MED COLOURS | Interreg Euro-MED | Co-funded by the European Union

Pilot Factsheet – Lisbon

Pilot action overview

Lisbon is Portugal's capital with a population of 545 142 inhabitants (2021), being the core municipality of the country's largest functional urban area (FUA): the Lisbon Metropolitan Area, with a total population of 2 870 208 inhabitants (2021). The metropolitan area is composed of 18 municipalities with radial road and rail infrastructure linking into the conurbation's centre, Lisbon.

The city's transport network is intensive, with the city being the western-most large harbour and major international airport hub in the European continent, also served by four high-traffic rail corridors, ten motorways and several national highways.

At the city and metropolitan level Lisbon is served by an extensive public transport network with trains, subway, trams, buses, and ferry boats to outlying municipalities. One of Lisbon's major challenges is that of controlling incoming road traffic which congests all city accesses and the entire municipality itself.

Lisbon, in some of its central business districts, namely the historic and touristic downtown area Historic Centre – Baixa Pombalina, presents impacts of different types that are important to characterize and put in place solutions to overcome them.

It is therefore important to take management measures that minimize those impacts, in particular the environmental ones, taking advantage of the MED COLOURS project opportunity to tackle inefficiencies related to the logistics sector scope.

Logistics policy wise, CML anticipates improving city logistics efficiency, reducing environmental impacts, and enhancing the resilience of supply chains though a better understanding of the operating logistics ecosystem.

Within the scope of MED COLOURS, the Lisbon's City Executive option, the downtown area (Historic Centre – Baixa Pombalina) is the territory elected to act upon, namely its Low Emission Zone component.

MED COLOURS initial application objectives were reoriented due to the political goal to tackle the Low Emissions Zone (LEZ) logistics transition within the 2025-2030 window, which implies outputting a LEZ SULP, stemming from MED COLOURS support, that aligns with Lisbon LEZ regulatory (and access control) transition calendar.

Lisbon Municipality has defined and prioritised target actions serving this territory, namely:

- Logistics demand and supply characterization and scenario building propositions
- Revision of access regulations and setup of an access control system

- Fully *sensorized* loading/unloading parking and underground parking scheme
- Assesment and validation of a multi-purpose logistical centre

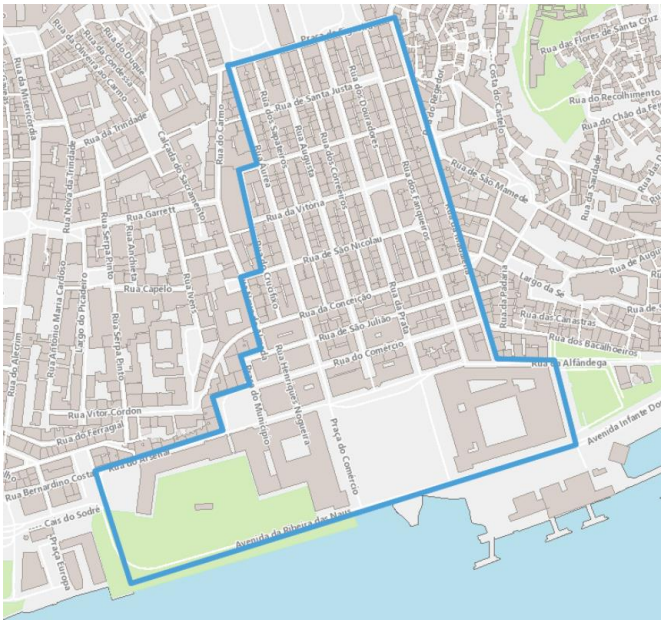
The Municipality has therefore chosen to proceed with the elaboration of relevant output studies in line with MED COLOURS objectives:

a) Characterization of *Baixa Pombalina* logistics demand

b) Characterization of *Baixa Pombalina* logistics supply

c) Scenario building propositions

d) Definition, planning and specifications for implementation of a multi-purpose logistics consolidation centre



Delimited LEZ area in downtown Lisbon historic centre

Action Plan – timeline

Pilot Action	2025											
	J	F	M	A	M	J	J	A	S	O	N	D
Activity 1												
Activity 2												
Activity 3												
Activity 4												

Activity 1 - Characterization of *Baixa Pombalina* logistics demand

This activity will be implemented through door-to-door surveys targeting merchants and service providers, including those within the HORECA (Hotels, Restaurants and Cafés) channel. The surveys will be conducted by an external entity to ensure methodological rigor and data consistency.

