



DELPHI

DELPHI's Overview presentation

Coordinated mobility for passengers & freight!



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)



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.



DELPHI's Overview Presentation



Funded by the European Union



DELPHI

DELPHI's vision

Concept, Objectives & Use Cases

DELPHI concept

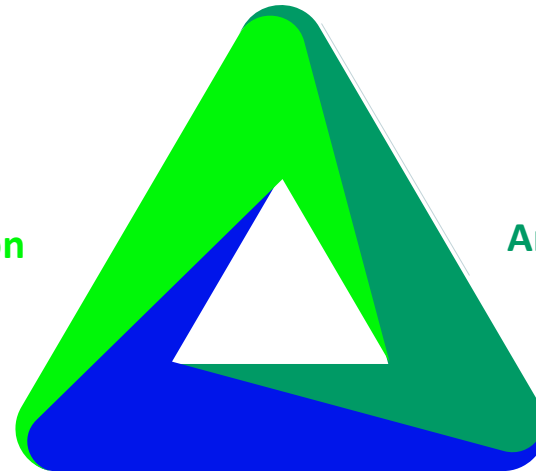


DELPHI

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

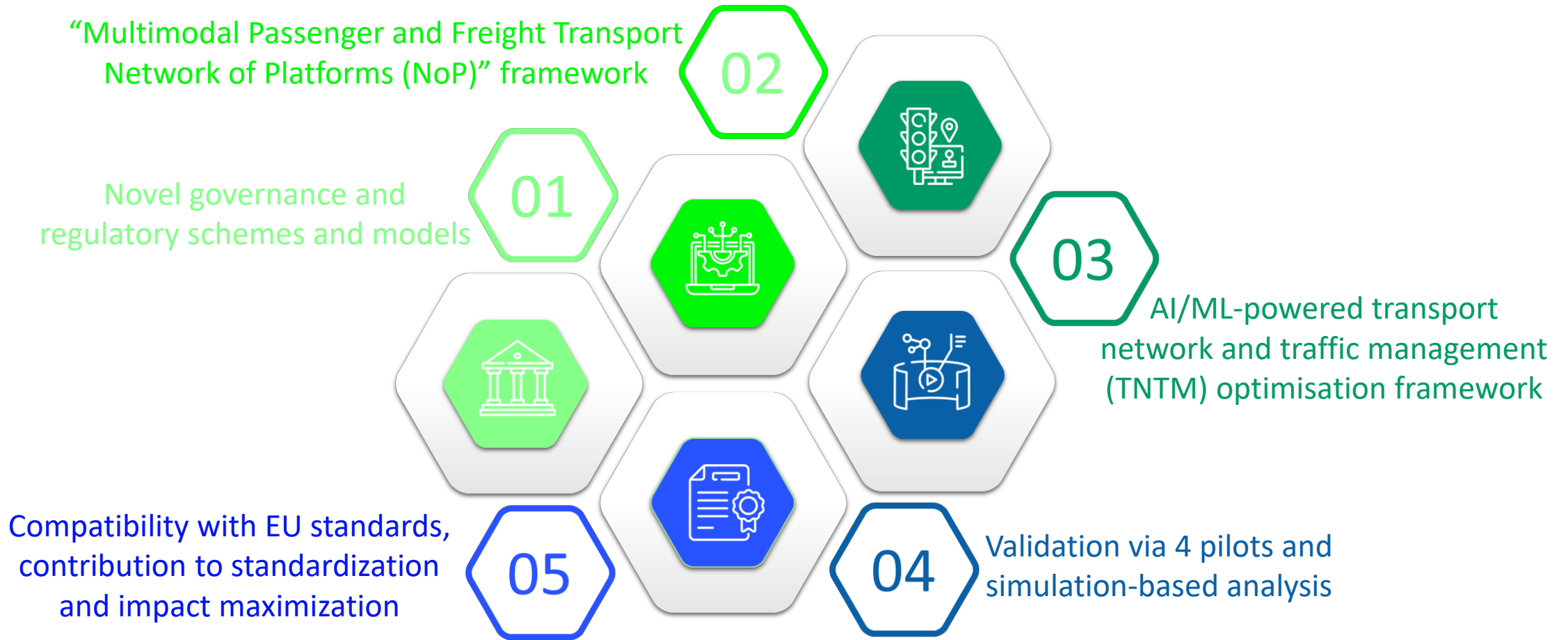


3rd pillar
DELPHI Validation activities through realistic pilot demonstrations



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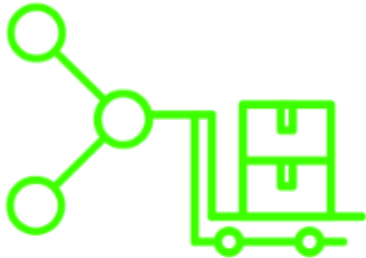
DELPHI objectives



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**).



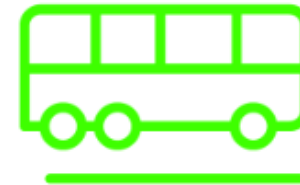
USE CASE #1

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)



