



**UNECE**



# Government Authorities' Coordination for Automated Driving and ITS

The Future Networked Car Symposium

Geneva, 22 March 2022

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# Agenda

A large purple triangle graphic that serves as a background for the agenda items. It is positioned on the left side of the slide and points towards the top right.

1. ERTICO partnership

2. Our Focus Areas

3. Automated driving, ITS and  
role of Authorities

4. ERTICO roadmap

Decorative wavy lines in shades of blue, green, and orange at the bottom left corner of the slide.



# 1. The ERTICO-ITS Europe Partnership





**Automated driving**



**Drones**



**Data exchange & data spaces**



**Traffic management**



**Artificial Intelligence**



**Mobility as a Service**



**Navigation**



**Mobility Apps**



**Transport and Logistics**



**Intelligent Infrastructure**



**Safety**



**Multimodality**



**Payment Systems**



**V2V & V2X Communication**



**eMobility**

# **ITS**

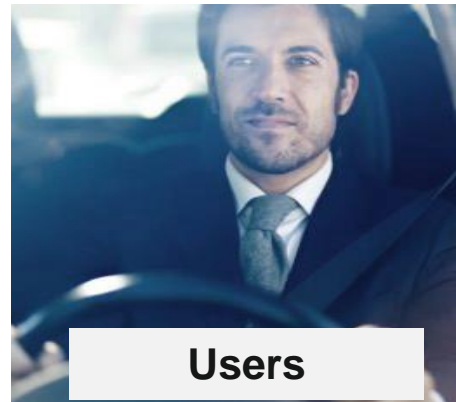
**Intelligent Transport Systems**



# ERTICO-ITS Europe Unique Public Private Partnership

- Powered by the European Commission in 1991
- Bringing together 120 Partners from 8 sectors
- Making mobility smarter, cleaner, safer and more efficient
- Moving of people, goods and data

[www.ertico.com](http://www.ertico.com)



