



ACEA

European  
Automobile  
Manufacturers  
Association

# MAKING MOBILITY SMARTER

## PERSPECTIVE OF VEHICLE MANUFACTURERS

**MEP BREAKFAST**  
ERTICO & MaaS Alliance

**ERIC MARK HUITEMA**  
Director General

6 November 2019



# MEMBERS

<b>BMW Group</b>	<b>CNH</b> INDUSTRIAL	<b>DAF</b>
<b>DAIMLER</b>	<b>FCA</b> FIAT CHRYSLER AUTOMOBILES	<b>Ford</b>
<b>HONDA</b> The Power of Dreams	 <b>HYUNDAI</b>	
<b>PSA</b> GROUPE	<b>GROUPE</b> <b>RENAULT</b>	<b>TOYOTA</b>
<b>VOLKSWAGEN</b> AKTIENGESELLSCHAFT		<b>VOLVO</b>





# KEY FIGURES ABOUT THE INDUSTRY

- **13.8 million Europeans** work in the automotive sector
- **11.4% of all manufacturing jobs** in the EU
- **€428 billion in tax** revenues (EU15 alone)
- **€84.4 billion trade** surplus for the EU
- **7% of EU GDP** generated by the auto industry
- **€57.4 billion in R&D** spending, 28% of EU total