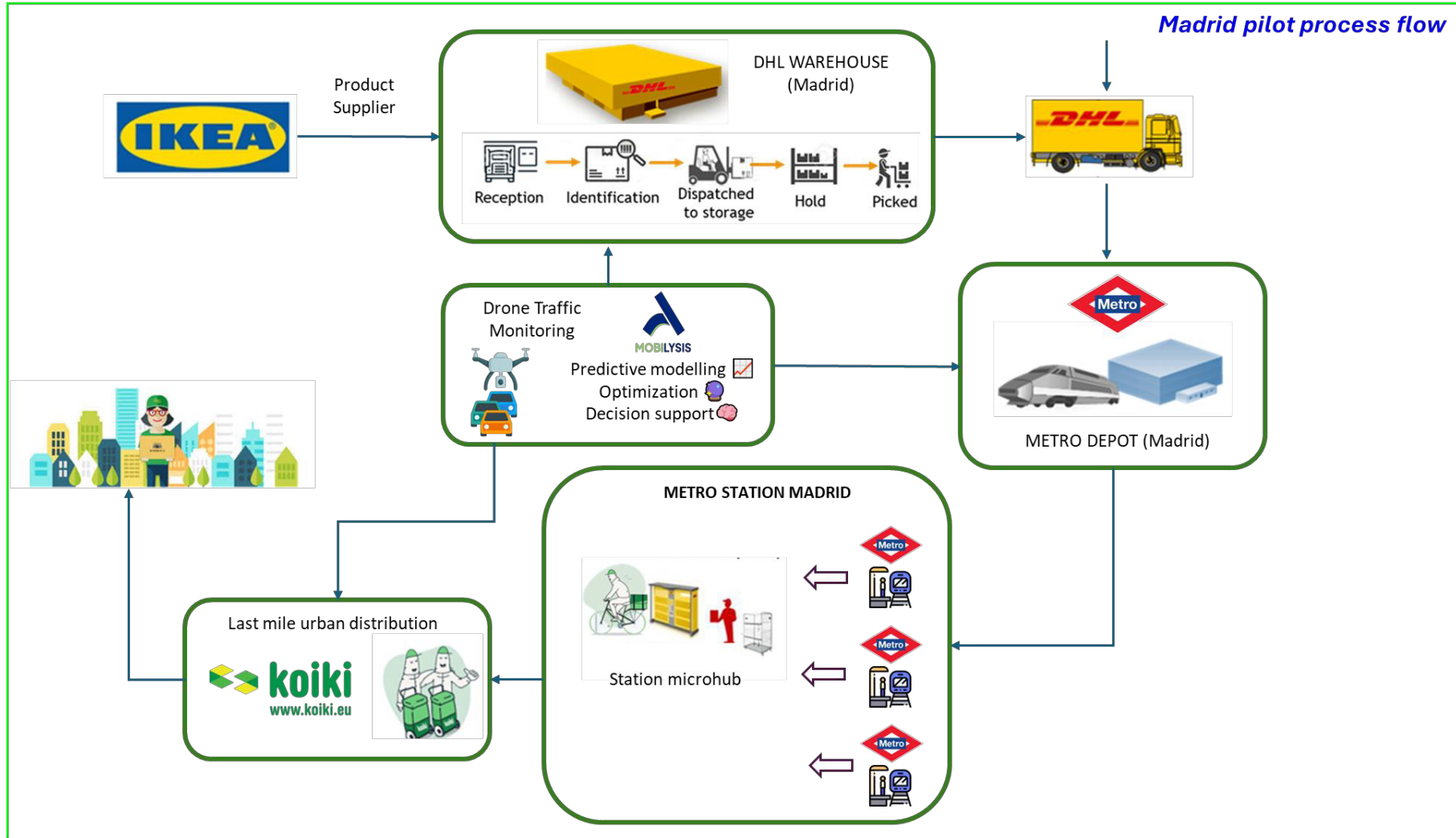
USE CASE #4

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

