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DELPHI’s Overview presentation

Coordinated mobility for passengers & freight!

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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 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 view to address the growing challenges of passenger and freight mobility.

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DELPHI’s vision

Concept, Objectives & 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

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DELPHI objectives

02 "Multimodal Passenger and Freight Transport Network of Platforms (NoP)" framework

01 Novel governance and regulatory schemes and models

03 AI/ML-powered transport network and traffic management (TNTM) optimisation framework

05 Compatibility with EU standards, contribution to standardization and impact maximization

04 Validation via 4 pilots and simulation-based analysis

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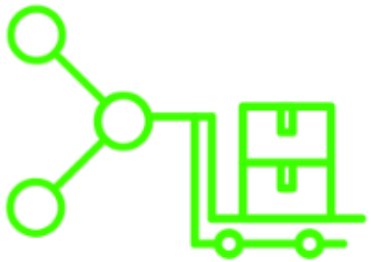
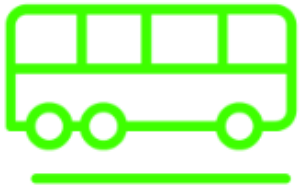
DELPHI use-cases

DELPHI's federated ecosystem will be extensively evaluated in real life settings through four pilot demonstrations across the participating transportation networks located in Spain (**Madrid**), Greece (**Athens and Mykonos**), and Romania (**Cluj-Napoca**).



USE CASE #1
Multimodal transport for a Sustainable LMD supported by blockchain for sharing economy in the e-commerce Channel (Spain)

USE CASE #2
Integrated freight and passengers' models and data sharing framework in the Attica region (Greece)



USE CASE #3
Integrated freight and passengers' models and data sharing framework at the island of Mykonos (Greece)

USE CASE #4
Integrated passengers' models and data sharing governance framework in the Cluj-Napoca Metropolitan Area (Romania)

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DELPHI’s impact

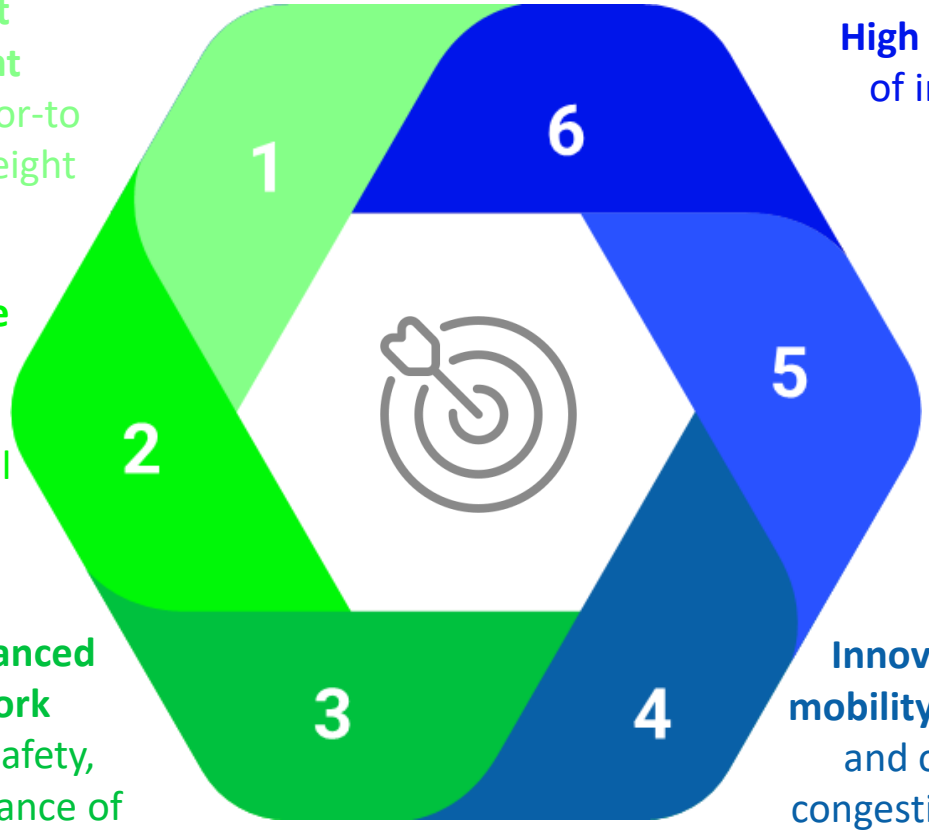
Expected impact

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** (CO_2, SOx, NOx, particles, noise)

