



5 pillars to decarbonise the last mile logistics in Europe

# Innovative solutions in last mile deliveries in Tallinn Old Town

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This project has received funding from the European Union's **Horizon Europe Research and Innovation programme** under Grant Agreement No. **101069806**

# Tallinn Old Town

- UNESCO World Heritage Site
- on average 4-5 cafes/restaurants/shops per 100 metres
- 700,000 tourists annually
- defined freight routes and identified loading zones for the area, available 06:00-10:00 a.m.
- deliveries by vans: noise, CO2 emissions, local air pollution (NOx, PM), safety



# Pilot project: robotic couriers by Clevon



Photo: Clevon

- unmanned (remote-controlled) robotic couriers provide parcel delivery services in the Old Town in partnership with DHL Express Estonia
- electric, noise- and emission-free
- allowed to operate outside the service hours of the Old Town

## Starship's self-driving robots

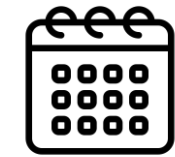
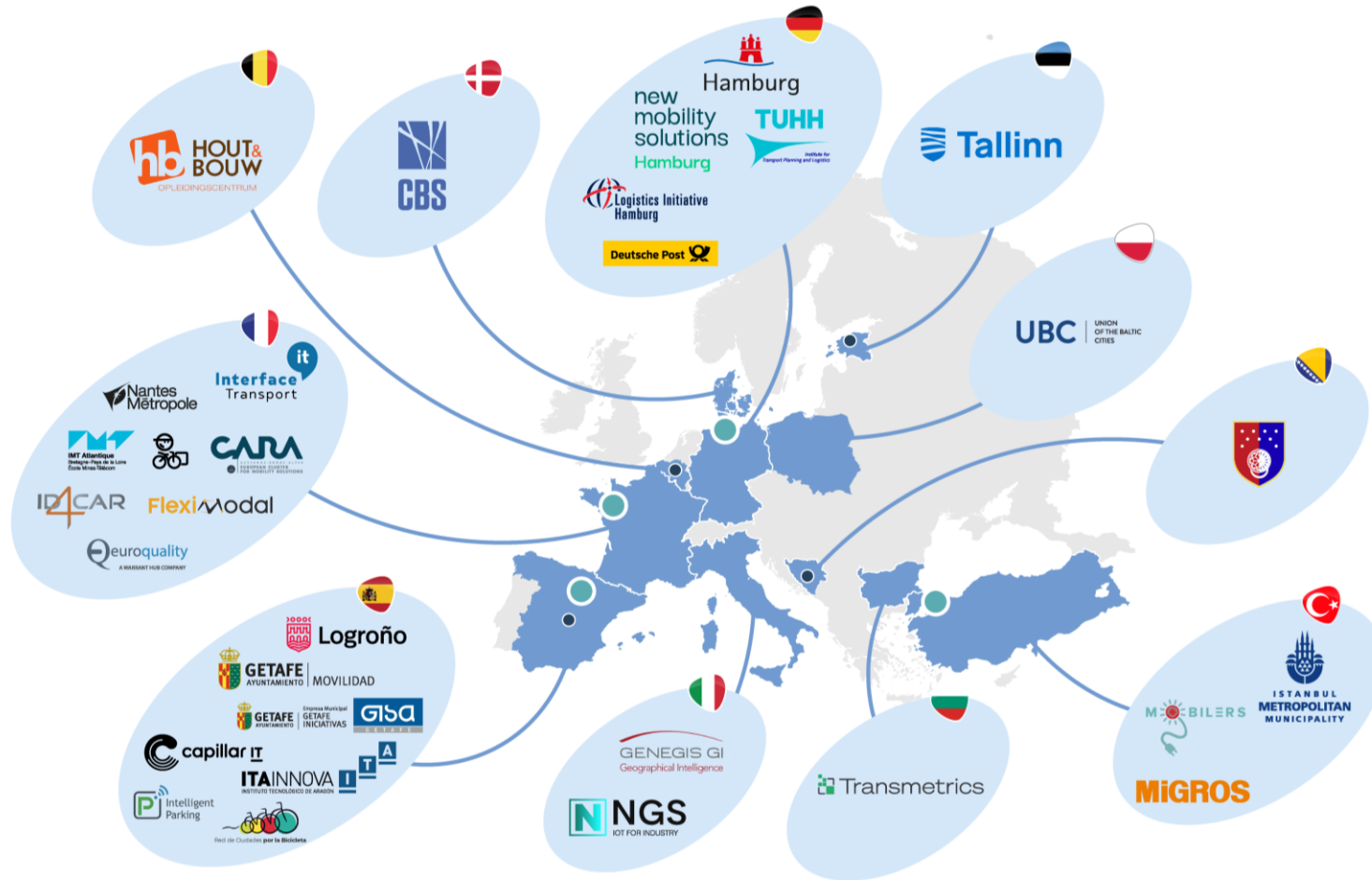


Photo: Bloomberg



Photo: courtesy of Starship

# DECARBOMILE Key Facts & Figures



48  
months

1st September 2022

31st August 2026



7.9  
million

from the EU's Horizon Europe Research and Innovation program out of a total budget of 9.6 million euros

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# General Objective



DECARBOMILE will develop **interoperable and multimodal logistics solutions for decarbonised last-mile delivery** in urban contexts.

