12:30 – 13:30

INNOVATING ACROSS ECOSYSTEMS

Expert Session 3



UPC

Prof. Dr. Jasmina Berbegal
Full Professor at Polytechnic University of Catalonia
MODERATOR



Coventry University

Dr. Eleni Anoyrkati
Operations and Development Manager
SPEAKER



Movita

Milena Vuckovic
Mobility & Transportation Consultant & Founder, Movita
SPEAKER



EIT UM

Ana Belén Fernández
Mobility Innovators Manager
SPEAKER

MobiNexus

Connecting ecosystems for the triple mobility revolution

SESSION 3 · INNOVATING ACROSS ECOSYSTEMS



Dr Eleni Anoyrkati

Operations and Development Manager
Coventry University Services Ltd

Horizon Europe · Grant 101215280

SPEAKER

CARNET FUTURE MOBILITY RESEARCH HUB

Escola de Camins
Escola Tècnica Superior d'Enginyeria de Camins, Canals i Ports
UPC BARCELONATECH

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Telefónica

NFF NIEDERSÄCHSISCHES FORSCHUNGSZENTRUM FAHRZEUGTECHNIK
Ein Zentrum der TU Braunschweig

MobiNexus
Collaborating for Innovative Mobility

The Triple Revolution is also a data revolution

Shared mobility · Electrification · Autonomous mobility

SHARED

Platforms coordinate journeys, fleets and services.

ELECTRIC

Vehicles, charging and energy increasingly depend on connected data.

AUTONOMOUS

Sensors, software and AI turn vehicles into decision-making systems.

The common denominator is not a single technology. It is the ability to connect data, knowledge and actors across the mobility ecosystem.



The bottleneck: innovation still happens in silos

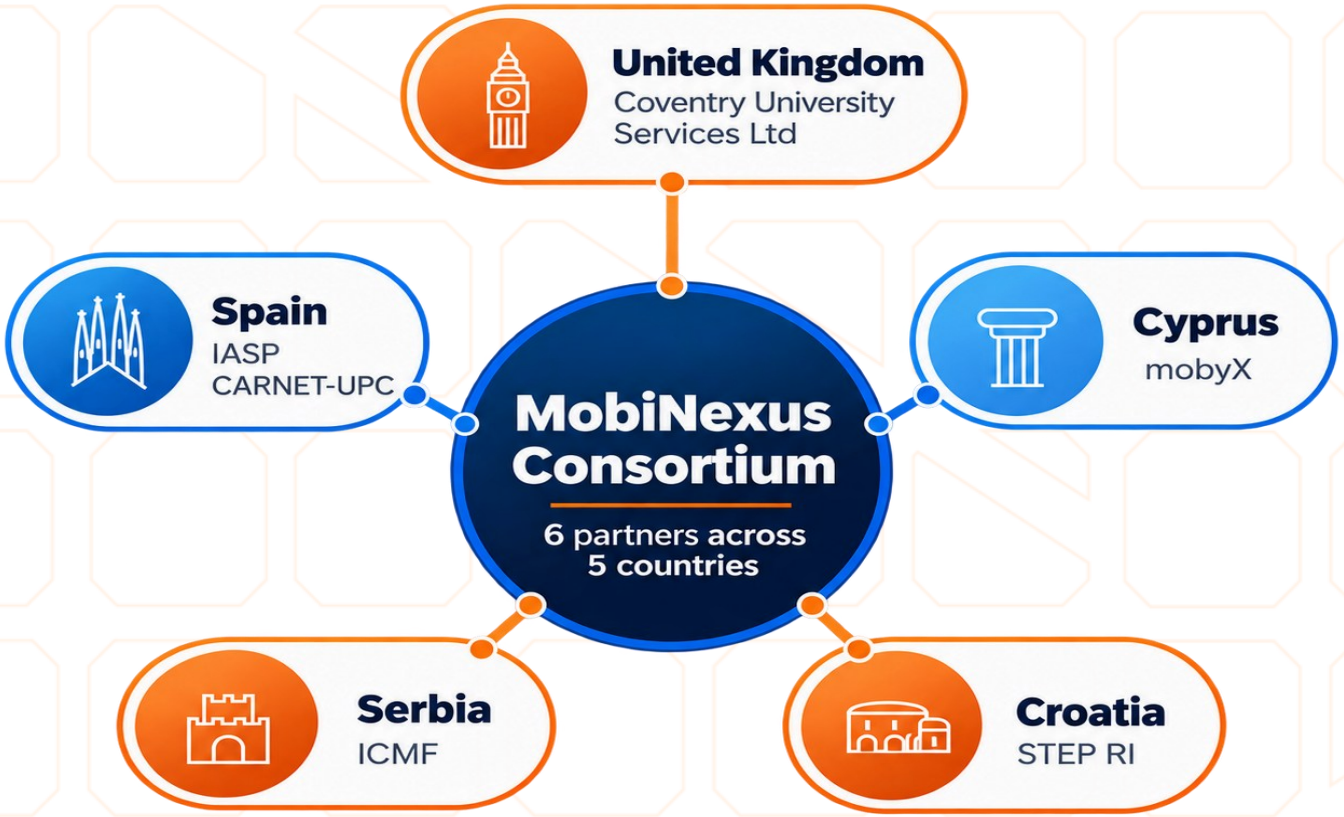
The problem is not a lack of expertise -it is fragmented access to expertise.