# National, European & international focus

## Coordination with government authorities





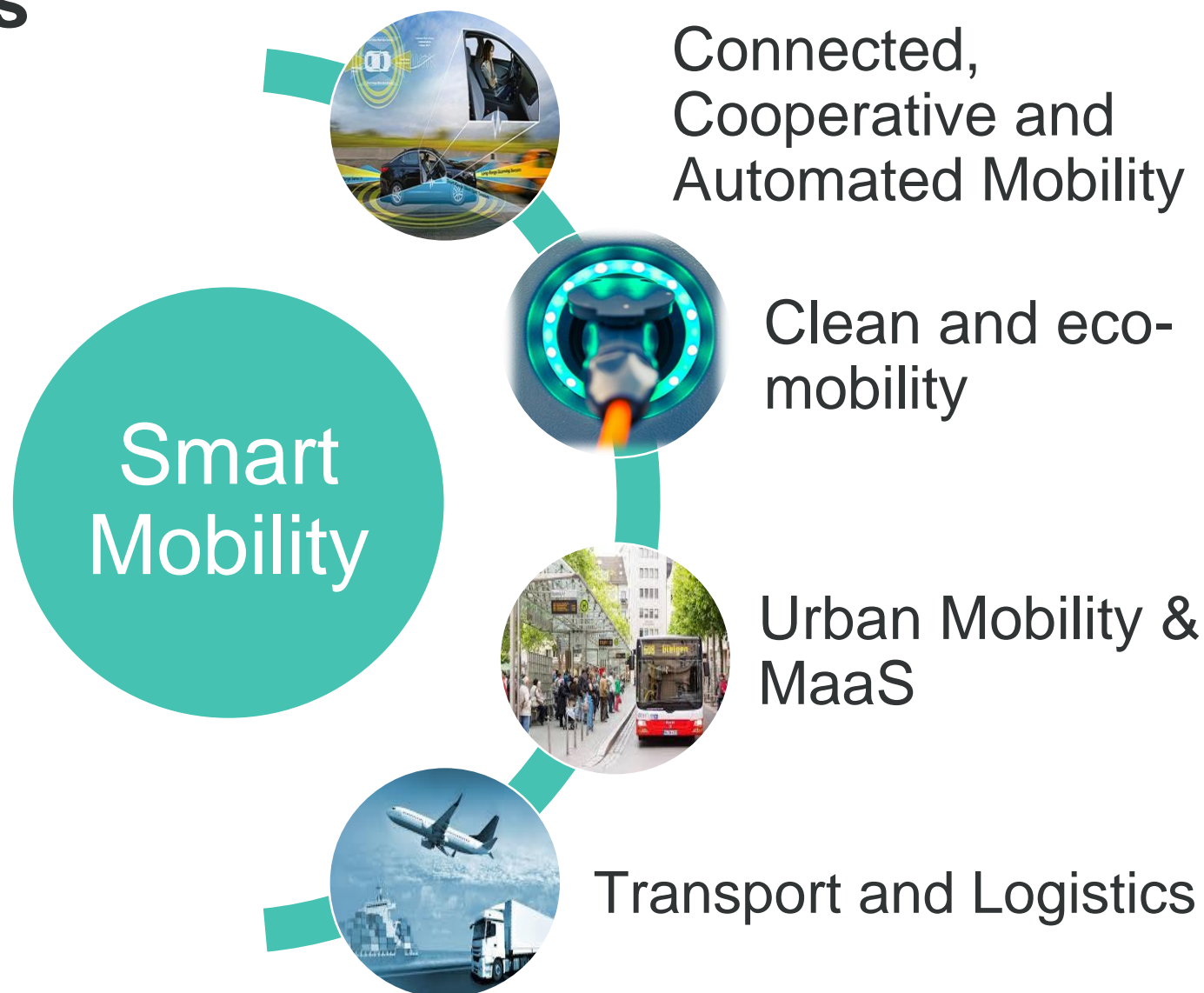
## 2. ERTICO & EU : Focus Areas





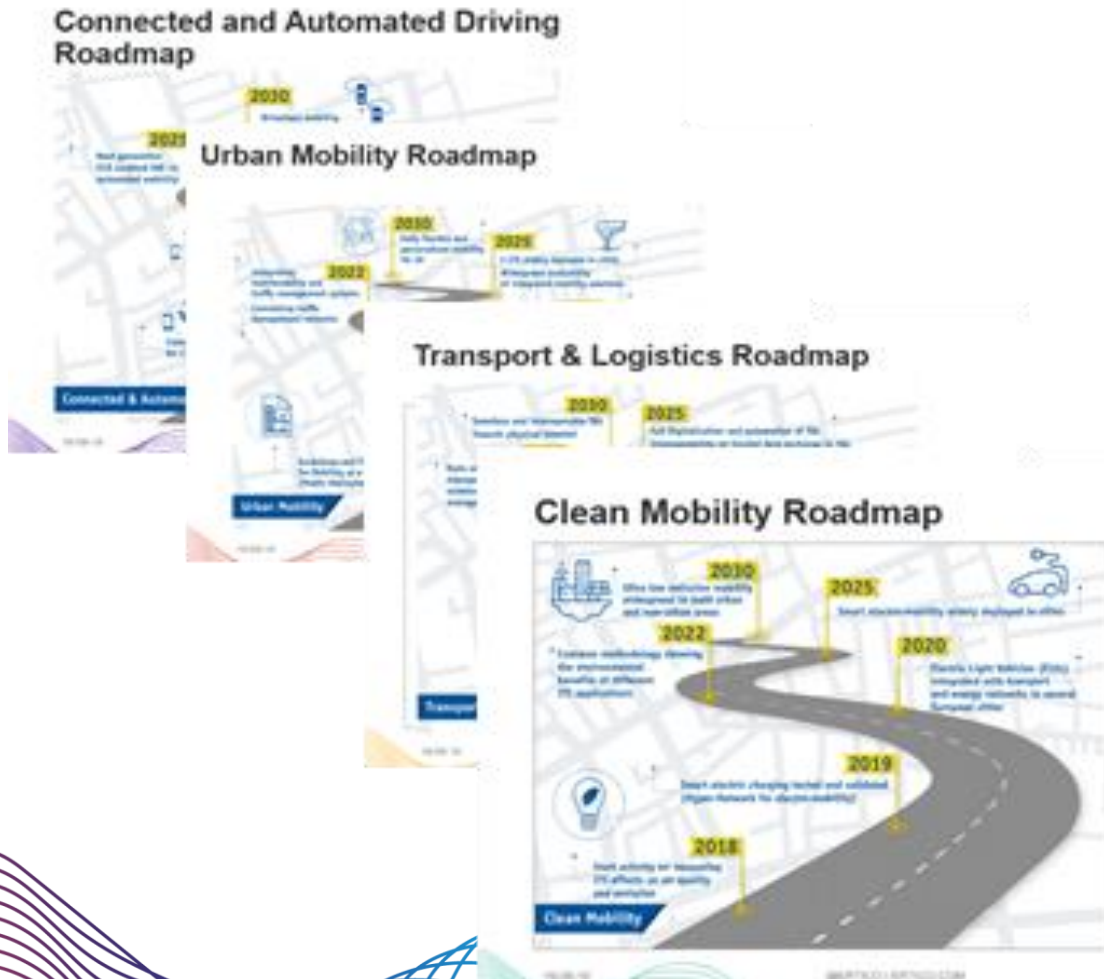
# ERTICO Focus Areas

**Smart Mobility**  
featured as a main  
pillar of a **Smart  
Society**





