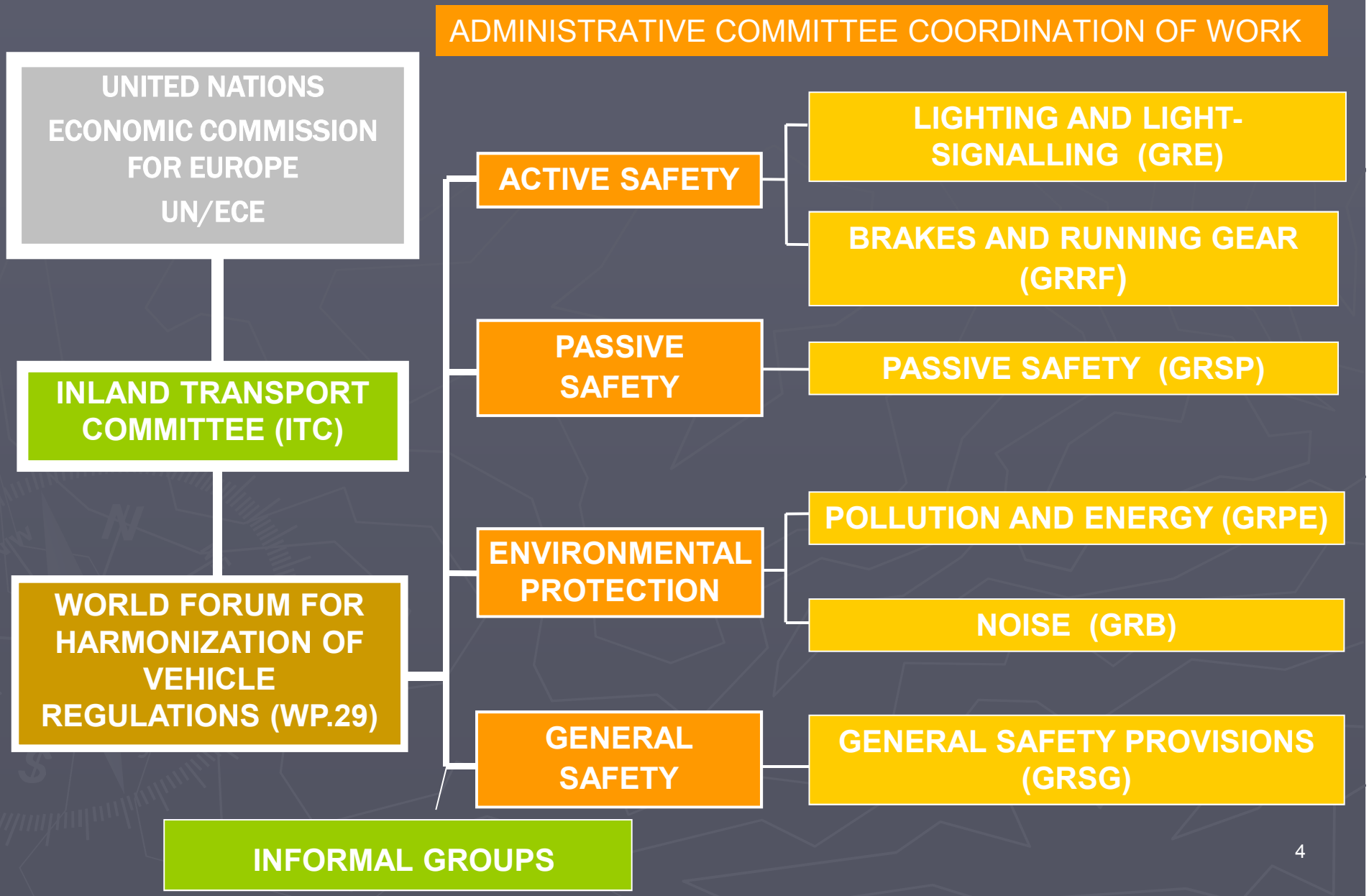
- European Institutions (Parliament, Council and Commission)