These different solutions will be further tested in **4 Living Labs** and **4 Satellite Cities** to demonstrate their **effectiveness** and **replicability** potential.

# Use Cases in the different cities

Different use cases will include the implementation and evaluation of the **following solutions and tools developed:**



Urban and micro consolidation centres: hubs, micro-hubs (mobile or not), smart lockers, micro containers, etc.



Multimodal transport (road, rail, water...) and zero-emission vehicles (cargo-bike, barge, etc.)



Consolidated flows (parcel, food, reverse flows, etc.)

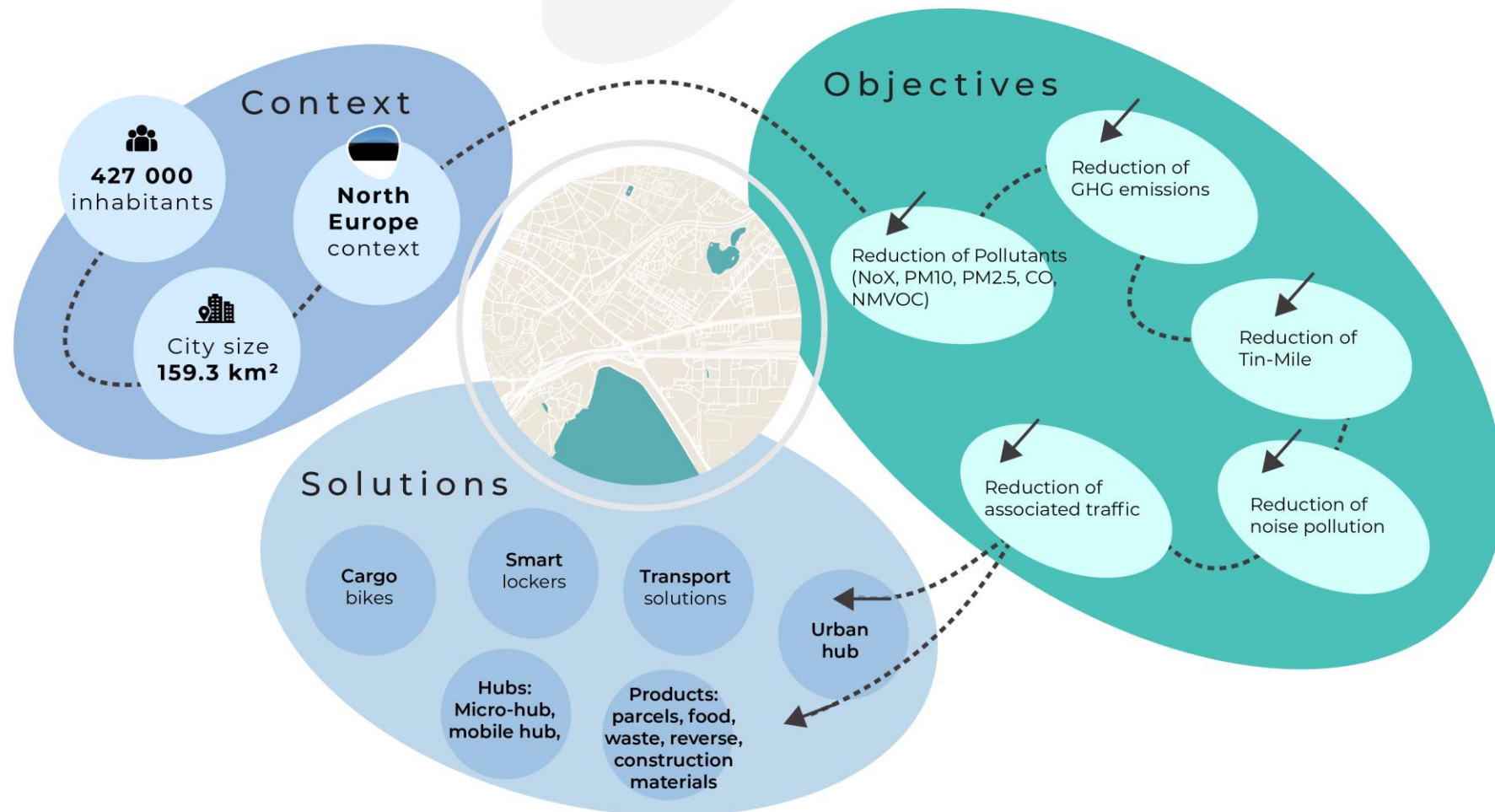


Digital infrastructure for the simulation and optimisation of logistic operations





# Satellite #1 Tallinn – Estonia





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# THANK YOU!

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