



# Innovation transferability through URBANE project

Urban Logistics Innovation Day

Break-out Session I A: Digital Twins & What-if Scenarios, 26/9/2023

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## Mission and Vision

### Vision

Facilitate the transition to the **Physical Internet**, through the **replication** of Green last-mile innovative **interventions**.

### Mission

12 Cities in focus =  
4 Lighthouse + 2 Twinning + 6 Follower

### Living Lab Stakeholders



### Reference Assets & Innovative interventions

.. on the Physical, Digital, Business & Governance, Social dimensions.

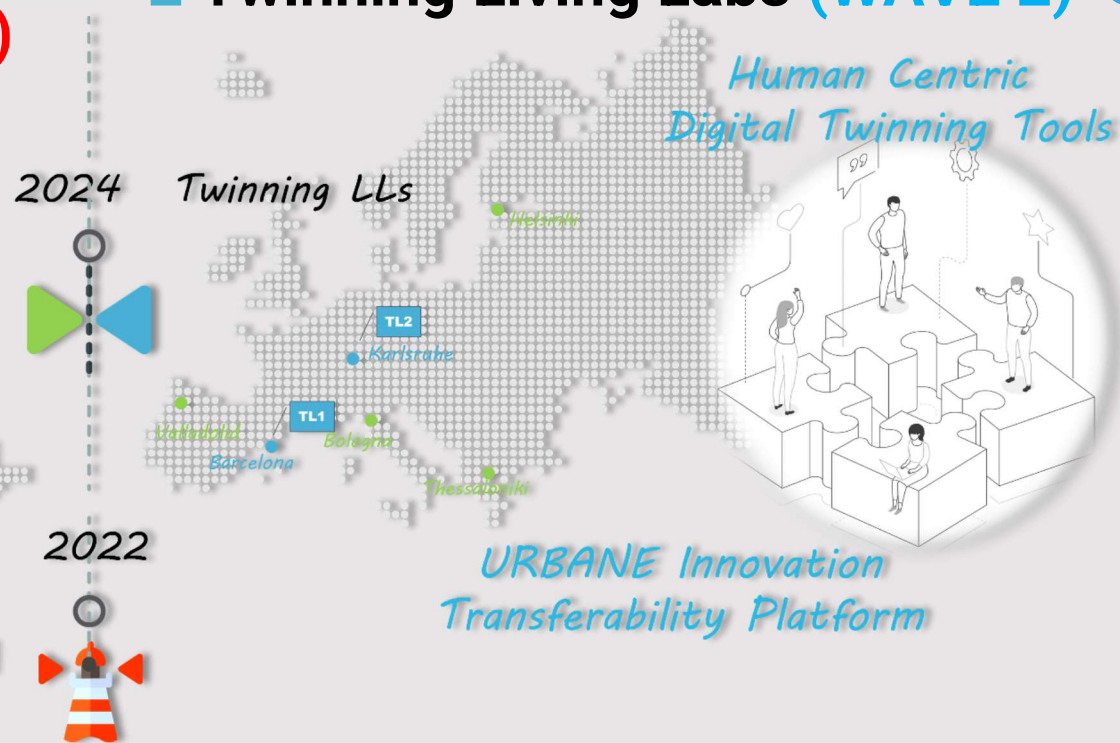


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# Mission and Vision

## 4 Lighthouse Living Labs (WAVE 1)

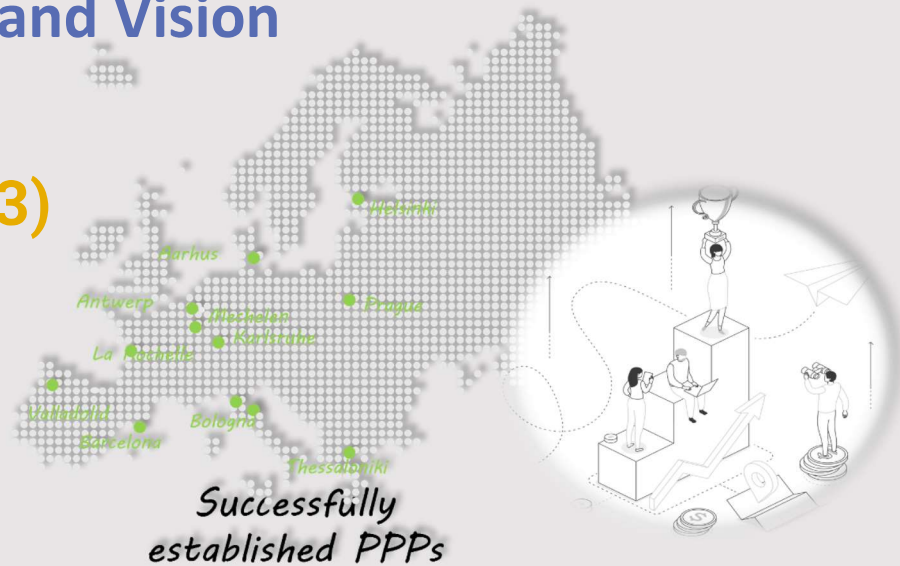
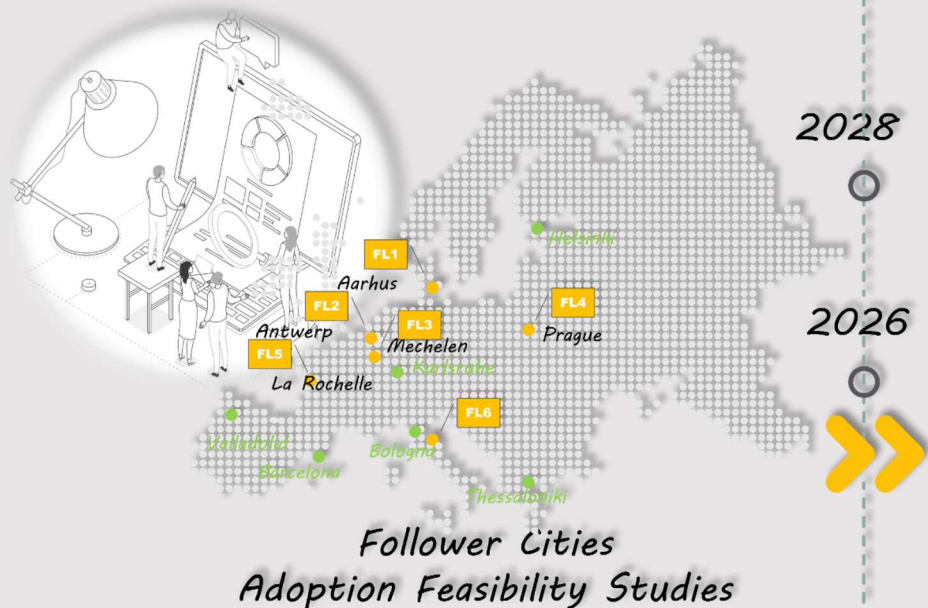
## 2 Twinning Living Labs (WAVE 2)



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# Mission and Vision

