



# Automated mobility European policy framework, some national perspectives

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Leuven, 2 February 2026

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Traffic & Transport Industry



Connectivity Industry



Users



Public Authorities



A unique public-private partnership

Bringing together over **120 Partners** from all ITS sectors to make mobility smarter, cleaner, safer and more efficient.



Service Providers



Research



Vehicle Manufacturers



Suppliers

- ✓ Established in 1991 by the European Commission, public authorities and industry leaders
- ✓ Focus on innovation in the transport and mobility system through ITS
- ✓ European projects on research, innovation -> deployment
- ✓ Building bridges with the ITS community worldwide, ITS Nationals & thought leadership
- ✓ Organiser of the European/World ITS congresses

# European Union Competitiveness Compass



Reignite Europe's economy

29 January 2025

Three pillars:

1. Closing the **innovation gap**
2. Setting a joint roadmap for **decarbonisation and competitiveness**
3. Reducing excessive **dependencies** and increasing **security**

-> **New EU competitiveness fund**

# Industrial Action Plan for the Automotive sector



- European industry leaders, social partners, and stakeholders
- HL meetings since January 2025
- Industrial Action Plan 5<sup>th</sup> March 2025
- First regulatory package 16 December 2025
- Inclusive and collaborative process aimed at addressing critical challenges facing the sector
- 4 thematic streams led by 4 Commissioners



Reduce dependence  
on **fossil fuels**

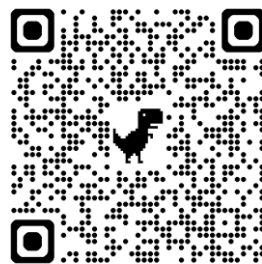


Reduce **production costs**  
to create **level-playing field**  
with international competitors



Unleash the **industry's**  
**innovative power**

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# Automotive Industrial Strategy

## Chapter on Innovation and Digitalisation

Today's focus

### Strategic direction and pre-competitive dialogue

*Focus on innovation for the vehicle of the future*



Connected and Autonomous Vehicle Alliance (ECAVA)

### Deployment of Autonomous vehicles



3+ Large-scale cross-border test beds /regulatory sandboxes

## Industrial Action Plan for the Automotive Sector

More **competitive**,  
more **innovative**,  
more **connected**

### R&I investments



Current and future Automotive R&I investments on EU and MS level

### Harmonised regulatory rules for the single market



Harmonised rules for testing and deployment across public roads



# Towards a single market for autonomous driving

Establishment of large-scale cross-border testbeds for autonomous vehicles starting in 2026

Boost regulatory framework with rules on unlimited series of vehicles of automated driving systems by 2026

Boost single market integration for Driving Automation through harmonised rules for testing (2026) and deployment across EU



# Regulatory frameworks: complex labyrinth



- **UN Vienna & Geneva conventions** - road traffic rules, signs
- **UN R157** — Automated Lane Keeping (Level 3)
- **UN R171** — Driver Control Assistance (Level 2)
- **UN R155** — Cybersecurity
- **UN R156** — Software Updates
- Global technical regulation package on **automated driving systems** (January 2026)

