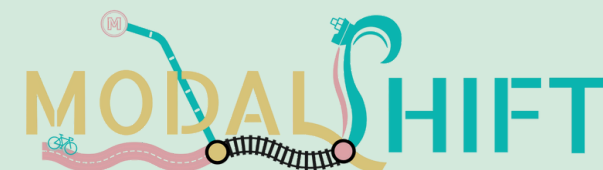




1 Jun. 2025 – 30 Nov. 2028



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.



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



**Funded by
the European Union**

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them.

PARTNERS OF THE PROJECT



**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 KM² |
| 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

USE CASES DETAILS

AREA 84 KM²

INHABITANTS 199,311



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.



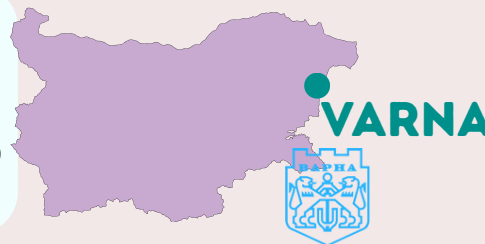
OBJECTIVES

- 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 KM²

INHABITANTS 323,000



Who?



VARNA INHABITANTS AND LOCAL COMMERCIAL SHOPS

1



INSTITUTIONAL AND OPERATIONAL INSTITUTIONS

2



LOCAL COMPANIES SUPPORTING DATA COLLECTION

3