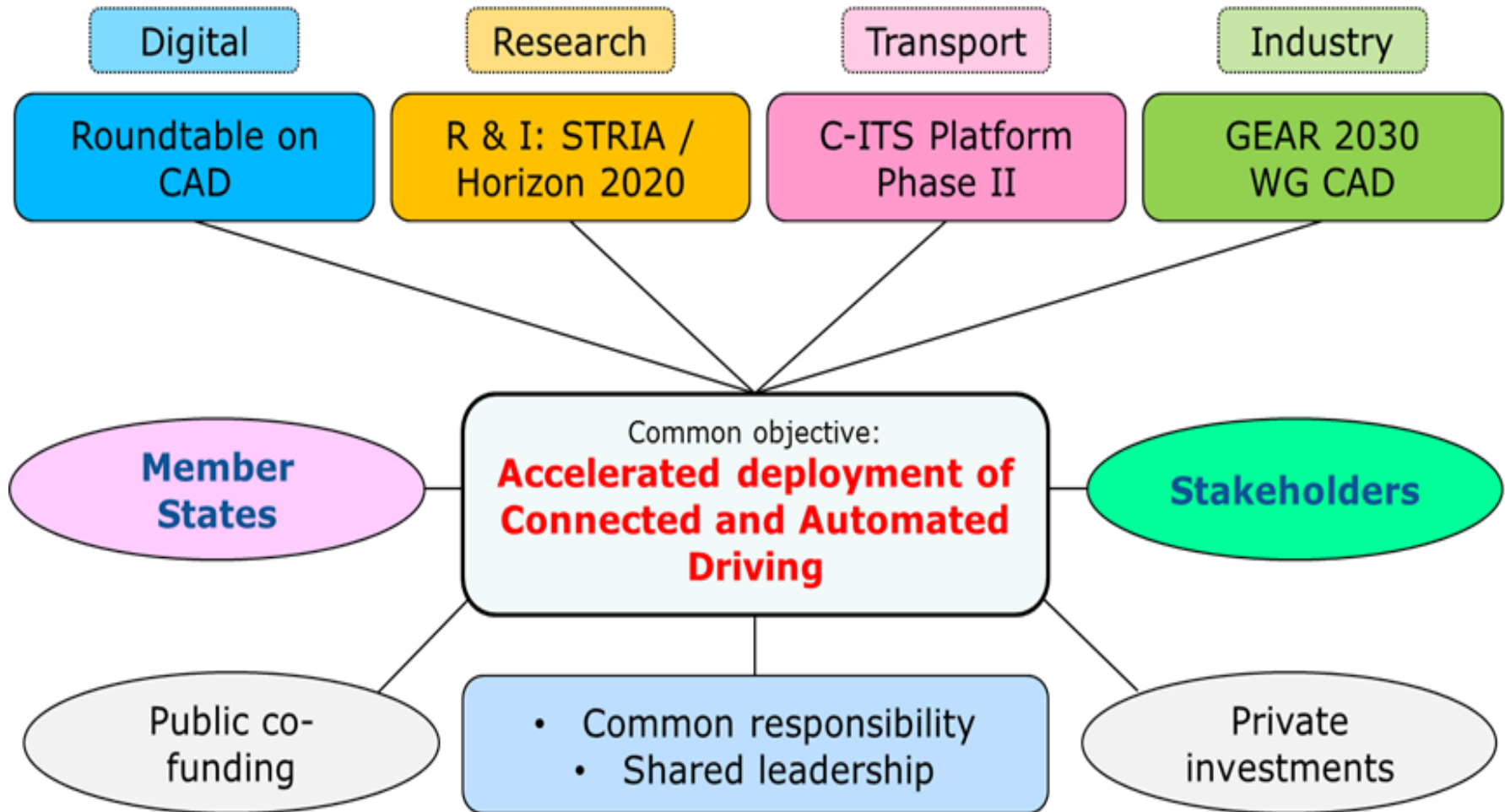


# Connected and Automated Road Transport EC Activities

**SIP-ADUS Workshop  
Special Session: Regional Activities and FOTs  
Tokyo, 15 November 2016**

**Ludger Rogge, European Commission**

# Connected and Automated Driving EC initiatives



# GEAR 2030 High level Group

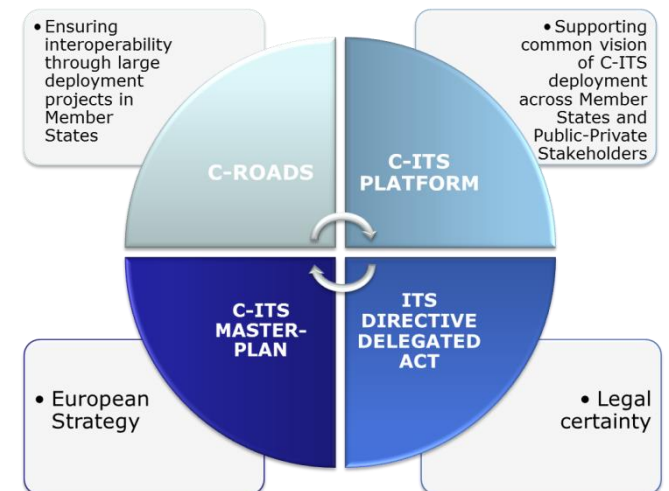
- ❑ Supports the EU cars industry to strengthen its competitiveness
- ❑ 3 areas of work:
  - ❑ the adaptation of the value chain to new global challenges
  - ❑ **Highly automated and connected vehicles**
  - ❑ trade, international harmonisation and global competitiveness.
- ❑ Working Group on "highly automated and connected vehicles"
  - ❑ Proposes actions to achieve a fast roll out of connected and automated driving technologies
  - ❑ Focus on legal & policy issues and financing tools
  - ❑ First recommendations will be delivered by end 2016