# ERTICO Roadmaps in synch with EU policy focus areas



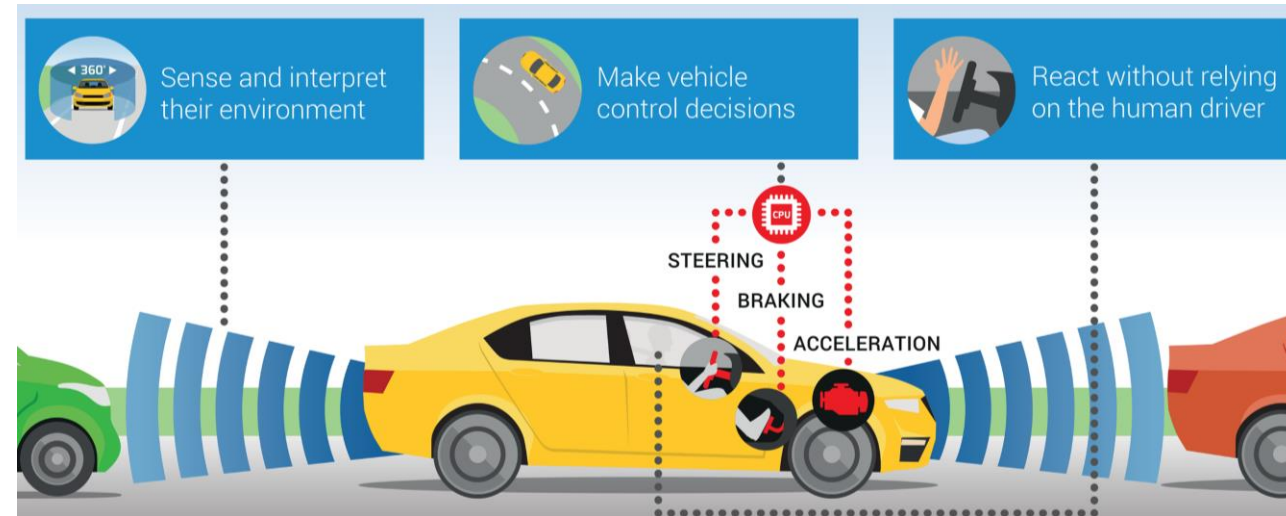
- Smart and Sustainable Mobility strategy
- Urban Mobility strategy
- Green deal
- Digital and data economy, AI and cybersecurity
- Competitiveness and industrial strategy



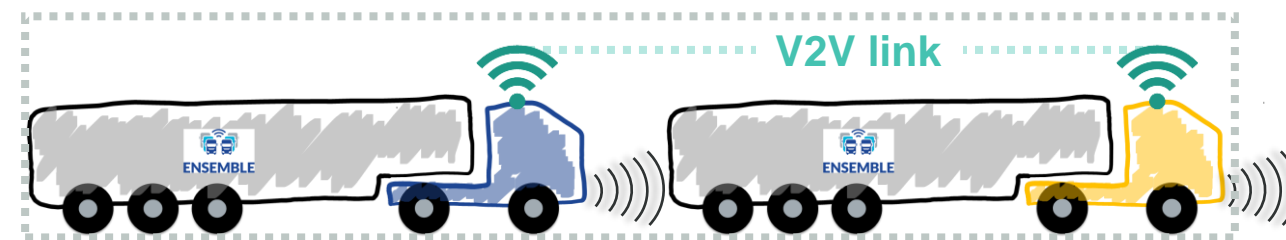
### 3. Automated driving, ITS and role of Authorities