What is missing?	Visibility of who can help	Timely partner discovery	A route from evidence to action	Users brought in early

MobiNexus: one network across five countries

A Horizon Europe Coordination and Support Action connecting academia, enterprise and mobility ecosystems.



Three mechanisms. One ecosystem.

MobiNexus connects actors, builds capability and brings citizen experience into innovation.

01 CONNECT

Mobility Innovation Network

- Ecosystem mapping
- Matchmaking
- AI-enabled services

02 BUILD CAPABILITY

Entrepreneurship Academy

- Skills-gap evidence
- Masterclasses
- Learning pathways

03 CO-CREATE

User-Centric Lab

- Citizen empathy maps
- National workshops
- User-centred design

Connection → Capability → Co-creation

MIN: one network, multiple ways to connect

The Mobility Innovation Network is the project's digital collaboration layer.

558

registered members

academia · companies · start-ups
investors · policymakers

EUROPE-WIDE ECOSYSTEM

Matchmaking Zone

Profile preferences and semantic signals support partner discovery.

AI chatbot

RAG-based access to mobility knowledge from curated project and sector sources.

Collaborative Opportunities

Funding and collaboration opportunities are surfaced for members.

Actors Map & Directory

Members can explore ecosystem actors by country, type and keyword.

From evidence to capability

The Academy starts with what the ecosystem says it needs -then turns that evidence into learning.

150+
skills-gap statements
desk research across the three mobility domains

→

9
priority skill themes
semantic grouping and expert review

→

3
development areas
common weaknesses across the three domains

→

62
participants
first masterclass: Design Thinking Essentials

Three cross-cutting development areas

- Commercialisation & business models
- Governance & deployment
- Sustainability integration

The first masterclass reached 62 participants; two further masterclasses are planned.

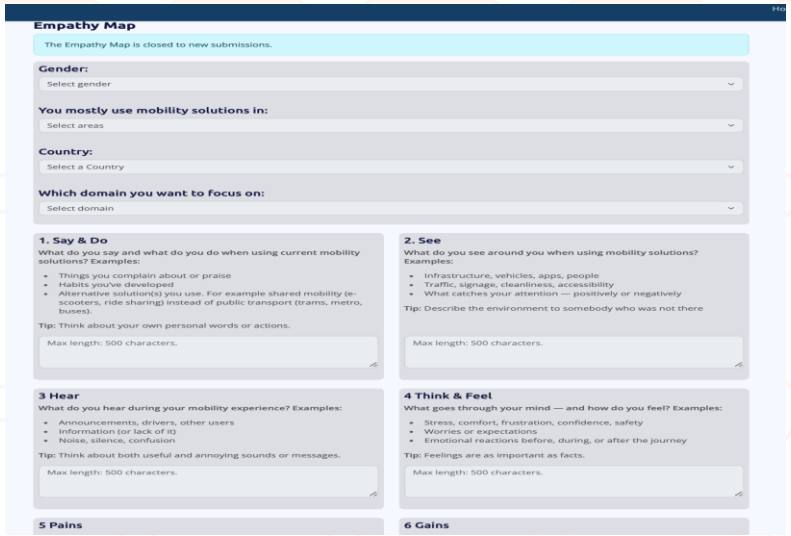
331 citizen experiences and a clear message

The User-Centric Lab turns lived mobility experience into evidence for innovation.

331

empathy maps collected

303 from the five lab countries



Reliability > speed

Unpredictability damages trust more than slowness.

One journey, not fragments

Citizens ask for integrated ticketing, planning, payment and charging.

Confidence shapes adoption

The surrounding system matters for electrification and automation.

Infrastructure fails at the joins

Cycle lanes, charging corridors and transit links break down at transition points - not through outright absence.

Exclusion falls on predictable groups

Rural residents, disabled travellers, shift workers, and low-income households face consistent barriers across all countries.

Data & AI as collaboration infrastructure

AI supports the connection; people still make the decision.

INPUTS

- Member profiles
- Mobility knowledge
- Funding & collaboration calls
- Citizen & skills evidence

AI-ENABLED SERVICES

Semantic matchmaking
Connect members with complementary profiles and preferences.

RAG chatbot
Retrieve relevant mobility knowledge before generating a response.

Opportunity discovery
Surface EU funding and collaboration opportunities.