- ❑ Platform which fosters the dialogue between Member States, public and private sector on the deployment of cooperative and intelligent transport systems – C-ITS
- ❑ EC will develop a Master Plan for the deployment of interoperable C-ITS in the European Union by end 2016



## Learning by doing approach!



# Roundtable on Connected and Automated Driving

- ❑ Cross-sectorial dialogue between automotive and telecommunication & IT industry, Member States and other stakeholders
- ❑ Looks at digital aspects of connected and automated driving: network coverage, spectrum, standards, interoperability, cyber-security, etc.
- ❑ European Alliance between Telecom and Automotive industries
  - ❑ Counts today 37 companies including telecom operators, vendors, automotive suppliers and manufacturers
  - ❑ Will carry out a large scale pre-deployment project that will provide enabling connectivity (will start in 2017)



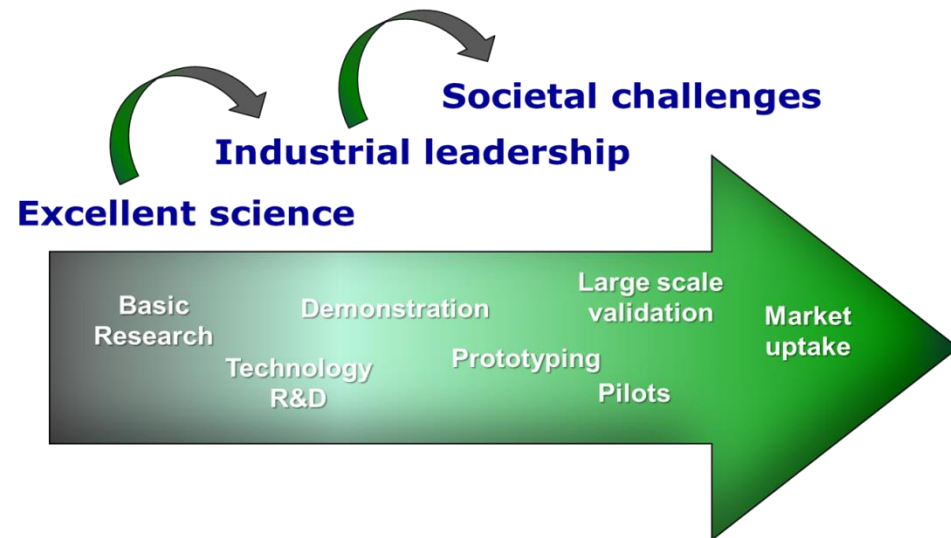
European  
Automobile  
Manufacturers  
Association



