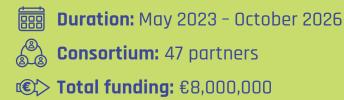
Transforming urban logistics to a different beat

Greenhouse emissions and traffic congestion are one of the most significant challenges we face today - and the way we deliver our goods and freight services and move around the city plays a massive role in this.

Addressing sustainability and digital considerations in urban freight transport may help city planners to facilitate last-mile delivery and servicing in the context of urban mobility, through improved design, dynamic use of infrastructure and an appropriate mix of policy tools.

Our uniquely named project DISCO aims to support cities in undertaking the Physical Internet transformation of urban logistics and sustainable planning and to optimally and strategically manage urban and peri-urban space.

Key facts:





Our partners

DISCO is a collaboration between 47 partners: cities, technology and service providers, industry and SMEs, real estate companies, research organisations and universities, and network organisations. The project is coordinated by FIT Consulting.



For more Information

Visit our website and follow us on social media:

 \oplus discoprojecteu.com X @DISCOprojectEU in disco-project-eu

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Data-driven and Dynamic Space and Assets for Physical Internet-led **Urban Logistics and Planning**



DISCO's approach: the Meta Model Suite

A new generation of urban freight at **European Living Labs**

DISCO stands for 'Data-driven, Integrated, Syncromodal, Collaborative and Optimised urban freight meta-model for a new generation of urban logistics and planning with data sharing at European Living Labs'. Our aim is simple: to support the EU mission cities in achieving their climate goals by 2030, letting our living spaces breathe new life away from air pollutants.

How? We will drive EU Cities towards a Physical Internet (PI) approach that aims to overcome possible trade-offs between the accessibility of goods and services, quality of life and environmental aspects necessitating fewer kms travelled to deliver the same amount of goods.

23 data-driven innovation measures will be demonstrated across our Living Labs, pertaining to **five domains** in our Meta Model Suite:





Proximity based last mile



Advanced real time

These use cases are located within the Urban Freight Data Space, which is a decentralized IDS based ecosystem that enables urban logistics and mobility actors to seamlessly share data with each other on a secure and sovereign manner.

We will develop 23 solutions on optimal and flexible use of urban space for logistics in 8 European Living Labs:

Starring Living Labs (Step 1 Demonstration)

Copenhagen (DK)

Use of shared transport facilities as urban micro-hubs and open consolidation hubs through real time data collection by logistics service providers.



Ghent (BE)

Public-Private cooperation for dynamic, data-driven and automated communications, incentivising effective and zero emission operations in last-mile deliveries.



Thessaloniki (EL)

Multipurpose, multi-tenant and temporary use of buildings as logistics hub, supported by optimally located smart data collection via road sensors, to help detect freight flows and zero-emission freight transport.



Helsinki (FI)

Multifunctional micro-hubs with network management and flexible use of space promoting use of zero-emission freight transport modes (bikes and vans) to implement dynamic Low Emission Zones.





Twinning Living Labs (Step 2 Demonstration)

Padua (IT)

Dynamic urban space re-allocation adopting modular lockers and coordinated network in real-time with logistics service providers.

DISCO-X involved:



Spanish Cluster: Barcelona, Valencia, and Zaragoza (ES).

Boosting advanced B2C/B2B last-mile for local commerce valorising micro-hubs in underused spaces, powered by smart predictive models and operated by zero-emission vehicles and smart curb side use, generating green business opportunities.

DISCO-X involved:



Follower Cities (Step 3 Demonstration)

► 4 Follower Cities will be early adopters of DISCO solutions to scale up their deployment and replicability. Prague (CZ) Piacenza (IT) Aarhus (DK) North Hesse (DE)

