

Upscaling innovative green urban logistics solutions through multi-actor collaboration and PI-inspired last mile deliveries

Duration: 42 months
Start: 1 September 2022
End: 28 February 2026
Overall Budget:
Total Cost: € 10.097.234
EU contribution: € 8.783.043
Budget for the Municipality of Bologna:
Total Cost: €399,925
Expected funding
(pari al 100%): €399,925
EU Funding Programme
Horizon Europe

PARTNERS:
39 partners from 12 European Countries, among which 12 cities:

- Bologna,
- Valladolid (E),
- Helsinki (FI)
- Salonicco (GR)

as pilot cities who will test innovative solutions;

- Barcellona (E)
- Karlsruhe (D) as twin cities who will replicate some identified solutions;
- Aarhus (DK),
- Anversa (BE),
- Mechelen (BE),
- Praga (CZ),
- La Rochelle (F)

- Ravenna (IT) as follower cities, that will be identified for capacity building actions and feasibility studies.

In addition, leading logistics service companies, transport operators, associations, networks and foundations operating in the field of mobility at local, regional and international level.



OVERVIEW

The e-commerce sector has recently gone through a period of continuous economic growth. A trend strongly reinforced by the COVID-19 pandemic - recording 129% annual growth of sales and 146% growth in terms of number of orders. This trend is expected to further increase by 78% by 2030, resulting in a 36% increase in delivery vehicles within urban areas and historic centres. As the growth of e-commerce accelerates, the question of sustainability then becomes more and more important. The last mile of e-commerce deliveries has the highest concentration of emissions and an increased demand can be translated into an increase in last mile CO2 emissions by 25 million tons per year and an increase in traffic congestion of 21%.

GOALS

To achieve new methods and operating models optimizing and making the last mile of deliveries greener, investing in physical infrastructures and new technologies.

ACTIVITIES

At a local level, and in line with what has already been outlined in the Sulp (Urban Plan for Sustainable Logistics), Bologna will create three micro-logistics areas near the historic centre, dedicated in particular to transshipment activities from traditional vans to cargo bikes or electric vehicles.

EXPECTED RESULTS

To test a zero-emission shared delivery model for the last mile delivery to customers and businesses in urban areas; the model will include standard and interoperable modular solutions for deliveries, such as the integration of e-cargo bicycles and shared cargo storage locations, with the aim of optimizing loads and improving interconnectivity.



Municipal departments Involved:

Sustainable Mobility and Infrastructures (Local Technical Coordinator: Luca Bellinato)