The expected output is a comprehensive descriptive report outlining the demand-side logistics profile of the Baixa Pombalina area. The report will detail temporal delivery patterns, volumes handled, types of goods received, and the nature of logistics equipment in use. It will also document available storage infrastructure and the presence and adequacy of logistics support facilities—such as goods reception points, designated loading/unloading zones, and parking conditions for delivery vehicles. The scope of the survey aims to encompass the approximately 700 active commercial and service establishments operating in the area, ensuring a granular understanding of logistics needs to support future scenario planning and urban freight regulation strategies. This activity will lead to deliverable D.2.2.1.

Activity 2 - Characterization of *Baixa Pombalina* logistics supply

This activity will be carried out through a combination of structured in-house surveys and in-depth interviews with a representative sample of logistics supply operators and other key stakeholders engaged in territorial logistics within the Baixa Pombalina area.

The goal is to develop a comprehensive characterization report detailing the operational logistics supply profile. This includes information on vehicle typologies in use, typical routes within the area, origin–destination matrices, delivery and service schedules, frequency of operations, and identification of critical time windows. Additionally, the report will capture data on average loading and unloading times, procedures and parking practices, types and volumes of goods transported, as well as the human and material resources mobilized (including workforce profiles and equipment used). This evidence base will be instrumental in informing scenario development and future regulatory adaptations. This activity will lead to deliverable D.2.2.2.

Activity 3 - **Scenario building propositions**

This activity will be driven by technical external expertise conducting scenario building propositions.

The aim is for this process to result in a strategic report guiding a phased and sustainable territorial logistics transition in Baixa Pombalina. This transition will be grounded in the processing and cross-analysis of data from logistics demand and supply patterns, including operations, needs and territorial constraints. The objective is to develop operational scenarios that integrate these variables, providing a solid basis for informed decision-making. Ideally, this transition will be implemented in alignment with the rollout schedule of the revised Low Emission Zone (LEZ) operational regulations, ensuring consistency between environmental, operational, and territorial goals. This activity will lead to deliverable D.2.2.3.

Activity 4 - **Definition, planning and specifications for implementation of a multi-purpose logistics consolidation solution**

This activity will be guided by external technical expertise with proven experience in urban logistics systems and infrastructure planning. The objective is to define and structure a viable multi-purpose logistics consolidation solution tailored to the operational and spatial characteristics of the Baixa Pombalina area.

The expected outcome is a Feasibility Report, serving as a specialized technical support study. This document will outline the functional scope of the consolidation solution, including detailed planning of required infrastructure, access conditions, resource needs (both human and material), and integration with existing urban mobility and logistics networks. It will also present technical specifications for design, construction, and operation, as well as provide guidance for the selection and implementation of suitable management and operational/business models—whether public, private, or hybrid. This analysis will consider scalability, environmental performance, and alignment with local regulatory frameworks, ensuring the long-term sustainability and effectiveness of the solution. This activity will lead to deliverable D.2.2.4

Stakeholders involved

Organization	Description	Role
CML – LEZ Project Team	LEZ Project Team – constituted by internal CML stakeholders of diverse Departments (including EMEL), superintended by the vice-mayor's cabinet.	Definition, planning and specifications LEZ solution where Baixa Pombalina logistics issue is included. It includes resources, infrastructure and accesses planning, including technical specifications.
Lisboa E-Nova	MED COLOURS local knowledge project partner	Technical support and expertise in sustainable urban mobility, energy,

		climate action, urban innovation and environmental policy.
EMEL	Municipal Mobility and Parking company	Expertise and information sharing - Traffic and parking Data - and eventual combined projects concerning Load and Unloading parking sensor and monitoring solutions.
PM (CML)	Municipal Police	Expertise and information sharing - monitoring solutions.
ADBP	Baixa Pombalina Promotion Association	Sectorial Data, contacts, and expertise. Contribution for the characterization of the establishments in the designated studied area (Baixa Pombalina).
JFSMM	Santa Maria Maior Parish	Contribution for the characterization of the establishments in the designated studied (Baixa Pombalina)
APLOG	Logistics Portuguese Association	Sectorial Data, contacts, and expertise
AHRESP	Portuguese Hotel, Restaurant and Similar Association	Sectorial Data, contacts, and expertise
UACS	Merchants and Services Association	Sectorial Data, contacts, and expertise
APL	Lisbon Port Administration	Eventual infrastructure, expertise
IP	Portugal Infrastructure	Eventual infrastructure, expertise