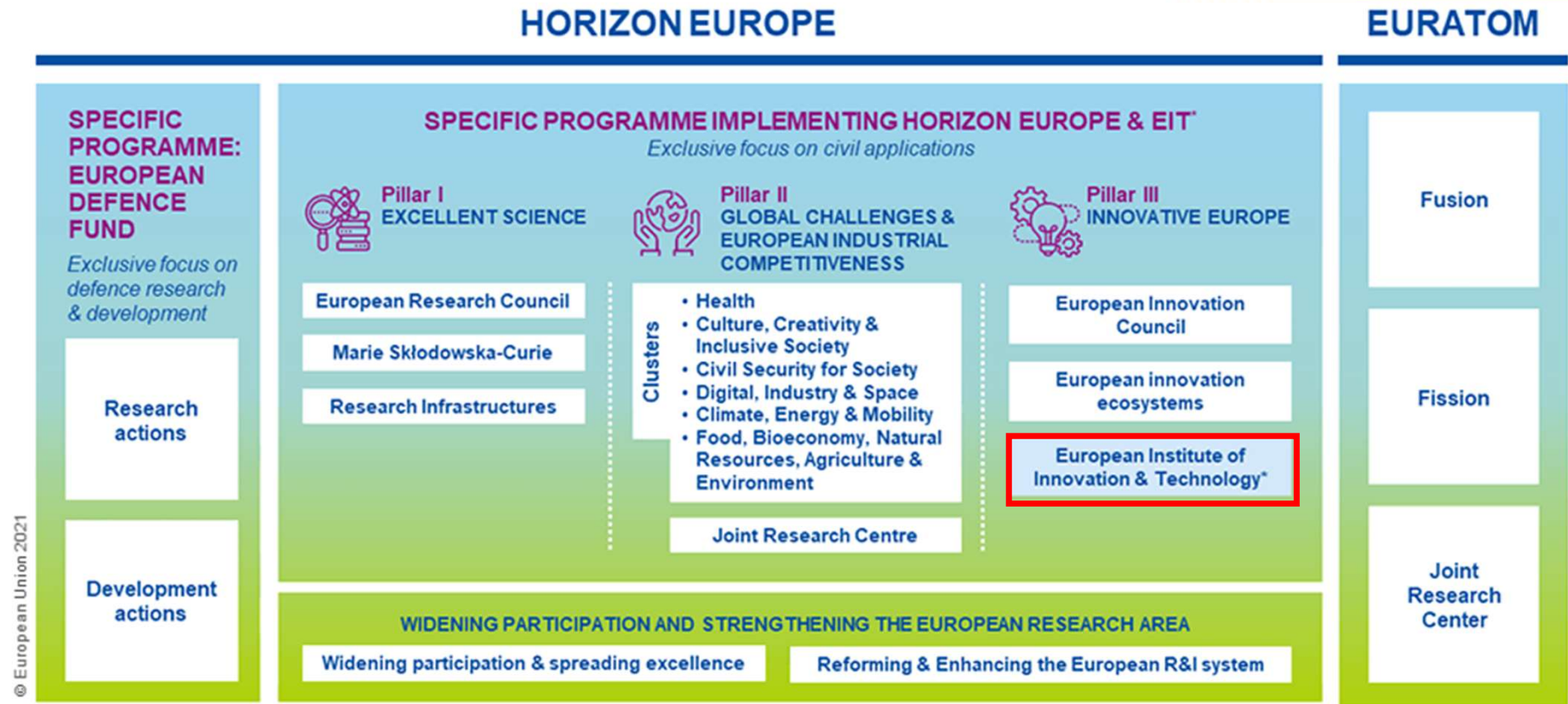


DRIVING THE NEXT PHASE OF **EIT URBAN MOBILITY** **TOGETHER**



HOW EUROPE FUNDS R&I



© European Union 2021

* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

EIT KNOWLEDGE & INNOVATION COMMUNITIES (KICs)

CLIMATE KIC

Accelerating the transition to a zero-carbon economy

28DIGITAL

Drive Europe's digital transformation

INNOENERGY

Achieve a sustainable energy future for Europe

EIT HEALTH

Healthier lives for EU Citizens

EIT RAWMATERIALS

Develop raw materials into a major strength for Europe

EIT FOOD

Lead a global revolution in food production & innovation

EIT MANUFACTURING

Increase Europe's manufacturing competitiveness

EIT URBAN MOBILITY

Mobility for more liveable urban spaces

**THE EIT KICS AND THEIR PARTNERS MAKE UP THE
*EIT COMMUNITY***

EIT CULTURE & CREATIVITY

Unite Europe's creatives

EIT WATER



Mobility in cities needs to be fundamentally changed to fight the climate emergency

We are the largest European innovation community for urban mobility



Status: September 2025

Creating impact in cities across Europe

420+

INNOVATION PILOTS IN

185+
CITIES



eit Urban Mobility

Status: September 2025



We engage in four main intervention areas to drive change



MATCH AND CONNECT

Connecting private and public sector partners to access markets, talent, finance and knowledge