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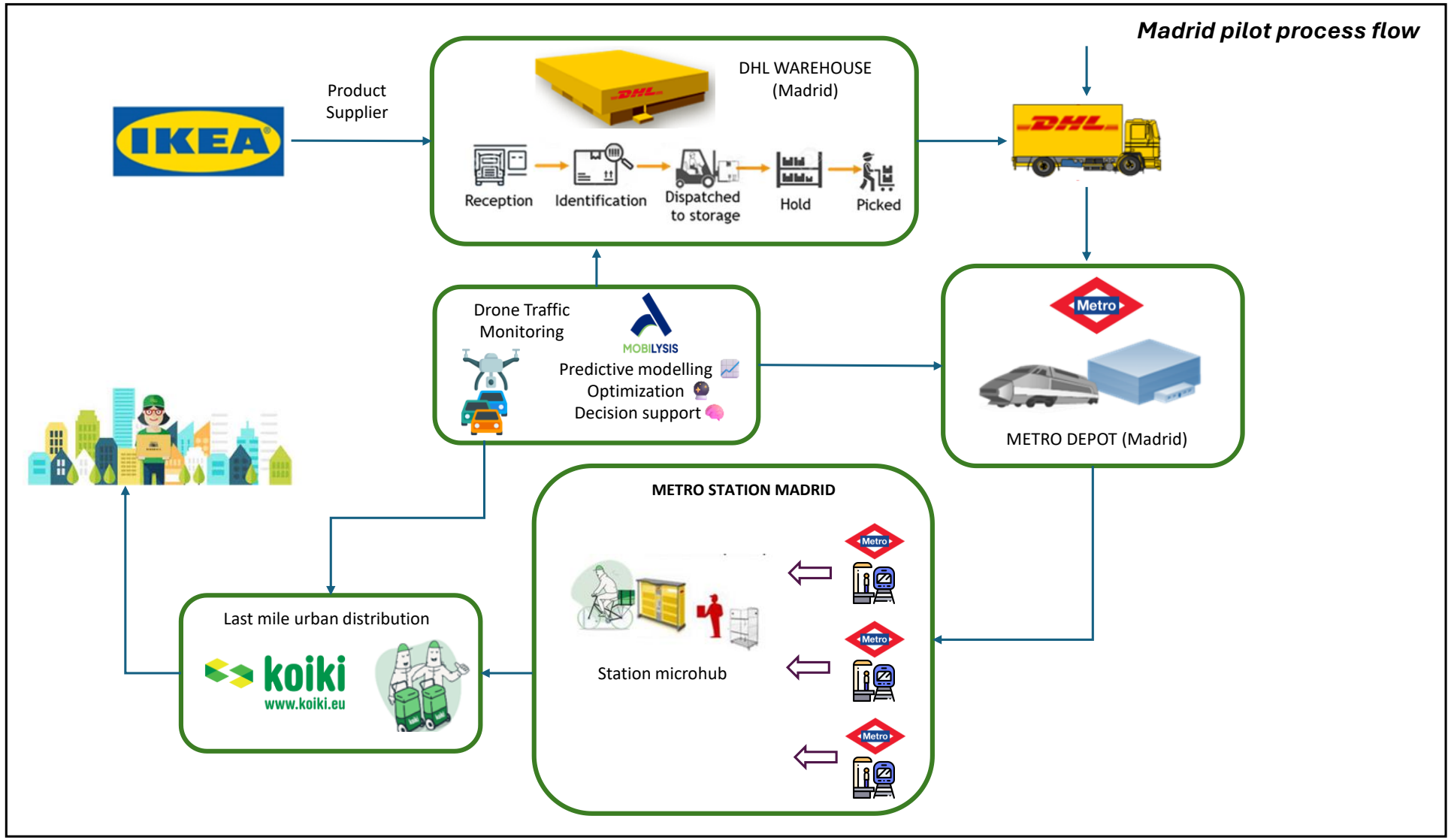
DELPHI’s Madrid Use Case

DHL Supply Chain

Metro Madrid

Koiki

Physical Process Flow



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Thank you for your attention!

DELPHI Consortium

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