COLLABORATION VALUE

- Find the right partner
- Reach relevant knowledge faster
- Strengthen cross-border collaboration

Human oversight · explainability · bias monitoring · ethical and data-protection checks

Progress at a glance

Interim snapshot of the project's implemented activities and reach.

558

MIN registered members

AI-powered networking and collaboration services

331

citizen empathy maps

62

Academy participants

first Design Thinking masterclass

100

skills workshop participants

across five partner-led co-creation workshops

9

priority skill themes

synthesised from 150+ skills-gap statements

6 / 5

partners / countries

a cross-European innovation ecosystem

What MobiNexus is showing so far

Three practical lessons from building an innovation ecosystem around mobility.

1 Connection needs infrastructure

A network becomes useful when actors can discover one another, find opportunities and access shared knowledge.

2 Capability building should start from evidence

Skills-gap work gives the Academy a direct line from ecosystem needs to training content.

3 Users belong upstream - not at the end

Citizen experience gives innovation teams a grounded view of where mobility systems break down.

For ecosystem innovation, the value is not only in the data - it is in the connections the data helps people make.

Keep the network moving

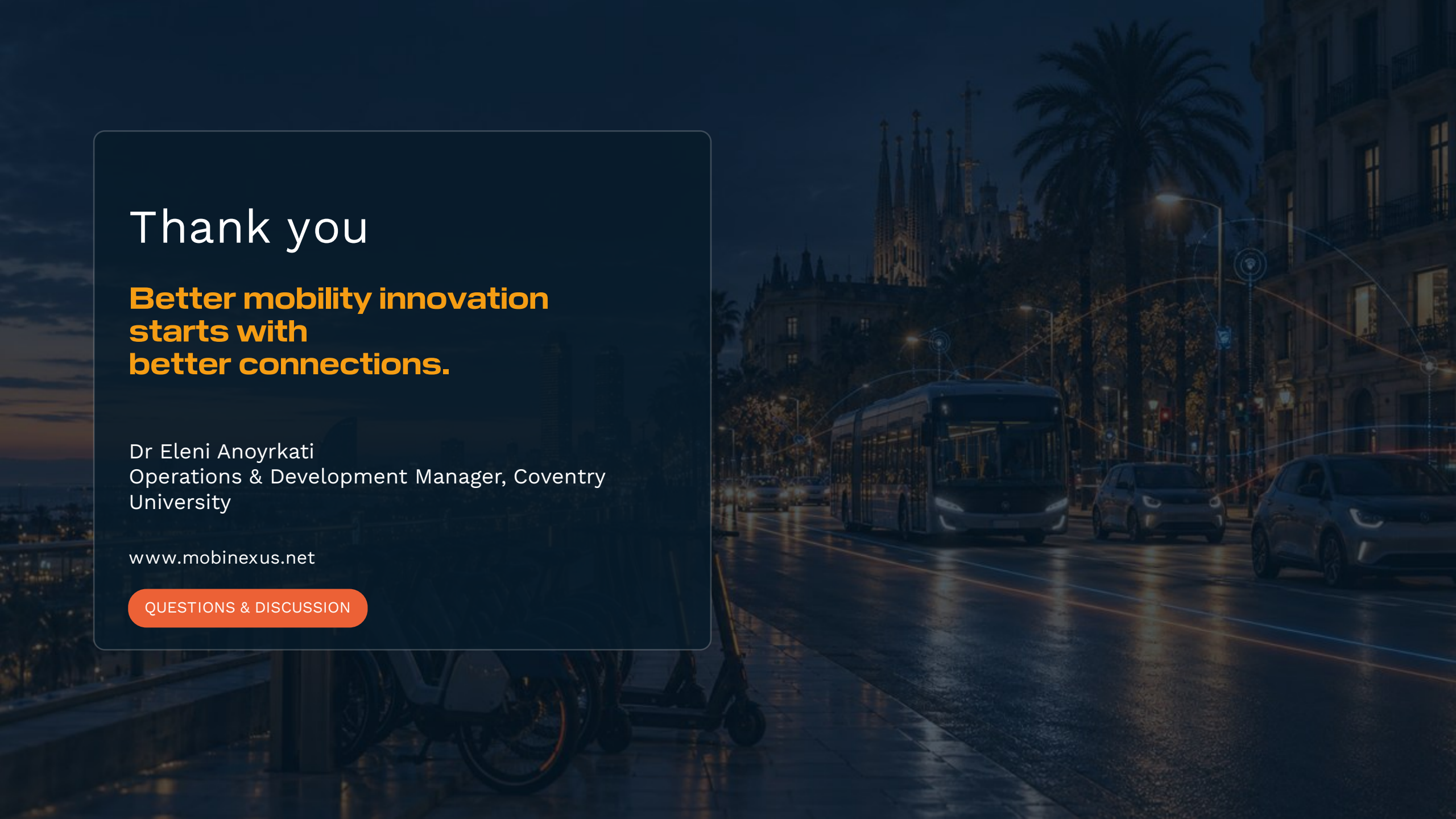
Explore MobiNexus and the Mobility Innovation Network after the session.

www.mobinexus.net

Join the network
Create a profile and connect with actors across the mobility ecosystem.