- United Nations – Economic Commission for Europe

Historical background of WP.29

- 1949: Convention on Road Traffic
  -> Resolution No. 45
- 1952: Establishment of WP.29
- 1958: ‘58 Agreement
- 1997: ‘97 Agreement
- 1998: ‘98 Agreement
- 2000: World Forum

Structure of the World Forum WP.29



Agreements administered by WP.29

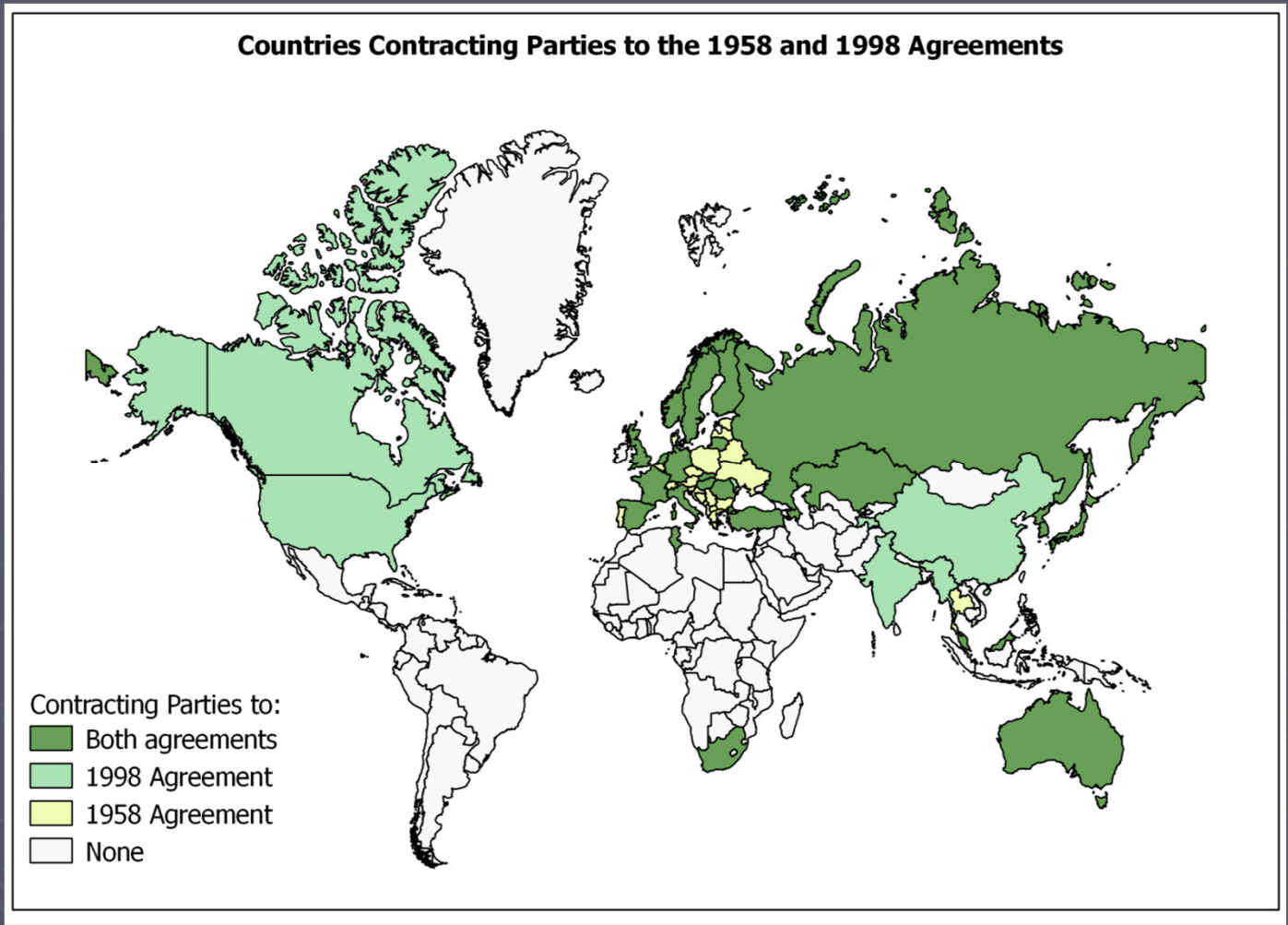
The World Forum administers 3 Agreements:

