



Smart & sustainable mobility

The European landscape

New challenges

ITS Romania Congress 2023
Plenary Session day 1

25th September 2023
Joost Vantomme
CEO ERTICO-ITS Europe



ITS Romania
CONGRESS 2023
IASI, 25-26 SEPTEMBER 2023



Automated driving



Drones



Data exchange



Traffic management



Artificial Intelligence



Mobility as a Service



Navigation



Mobility Apps



Transport and Logistics



Intelligent Infrastructure



Safety



Multimodality



Payment Systems



V2X Communication



eMobility

ITS

Intelligent Transport Systems



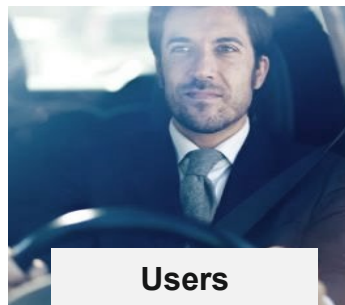
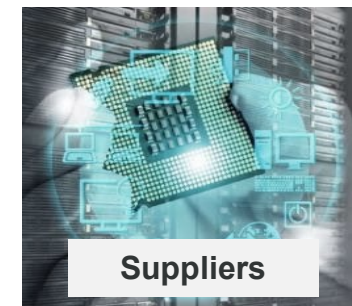
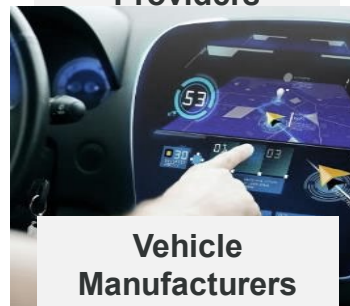
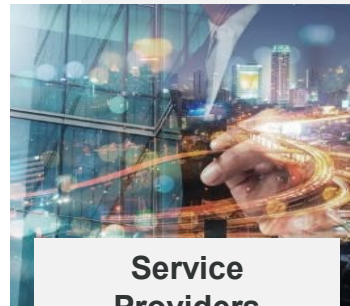
ERTICO-ITS Europe

A Public Private Partnership

Bringing together
> 125 Partners from 8 mobility sectors
since 1991 to make mobility **smarter**,
cleaner, **safer** and **more efficient**.

Geographical scope: EMEA (Europe,
Middle East, Africa)

www.ertico.com



Our four Focus areas and roadmaps in synch with EU policy focus areas



Connected and Automated Driving Roadmap

2025 Near-governor CAV enabled full automated mobility

2030

Urban Mobility Roadmap

2022

2025

2025

Transport & Logistics Roadmap

2030

2025

Clean Mobility Roadmap

2030

2025

2022

2020

2019

2018

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

European policy context



European Green Deal



- Increasing the uptake of **zero-emission vehicles**
- Making **sustainable alternative solutions** available to the public & businesses
- Supporting **digitalisation & automation**
- Improving **connectivity & access**

- Establishment of EU-wide common, interoperable data spaces including a **Common European mobility data space**
- Review of the ITS Directive and its Delegated Regulations
- Stronger coordination mechanism **federating National Access Points**





- Making the EU transport system **sustainable, smart and resilient**
- **Automated mobility** deployed at large scale by **2030**
- **82 initiatives** in 10 key areas
- Deployment and management of ITS and connected and automated mobility, facilitate cross border AV, recharging infrastructure, 5G

- Deliver at least **100 climate-neutral and smart European cities** by 2030
- Ensure these cities are **experimentation** and **innovation hubs** to support all European cities to become climate-neutral by 2050.
- **112 Mission Cities** selected

Objective
1

Sustainable Mobility

AN IRREVERSIBLE SHIFT TO ZERO-EMISSION MOBILITY

-  90% reduction in transport emissions;
-  All transport modes are made more sustainable;
-  Sustainable alternatives are available;
-  Right incentives are in place for sustainable choices.

Objective
2

Smart Mobility




ACHIEVING SEAMLESS, SAFE AND EFFICIENT CONNECTIVITY

-  Seamless **multimodal** transport based on digital solutions;
-  Unleash full potential of **data**;
-  Develop and deploy **connected**, cooperative, and automated mobility services;
-  Paperless freight transport in favour of fast, digital procedures.