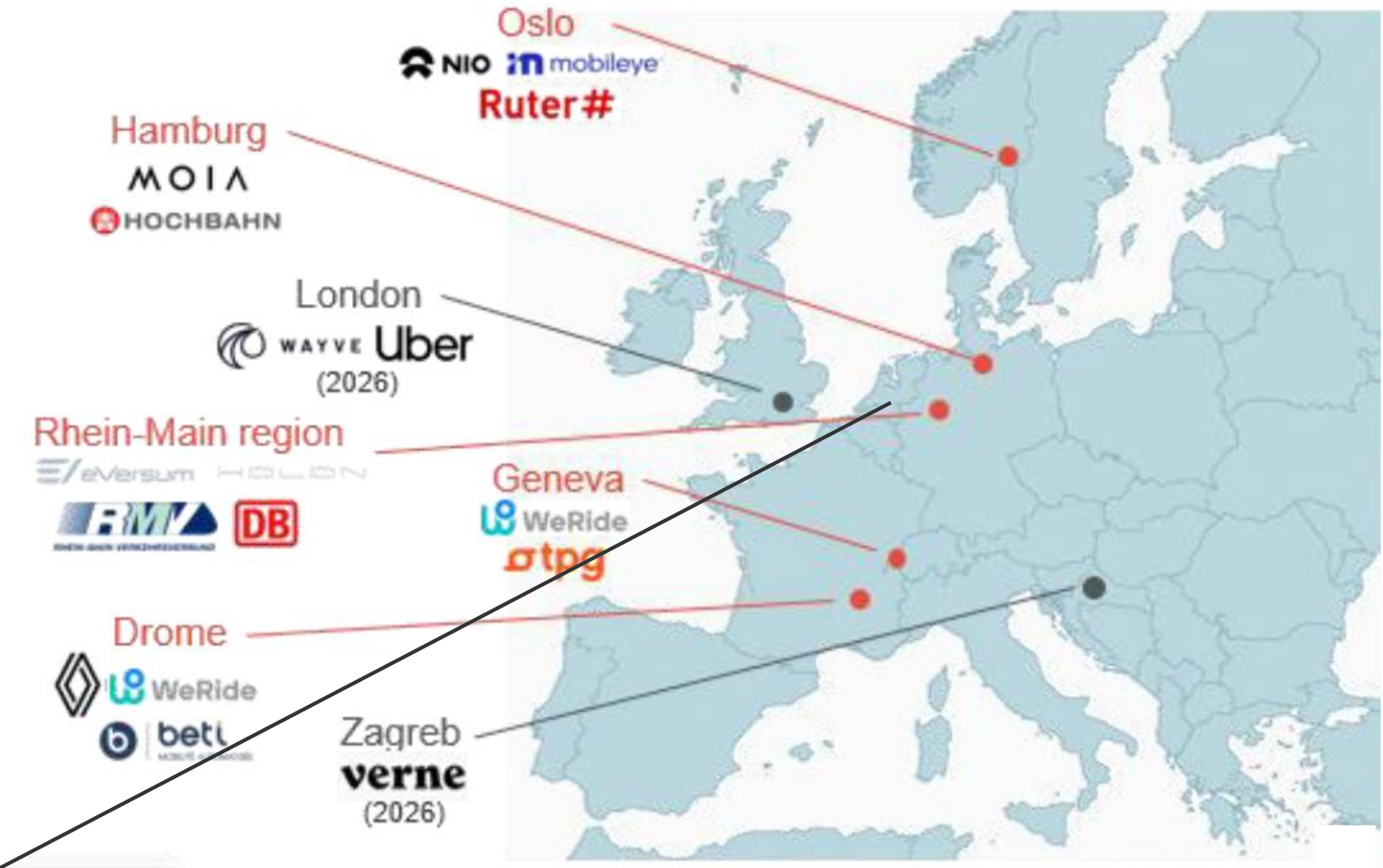


- **General Safety Regulation (EU) 2019/2144** -> basis for L3+ automated vehicles
- **EC Implementing Regulation (EU) 2022/1426** -> EU Type-Approval
  - ✓ Rules for ADS -> approval of L3/L4 vehicles within defined ODDs
  - ✓ Focus on automated valet parking, robottaxis and hub-to-hub freight
  - ✓ Requirements on safety, HMI, data recording, cybersecurity, software updates
  - ✓ Interpretation and guidance documents (JRC)
- **Upcoming regulatory package** (harmonization/mutual recognition, based on work on ECAVA and cross-border testbeds)

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+ **National/regional/local regulations** (traffic rules, use of vehicles on the road)