# AD: international + regional + national + local touch



- ❑ **Goal: making the transport system more sustainable, smart and resilient**
- ❑ **Role of authorities differ: from hard core legislation for harmonisation, standardisation to enabling synchronisation and platforms, to coordinating investments and providing guidance**
- ❑ **Examples of different levels of intervention**
  - ✓ Vehicle regulations
  - ✓ Road regulations (road and traffic signs, traffic rules, physical infrastructure, licensing,...)
  - ✓ Sensing/interpreting the physical environment (digital twins)
  - ✓ Cloud & edge computing, HD maps and data spaces
  - ✓ Connectivity short range and long range
  - ✓ Spectrum regulations
  - ✓ Cybersecurity
  - ✓ Data protection and privacy
  - ✓ Standardisation



Pictures source:  
ACEA + ENSEMBLE project



# Adequacy on where to act and what to regulate

**Need for the global landscape but also subsidiarity**

## **Examples:**

- ✓ UN-ECE R 155 & 156 (vehicle cybersecurity & SW OTA updates)
- ✓ UN-ECE R 157 (ALKS)
- ✓ Vienna and Geneva Conventions on road traffic & their interpretation
- ✓ ITS directive and delegated acts
- ✓ World wide safety regulations, regional safety regulations
- ✓ Whole vehicle type approval, European type approval, national exemptions
- ✓ European GDPR
- ✓ Urban mobility & Urban Vehicle Access Regulations
- ✓ Data access, sharing and data spaces
- ✓ 5G spectrum allocation & deployment
- ✓ European Union decision on the harmonised use of radio spectrum in the 5,9 GHz frequency band for ITS

# Automated driving & mobility. Attention points.

## Time to prepare

- Road infrastructure, OEM/suppliers, traffic & transport industry, IT/telco operators, national and regional/local authorities and regulators
- Different lead times
- Different investment cycles

## Synchronisation

- Vehicles & roads
- Traffic centers, digital maps
- Traffic rules
- Testing, validation
- Availability and interoperability of (meta) data
- Continuity and interoperability of services, also across borders

## Comms technologies

- Tech neutrality
- But need for compatibility of technologies
- Role of legacy fleet and systems (example of eCall, connected driving)

## User's trust

- Safety and (cyber) security
- Artificial intelligence
- Data protection and privacy
- Affordability
- Digital skills