Objective
3

Resilient Mobility

A MORE RESILIENT SINGLE EUROPEAN TRANSPORT AREA: FOR INCLUSIVE CONNECTIVITY

-  Reinforced Single Market:
 - more investment in infrastructure and fleets
 - deepening and enforcing internal market;
 - making our system crisis proof.
-  Fair and just mobility (that is affordable and accessible);
-  Enhanced safety and security.

Efficient & Green MOBILITY



New ITS priority areas

Information & mobility services



Travel, transport & traffic management services



Road safety & security



Cooperative, connected & automated mobility



Changing urban mobility



Supporting Member States, regions and cities as they develop safe, accessible inclusive, smart, resilient and zero-emission urban mobility well ahead of 2050



A stronger public **transport network**



Easier and more attractive options for active mobility such as **walking and cycling**



Efficient zero-emission **urban logistics** and last-mile deliveries



Better management of **mobility flows**, through multimodal hubs and digital solutions



Modern stations that connect rail with public transport, and provide shared mobility services



Bigger and better **park-and-ride facilities**, equipped with recharging points for zero-emission vehicles

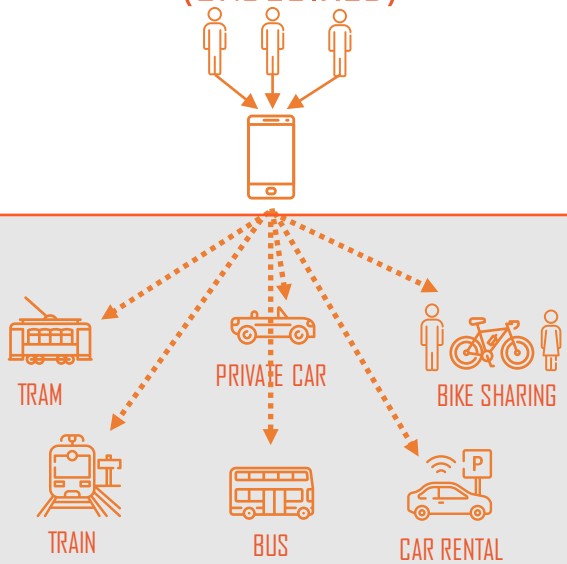


More **multimodal terminals** and freight consolidation centres

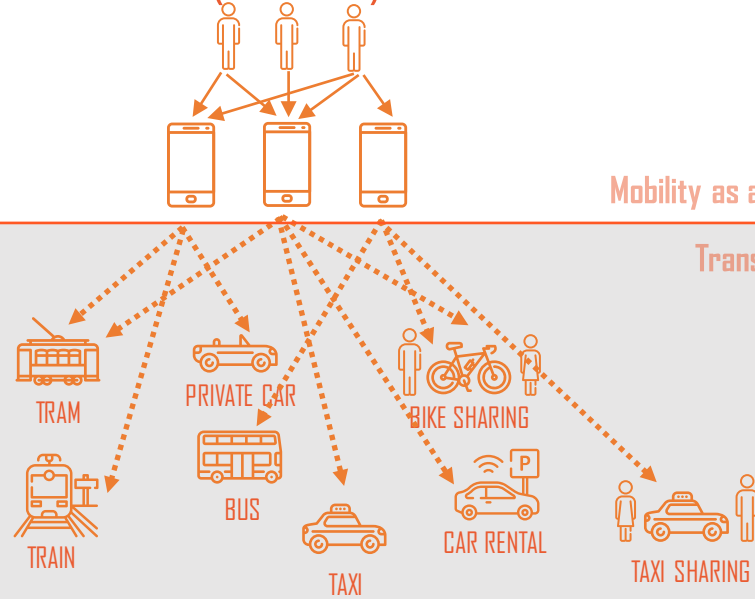


More sustainable and well-functioning **passenger transport-on-demand** services such as taxis and PHVs

Winner takes it all (UNDESIRABLE)



Open ecosystem (DESIRED)