Explore learning
Access the Entrepreneurship Academy and recorded learning resources.

Follow opportunities
Keep up with project news, events and collaboration opportunities.



Thank you

Better mobility innovation starts with better connections.

Dr Eleni Anoyrkati
Operations & Development Manager, Coventry University

www.mobinexus.net

QUESTIONS & DISCUSSION

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From Research to Application =

Engineering Data + Citizen Insights + AI + Human Judgement

A Practical Case from Belgrade



Milena Vučković

Independent Mobility & Transportation Consultant, Founder @ Movita

SPEAKER

The Missing Layer in Urban Mobility Data

Across the Western Balkans, cycling culture is emerging faster than the data infrastructure needed to support it.

1%

cycling modal share in Belgrade
despite policy ambitions tied to the EU Green Deal; a growing community, but limited, fragmented infrastructure and data



The core problem is not only the missing infrastructure, it is the absence of evidence to demand it.

1. **Incomplete coverage**
   Limited cycling infrastructure and fragmented mobility data.
2. **Static knowledge**
   Engineering-based route safety scores reflect conditions at the time of assessment.
3. **Missing feedback**
   Everyday hazards and changes in road conditions are not systematically captured.

Without data, nothing gets fixed. Without fixes, nobody cycles.

From Engineering Data to ML Intelligence

From annotated field data to automated classification

01 ENGINEERING BASELINE

245

predefined route segments

SCRT/SABRINA methodology

GIS assessments and initial safety scores

02 FIELD INTELLIGENCE

736

georeferenced photographs

367

labelled hazard records

12 GPS-tracked rides

across five municipalities

03 AI PROCESSING

Random Forest + Gradient Boosting ensemble

15 features incl. GPS, elevation, time of day, rush hour, hazard type and severity

Class weighting: Traffic Danger and Roadwork weighted 3–4× higher than

F1 = 0.991

weighted; 5-fold cross-validation on the collected dataset



MovitaRide: Human in the loop

Citizen observations
Geolocated hazards and real-world feedback

Engineering baseline
GIS + SCRT safety scores + 245 predefined segments

AI-supported processing
Hazard classification and prioritization

DYNAMIC LAYER · automatic

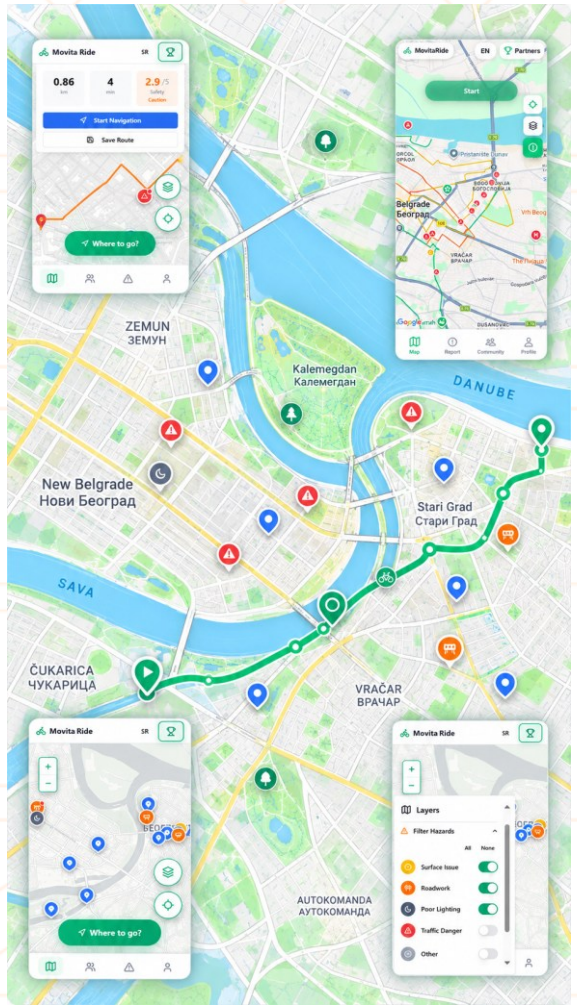
Dynamic segment-score adjustment
Segment safety score reacts to reported hazards

GOVERNED LAYER · human-controlled

Operator verification
Reviews reports and AI outputs

Periodic GIS heatmap update
Manually validated; monthly revision cycle

Validated changes update the engineering baseline



Lessons learned & Next steps

Beyond Cycling: Better Mobility Decisions

1

Better data comes from combining perspectives

Engineering models, citizen observations and AI reveal different aspects of the same urban environment.

2

Intelligent systems still need human judgement

Automated insights are valuable, but validation, context and accountability are essential when safety is involved.