TALENT TO BUSINESS

Fostering entrepreneurship through practical learning. Upskilling and reskilling

<https://urbanmobilitycourses.eu/>



INNOVATIONS TO MARKET

Piloting market-ready solutions in cities

<https://www.eiturbanmobility.eu/what-we-offer/innovations-to-market/>



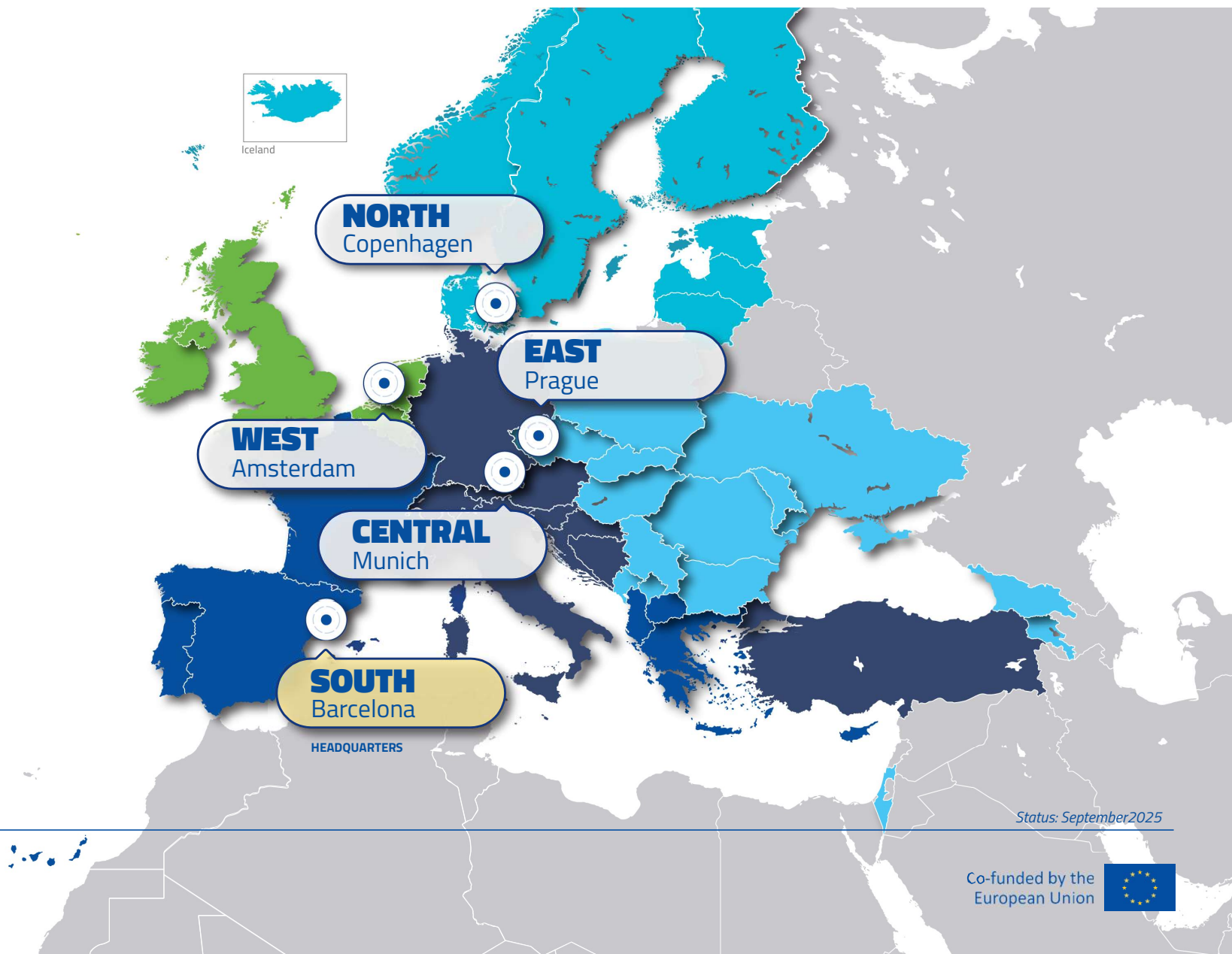
STARTUPS TO SCALE

Boosting startup growth for long-term impact

<https://www.eiturbanmobility.eu/what-we-offer/support-to-startups/>



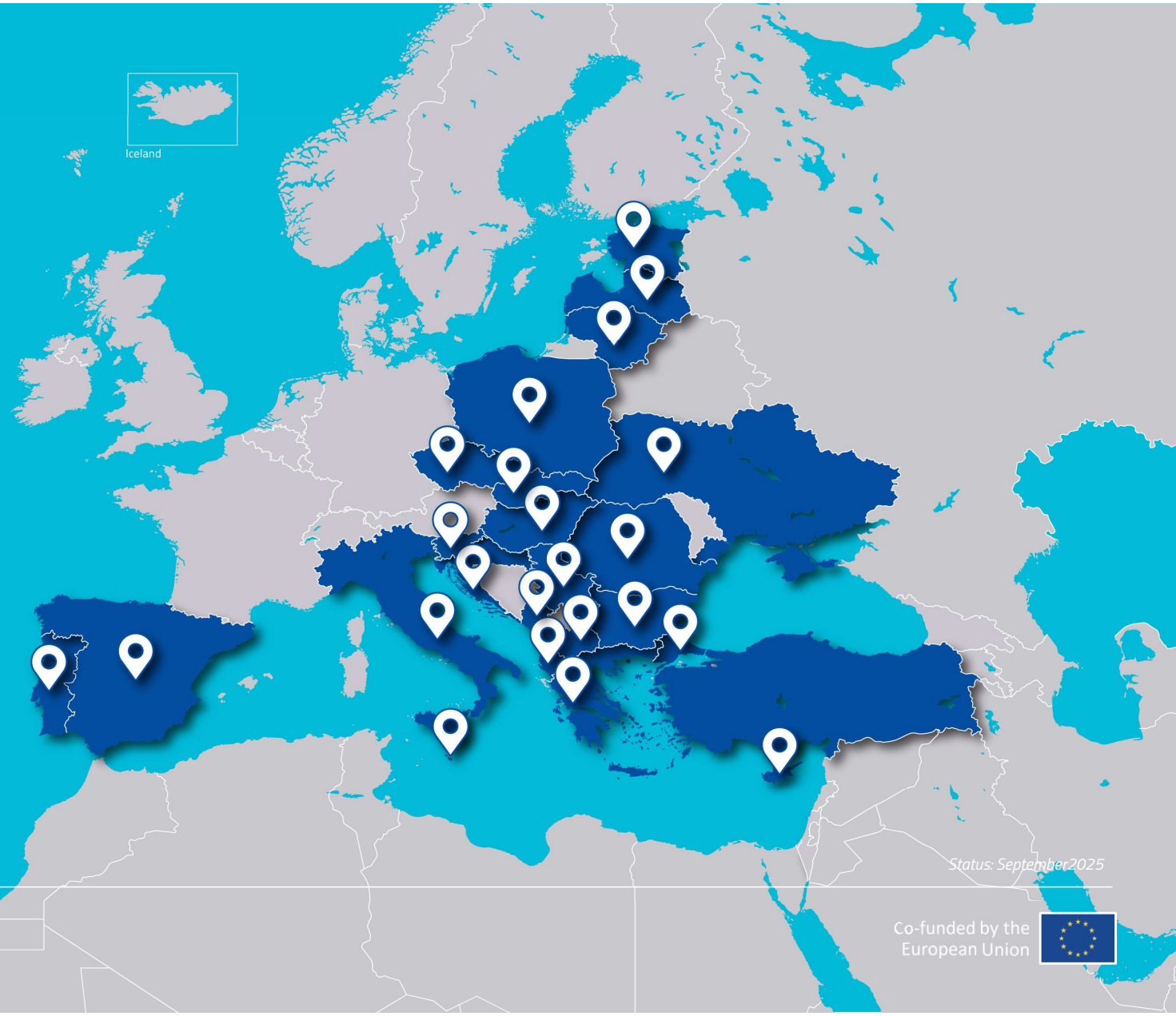
We are the leading network for urban transport innovation across Europe



Regional Innovation Scheme

EIT COMMUNITY HUBS

Albania, Bulgaria, Croatia, Cyprus, Czechia, Estonia, French Outermost Regions, Greece, Hungary, Italy, Latvia, Lithuania, Malta, Montenegro, North Macedonia, Slovakia, Slovenia, Spain, Türkiye, Ukraine



Status: September 2025

Slide 9

BB1

should the notes not also include info on the fact that these RIS hubs is where EIT Community is present - creating real impact across Europe? Now it's quite high level and doesn't say too much. Maybe take some info from the key messaging doc? Same for the previous slide