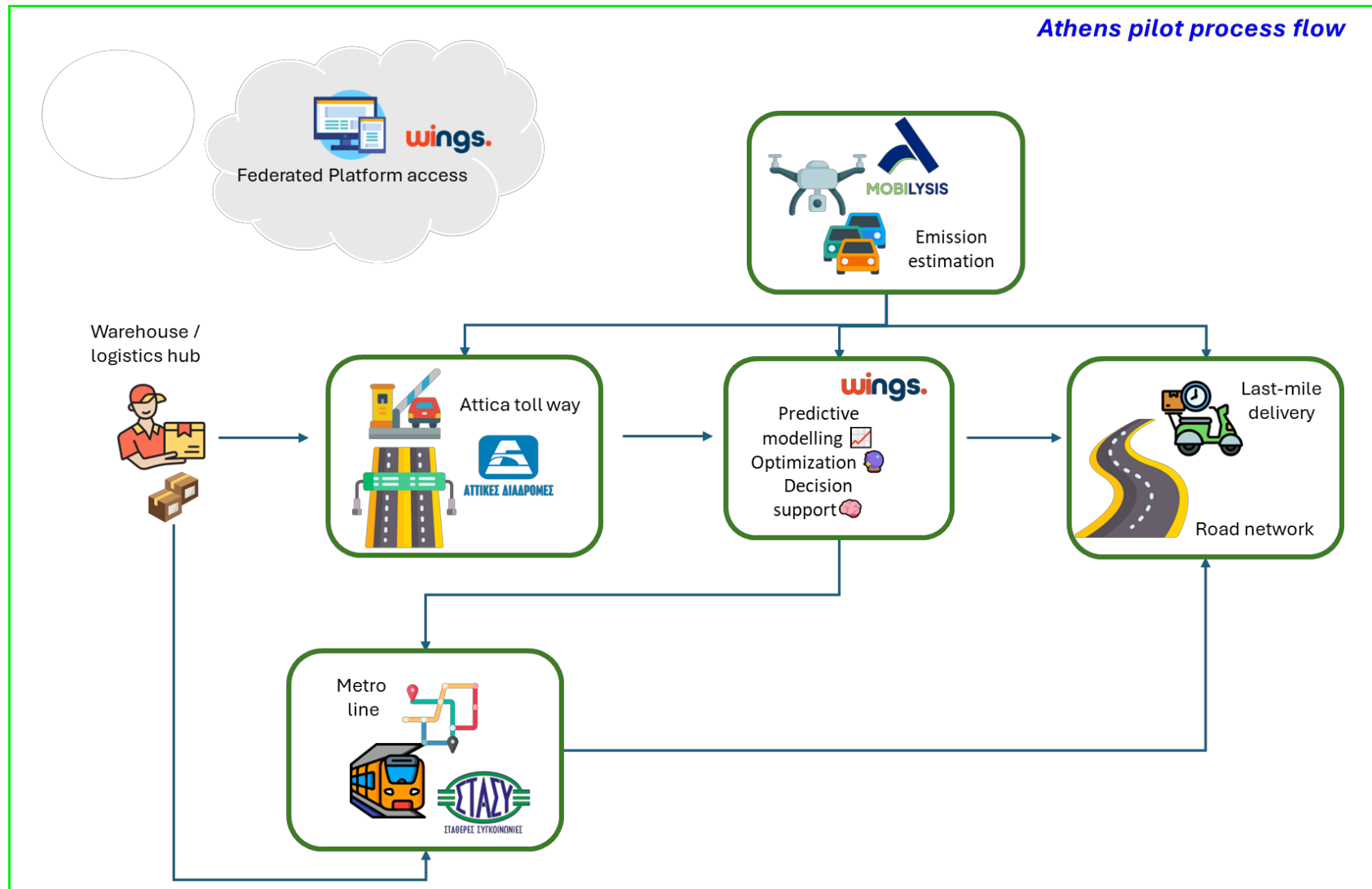


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