3

The opportunity extends beyond cycling

Richer urban data can inform multimodal planning and potentially complement connected and automated mobility ecosystems.

4 Community engagement is a data strategy, not marketing.



As vehicles become more intelligent, how do we keep urban design human-centric?

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Session 3
Innovating Across Ecosystems

Mobility Innovators, EIT Urban Mobility's digital community platform



Ana Belén Fernández
Mobility Innovators Manager
at EIT Urban Mobility

SPEAKER

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MobiNexus Collaborating for Innovative Mobility

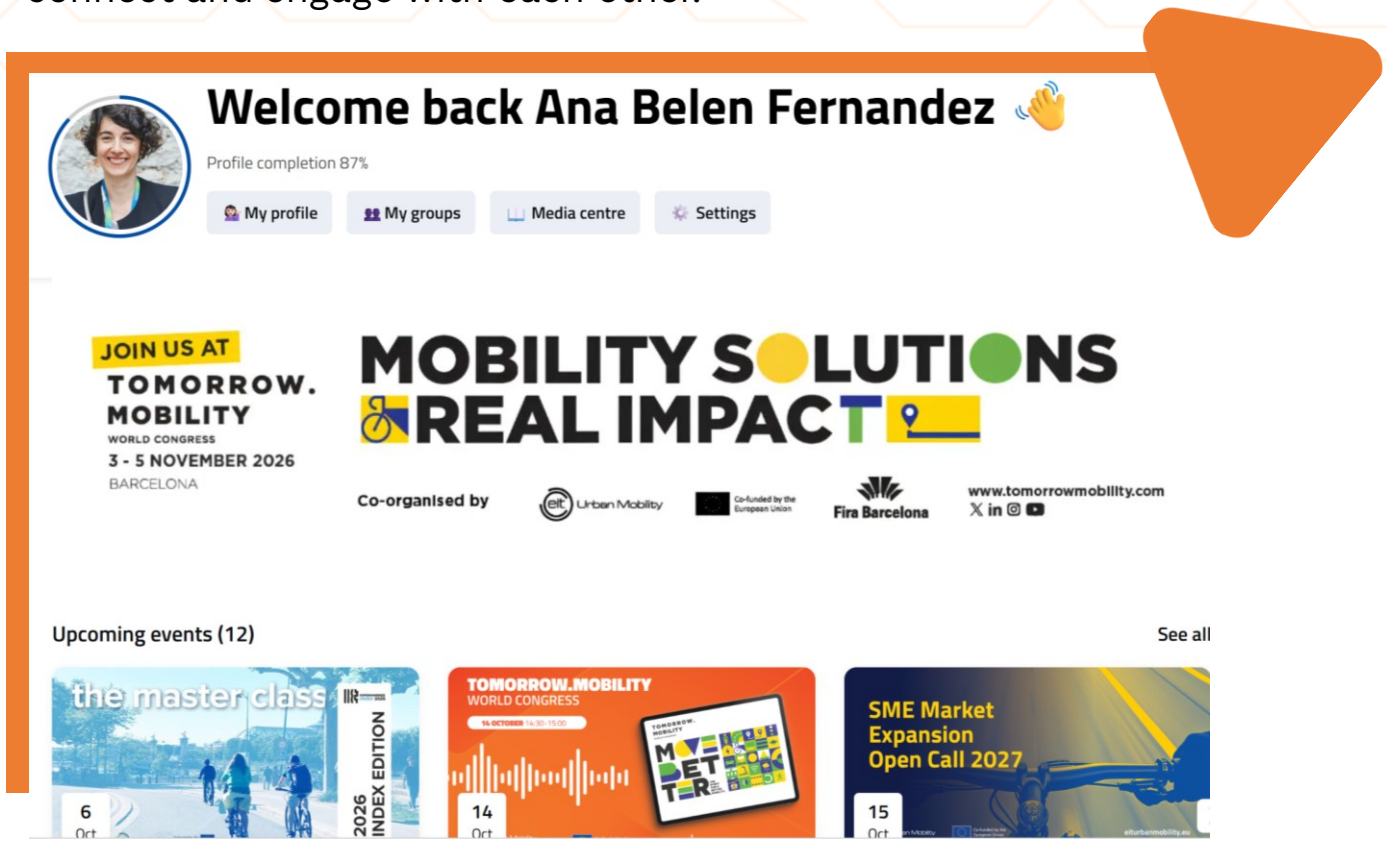
EIT Urban Mobility: an innovation ecosystem



Mobility Innovators

The digital community of EIT Urban Mobility ecosystem

Mobility Innovators brings together all key players in European urban mobility to connect and engage with each other.