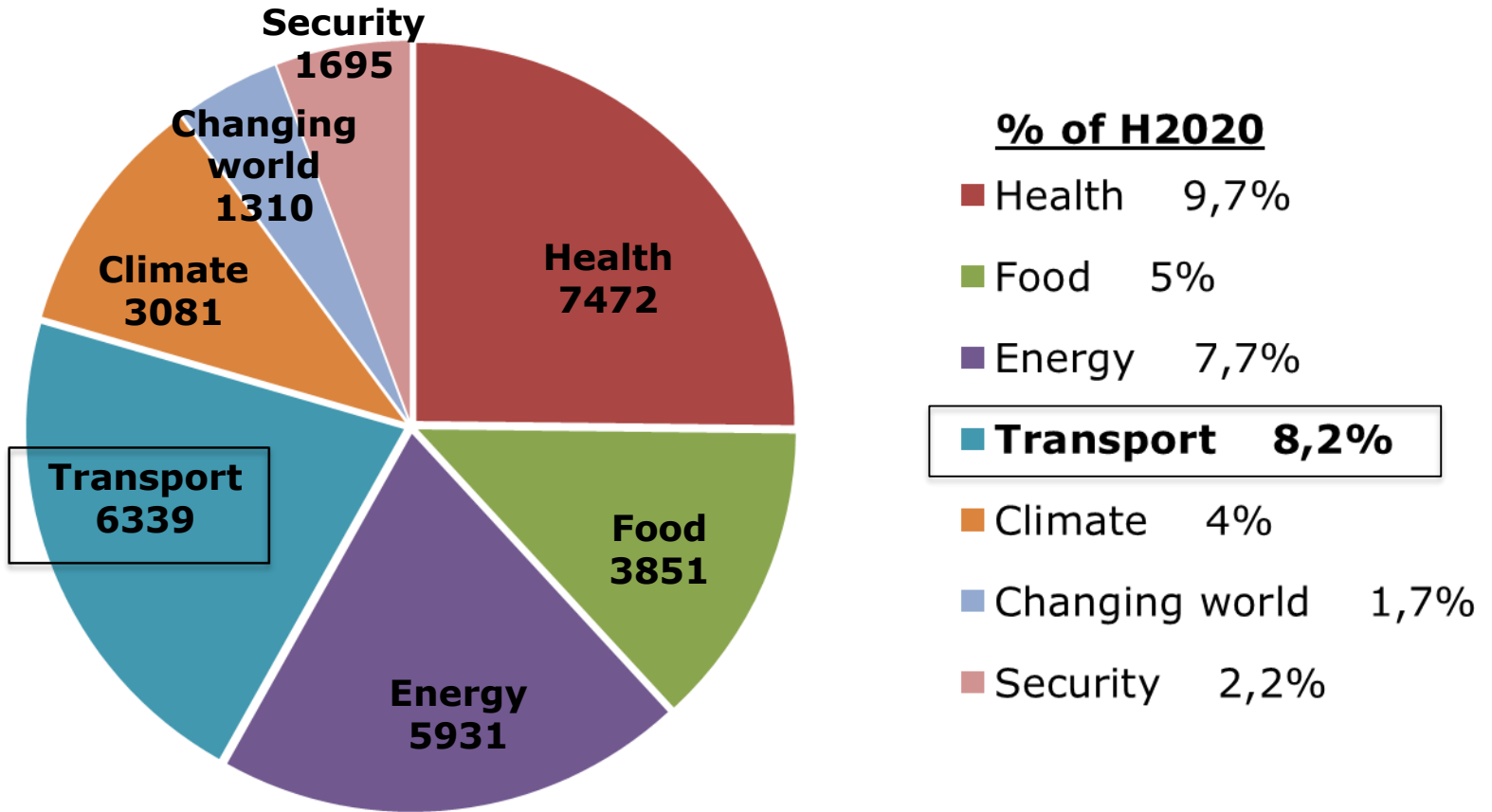
CLEPA  
European Association of  
Automotive Suppliers



- ❑ **EU Framework Programme for Research and Innovation**
- ❑ **€ 79 billion from 2014 to 2020**
- ❑ **Biggest multinational research programme in the world**
- ❑ **Covers the full innovation chain**
- ❑ **Funds research in all areas of science and innovation**
  - Excellent Science
  - Competitive Industries
  - Tackling global societal challenges



# Horizon 2020 – Societal challenges



## *'Mobility for Growth' (MG)*

- 1. Aviation**
- 2. Waterborne**
- 3. Safety**
- 4. Urban**
- 5. Logistics**
- 6. ITS**
- 7. Infrastructure**
- 8. Socio-economics**

## *'Automated Road Transport' (ART)*

## *'European Green Vehicles Initiative' (EGVIA)<sub>8</sub>*





- ❑ Automated Road Transport (ART):  
Key priority in the H2020 Transport Research programme
- ❑ Dedicated Call on ART: indicative budget for 2 years : € 114 Mio
- ❑ Focus of the ART Call
  - ❑ Support the **short term introduction of automated driving systems** for passenger cars, trucks and urban transport
  - ❑ "**Large-scale Demonstration Projects**" to test technologies in complex traffic and driving conditions