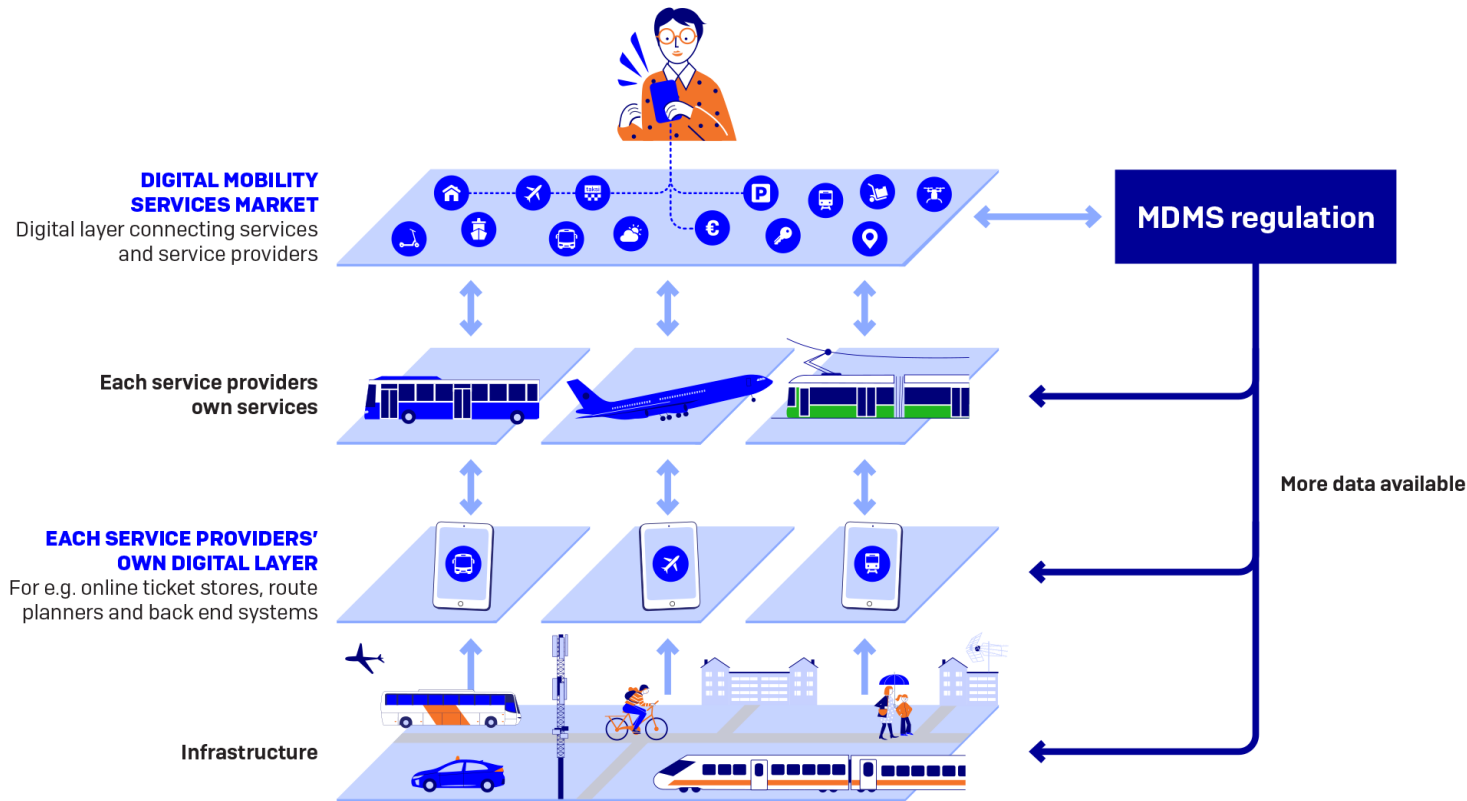
Mobility as a Service (aggregators)

Transport service providers

- Access to market
- Data sharing
- Public-private partnerships

Vision: an open MaaS ecosystem

Digital mobility services



Multimodality & interoperability

Support the development of multimodal services facilitating **planning / access to information** as well **reservation and booking** of all mobility offers

Enhance access to multimodal information data through National Access Points



Enhance cooperation and fair competition between MDMS platforms and operators

Enhance standardisation to facilitate development and interoperability of services



Ensure that MDMS support the efficiency, resilience and sustainability of the transport system