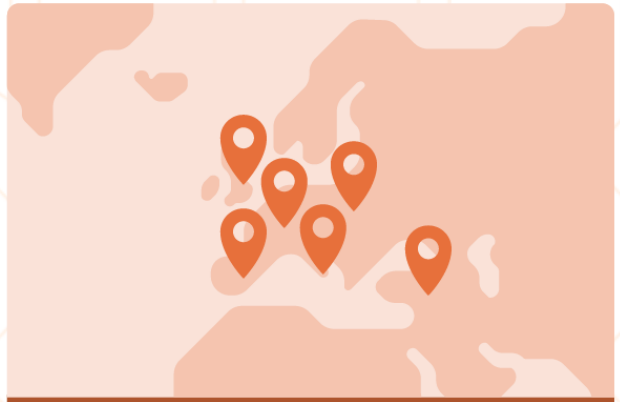
A rapidly growing community platform

Q1-Q3 2026

2,953

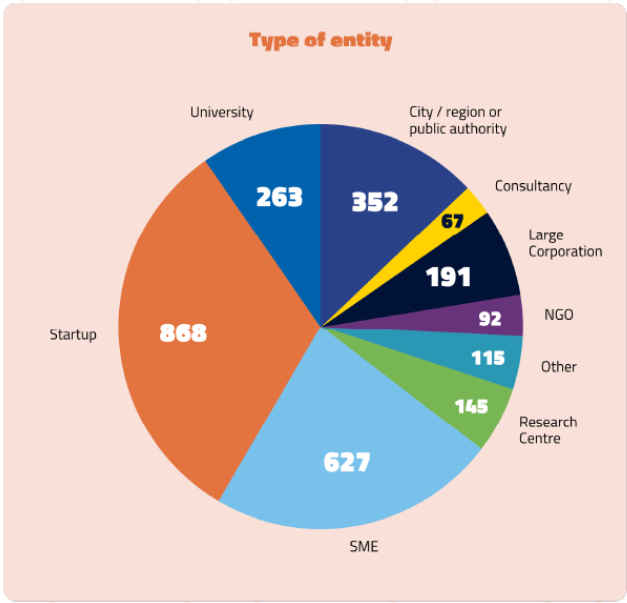
activated users

with an average monthly visit rate of **25%** (January-September)



Active users in over **68 countries**

(Germany, Spain, Italy, UK, France, The Netherlands and Türkiye have more than 50 users each).