# From testing & demos to deployment



*selected activities. not an exhaustive representation*

Today ->



CCAMBassador

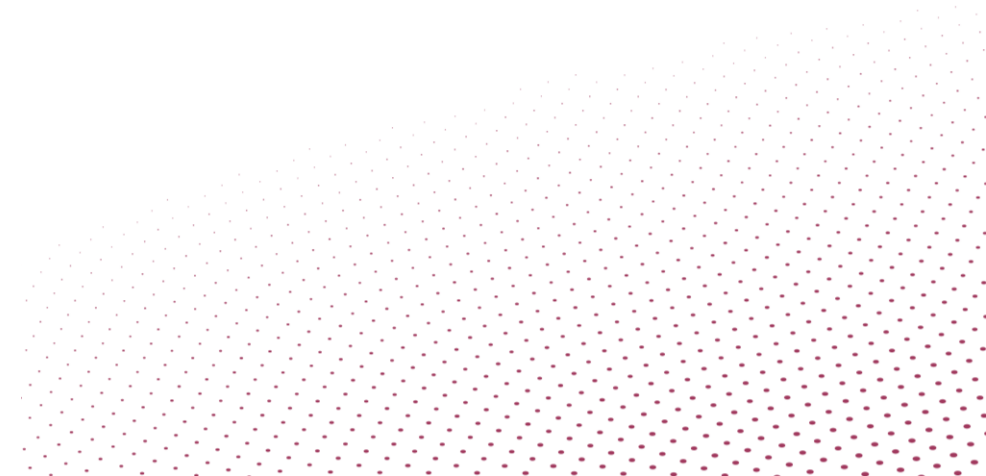


THE CCAMBassador PROJECT IS FUNDED BY THE EUROPEAN UNION HORIZON EUROPE WORK PROGRAMME



## Road traffic rules (Vienna Convention, Belgian traffic code)

- Still largely written for human drivers
- Limited legal clarity on priority rules, interaction with vulnerable road users, mixed traffic, remote operation and fallback behaviors
- Need for EU-level interpretation or adaptation of traffic rules for ADS, especially for low-speed shuttles in urban space





## Safety Validation & Type Approval EU framework

- EU GSR 2019, ADS Implementing Act 2022 exists
- But safety assessment remains largely national, fragmented and inconsistent
- Different testing, validation and permit procedures per Member State
- To come: harmonised EU safety assessment methodology for automated shuttles
- Mutual recognition of safety approvals across Member States
- Clear pathways from pilot → deployment → scaling

-> Focus of FAME & CCAMBassador EU funded projects coordinated by ERTICO





## Liability & Insurance

- Liability still mainly based on driver-centric concepts
- Open questions: Allocation of responsibility between operator, manufacturer, software provider, remote supervisor
- Handling of shared control and system failures





## AI, data & cybersecurity

- AI Act (high-risk AI systems)
- Cyber Resilience Act
- Data protection and data access rules
- Practical compliance guidance for ADS operators needed
- Cybersecurity certification tailored to automated public transport

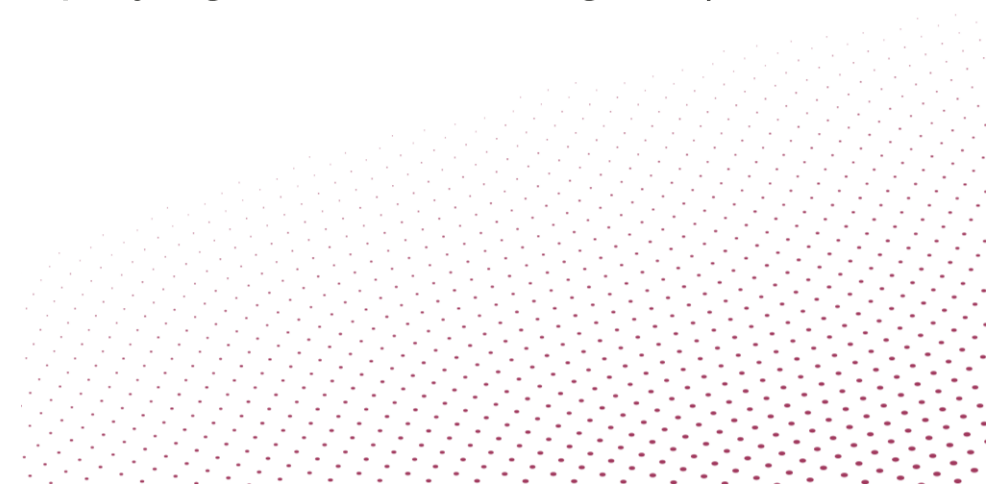




**“Enable a future oriented stable corridor for public and private operators in automated driving systems for people and goods.”**

This requires:

- Dialogue national/cross-regional with public & private operators + civil society
- Lasting funding support (not a one-off)
- Streamlined policies and regulations (ideally a level playing field across regions)
- Leadership, courage and determination