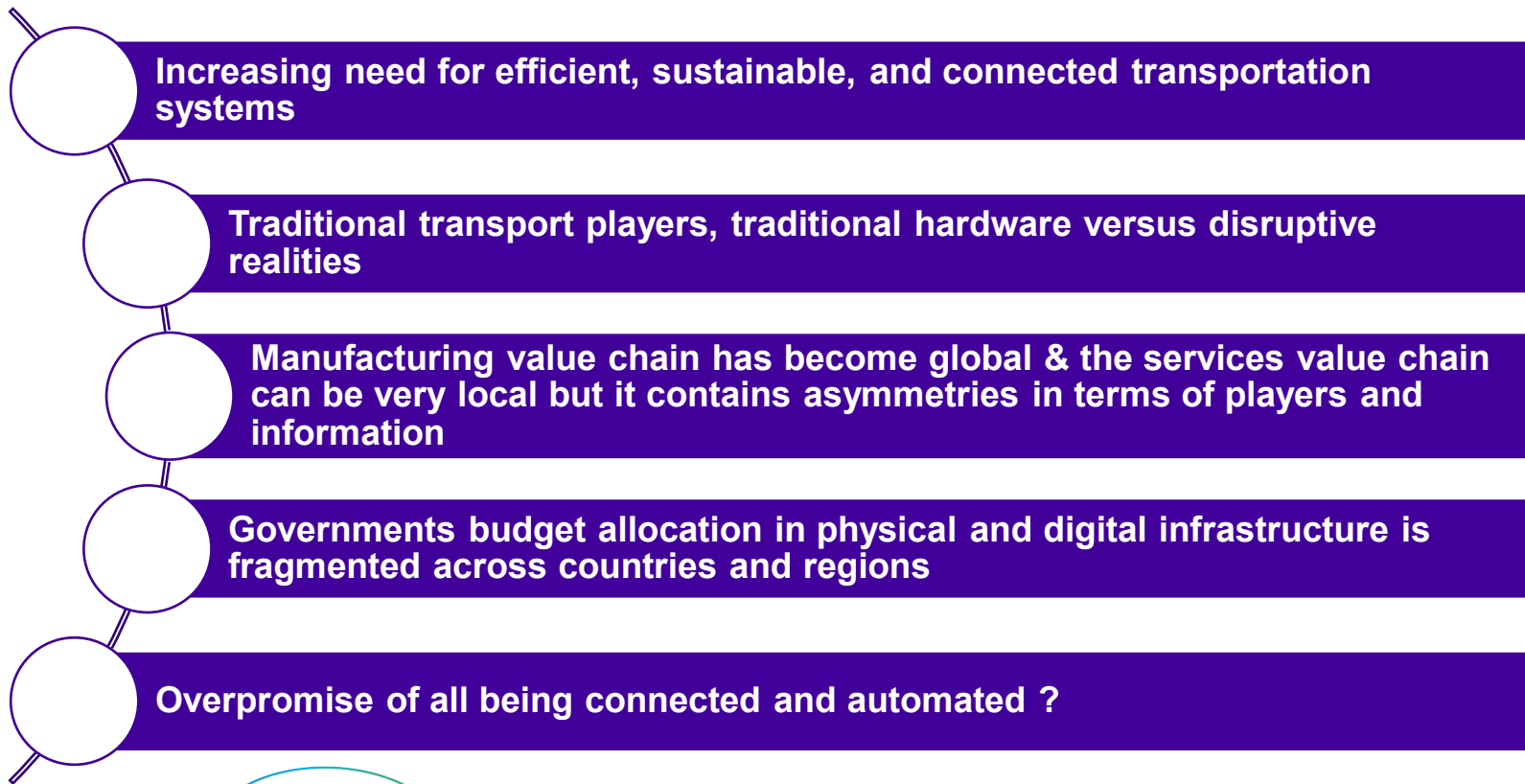
New perspectives

- Transport & mobility has become a horizontal framework for moving **people, goods and data**.
- The mobility of the future will be characterized by a more **connected, sustainable, and personalized digitalized transport system**, with a greater focus on the use of technology to improve efficiency, safety, and convenience.
- **Integration and interoperability** of transport modes and systems and multimodality are a requirement



- **Focus on infrastructure development:** resilient physical and digital infrastructure (telco/IT networks, 5G, IoT, AI, cloud/edge, roads, railways, airports, and ports)
- **Focus on safety:** improving safety in transport. This may involve measures such as investing in safer infrastructure, promoting better user education and training, and improving enforcement of traffic laws, as well as cybersecurity against potential cyber-threats.
- **Focus on societal impact & inclusion:** meeting societal needs for mobility while reducing environmental impacts and strengthening our economy.
- **Focus on user needs & skills** development
- **New generation** mobility: micromobility, microhubs and active mobility modes (cycling, walking, ...)
- Innovative **Air Mobility** (UAVs - drones)

New questions



connecting the dots with



ITS European and World Congresses



Smart and Sustainable Mobility for all.

its

EUROPEAN CONGRESS
TOULOUSE
30 May - 1 June 2022



LOS ANGELES
ITS WORLD CONGRESS 2022

ITS WORLD CONGRESS 2022
Transformation by Transportation

Los Angeles, California | September 18 - 22, 2022



its

EUROPEAN CONGRESS
LISBON, PORTUGAL
22-24 MAY 2023

ITS: The Game Changer.