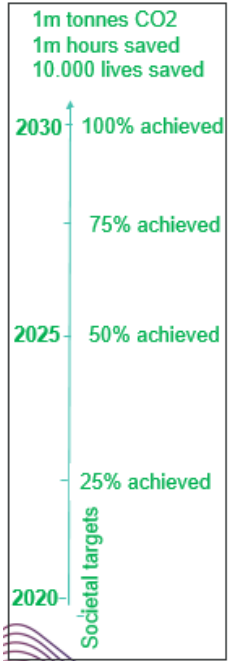
# 4. ERTICO European roadmap

## Bridging gaps between private and public

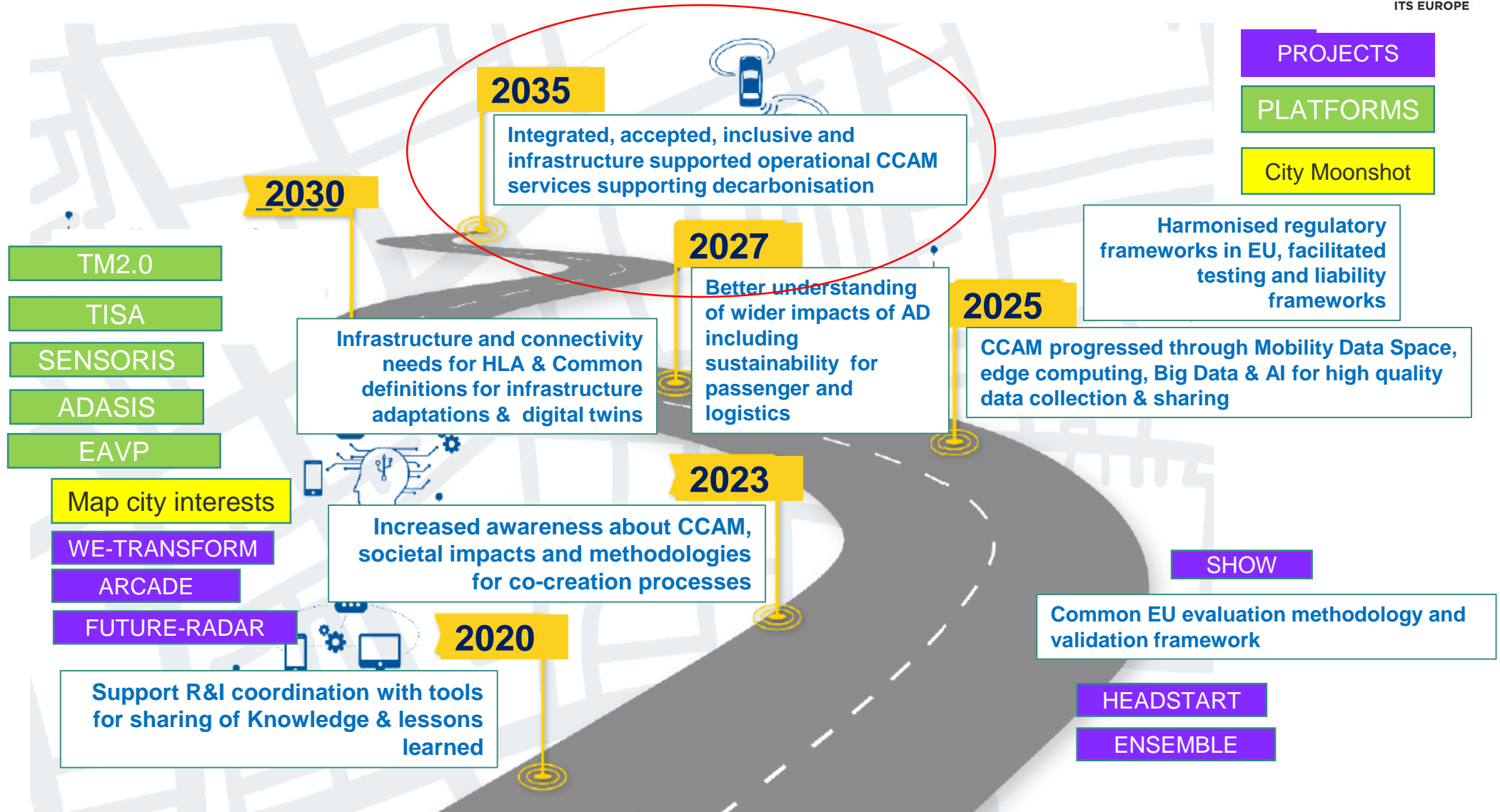




# Example of our roadmap on CCAM



- 5G-META
- 5G-LOGINNOV
- 5G-MOBIX
- 5G-DRIVE



- TM2.0
- TISA
- SENSORIS
- ADASIS
- EAVP

- Map city interests
- WE-TTRANSFORM
- ARCADE
- FUTURE-RADAR

- PROJECTS
- PLATFORMS
- City Moonshot

Harmonised regulatory frameworks in EU, facilitated testing and liability frameworks

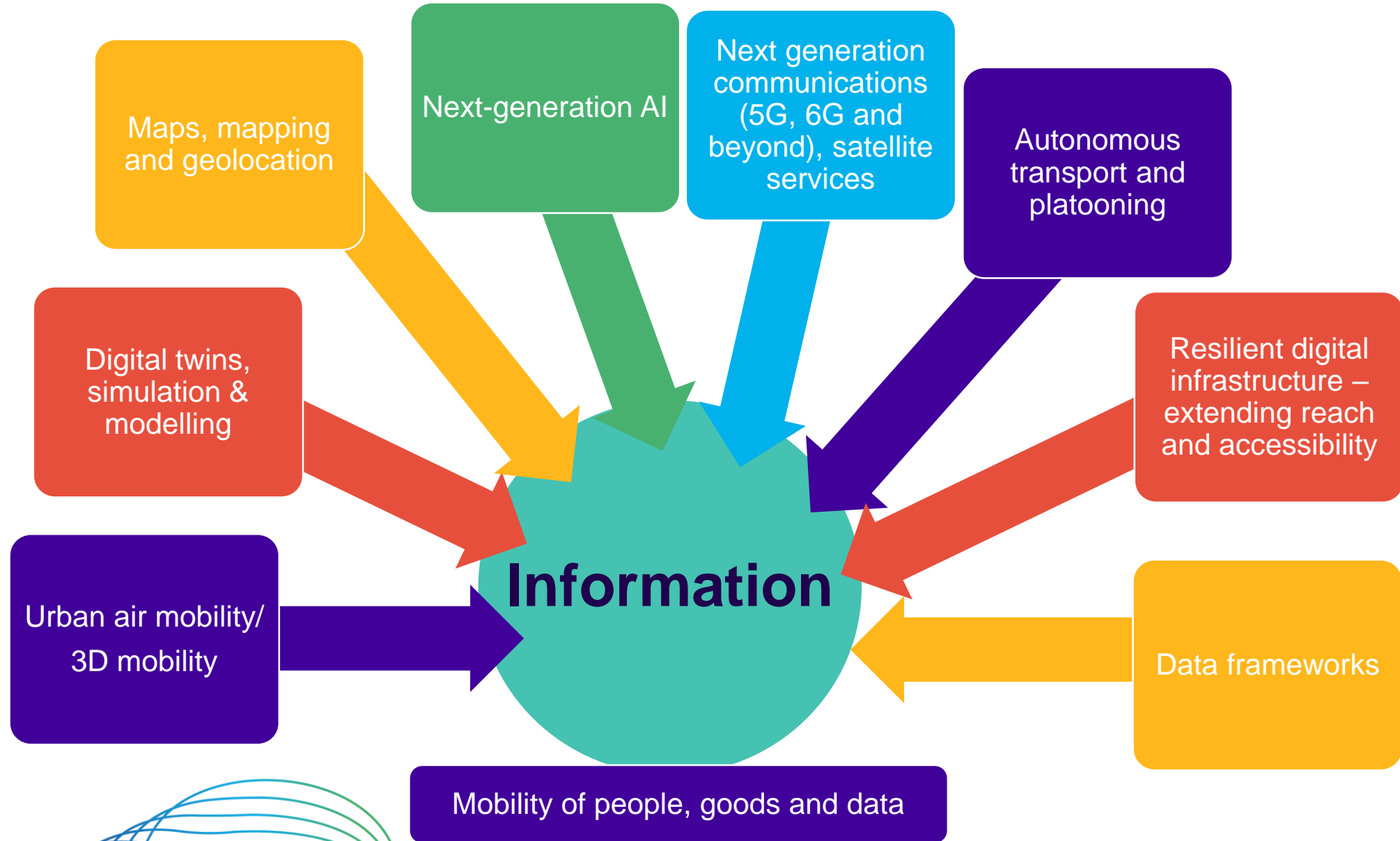
Common EU evaluation methodology and validation framework

