



DELPHI

Insights into the DELPHI town concept and the creation of efficient governance frameworks for traffic management

MTMC Webinar

Networks and Traffic Management: current status and future developments in EU R&D activities

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12 November 2024



DELPHI

DELPHI at a glance

Key facts & Team

DELPHI key facts



- **Full Title:** FEDERATED NETWORK OF PLATFORMS FOR PASSENGER AND FREIGHT INTERMODALITY
- **Project ID:** 101104263
- **Call and Topic:** HORIZON-CL5-2022-D6-02-05 (“Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport”)
- **Funded Under:** Horizon Europe
- **Funding Scheme:** RIA –Research and Innovation Action
- **Duration:** 36 months, 01 July 2023 – 30 June 2026
- **Total Cost/EU contribution:** EUR 4,999,561.5
- **Project Coordinator:** Institute of Communication and Computer Systems (ICCS)



Funded by the
European Union

DELPHI project has received funding under grant agreement No 101104263. It is 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.

DELPHI Consortium



DELPHI brings together a complementary consortium:

- of 16 partners (+1 associated partner and 1 affiliated entity),
- from 8 EU and associated countries

with the vision to address the growing challenges of passenger and freight mobility.



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DELPHI's vision

Concept & Use Cases

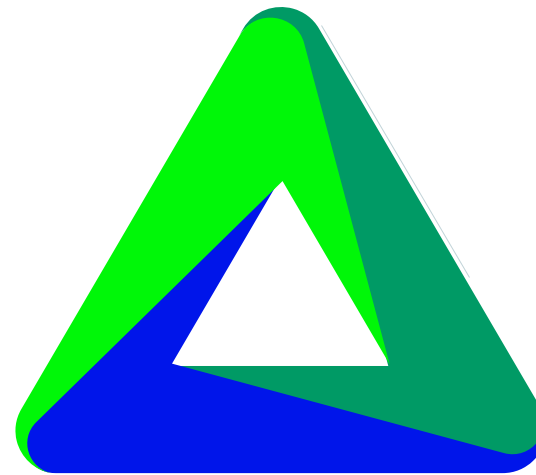
DELPHI Concept



DELPHI focuses on the strategic dimension of **integrating passenger and freight transport** in a single system, working towards integrating sectors, harmonizing data, and leveraging advanced methodologies, to transform transportation systems, for a sustainable future.

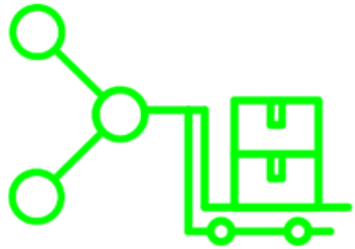
1st pillar
Governance, Ecosystem specification

2nd pillar
Architecture, Data, Processing, Optimisation



3rd pillar
DELPHI Validation activities through realistic pilot demonstrations

DELPHI Use Cases



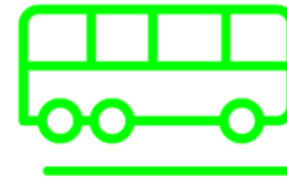
MADRID USE CASE

Multimodal transport for a Sustainable Last Mile Delivery (LMD) supported by blockchain for sharing economy in the e-commerce Channel (Spain)



ATTIKA USE CASE

Integrated freight and passengers' models and data sharing framework in the Attica region (Greece)



MYKONOS USE CASE

Integrated freight and passengers' models and data sharing framework at the island of Mykonos (Greece)



CLUJ-NAPOCA USE CASE

Integrated passengers' models and data sharing governance framework in the Cluj-Napoca Metropolitan Area (Romania)



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Towards DELPHI's Governance Framework