# Call "Automated Road Transport" 2016/17 - topics and budget

- ❑ Call 2016 (Closed) – Budget: €64 Mio
  - ❑ Automation pilots for passenger cars
  - ❑ Safety and end-user acceptance aspects of road automation in the transition period
  - ❑ Road infrastructure to support road automation
  - ❑ Coordination of activities in support of road automation
- ❑ Call 2017 (Open – Deadline: January 2017) - Budget: €50 Mio
  - ❑ ICT infrastructure to enable the transition towards road transport automation
  - ❑ Multi-Brand platooning in real traffic conditions
  - ❑ Full-scale demonstration of urban road transport automation

# H2020 – New large-scale demos

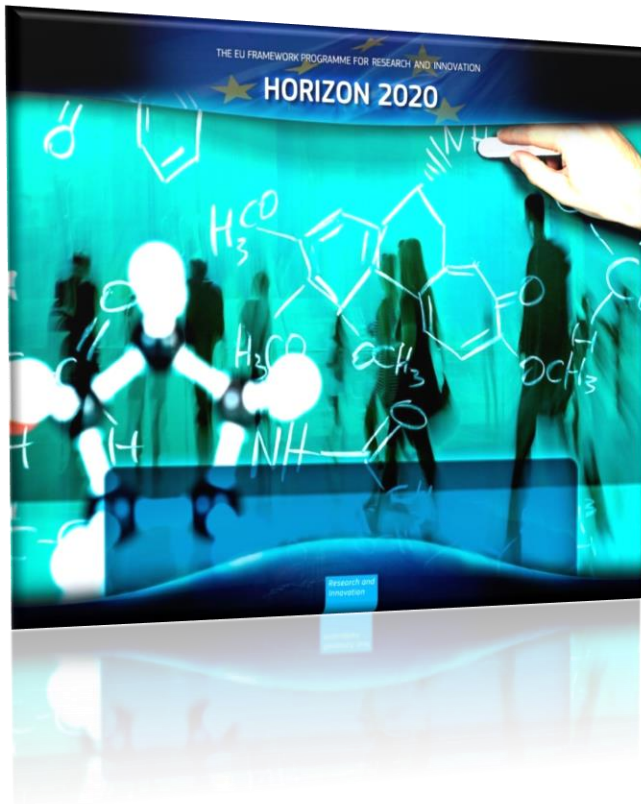


- ❑ **Passenger Vehicles (2017)**
- ❑ **Multi-brand Platooning (2018)**
- ❑ **Urban road transport automation (2018)**
- ❑ **Automated vehicles in a connected environment (2017)**



# Horizon 2020 – Open to the world

## How can Japanese partners get involved?



- ❑ All Horizon 2020 projects can include international partners
  - ❑ Applicants from non-EU countries are eligible to take part in Horizon 2020 programmes, even as coordinator
- ❑ Targeted Opening
  - ❑ In some topics, identified in the calls, proposals are encouraged to include international partners
- ❑ Twinning ?
  - ❑ Cooperation of established projects that are similar or complementary – on the basis of mutual interest
  - ❑ Aim is to exchange knowledge and experience and exploit synergies

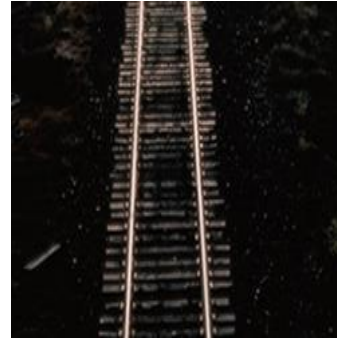
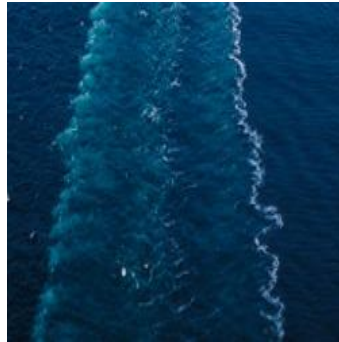
- ❑ Growing number of twinning activities in different areas
  - ❑ Automated Road Transport, ITS, road safety, road infrastructure
- ❑ Examples for twinning activities: exchanges of information, data, visits, methodologies, researchers, results, joint workshops, publications etc.
- ❑ First twinning arrangements between EC & US projects (early/mid 2017)





# **European Conference on Connected and Automated Driving**

**3-4 April 2017 in Brussels**



***Thank you  
for your attention!***

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DG Research & Innovation  
E-MAIL: [ludger.rogge@ec.europa.eu](mailto:ludger.rogge@ec.europa.eu)***

*Find out more:*

[www.ec.europa.eu/research/horizon2020](http://www.ec.europa.eu/research/horizon2020)

[www.ec.europa.eu/research/participants/portal/page/home](http://www.ec.europa.eu/research/participants/portal/page/home)