# MOBILITY IS ABOUT MOVING



**PEOPLE**



**GOODS**



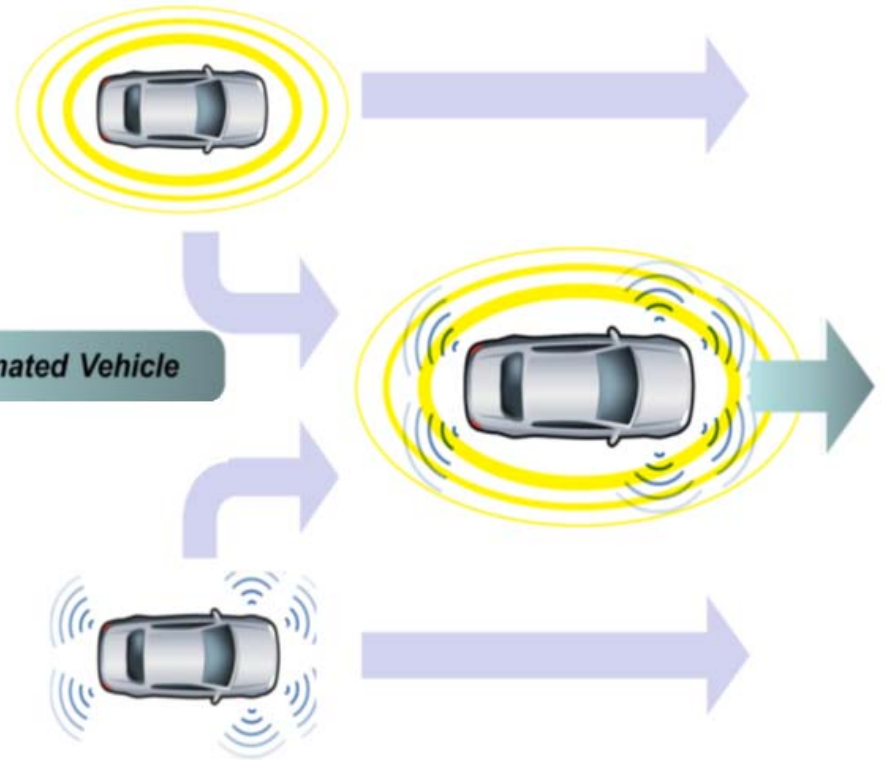
**DATA**

## Connected vehicle

- Vehicle-to-vehicle
- Vehicle-to-infrastructure
- Vehicle-to-x



Communicates with nearby vehicles and infrastructure; Not automated



## Automated vehicle



Operates in isolation from other vehicles using internal sensors



# BENEFITS

Connected and automated driving

Safety



Accessibility



Convenience

Future mobility



Sustainability



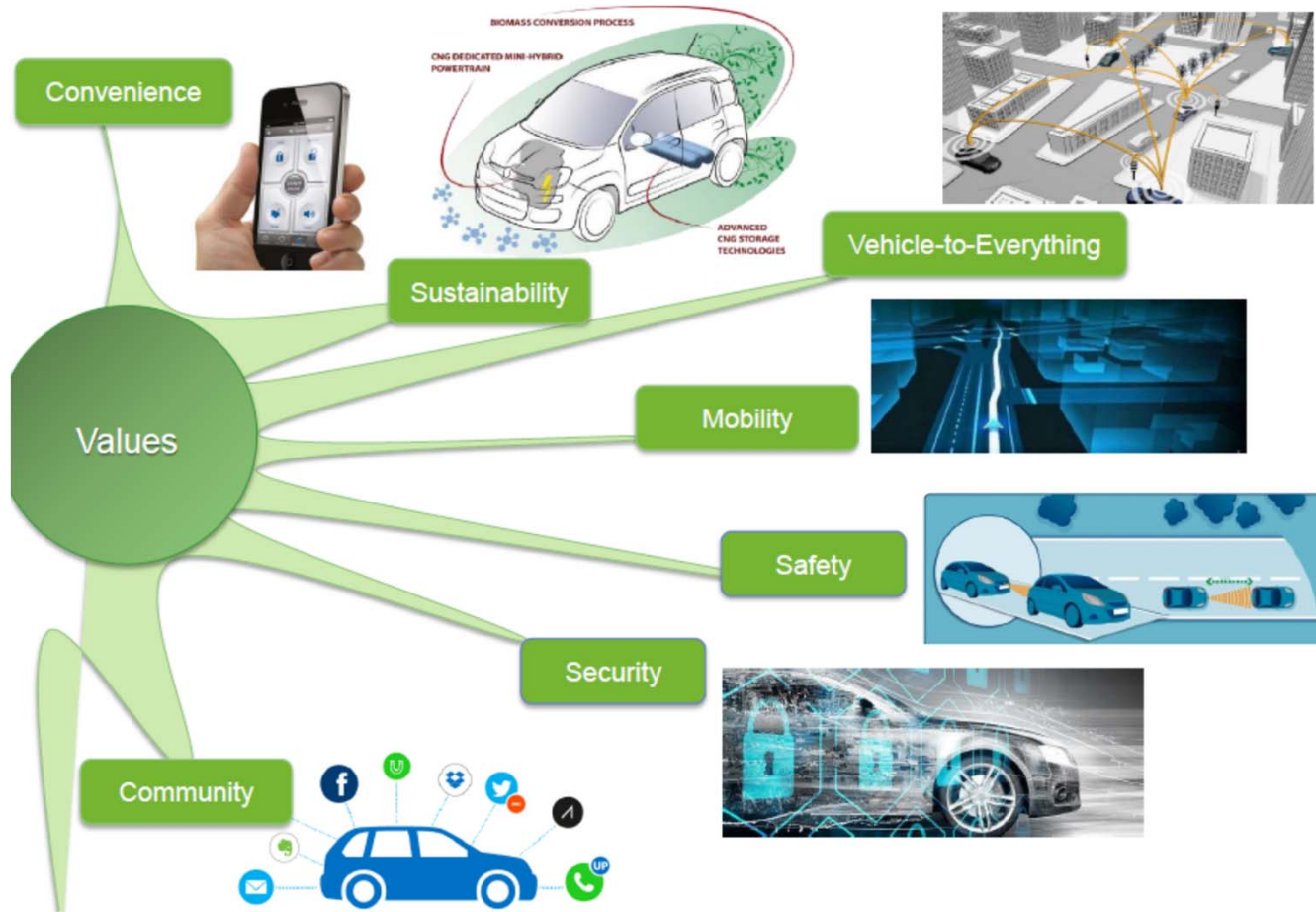
# CONNECTIVITY AND DATA

Getting the facts right

- Started with eCall
- Different kinds of connectivity and automation
- Not all vehicles are connected
- Not all data is available



