Objectives of the measure

- **At measure level:**
  - Improve planning towards achieving city mobility goals, Vision Zero, and amplifying multimodal mobility;
  - Study mobility patterns and propose corrective measures accordingly.

- **Contributing to city level objectives of:**
  - Uptake actions to align Lisbon to be one of 100 Climate-Neutral and Smart Cities by 2030.

Description of the measure

- **Situation before**:

Lisbon has a municipal and metropolitan Sustainable Urban Mobility Action Plan, since 2016 (reviewed in 2019); however, it is not updated anymore, for the challenges the city and metropolitan area faces today and in the forecast future.

- **General description:**

Lisbon city and TML are currently launching their public tenders to develop 3rd generation of the metropolitan and municipal SUMPs, that we expect to relate directly to the UPPER measures, since they overlap in time (Lisbon's expectation is to have a closed document by the end of 2023 and TML by 2024).

In addition, multiple studies will be conducted to complement the measures defined in the SUMPs: The city of Lisbon shall work on the development of a Municipal Road Safety Plan that will include car speed restriction measures; TML will review and adjust its PT offer to meet customer needs; likewise, CARRIS will also conduct studies to review its network.

- **Sub-measures description**
  - **LIS_03_01:** Bus offer service evaluation and adjustments
  - **LIS_03_02:** Adjustments to the metropolitan SUMP, depending on twinning activities
  - **LIS_03_03:** Adjustments to the municipal SUMP, depending on twinning activities
  - **LIS_03_04:** New municipal road safety plan
  - **LIS_03_05:** Studies for CARRIS network for the revision for the SUMP

- **Measure outputs:**

This measure will deliver:

- UPPER related measures integrated in the SUMP, with a definition of monitoring indicators;
- A study comparing and assessing to what extent the city is on track to achieve vision zero and public transport and climate-neutrality targets;
- An in-depth study of the CARRIS' network and passenger needs, to detect critical issues in the network coverage and highlight potential avenues for improvement;
- At least, yearly adjustments in the bus offer plans, to improve quality and reduce environmental and climate impacts.

- **Supporting activities**:

- Stakeholder and citizen engagement activities;
- Communication and dissemination activities;

- Complementary analyses;
- Evaluation of Financing framework;

- **Interaction with other city measures: UPPER and non-UPPER measures**

This measure has a global approach that relates to all the remaining city measures.

Target groups and/or geographical impact areas

- **Target groups:** All citizens (car users, PT users, cyclists, pedestrians)
- **Geographic impact area:** Lisbon Metropolitan Area.

Stakeholders

The following stakeholders will be required for the implementation of this measure.

- **Municipal partners:** In particular, the urban and mobility planning, environment and participatory departments;
- **Parish councils:** Facilitators of resident involvement;
- **ANSR (Road Safety National Authority):** To authorize changes in regulatory framework for road traffic regulations and road fatalities data collection;
- **PTOs:** CARRIS, CARRIS Metropolitana, Metro, CP;
- **EMEL:** Parking and municipal bike-sharing manager and data provider;
- **Ride hailing and other shared vehicles operators**;

U-tools support

The implementation of this measure will be actively supported by several IT tools from the UPPER toolkit:

- **U-NEED:** This tool may help integrate data from different transport modes, detect inefficiencies and define strategies to optimise it;
- **U-SIM.plan:** This tool is expected to help simulate the options generated with U-NEED, and model multimodal transport and new active modes, and several other functionalities, like air and noise pollution assessment, which are useful to address SUMP adjustments;
- **U-SUMP:** This tool will help monitor and visualize results of SUMP related UPPER measures;
- **U-GOV:** This tool shall facilitate the development of participatory actions involving the citizens.

Link to other UPPER measures

This measure is similar to UPPER measures implemented in other cities, especially:

- **IDF_01:** Participative governance framework for the update of the regional SUMP;
- **OSL_03:** Develop a roadmap for new mobility alternatives and operating models to reduce the private car ownership.

Process of implementation of the measure

Stages	Description	Intermediate milestones
Design	Data collection on Carris Metropolitana demand. Preparation of the Terms of Reference for the SUMP. Data collection on CARRIS demand.	- Historical data collection.
Preparation	Analysis of the demand patterns of Carris Metropolitana. Preliminary data collection and diagnosis for the SUMP. Analysis of mobility patterns of CARRIS passengers. Evaluation of service gaps, low coverage areas, and potential demand capture opportunities.	- Analysis of the historical demand patterns for Carris Metropolitana; - Historical data compilation and assessment for the SUMPs; - Analysis of the service gaps in the CARRIS network; - Development of possible alternative designs and for improving the CARRIS network.
Implementation	Design of a new Carris Metropolitana bus service offer. SUMP and Road Safety Plan Development. Design of a new CARRIS network.	- New Carris Metropolitana bus offer; - New Municipal and Metropolitan SUMPs proposed; - New Road Safety plan proposed; - Definition of viable CARRIS network alteration and enhancement options.

Sub-measures and preliminary indicators

Measure	Sub-measure *(if applicable)*	Impact indicators
LIS_03	**LIS_03_01:** Bus offer service evaluation and adjustments.	- Number of lines - Number of stops - Number of schedules - Commercial bus speed
LIS_03	**LIS_03_02:** Adjustments to the metropolitan SUMP, depending on twinning activities.	- KPIs monitored by U-SUMP (TBD)
LIS_03	**LIS_03_03:** Adjustments to the municipal SUMP, depending on twinning activities	- New SUMP developed, integrating UPPER related measures - KPIs monitored by U-SUMP (TBD)
LIS_03	**LIS_03_04:** New municipal road safety plan	- Road safety Plan approved
LIS_03	**LIS_03_05:** Studies for CARRIS network for the revision for the SUMP	- Number of lines - Number of stops - Number of schedules - Network coverage (km2)