

# ASPIRE



ADVANCED LOGISTICS  
PLATFORM WITH  
ROAD PRICING AND  
ACCESS CRITERIA TO  
IMPROVE URBAN  
ENVIRONMENT AND  
MOBILITY OF GOODS



With the contribution of the  
LIFE financial instrument  
of the European Commission

## ADVANCED LOGISTICS PLATFORM WITH ROAD PRICING AND ACCESS CRITERIA TO IMPROVE URBAN ENVIRONMENT AND MOBILITY OF GOODS

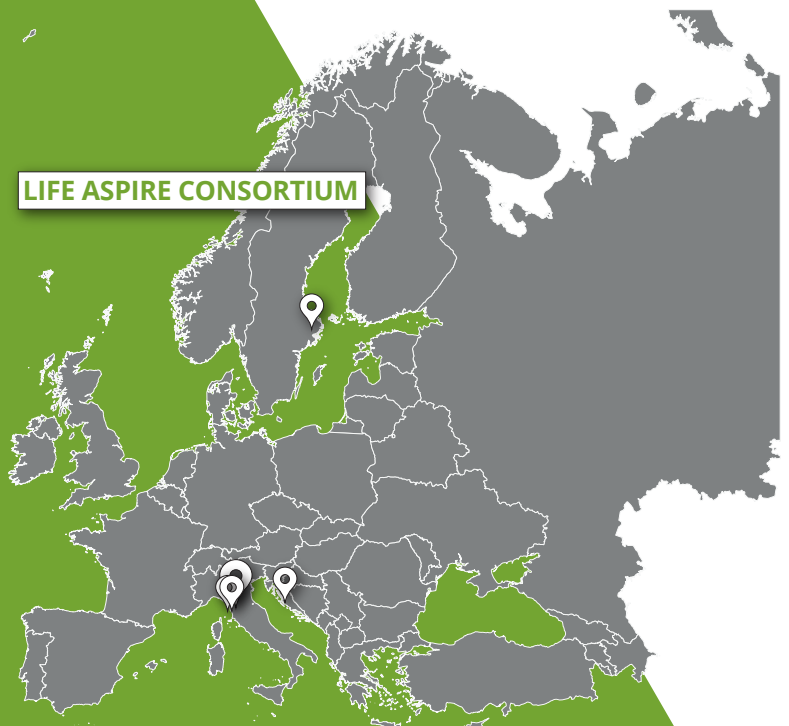
### ***Make sustainable city logistics!***

The awareness of the impacts of urban freight transport on European towns has reached momentum. Urban freight transport is responsible for 20% of freight transport CO<sub>2</sub> emissions despite freight vehicles represent only 12-15% of total urban traffic. Although significant efforts are made in EU cities, the need of accelerating and spreading the implementation of more sustainable urban logistics solutions has become urgent. According to this, **Access Control Systems to the Restricted Traffic Zone (RTZ) represents one of the main tool for reducing traffic congestion and for implementing enforcement policies in urban areas.** In general, the related ICT infrastructures are nowadays installed in EU towns and are available for the application of specific enforcement control schemes, aimed at reducing the negative impacts of last mile logistics.

**LIFE ASPIRE Consortium** is led by the **Municipality of Lucca**. Three technical associated beneficiaries, from Italy, will support the Municipality in the development of the project. **KIUNSYS** is one of the main players in the Smart Mobility market and ITS industry in Italy; **LUCENSE** is a non-profit limited liability consortium-like company working on different topics such as R&D, industrial research, technology transfer. **MemEX** is an independent engineering consultancy company composed by experts with a high level of experience on Logistics systems and services, Urban Mobility and Public Transport.

LIFE ASPIRE plan to transfer its approach, measures and eco-sustainable city logistics services to other small/mid-size urban areas of dimension comparable with Lucca but in different context ("Peninsula" historic area in Zadar – Croatia) and also evaluate the potential scalability to large metropolitan area ("Gamla Stan" historic centre in Stockholm – Sweden).

**LIFE ASPIRE CONSORTIUM**



## THE PROJECT

LIFE ASPIRE aims at developing an innovative “credit-based” management policies for freight traffic in urban area, to implement new city logistics services and supporting ICT to promote sustainable and smart management of urban environment and commercial traffic in project’s cities.

The project will be implemented in Lucca historical city centre and will aim at real-life validation and assessment of the proposed approach, solutions and measures that are to be considered new for the specific context of the project (urban freight distribution).

The project will define and implement a “credit based” access policy allowing flexible road pricing criteria related to the last mile goods delivery.

The project will define and implement a “credit based” access policy allowing flexible road pricing criteria related to the last mile goods delivery: a dedicated management platform, two innovative services (Loading/Unloading Bays and Cargo-bike sharing stations) and the improvement of the existing Restricted Traffic Zone (RTZ) access control system are the main elements of LIFE ASPIRE actions.

## Expected results

Reduce the current levels of freight traffic by decreasing the total number of commercial vehicles in last mile deliveries operations in the inner historic centre of Lucca (in particular in the RTZ).

Reduce the current levels of environmental pollution due to commercial vehicle emissions.

Reduce the related energy consumptions and noise pollution.

Reduce risks for historic buildings due to vibrations resulting from heavy traffic.

Improve the safety for pedestrian.

Promoting the adoption of low/zero emission vehicles by transport operators.

Foster the transport operators to use logistics services provided by certified logistics and consolidation centres thanks to the new enforcement and access policy.

Provide new eco-logistics services for transport operators in last mile deliveries (Load/Unload Bays and Cargo-bike Sharing), both managed by the innovative platform.

Improve the urban environment and, consequently, the quality of life for residents, visitors and tourists.



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Città di Lucca



GRAD ZADAR

[www.life-aspire.eu](http://www.life-aspire.eu)

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