# CONNECTIVITY SERVICES



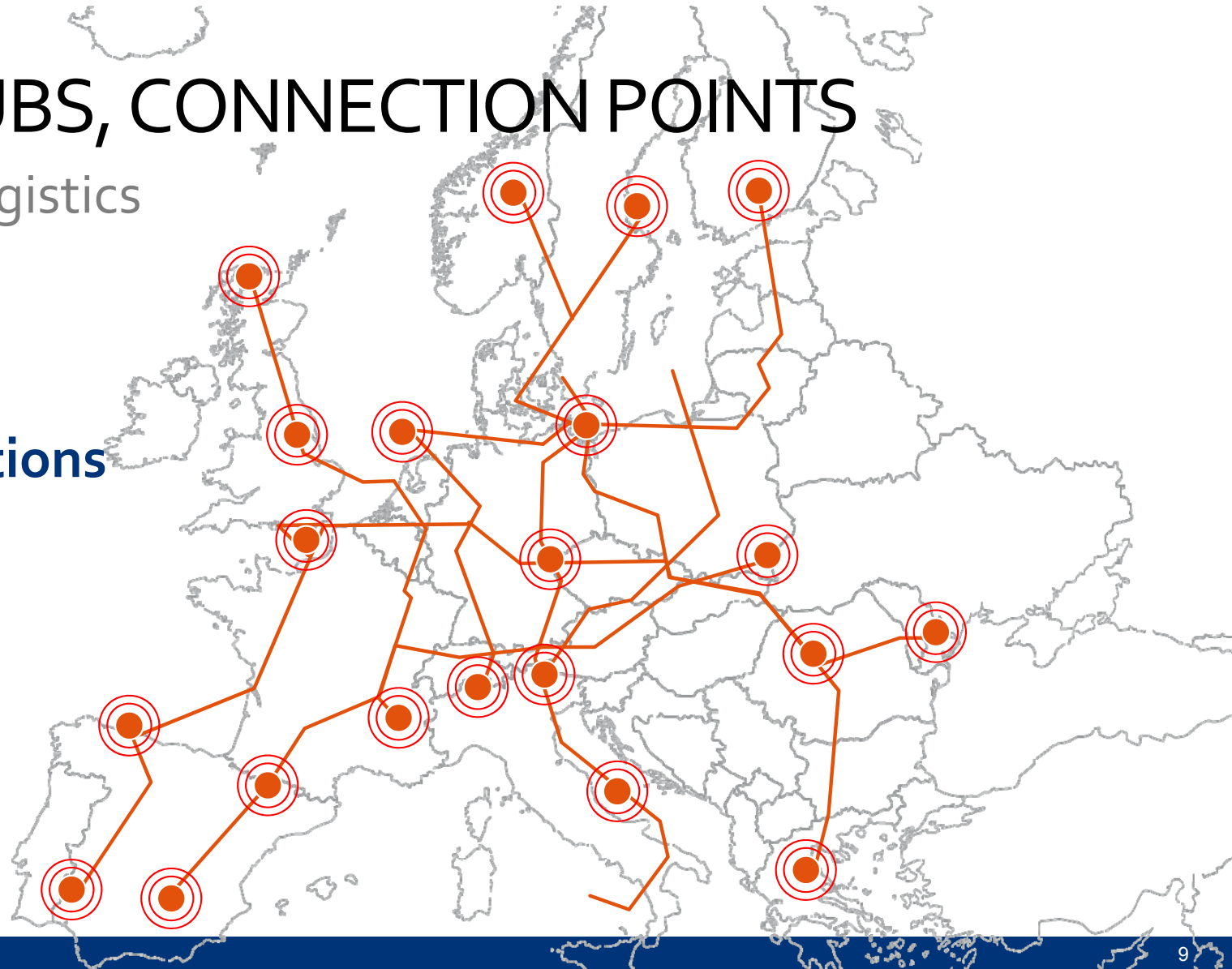




# MAIN HUBS, CONNECTION POINTS

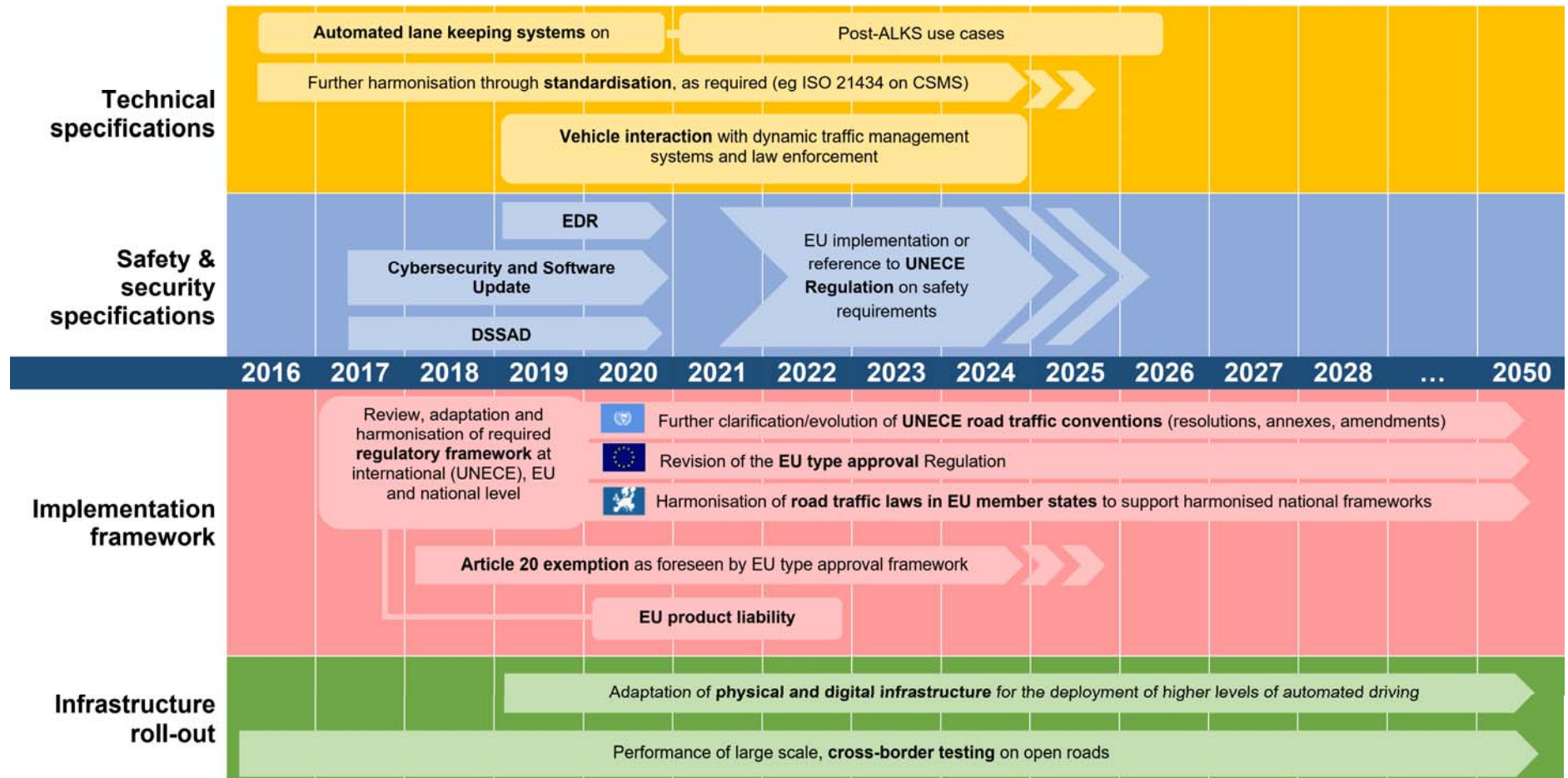
Use case: logistics

- **Ports**
- **Big cities**
- **Logistic junctions**





# ACEA ROADMAP ON AUTOMATION





# THE RIGHT LEGAL FRAMEWORK

UN Legislation   EU legislation   National Legislation

## TECHNICAL REGULATION / FUNCTIONALITIES

- Framework Regulation on AV – New regulation
- ALKS Motorway – R79 or New regulation
- AEBS – R131 (CV), New regulation (PC)
- Braking – R13, R13H
- Driver Monitoring – Part of ALKS
- Minimum risk Manoeuvre – Part of ALKS