## Feasibility studies in 6 cities (WAVE 3)




# URBANE LLs & Use Cases

Promising interventions can satisfy priorities and needs:


- Electrification of delivery fleets,
- Adopting Autonomous Delivery Vehicles,
- Technology-enabled Communication & decision making,
- New types of facilities and network configurations,
- New distribution methods and business models.



Ambitions: zero emissions urban deliveries



Daily CO <sub>2</sub> reduction:	
• Electric veh:	13,7 kg
• Photovoltaic:	5,4 kg
• Add measures:	1,2 kg
Yearly:	5,8 CO <sub>2</sub> tons



Daily CO <sub>2</sub> reduction:	
• Electric veh:	8,7 kg
• Photovoltaic:	2,5 kg
• Add measures:	0,6 kg
Yearly:	3,4 CO <sub>2</sub> tons



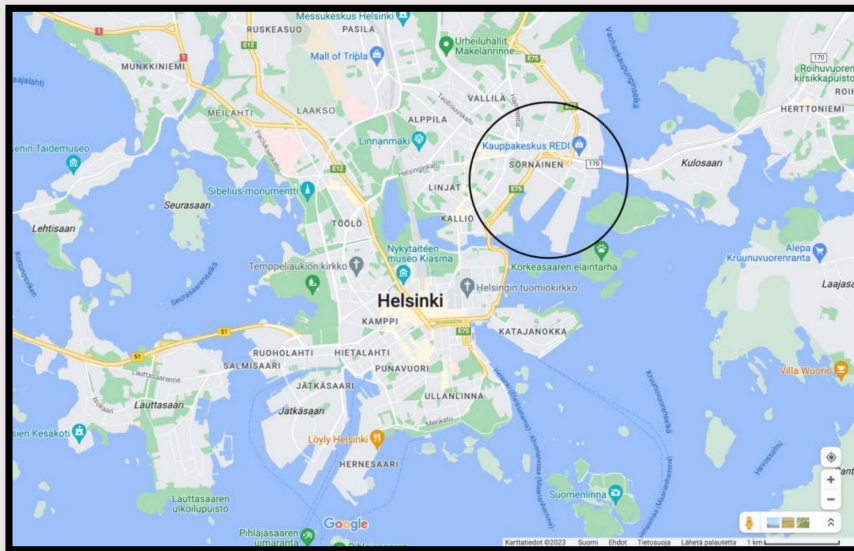
# URBANE Lighthouse LLs: Valladolid (1)

The main objectives to be achieved within URBANE, Valladolid aims to promote the delivery of small goods through a fleet of fully electric vehicles.