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its

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27-29 APRIL 2026

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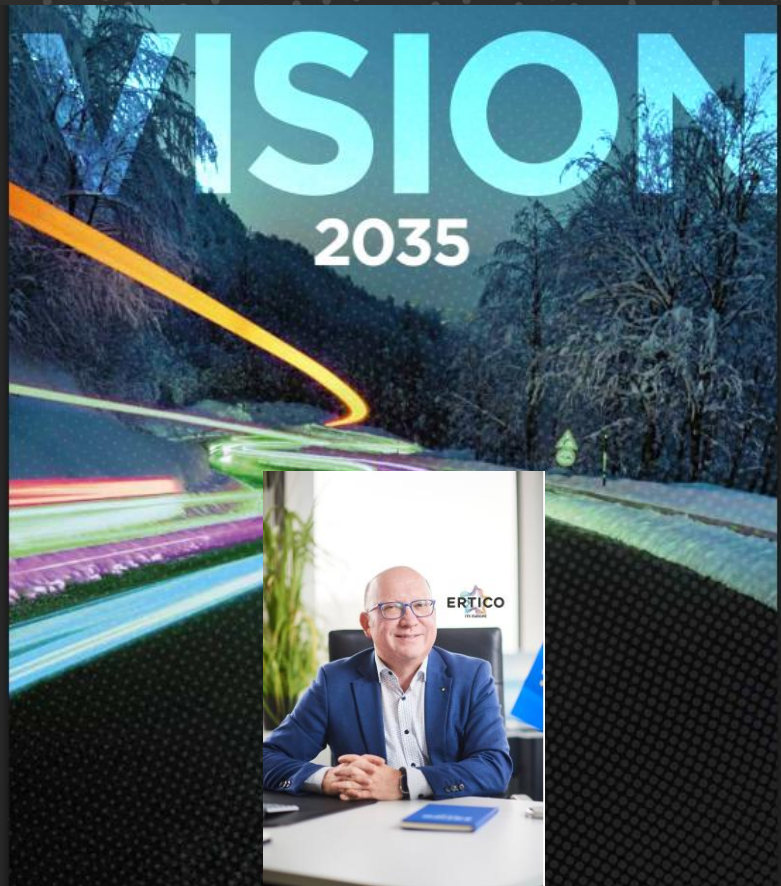


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# Back-up



# European Connected and Autonomous Vehicle Alliance (ECAVA)



## Tasks

### Foster collaboration

Define strategic objectives, targets, technology roadmaps, collaboration agreements

### Identify investment

Identify and promote synergies for the joint development and deployment of next-gen automotive technologies

### Comparative Analyses

Of technological advances between Europe and other regions to address main EU gaps

### Recommendations

To the EU regulatory framework on barriers for connected and autonomous vehicles in Europe

## 4 Working Groups:

- **Software-Defined Vehicles (SDV):** scaling up the common open-source ecosystem, targeting rapid industrialisation, and exploring collaboration on non-differentiating building blocks in application domains like autonomous driving.
- **Artificial Intelligence and Data:** promoting the joint development of AI models and data sharing, leveraging AI Factories.
- **Automotive Hardware:** reinforcing capacities through enhanced cooperation on computing platforms and chiplets, in coordination with the Alliance on Processors and Semiconductor Technologies.
- **Autonomous Vehicle Deployment:** accelerating autonomous vehicle deployment under the Autonomous Drive Ambition Cities initiative announced in the Apply AI strategy, as part of the large-scale cross-border testbeds announced in the Automotive Action Plan.