- HEADSTART
- ENSEMBLE

SHOW

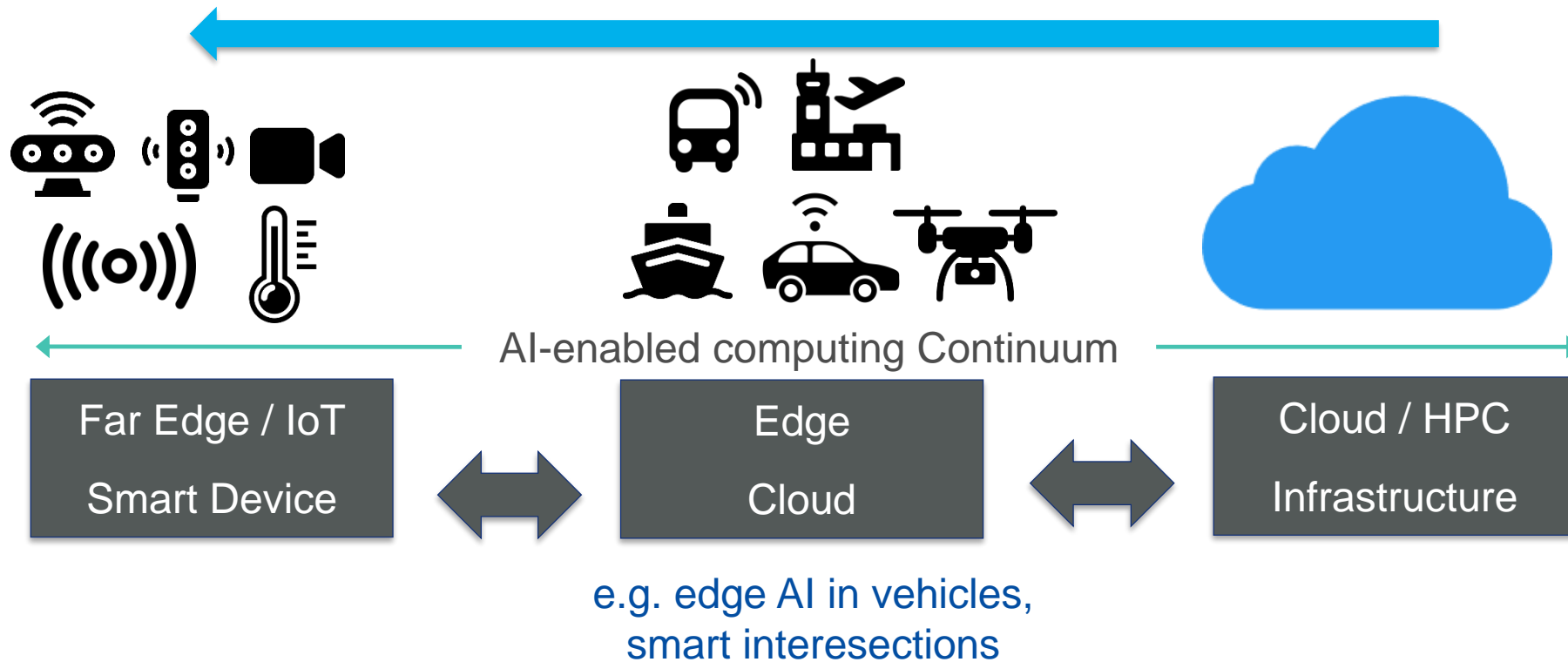
Connected, Cooperative & Automated Mobility