# URBANE Lighthouse LLs: Helsinki (2)

The goal of the Helsinki pilot site is to demonstrate innovations and new services and assess how autonomous delivery vehicles (ADV) can be used for last-mile delivery.

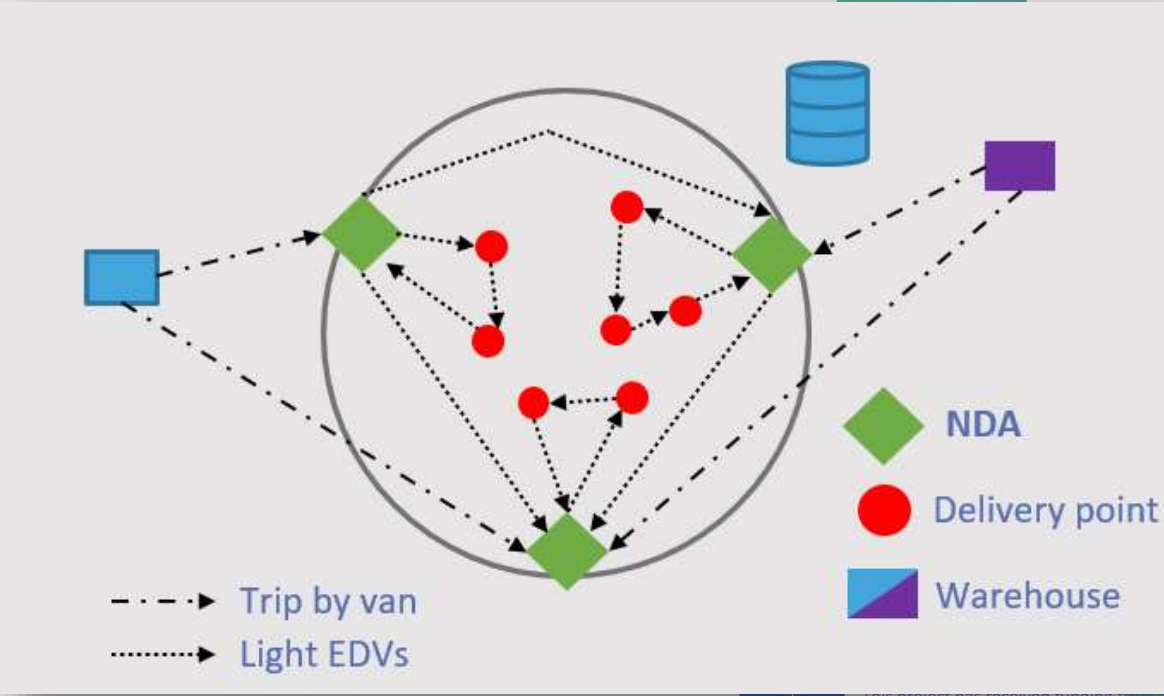


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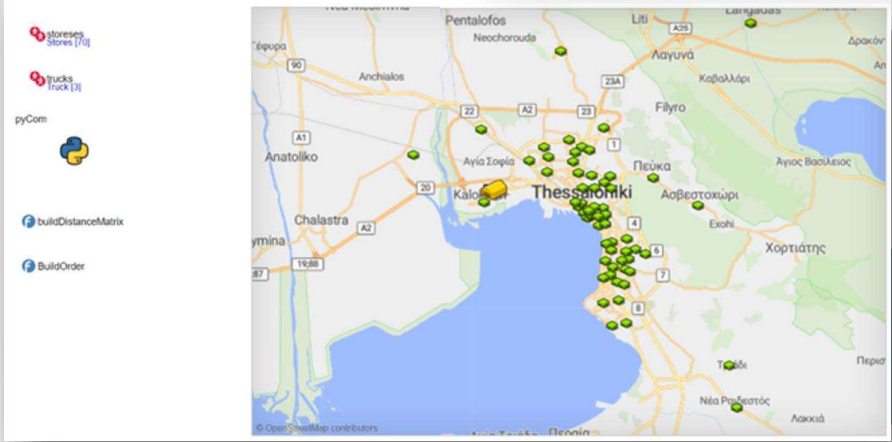
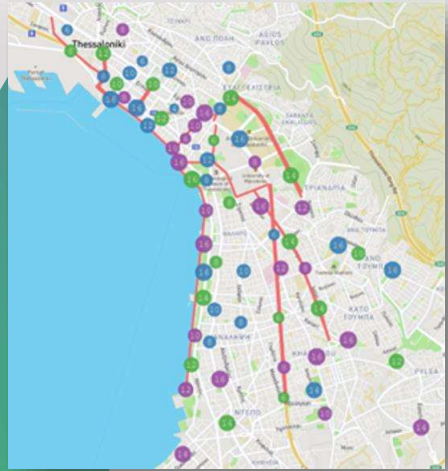
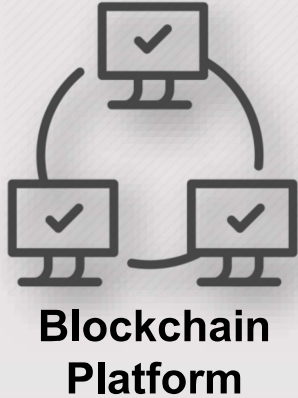
# URBANE Lighthouse LLs: Bologna (3)

Bologna Living Lab aims to realize a measure listed in the SUMP, namely the **implementation of the Nearby Delivery Area**, combined with a collaborative approach between logistics operators and the utilisation of zero-emission vehicles.