## CYBERSECURITY

- Cyber Security Management System – New regulation (2020)
- Cybersecurity for CAD – New DR (GSR)

## SOFTWARE UPDATE

- Software OTA Update – New regulation (2020)

## LIABILITY AND ACCIDENT RECOGNITION

- DSSAD – New regulation (WPA 29 Informal group)
- EDR – New Delegated act (GSR – Based on US FMVSS)

## MUTUAL RECOGNITION

- Art. 20 Exemption Procedure guidelines (2019)

## DRIVER

- Driving Licences – New regulation (WP 1 Informal Group)
- HMI – Part of ALKS

## TRAFFIC RULES

- Evolution of the Geneva and Vienna Conventions
- Harmonisation of all national road traffic regulations

## ROAD INFRASTRUCTURE

- Road Signs – Regulation (EC) 1071/2009 (as harmonised WP1)
- Vehicle Interface with Dynamic Traffic management and law enforcement – New regulation
- RISM Directive – New directive (2019)
- Road Signs – National Laws on road signing to be updated

## ROAD WORTHINESS

- Periodical Technical Inspection – Directive 2014/45/EU

## SOCIAL LEGISLATION

- Driving time - Regulation (EC) No 561/2006
- Tachograph - Regulation (EU) N° 165/2014

# NEW MOBILITY SOLUTIONS

- **Innovative concepts**

- New models of ownership
  - Various car-sharing schemes: eg Car2Go/DriveNow
- On-demand mobility solutions
  - Ride sharing: eg BlaBlaCar and Uber
- Urban logistics concepts



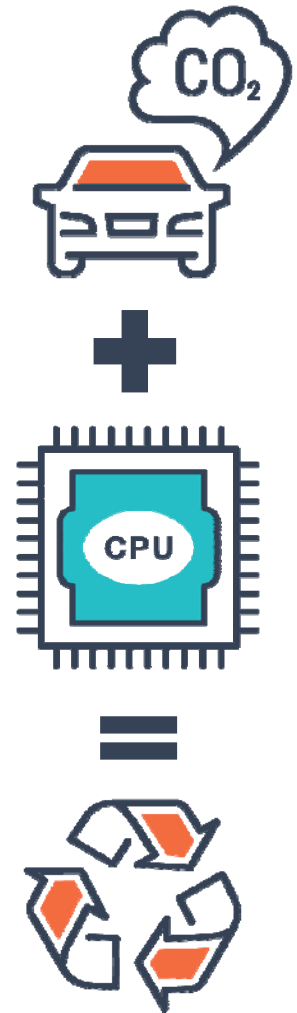
- **Auto manufacturers are evolving**

- From being 'just' producers of motor vehicles to networked mobility service providers



# FUTURE OF MOBILITY

- **The future of mobility is being shaped by:**
  - Decarbonisation
    - Alternatively-powered vehicles
  - Digitalisation
    - Connected and automated vehicles
    - New mobility solutions
    - Connected transport systems
    - Integrating transport modes
- **Cleaner, safer and smarter mobility eco-system**





# NEW PARTNERSHIPS



JOINT CALL TO ACTION FOR THE ACCELERATED DEPLOYMENT OF  
SMART CHARGING INFRASTRUCTURE FOR ELECTRIC VEHICLES



JOINT CALL FOR THE ACCELERATED DEPLOYMENT OF  
HYDROGEN REFUELLING INFRASTRUCTURE ACROSS THE EU



# NEW QUESTIONS

- **Automation in urban context**
- **Role of city logistics/delivery in urban areas**
- **From ADAS to autonomous systems: user trust & acceptance**
- **Mixed traffic**
- **Role of road authorities and cities**
- ...



*Thank  
you!*





**European  
Automobile  
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**ACEA represents the 15 major Europe-based  
car, van, truck and bus manufacturers**

**[www.acea.be](http://www.acea.be)**

**+32 2 732 55 50**

**[communications@acea.be](mailto:communications@acea.be)**



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