



1 Jun. 2025 – 30 Nov. 2028



The project aims to optimise multimodal network and traffic management for an efficient transport network and seamless door-to-door mobility of passengers and freight. Solutions explored will cover smart data collection and management for both infrastructure and mobility/freight, integration of novel forms of mobility and services and optimisation of strategies and tools for multimodal network and traffic management.



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#### PARTNERS OF THE PROJECT



**Multimodal Optimisation  
leveraging Data  
Acquisition from Local  
Stakeholders towards a  
Holistic Improvement of  
Freight and People  
Transport**

## PROJECT AND PILOT SITES PRESENTATION



## Two use cases

### 1 DIGITAL TWIN OF MADRID'S TRANSPORT NETWORK

Creation of a digital twin virtually representing the Madrid transport system using open mobility data



### 2 MULTIMODAL HUB INTEGRATION AT ESTACIÓN SUR

Integration of passenger & freight transport within the Estación Sur transport hub



#### OBJECTIVES

- Reduce connection delays for passengers through coordinated multimodal services
- Introduce Capacity-as-a-Service (CaaS), using available space in public transport vehicles to transport freight



Who?

1

CITIZENS OF THE MADRID METROPOLITAN AREA



2

FREIGHT COMPANIES AND PUBLIC TRANSPORT OPERATORS



3

PUBLIC AUTHORITIES



#### USE CASES DETAILS

AREA 8,000 KM<sup>2</sup>

INHABITANTS 6.7 MILLION

## MULTIMODAL TRAFFIC MANAGEMENT (MTM) SYSTEM

To enable more agile, coordinated, and data-driven management of port shunting operations in the Port of Trieste by improving interoperability across maritime, rail, and last-mile logistics.



#### OBJECTIVES

- 10% increase in shunting the operation efficiency
- 15% reduction in reaction time in the event of a late vessel or train



Who?

1

ADRIAFER (ADF) & THE PORT NETWORK AUTHORITY OF THE EASTERN ADRIATIC SEA (PNAEAS)



2

RAIL & SEA INFRASTRUCTURE OPERATOR



3

CONTAINER TERMINAL MANAGER



## TWO USE CASES

### 1 LOW-CARBON URBAN FREIGHT VIA CARGO-BIKE OPTIMISATION

Sensors deployment on the bikes and introduction of a Track & Trace & Monitoring (T&T&M) system combined with a Horeca-oriented "pay-per-use" sharing model.



### 2 ENHANCING PUBLIC TRANSPORT AND ACTIVE MOBILITY

Adaptation of public transport and active mobility schedules/services to seasonal demand patterns and upcoming bike-lane developments.



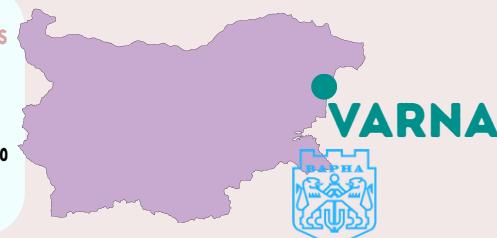
#### OBJECTIVES

- To enhance sustainable urban mobility and to reduce congestion in Varna by strengthening low-carbon logistics, improving intermodality, active mobility and upgrading the city's data and digital infrastructure.
- To enable evidence-based transport management, support seasonal demand peaks and increase the efficiency, resilience, and sustainability of Varna's overall mobility system.

#### USE CASES DETAILS

AREA 238 KM<sup>2</sup>

INHABITANTS 323,000



Who?



VARNA INHABITANTS AND LOCAL COMMERCIAL SHOPS

1



INSTITUTIONAL AND OPERATIONAL INSTITUTIONS

2



LOCAL COMPANIES SUPPORTING DATA COLLECTION

3