# Next generation solutions - common denominator



# Next generation solutions - aspects of information for the mobility of people and goods

From cloud to edge: bringing compute resources closer to the data





# 14th ITS European Congress – 30 May to 1 June 2022



- ❑ Toulouse, France's fourth largest city and the capital of the Occitane region with over 1,300,000 inhabitants
- ❑ A packed programme over three days with high level programme including four plenaries and a technical programme with five ITS themes
- ❑ Presentations, demonstrations and state-of-the-art exhibition under one roof in one unique site the MEET near Blagnac airport
- ❑ Webinars and info :  
<https://itseuropeancongress.com/>



# ERTICO

ITS EUROPE

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**“Alone we can do so little,  
together we can do so much”** Helen Keller

**ERTICO Partnership**

[ertico.com](http://ertico.com)

[@ertico](https://www.instagram.com/ertico)

# Useful links

- [www.ertico.com](http://www.ertico.com)
- Newsroom <https://erticonetwork.com/> (Interview and company news)
- Overview ERTICO and its current projects: [https://ertico.com/wp-content/uploads/2021/06/ERTICO-In-Review-2021\\_HD.pdf](https://ertico.com/wp-content/uploads/2021/06/ERTICO-In-Review-2021_HD.pdf)
- 4 minutes video latest annual overview: [https://www.youtube.com/watch?v=pSk\\_rTNxVH4&t=51s](https://www.youtube.com/watch?v=pSk_rTNxVH4&t=51s)

# Added value for its 120 + Partners

- EU funded project/consortia building for smart mobility
- Connecting the dots: bringing different stakeholders to the same table
- Helping to design pathways for research to be commercialised
- Generating provocative scenarios in technology development
- Innovation platforms
- Building links to similar communities across Europe and overseas
- Watching the horizon, especially globally, to help Partner business planning
- ITS congress community