Bernadette Bergsma, 2025-10-02T17:11:39.713

URBAN MOBILITY CONTEXT

URBANISATION



70%

Europeans
live in cities



80%

by
2050

TRANSPORT EMISSIONS



25%

of EU greenhouse gas
emissions from transport

AIR POLLUTION



Largest environmental
health risk in Europe

over

180,000

Early deaths/ year

ECONOMIC IMPACT



5%

of EU GDP
for Transport

6.2M

jobs



AMBITION AND OBJECTIVES

SOCIETAL IMPACT GOALS



Improving quality
of life in cities



Mitigating and adapting
to climate change



Creating jobs and
strengthening
European urban
mobility sector

OUR MISSION:

**ACCELERATING THE SUSTAINABLE
MOBILITY TRANSITION IN CITIES**

STRATEGIC OBJECTIVES

S01

Create liveable
urban spaces



S02

Close the
knowledge gap



S03

Deploy and scale
green, safe, and
inclusive mobility
solutions



S04

Accelerate
market
opportunities



S05

Promote
effective policies and
behavioural change



OUR ACHIEVEMENTS 2020-2025

MATCH AND CONNECT



27,000+

visitors to Tomorrow.Mobility 2025, our flagship event

265+

partners in our network in 2025, representing an increase of 51% compared to 2024