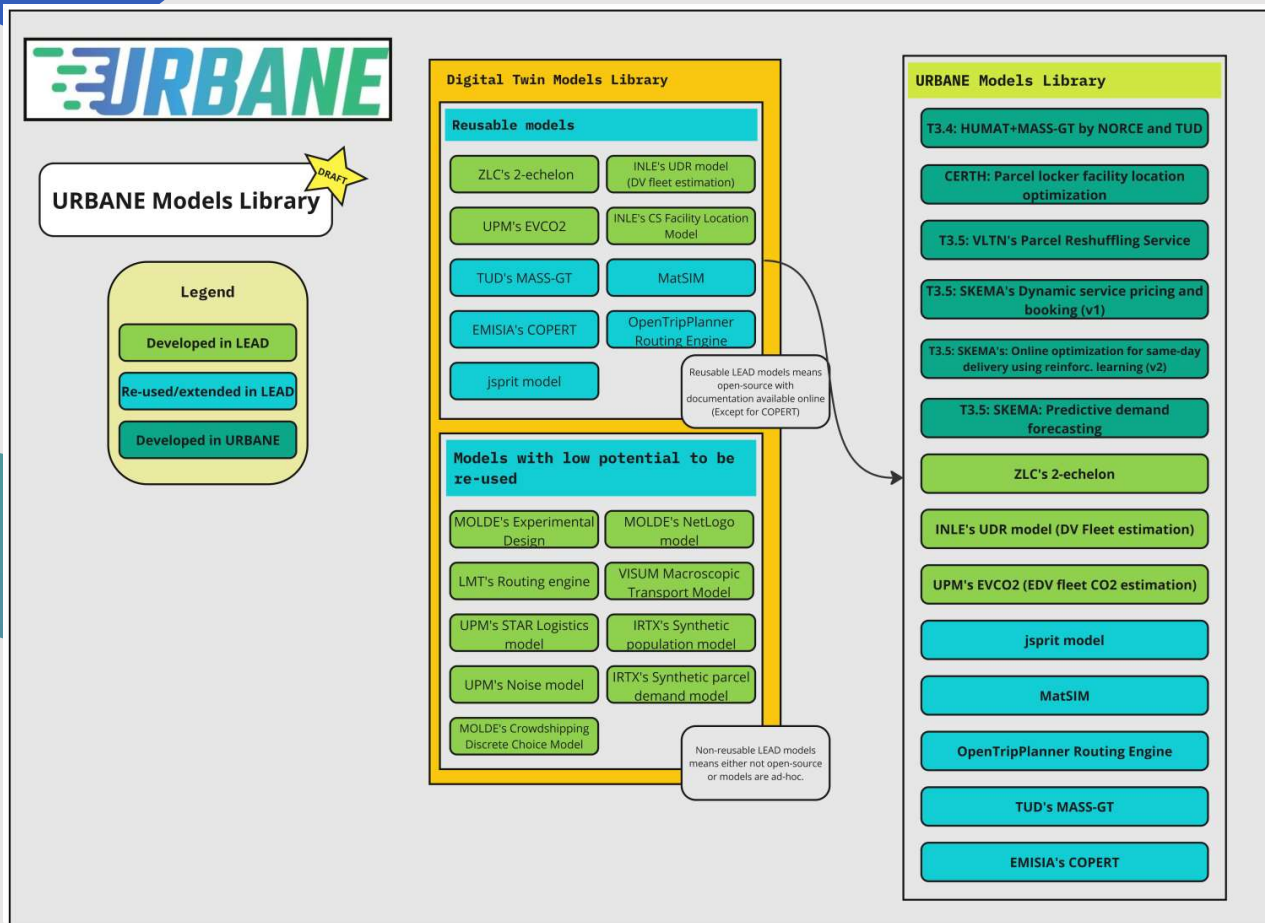


# URBANE Lighthouse Ls: Thessaloniki (4)

Thessaloniki's LL main goal is to enable the operation of a Parcel Locker-based Hub and Spoke delivery model supported by Digital Twins.



# The URBANE Platform's Model Library



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# Thank you for your attention. Any questions?

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