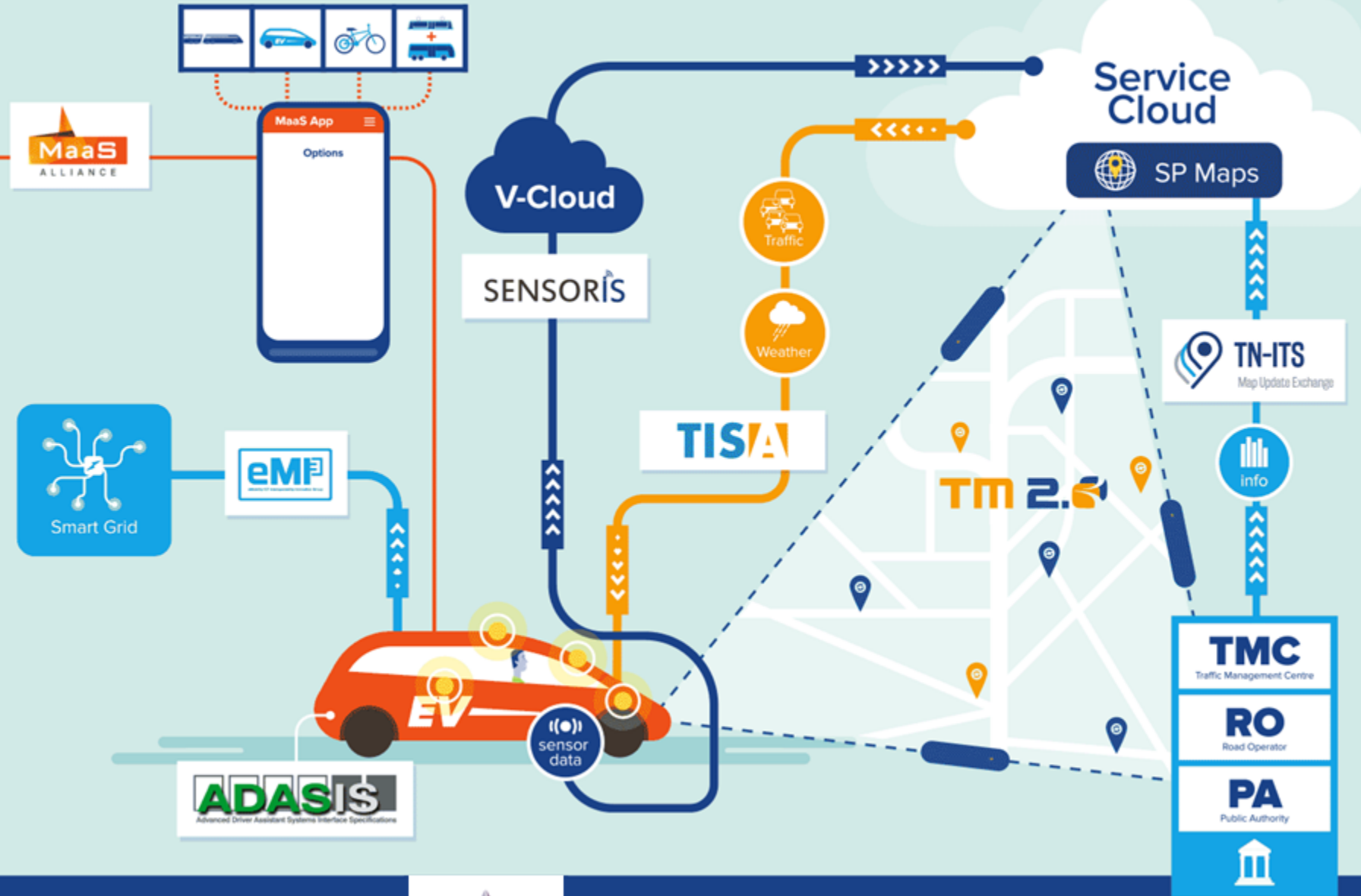
# ERTICO's Vision 2030 for mobility

- Connected
- Automated
- Digital
- Multimodal
- Electric
- Integrated
- On demand
- User-centric

## Mobility-as-a-Service or *MaaS*



# SMART MOBILITY DEPLOYMENT BY ERTICO PARTNERSHIP



# ERTICO'S ROLE IN MOBILITY

## STAKEHOLDER ENGAGEMENT

We always involve all mobility stakeholders. This way we are able to find and implement the most innovative solutions. We do this on a global scale thanks to...



### Cross-sectoral dialogue

Within the ERTICO Partnership we share knowledge and information through our workshops and events.

### International Cooperation

We promote cooperation and business opportunities on the global stage, with a focus on harmonised standards across the world.



### ITS Congress

Every year we organize an ITS Congress in Europe and co-organize an ITS World Congress, both the ultimate showcase for mobility services deployment.

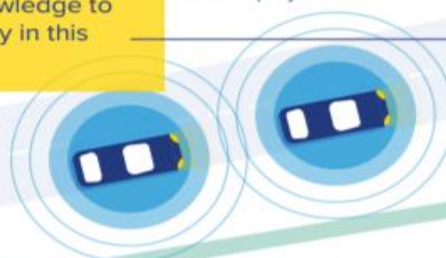


## THOUGHT LEADERSHIP

Together with our partners, we are recognised experts in smart mobility and we use our knowledge to pave the way in this field.

### Advocating for smart mobility

We are a technology-neutral supporter of mobility and work together with the European Institutions for innovation and deployment.



### Envisioning tomorrow's journey

We develop visionary papers on the future of smart mobility. The expertise within our partnership, helps to develop European mobility roadmaps.



## INNOVATION & DEPLOYMENT

# Expectations and benefits of digital economy

## Safety

- **ADAS and automation**
- **Reduce human errors**
- **Inclusive (aging/disabled)**

## Traffic efficiency

- **Optimized throughput**
- **Cooperative**
- **Dialogue among systems**

## New mobility

- **On demand & shared**
- **Multi-modal**
- **Single ticketing**

## Resources

- **Contribution to climate and environment**
- **Increase of productivity**
- **Better use of land/space**
- **Upgraded city planning**
- **Interoperable data spaces**