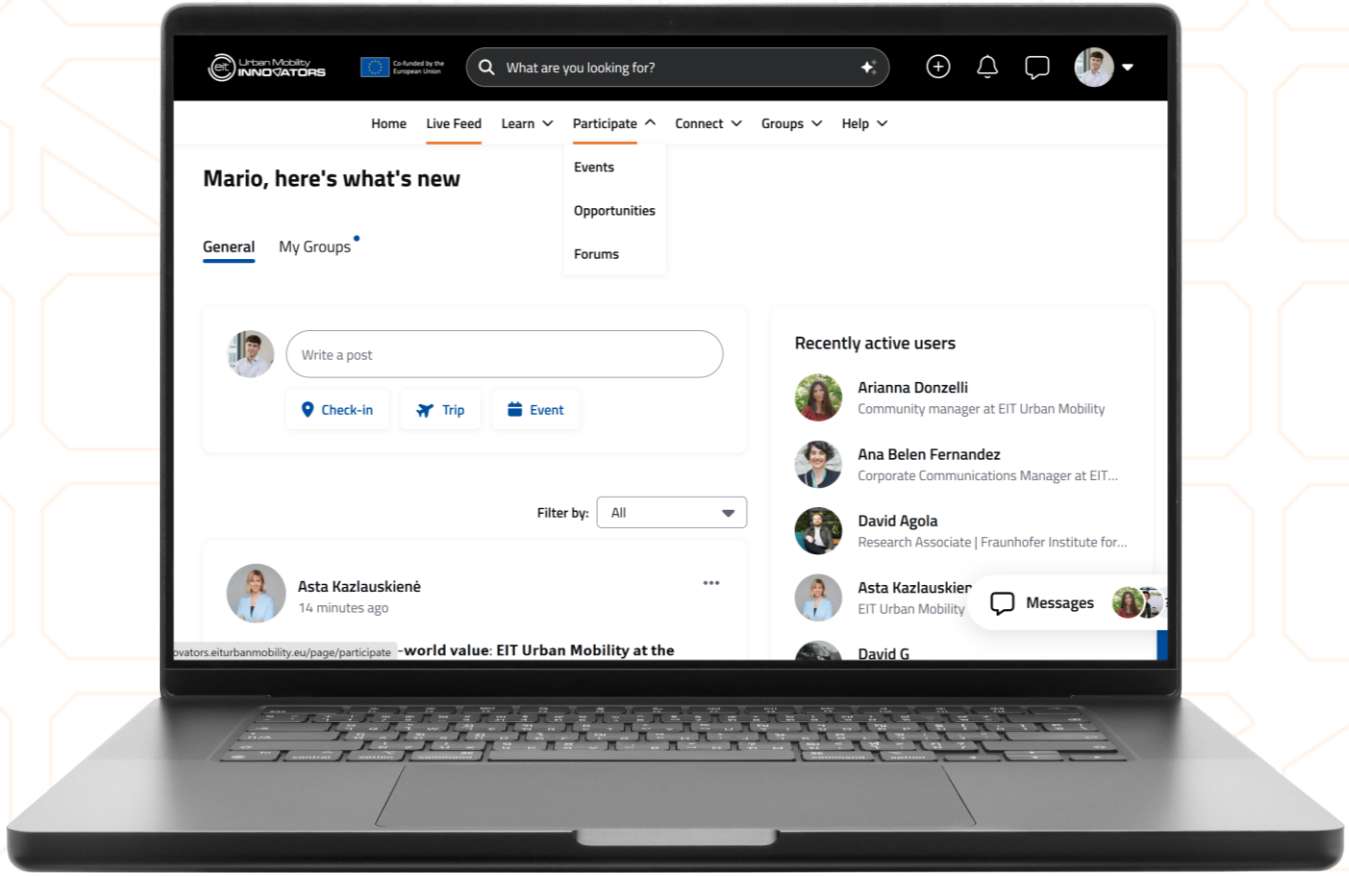


EIT Urban Mobility partners | Cities | Startups | Alumni & Students

Innovation Open Call | SIG Urban Logistics

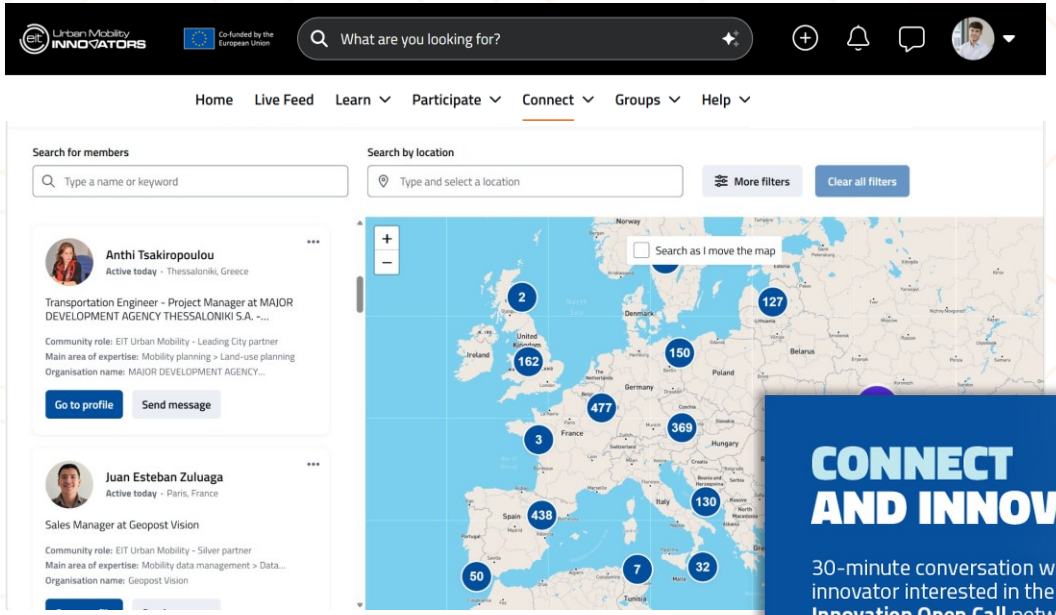
What does the community enable you to do?