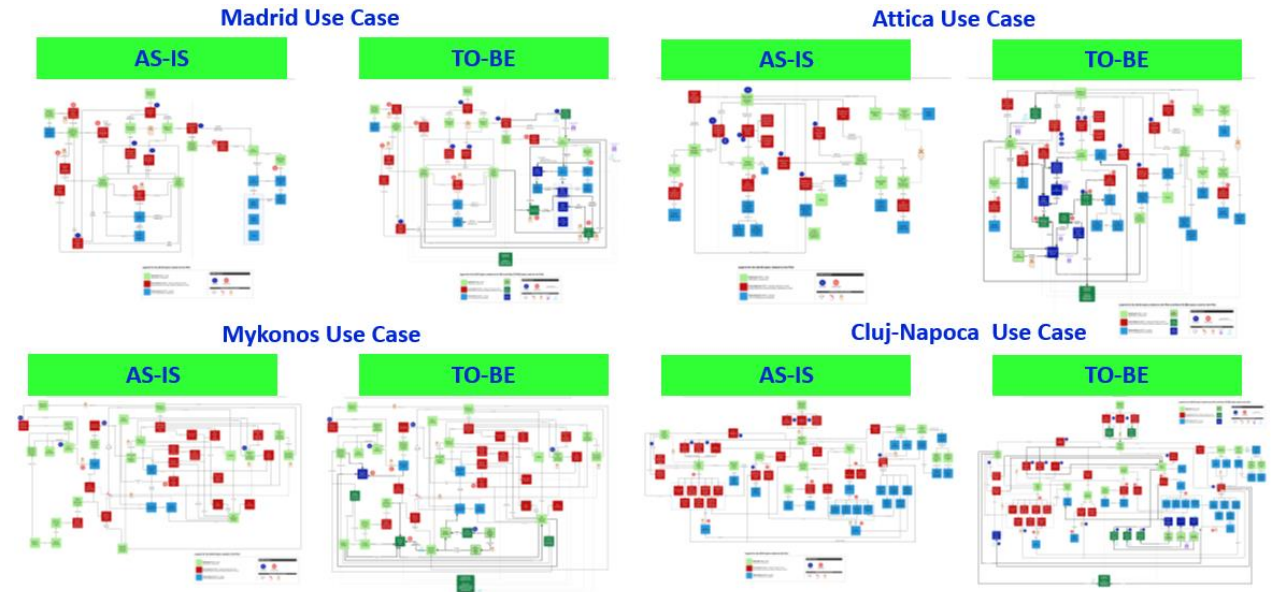
DeNIM-Gov & DELPHI town

DELPHI's Governance Framework - Methodology



1. Data collection and analysis:

- **Working sessions** per DELPHI pilot that led to the co-creation of the AS-IS and TO-BE setups associated with each pilot



- the DELPHI WP2 **Questionnaire** addressed to Advisory Board members, Frontier Projects Cluster and Consortium Partners, with focus on the following critical aspects:
 - a) Multilevel Governance of Urban Mobility
 - b) Stakeholder Roles and Engagement
 - c) Policies Related to Urban Mobility for Passenger and Freight

DELPHI Novel Integrated Mobility Governance framework (DeNIM-Gov)



2. Recommendations:

The aforementioned actions resulted in the consolidation of 21 recommendations* that constitute the backbone of **DELPHI Novel Integrated Mobility Governance framework (DeNIM-Gov)**, including among others the following key areas:

- *data interoperability*
- *development of a shared vision and collaborative business models*
- *harmonization of regulations across sectors and jurisdictions*
- *smart contracts and dynamic data sharing protocols*

DeNIM-Gov is to be validated through the DELPHI pilot implementations and constitutes the suggested framework for DELPHI town.

* For further information please contact DELPHI coordinator and dissemination manager at info@lists.delphi-project.eu





DELPHI

DELPHI's impact

Expected impact

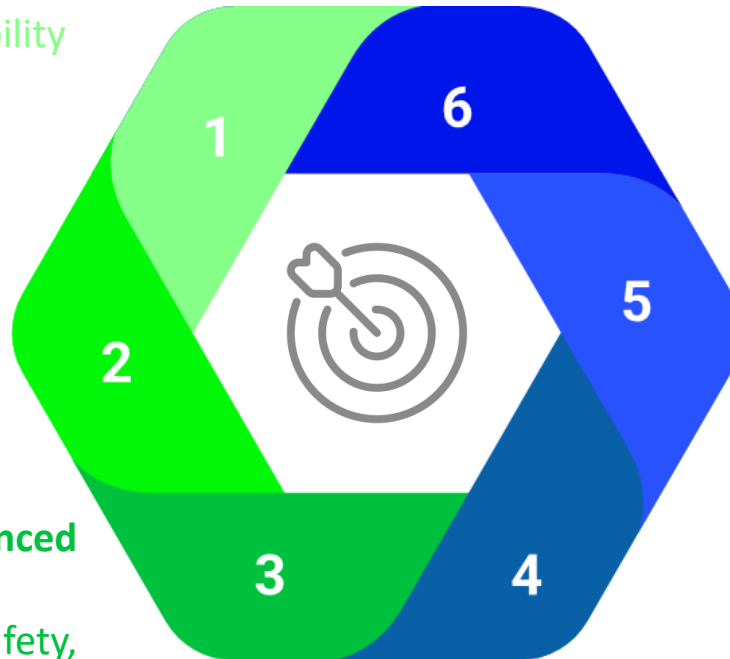
DELPHI's Impact



Improved **multimodal transport network** and **traffic management** capabilities, facilitating seamless door-to door mobility for passengers and freight

Effective and **resilient network-wide data exchange** and new integrated data management systems for **dynamic and responsive** multimodal network and traffic management

Tested and validated systems for **enhanced prediction and resolution of network** bottlenecks, substantially increasing safety, security, resilience and overall performance of the entire transport network



High market adoption and **transferability** of innovations to different ecosystems

New governance arrangements for multimodal transport network and traffic management, in view of further regulatory and policy actions.

Innovative tools and services for optimising **mobility flows of passengers and freight** in cities and other operating environments, cutting congestion, journey times and traffic jams across transport modes, and thereby **significantly reducing emissions** (CO₂, SO_x, NO_x, particles, noise)



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Thank you for your attention!



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