‘58 Agreement concerning the adoption of uniform technical prescriptions 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 prescriptions (54 Contracting Parties, 142 UNECE Regulations)

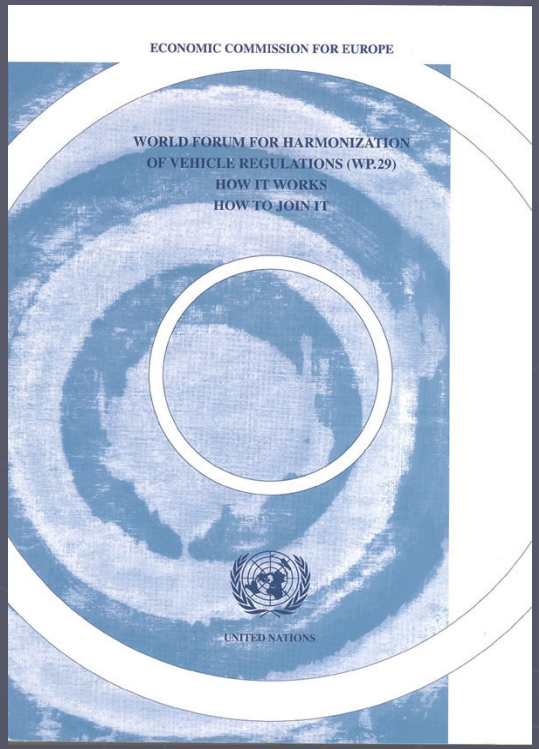
‘98 Agreement concerning the establishing of global technical regulations (gtrs) for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicle (35 Contracting Parties, 18 gtrs, adopted in 2012)

‘97 Agreement concerning the adoption of uniform conditions for periodical technical inspections of wheeled vehicles and the reciprocal recognition of such inspections (14 Contracting Parties, 17 pending signatories,)

The 58 & 98 should have similar technical provisions (parallel)


Countries Contracting Parties to the 1958 and 1998 Agreements
Contracting Parties to:
Both agreements
1998 Agreement
1958 Agreement
None

WP.29 – How It Works/How to join it?



FOR MORE INFORMATION

http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29pub.html

G7 2017

ITALIA

Italy in Figures

- Motorcycle Fleet: 6,5 milion
- New Motorcycle Registered in 2016: ≅ 200,000
- In 2014 there was about 3,400 fatalities due to road accidents namely:
  - 273 cycles
  - 578 pedestrians
  - 816 motorcycles/mopeds
  - 1491 cars