# Cross-border testbeds for AD

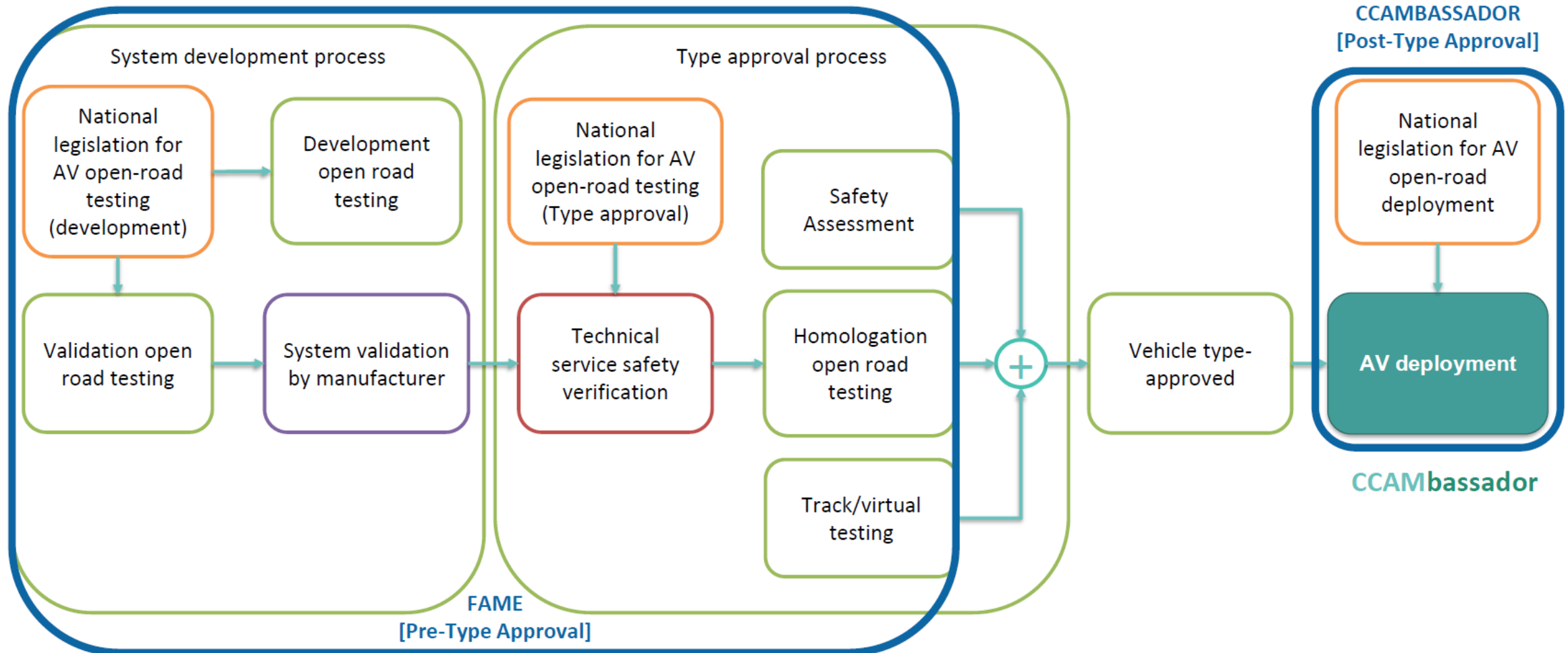
- In the EU, the conditions for road testing and commercial operations of fully autonomous vehicles are less favourable than in the US and China. This gives competitors in these jurisdictions a significant head start.
- **To boost market readiness and commercialisation** of autonomous vehicles, the Commission will work with Member States to rapidly establish **at least three large-scale cross-border testbeds or corridors and related regulatory sandboxes**.
- Medium-sized cities willing to play a pioneering role should be included.
- These testbeds will allow for **at-scale pre-deployment of autonomous vehicles, both for passenger and goods transport**.
- The Commission also commits to further assess the potential for automated vehicles integration in the transport system through **communication between vehicles and infrastructure**.



## Use cases

- Public transportation: busses, **shuttles**
- Freight transportation: long distance, short distance
- On demand mobility: ride hailing, ride sharing

# Harmonisation for testing & deployment



## Congress Topics



### 1. Safety and resilience through intelligent systems

Deployment of intelligent systems –including AI, V2X, predictive analytics, and cybersecurity –to enhance user protection, ensure infrastructure continuity, and address safety in increasingly automated and complex networks.



### 2. Multimodal mobility system management

Integrated and inclusive mobility across all modes, powered by real-time data, demand-responsive transport, MaaS, and digital orchestration to optimise user journeys, reduce congestion, and improve accessibility.



### 3. Smart and sustainable logistics in the digital era

Digitally enabled, low-emission logistics –linking automation, AI, and multimodal infrastructure to support resilient supply chains, efficient urban freight, and innovation in ports, terminals, and corridors.



### 4. Enhancing transport and mobility beyond the road

Smart and connected solutions for rail, air, and waterborne modes, including automation, satellite-based services, UAM, and interoperability strategies to enable a truly multimodal, decarbonised transport ecosystem.

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