Suzhou · 2023
29th ITS World Congress



its

WORLD CONGRESS
DUBAI
16-20 September 2024
Mobility Driven by ITS

Mobility *Driven* by ITS

itsworldcongress.com | itsworldcongress.ae

See you in Dubai!



DUBAI
ITS World Congress

16 - 20 September 2024

Mobility Driven by ITS



#ITSDubai2024

Organised by



Co-organised by



Hosted by



Supported by



itsworldcongress.com



ERTICO

ITS EUROPE

Contact:

j.vantomme@mail.ertico.com

+32 2 400 07 10

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

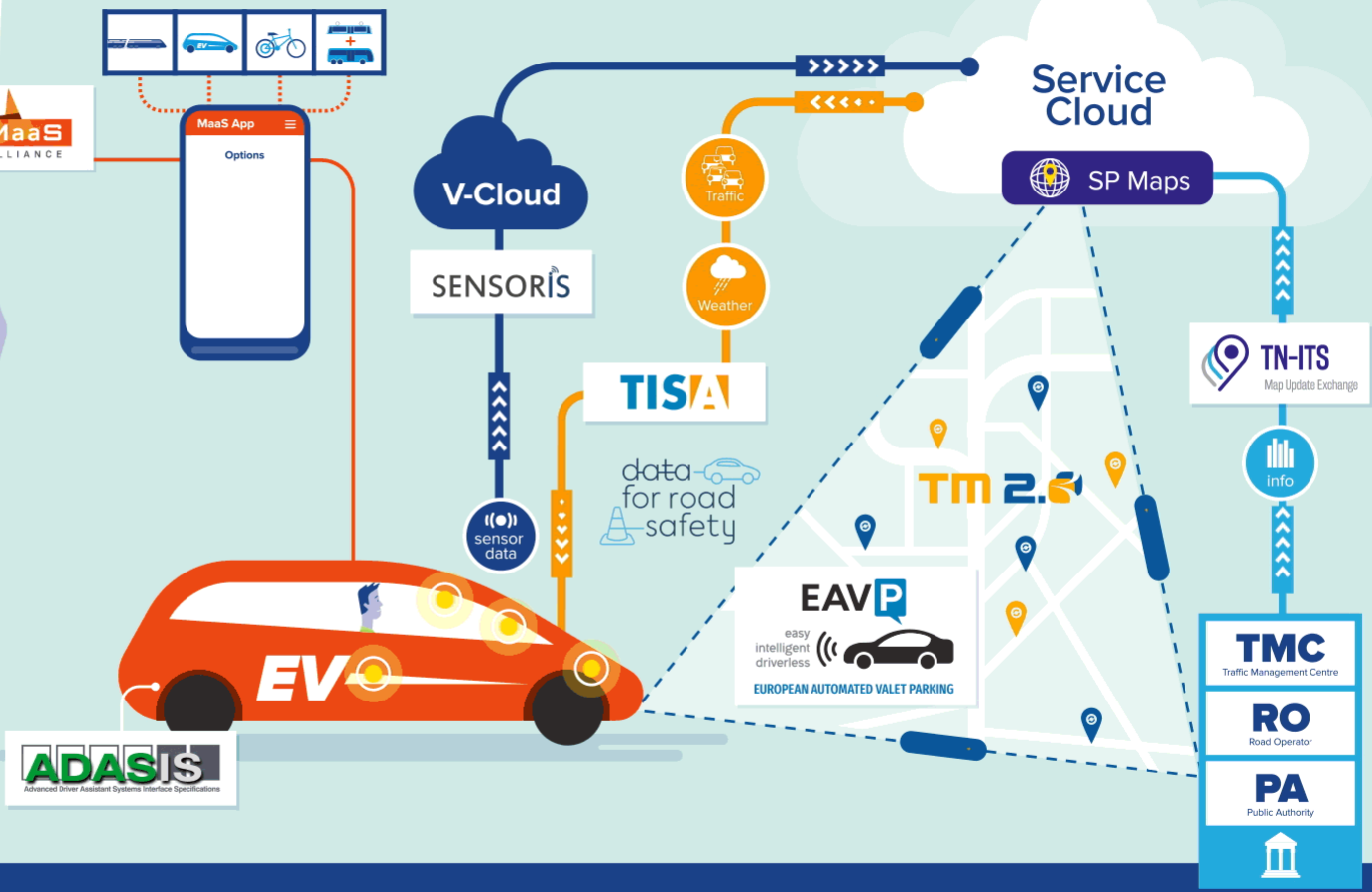
ERTICO Partnership

ertico.com | [@ertico](https://twitter.com/ertico)