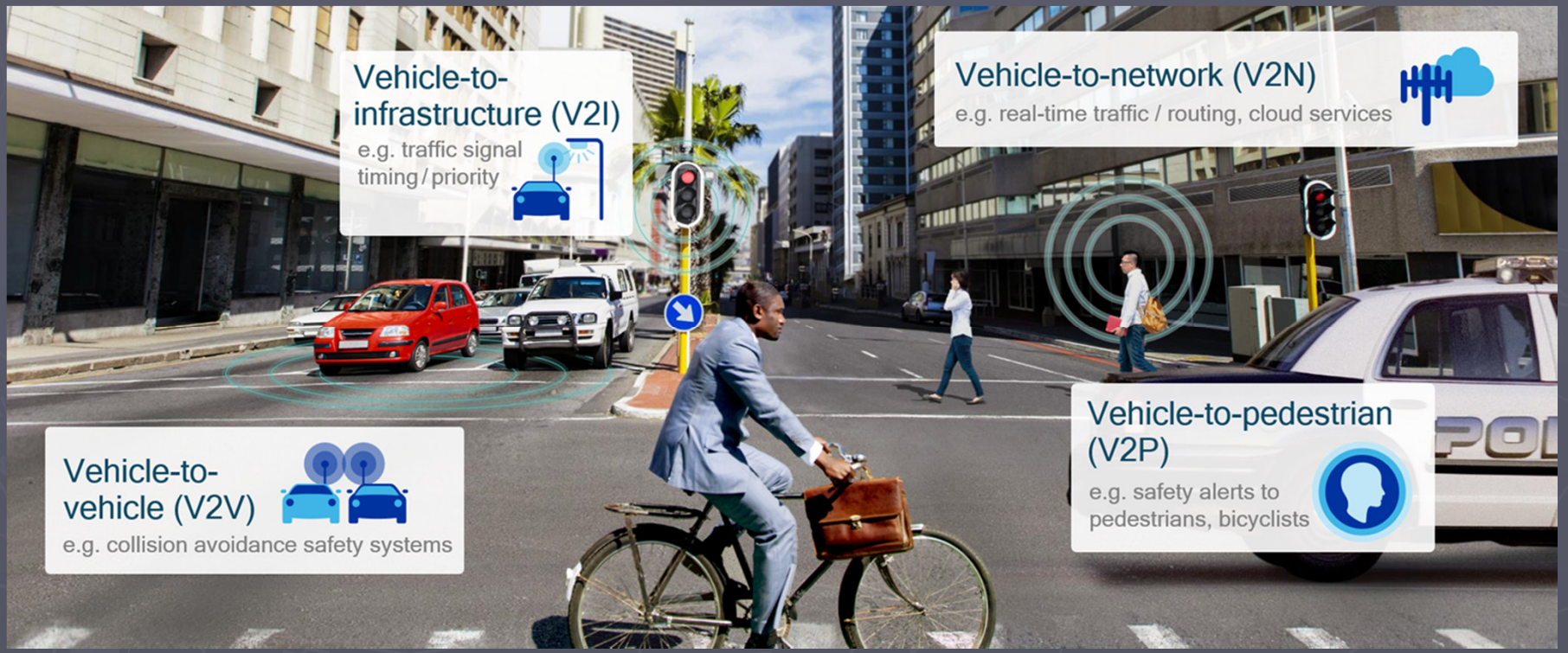
Road Safety Figures

- According to some national studies (USA, Europe, Japan) accidents involving motorcycles:

- 50-70% are caused by other vehicles;
- 60-90% the collision is with a car;
- 15-30% the collision occured at junctions

…BUT The Connectivity Will Make Motorcycling Safer

The Next Future



Sample use-cases enabled by V2X

1. Left Turn Assist
2. Intersection Movement Assist
3. Emergency Electronic Brake Lights
4. Queue Warning
5. Speed Harmonization
6. Real Time Situational Awareness
7. Software updates
8. Remote Vehicle Health Monitoring
9. Real-Time High Definition Maps
10. High definition sensor sharing
11. See-Through
12. Vulnerable Road User Discovery

What Have We Done in UNECE ?

- Amendment to the 1968 Vienna Conventions to address the challenges related to automated driving- entered into force
- Worked on vehicle automation such as "self steering vehicles" and "Remote Control Parking" and adopted first proposals on Corrective Steering Functions and Automatically Commanded Steering Functions (UN ECE Reg. 79)
- Guidelines on Cyber Security and Data Protection

