

Urban logistics /
Last mile

Automation
(Physical) and
robotics

Helsinki: shared micro-hubs with Autonomous Delivery Vehicles (ADV)

URBANE

A2B

DHL

DISCO

Helsinki

Developed by :

DB SCHENKER

WÜRTH

LMAD
Enabling the future of delivery

TwinswHeel
Droid Manufacturer Corporation

FORUM
VIRIUM
HELSINKI

Project by :

URBANE



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European Union

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Operational fields

Technologies

Solutions



SHARED MICRO-HUBS IN CITY CENTRE

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Solution description

Shared micro-hubs in city centre

A **micro-hub** in the city centre in Helsinki has been established in order to explore whether the number of vehicles can be reduced, and last-mile deliveries facilitated in city centres that are difficult to reach and with limited access to parking. The micro-hub **supported operations executed by an Autonomous Delivery Vehicles (ADV)** which has an integrated modular parcel locker system.

The goal was to contribute to physical internet by enhancing the collaboration of the ecosystem using a data-driven micro-hub. In addition, it would enable fusing and managing the physical, digital, virtual, emerging technologies, data, people, companies, ideas and business models in a novel way.



Benefits

- **Collaboration:** the micro-hub has been used by big players, e.g. DB Schenker and DHL Express.
- **Use of existing space:** the micro-hub is in a shopping centre and enable
- **Smart contract to ensure data security:** Block-chain enabled smart contracts to protect privacy and commercial interests

Main beneficiaries:

- E-commerce providers
- Logistics service providers
- Operators and owners of parcel lockers, pick-up points and micro-hubs
- Local authorities & real estate owners

With help from Autonomous Driven Vehicles (ADV)



Technology readiness level : **6**
Implementation stage : **Pilot**

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SHARED MICRO-HUBS WIT ADVS ASSETS AND SPACE

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- **Physical Internet (PI)** concept enabling the consolidation and knowledge exchange inside a shared space.
- **Physical infrastructure:** a private property, a manned service point of DHL Express with charging infrastructure for ADVs and cargo bikes.
- **Digital infrastructure:** data integration between players.

Join us to experience
the micro-hub in
Helsinki



Would you like to know more?
Take contact :



<https://www.urbane-horizoneurope.eu/demonstration-cities/lighthouse-living-labs/helsinki-finland/>



www.urbane-horizoneurope.eu

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