- ✓ Learn
- ✓ Participate
- ✓ Connect

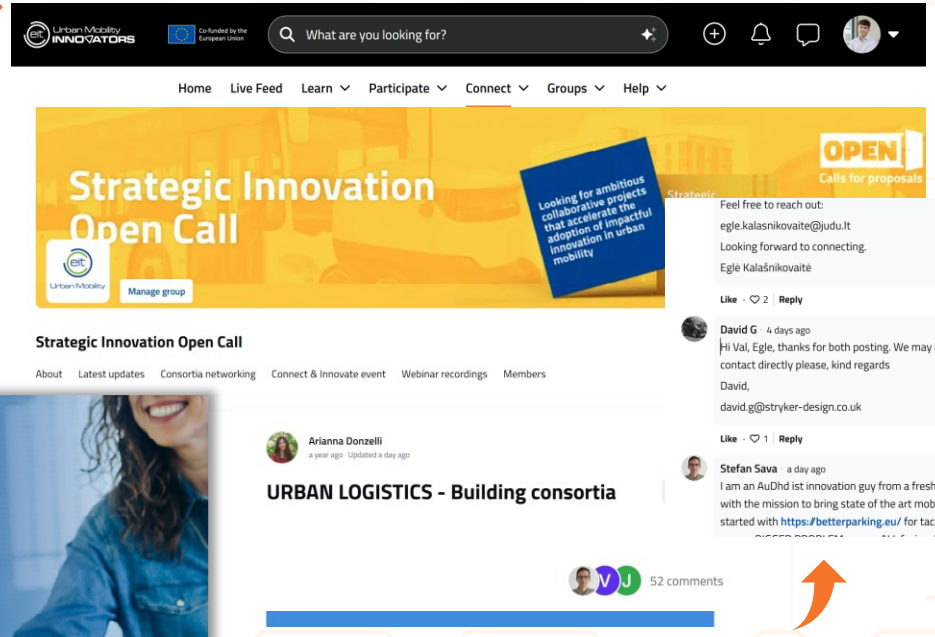


Connection opportunities in the platform

Innovators directory with filtering option



Strategic Innovation Open Call group: 37% of applying entities are there





"We found a common topic to cooperate on and agree on the next steps" — VanOnGo
"Already working on a proposal!" — City of Torino

What have we learned and what's next?

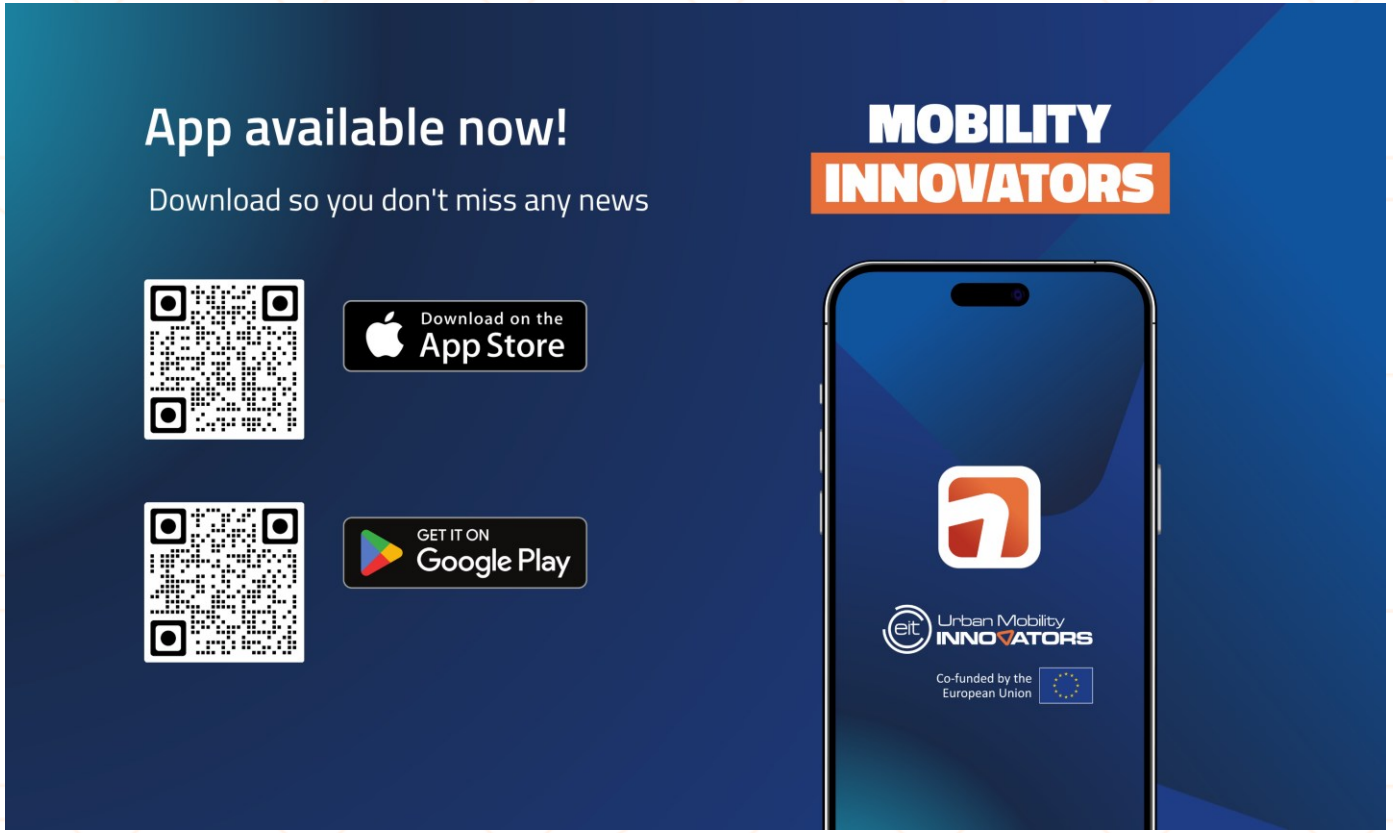
Join us at www.innovators.eiturbanmobility.eu or download our app!

Lessons learnt:

- ✓ Critical volume is not enough
- ✓ Smaller subcommunities matter
- ✓ Connections need to be facilitated

What's next:

- ❑ App & AI
- ❑ Focused subcommunities
- ❑ More networking opportunities



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