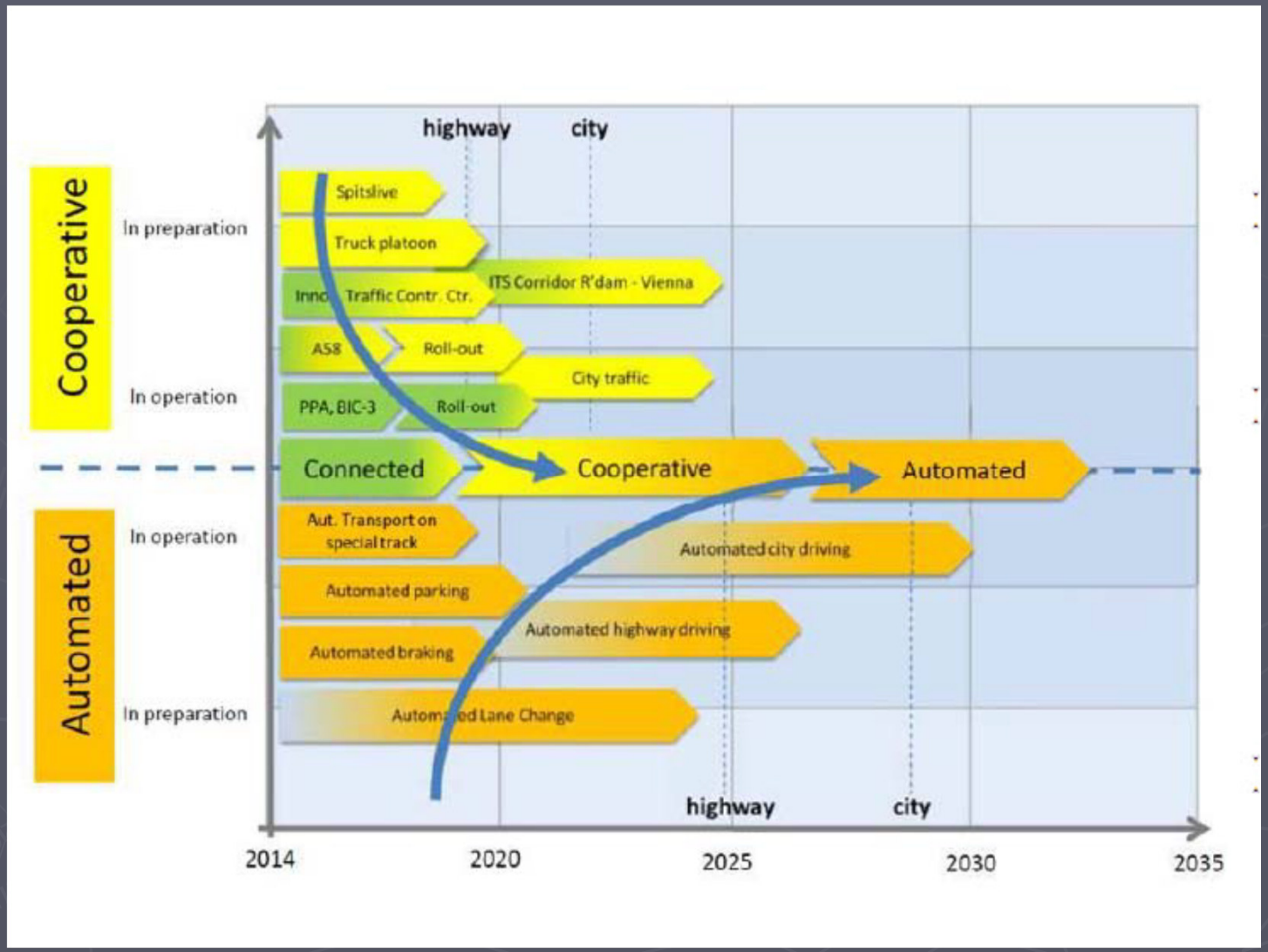
Under way in UNECE

- Draft Regulation on Driver Assist Systems to Avoid Blind Spot Accidents
- It is aiming to introduce Blind Spot Information System on Heavy Duty Vehicle

What Have We Done in the EU ?

- European Strategy on Cooperative Intelligent Transport Systems (C-ITS)
- GEAR 2030 (ongoing)

WHEN? – This is the calendar



THANK FOR YOUR ATTENTION