INNOVATIONS TO MARKET



235+

innovation projects supported since 2020

120+

new solutions introduced to the market since 2020

TALENT TO BUSINESS



35,000+

learners enrolled in Urban Mobility Explained (UMX) courses

7.3M+

views on UMX YouTube learning channel

STARTUPS TO SCALE



520+

Supported startups

€290M+

of investment raised by our venture investment startups portfolio



We focus on **innovations** that most efficiently support cities reach net zero emissions

FROM ACHIEVEMENTS

TO IMPACT

PRIORITY DOMAINS



PUBLIC AND SHARED TRANSPORT



HEALTH & MOBILITY



ELECTRIFICATION AND ALTERNATIVE FUELS



SUSTAINABLE URBAN LOGISTICS



MOBILITY DATA MANAGEMENT

DRIVING THE NEXT STEP IN SUSTAINABLE URBAN MOBILITY

Creating impact in cities across Europe

420+

INNOVATION PILOTS IN

185+
CITIES



Status: September 2025



POZNAŃ & MOVIRO

Real-time route updates

CHALLENGE

Poznań's challenge centres on enhancing the reliability and convenience of its public transport network by providing passengers with real-time information about sudden route disruptions. Unexpected diversions caused by traffic congestion, accidents, or infrastructure works currently lead to passenger frustration, reduced comfort, and lower trust in transit services. Poznań is looking for digital solutions that can integrate real-time vehicle GPS and scheduled routing data to detect disruptions, notify users instantly, and suggest alternative routes to improve satisfaction and service trust.

SOLUTION

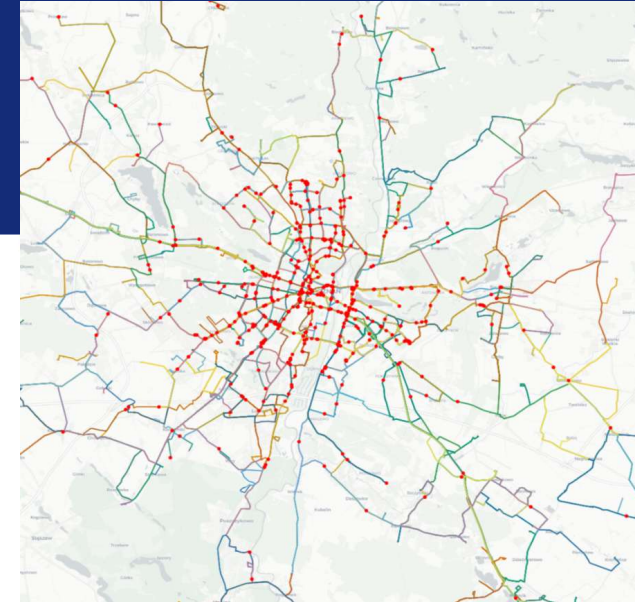
The Transit Orchestrator is a multimodal routing and dispatching system designed to compute optimal routes both (i) in real time and (ii) within simulation environments. It accounts for a wide range of real-world constraints, such as disruptions in street or rail networks. In the RAPTOR project, the system was used to predict alternative tram routes during service disruptions, replicating dispatcher decisions to support accurate real-time passenger information. The prediction data was published as an enriched GTFS-RT feed via an open API.

RESULTS

- 97% of actual route deviations were detected (excluding edge cases that were not in scope for the pilot)
- >99% of alternative routes were correctly predicted (% achieved)

DEMO ENTITY

POZnań*
PROJECT PARTNER
MOVIRO



AT A GLANCE

CITY CHALLENGES

- Passengers are not informed in real time about sudden route changes or diversions
- Absence of automated tools to detect disruptions and suggest alternative routes.

SOLUTION IMPACTS

- Open API publishing real-time routing data
- Improving access to information: Detect disruptions in public transport

Co-funded by the



MOBIRE

Challenge

With 750,000 shared micromobility vehicles in Europe and 20-30% of batteries (150,000 to 225,000 units annually) needing repair, operators face rising costs and compliance challenges under the EU Battery Directive and Extended Producer Responsibility (EPR).

*MOBIRE tackles this by **introducing advanced battery repair protocols** and a **Battery Passport system**, enabling cost-effective, scalable repairs while ensuring full regulatory compliance and reducing battery waste.*