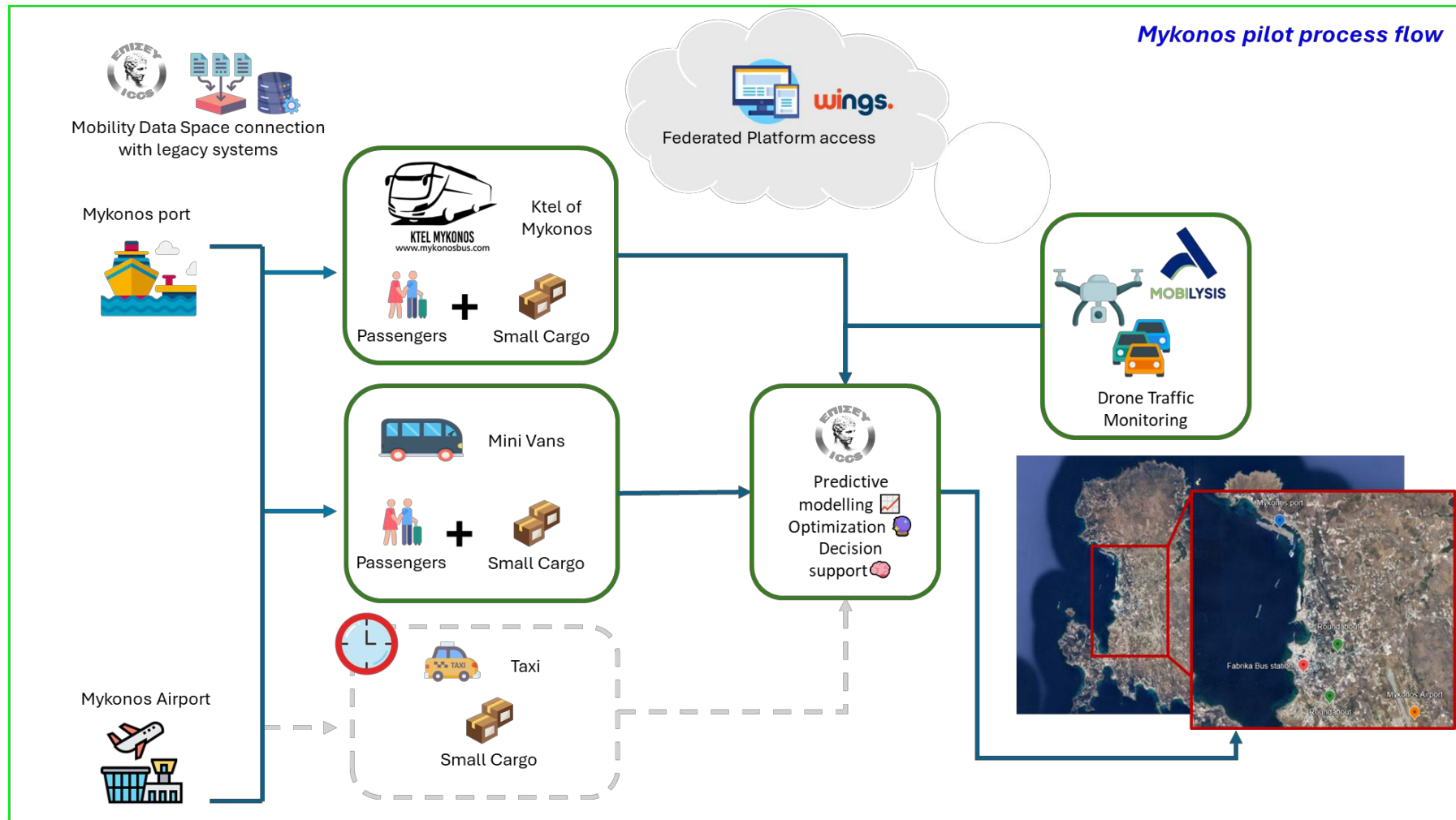
DELPHI use-case #1