BACK-UP INFORMATION



Examples of ERTICO coordinated/supported data sharing & spaces



ERTICO Projects & Platforms



GUIDE

STREnGth_M



SUMP Izmir



wetransform



modales



SENSORIS



PrepDSpace4Mobility



5GLOGINNOV



BOOSTLOG



ERTICO City Moonshot

Impact/purpose

Global survey of 300 cities with the primary goal of understanding their needs and requirements in relation to mobility and transport



Facts and figures

- ERTICO initiative
- 300 interviews
- Phase I: 150 interviews + report (done)
- Phase II: 150 interviews + report (in process)

Objective

- Engage, inspire and empower cities by understanding their needs and requirements in relation to mobility and transport.
- Interview 300 cities worldwide on smart mobility challenges, needs and trends.
- Create a knowledge environment focused on data sharing.

Outcome

- Phase I results' report (Focus: MaaS, sustainability, data sharing)
- Phase II started
- <https://ertico.com/city-moonshot/>



CITY MOONSHOT

Global survey on urban transport and mobility: Results of Phase I

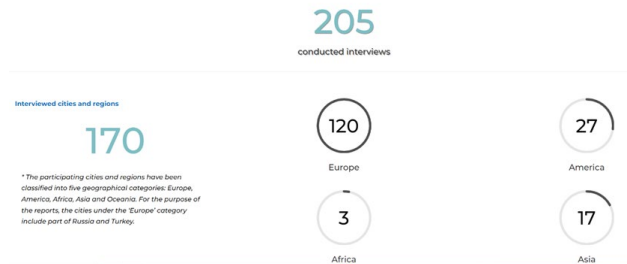
ENGAGE, INSPIRE, EMPOWER.



ERTICO City Moonshot is on a mission: Interviewing 300 cities worldwide (200 in Europe and 100 outside Europe)

Phase II

1. Sustainability
2. MaaS
3. Electromobility
4. Urban Air Mobility



Understand the needs and requirements from the cities in relation to mobility and transport

Phase I 150 cities

Report available at: ertico.com/city-moonshot

Report: <https://ertico.com/wp-content/uploads/2022/03/Ertico-Moonshot-Report-Final.pdf>

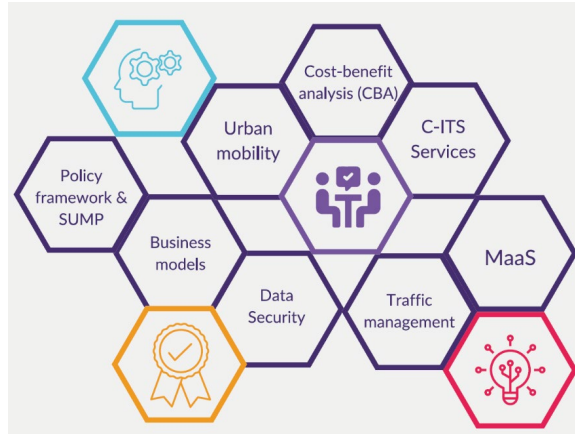
Smart Mobility Summit of Cities and Regions *fuelled* by the City Moonshot

35+ cities and regions in direct communication with the ITS industry.



ERTICO Academy is using a flywheel approach, consisting of 4 training levels. Depending on the training skill set and knowledge requirements of Public Authority for the capacity building, ERTICO Academy will choose the combination of the training levels to deliver the new skillset in the most efficient way.

- e-Learning Platform
- Expert Training
- Peer2Peer Training
- Missions Training



ertico.com/academy

THE ACADEMY

by **ERTICO PARTNERSHIP**
Sharing knowledge

ERTICO Academy f2f training
in Dresden for SAENA,
05-06/06/2023

Trainers



Dr. Johanna Tzanidaki



Vladimir Varotnik



Roelof Heilmans



Jean-Charles Pandoza



Coen Bresser



Dr. Eusebiu Catana



Frank Daems



Dr. Tamara Djukic



Dr. Stephanie Dreher



John Piddington



Dr. Nikolaos Tsampanlis



Andrew Winder