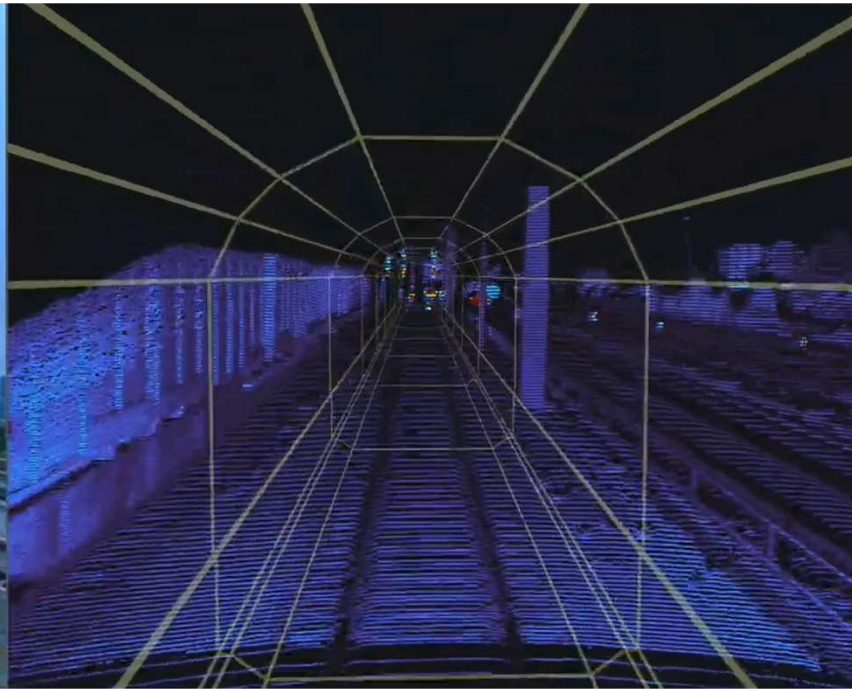


Pilots

In Poland, MOBIRE will establish a repair hub to test and validate battery repair protocols and integrate the Battery Passport system within Dott's micromobility fleet over a 12-month period.

*The pilot aims to repair at least 500 batteries, track 1,000 batteries digitally, and reduce battery replacement costs by 30%, **creating a scalable and market-ready solution by end of 2025.***

The Polish repair hub will enable Nowos's battery repair capacity to exceed 120k batteries repaired per year.



Mobility

the
on





Investment Portfolio

Impact Report 2025

<https://www.eiturbanmobility.eu/wp-content/uploads/2025/11/2025-Investment-Portfolio-Impact-Report-EIT-Urban-Mobility.pdf>

Most active investors since 2019

Most top European mobility investors have less than 50% of their portfolio dedicated to impact investments



Top investors in European Mobility startups (2019-2024) and share of mobility por focused on impact.

Investor name	Investor country	Preferred round	Mobility rounds 2024	Mobility rounds since 2019	Impact mobility rounds since 2019	% Impact
EIT Urban Mobility	Spain	SEED	28	135	135	>75%
Bpifrance	France	SEED	15	86	38	<50%
EIC Fund	Belgium	SEED	3	33	28	>75%
Speedinvest	Austria	SEED	4	31	19	50-75%
Creandum	Sweden	SERIES A	5	30	16	50-75%
Plug and Play	United States	SEED	1	25	6	<50%
Demeter Partners	France	SERIES A	1	24	13	50-75%
Zebox Ventures	France	SEED	2	23	7	<50%
HV Capital	Germany	SERIES A	2	23	6	<50%
FJ Labs	United States	SEED	3	23	9	<50%

Next stop in urban mobility: automated transport



Co-funded by the
European Union

European landscape & policy



Workshops cross-border testbeds



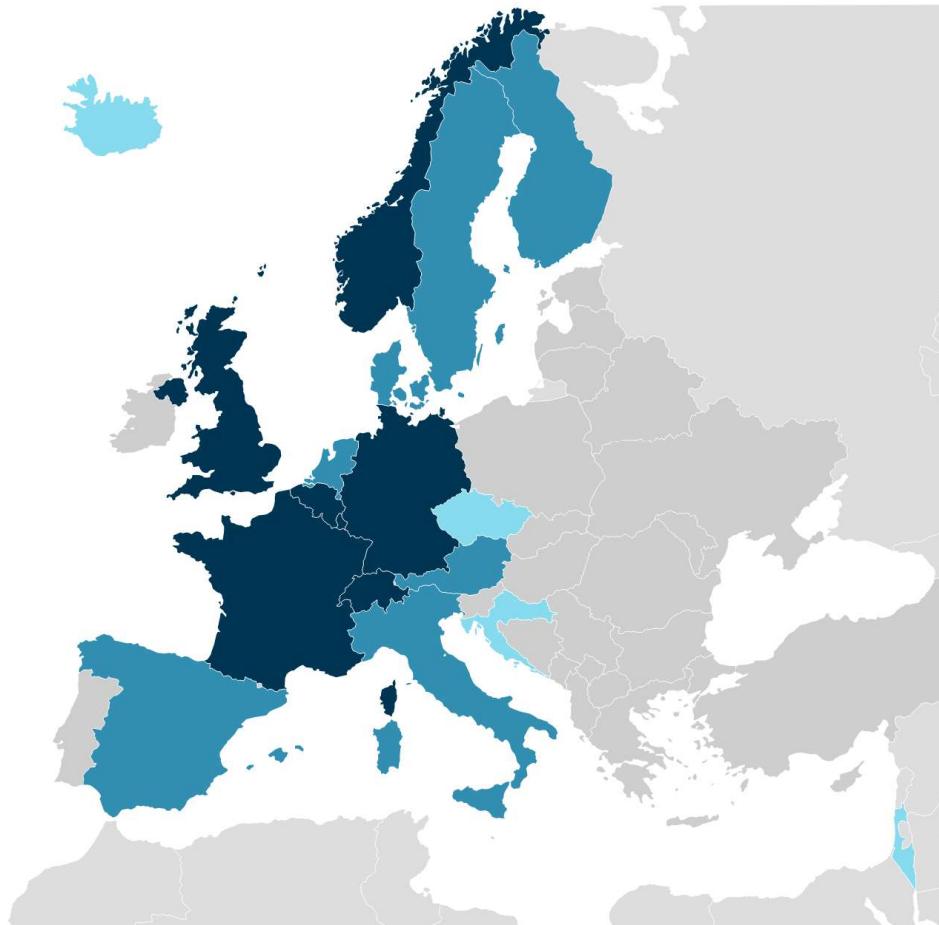
Co-funded by the European Union



Benchmark of AV deployment

European AV deployment momentum (passenger transport)

■ No Relevant Activities ■ Low Maturity ■ Medium Maturity ■ High Maturity



Co-funded by the European Union



Stakeholders



DAIMLER



holo



And more...

Events & workshops



FR
MINISTÈRE
DU PARTENARIAT
AVEC LES TERRITOIRES
ET DE LA DÉCENTRALISATION
*Liberté
Égalité
Fraternité*

Ruter#



Hamburg Belgium
China USA



Tomorrow.Mobility closed
sessions 2024 & 2026

EITUM Hub Central & AustriaTech
event March 2026

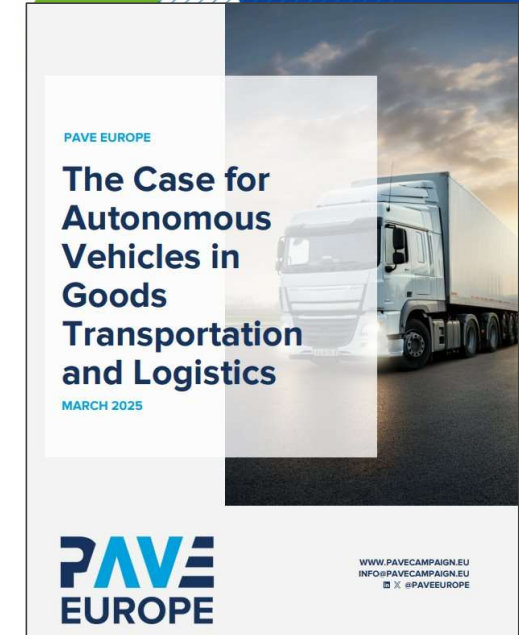
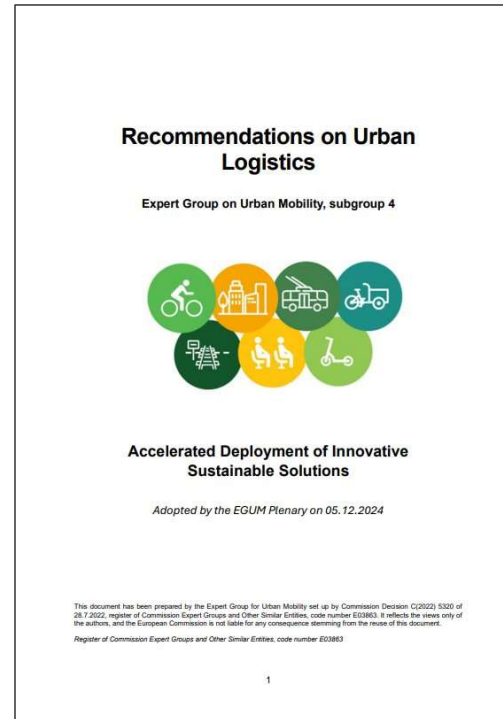
Community Days 2025 & 2026



Co-funded by the
European Union



Reports & studies



Co-funded by the
European Union



Supply: AV companies in passenger transport



Small car

STELLANTIS

verne



WAYVE



motor^{ai}



Medium vehicle

Benteler
HOLON



MOIA 



Chinese



Large bus

KARSAN  DAIMLER TRUCK
Daimler Buses

ADASTEC
Automated, Shared, Connected



- Wayve: Europe's most advanced and best-funded AV tech player — still pre-L4 deployment.
- VW, Stellantis, and Renault lead L4 positioning in Europe, but depend on foreign AV tech.



Co-funded by the
European Union



Supply: European AV companies in logistics

Which already reached early commercial deployment/ advanced operational pilots



STARSHIP

Software & Hardware
& Operation delivery
system



LOXO

Software

CLEVON

Software & Hardware

➤ Purchased by US: **GO**
indiGOtech

EASY MILE

Software

OXAI

Software



einride

Software & Hardware & services to
customers

FERNRIE

Software



Co-funded by the
European Union



Recent developments in Europe: Robotaxis led by US and China



Bolt partners with China's Pony.ai as robotaxi push accelerates in Europe



London is becoming Europe's real-world AV battleground.

Waymo is preparing its first European robotaxi launch. Wayve is running public-road trials with Uber. Baidu Apollo Go is bringing China-scale robotaxi experience to Europe via Uber and Lyft.

That is why the **European AV Summit** in London this March lands at exactly the right moment.

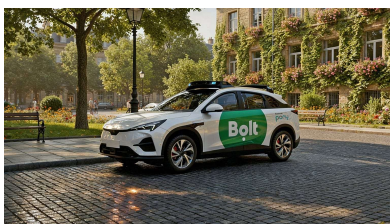


BUSINESS

Uber plans robotaxi expansion in London, Madrid and Munich

by Suhasini Srinivasaragavan

4 FEB 2024 SAVE ARTICLE



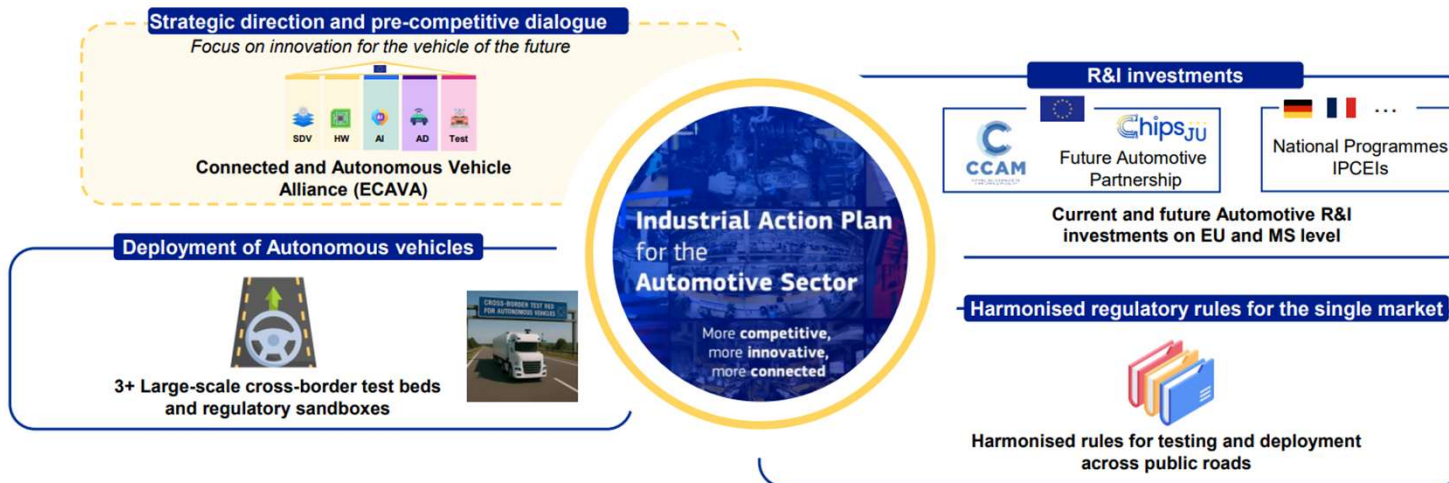
Co-funded by the European Union



Gap in European Ecosystem

The Automotive Action Plan ensures a close collaboration between several actions related to the vehicle of the future

Chapter on Innovation and Digitalisation



Strong focus on industrial competitiveness & AV technologies
→ Limited focus on city readiness, governance, and use case definition.



Co-funded by the European Union



Gap in European Ecosystem

- ▶ **Certification frameworks** for AI-driven systems remain unresolved. How do we approve technology that cannot always be fully transparent – and how do we ensure alignment with the AI Act from the outset?
- ▶ **Operational sovereignty** is as much a challenge as the technology itself. Who actually controls the systems running our public transport – and should that change?
- ▶ **Cybersecurity** cannot be an afterthought. As fleets scale and vehicles become permanently connected, are we moving fast enough on proactive standards?
- ▶ **Workforce and accessibility** need to be designed in from day one. Are we building the right training pathways and for whom are we designing these services?
- ▶ **Robotaxis** are arriving whether cities are ready or not. How do we govern them as a complement to public transport rather than a competitor?
- ▶ **Trust – public and political** – remains a genuine blocker. What would it take to give decision-makers the confidence to act?



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European Union



EIT UM Activities – Academy



Autonomous Mobility: where are we now? | AVs IN THE USA WITH XAVIER TACKOEN

Urban Mobility Explained · 104K weergaven · 3 jaar geleden

Register now to our free online course 'Preparing for Autonomous Vehicles' here: <https://bit.ly/3yalsJu> — The question of the development of autonomous mobility in Europe has been raised...

Ondertiteling

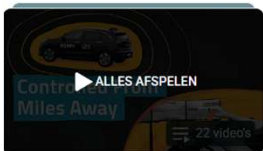


How close are we to self-driving trucks? | AVs IN THE USA WITH XAVIER TACKOEN

Urban Mobility Explained · 39K weergaven · 2 jaar geleden

Register now to our free online course 'Preparing for Autonomous Vehicles' here: <https://bit.ly/3yalsJu> — Self-driving trucks, also known as autonomous or driverless trucks, are vehicles...

Ondertiteling



Future Mobility and Trends

Urban Mobility Explained · Playlist

How does this Belgian port use remote-controlled cars? · 7:45

What REALLY counts as public transport? | URBAN MOBILITY SIMPLY EXPLAINED · 2:31

HELE PLAYLIST BEKIJKEN



What is the future of food delivery robots in Poland?

Urban Mobility Explained · 42K weergaven · 1 jaar geleden

If you want to get a deeper understanding of Autonomous Vehicles, register now to our free online course 'Autonomous Vehicles: An opportunity for Cities' here: <https://bit.ly/49QJCh9> —...

Ondertiteling



Why would people in the USA use robotaxis? | AVs IN THE USA WITH XAVIER TACKOEN

Urban Mobility Explained · 35K weergaven · 3 jaar geleden

Register now to our free online course 'Preparing for Autonomous Vehicles' here: <https://bit.ly/3yalsJu> — Robotaxis - sounds futuristic, right? Well, the future is now and it's coming...

Ondertiteling



BEGINNER | 4 MODULES

Autonomous Vehicles: An opportunity for Cities

★★★★★ (16)

Explore the transformative impact of Autonomous Vehicles (AVs) on cities: addressing promises, skepticism, and delving into essential requirements for their deployment to shape the city of tomorrow.

VIEW COURSE



BEGINNER | 11 MODULES

Planning for Autonomous Vehicles: A People-Centred Approach (updated)

★★★★★ (2)

This course will explore how autonomous vehicles should be incorporated into sustainable urban planning for sustainable future cities.

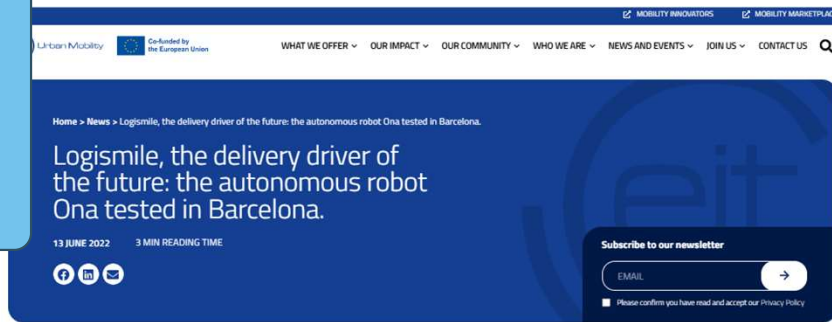
VIEW COURSE

MOBILITY MASTERCLASS



EIT UM Activities – funded projects

2022-23



Start-Up created:
Vaivé (equity)



2026-27

LAST-MILE DELIVERIES CLOGGING CITY STREETS?

MUDAV deploys fully automated electric delivery shuttles to support last-mile deliveries, from mobile microhubs to grocery distribution, reducing congestion and emissions in cities.



PARTNERS:

Planzer Transport, Bochum Economic Development, LOXO (lead partner), Rewe digital, Canton of Zurich - Office of Mobility and Transport

SUSTAINABLE URBAN LOGISTICS



Co-funded by the European Union



EIT UM Activities – funded projects



Home > Projects > ARISE

ARISE

Advanced rail innovation for safety and efficiency

Home > Impact Stories > InterAct project leads the way to fully autonomous public bus fleets

InterAct project leads the way to fully autonomous public bus fleets

8 APRIL 2026

5 MIN READING TIME

TRACE – tram assistance for safe and efficient mobility

Public transport (PT), especially trams, plays a key role in the European Green Deal objective of reducing transport-related greenhouse gas emissions by 90%. Trams emit nine times less CO₂ and consume six times less energy than cars, but their full potential depends on improving safety, efficiency and reliability. The TRACE project aims to significantly enhance the safety, efficiency, and reliability of urban tram systems through an Advanced Driver Assistance System (ADAS) tailored specifically to light rail vehicles. Building on the EIT Urban Mobility co-funded ARISE project, TRACE responds directly to growing safety challenges, operational inefficiencies, and staff shortages faced by public transport operators (PTOs) as cities become denser and more multimodal.

Trams are a cornerstone of sustainable urban mobility, emitting less CO₂ and consuming less energy than private cars. However, their full potential is constrained by safety risks with trams sharing space with cars, pedestrians, cyclists, and micro-mobility users, yet are unable to swerve to avoid obstacles.

TRACE addresses these challenges by validating the upgraded capabilities of the OTIV.TWO ADAS, including side collision avoidance, predictive collision detection, enhanced digital mapping and overspeed protection. Together, these features provide tram drivers with real-time situational awareness and proactive decision support. These will enable earlier hazard detection, smoother driving, and reduced service disruptions.

The project will conduct pilots in Ghent (Belgium), Karlsruhe (Germany), and Rotterdam (Netherlands). The pilot will involve 16 trams and more than 400,000 km of operational data. From testing, the project will refine predictive algorithms, ensure compliance with rail standards, and demonstrate measurable performance improvements in relation to obstacle detection accuracy, journey time and collisions.

Partners: Universitat Politècnica de Catalunya – CARNET (lead partner) (ES), OTIV BV (BE), De Lijn (BE), Albtal Transport Company Ltd (GE)

Total budget: 3,6M euros

Co-funded by the
European Union



Connect with us: eiturbanmobility.eu
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