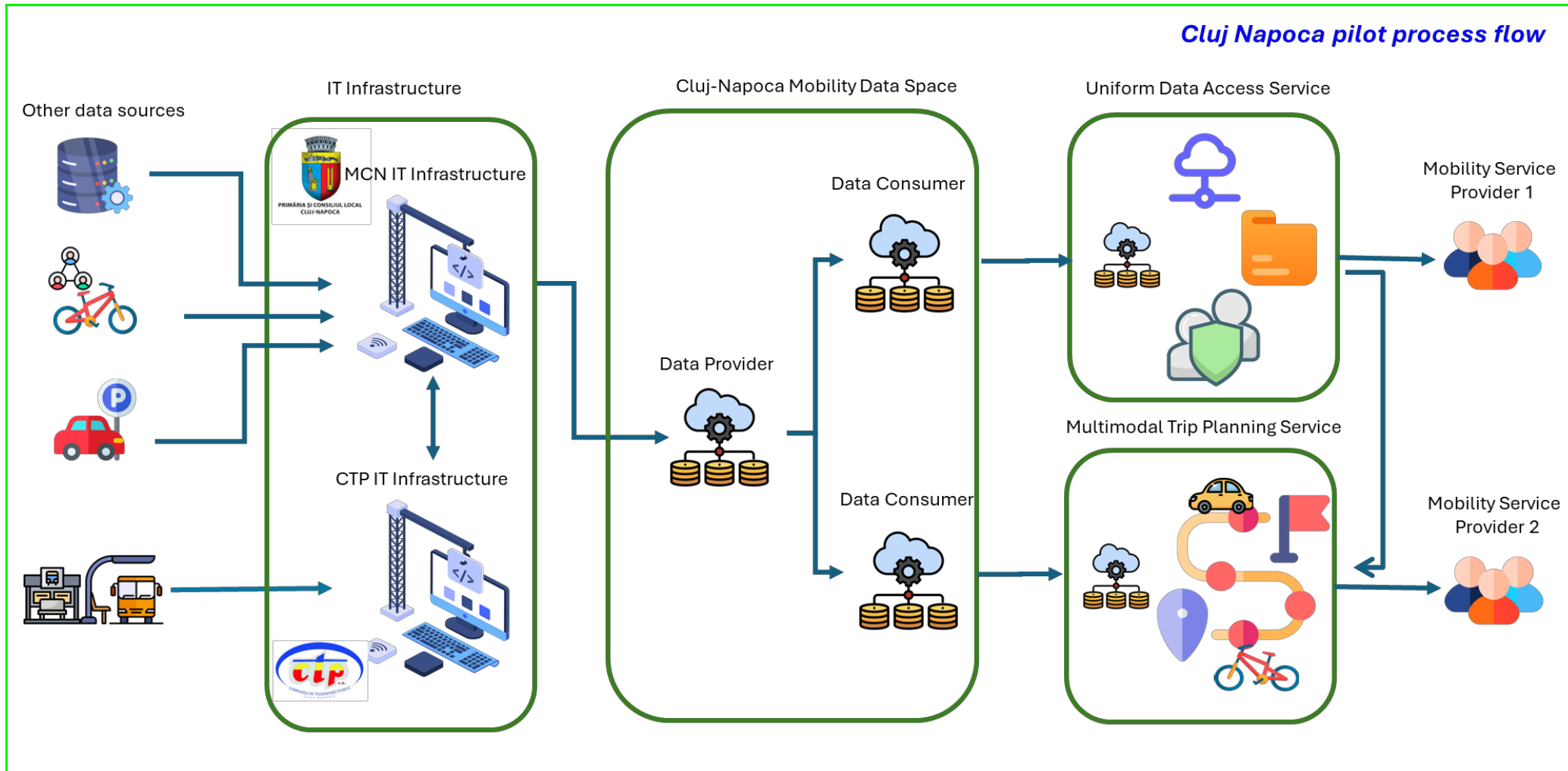
DELPHI use-case #2



DELPHI use-case #3



DELPHI use-case #4





DELPHI

DELPHI's impact

Expected impact

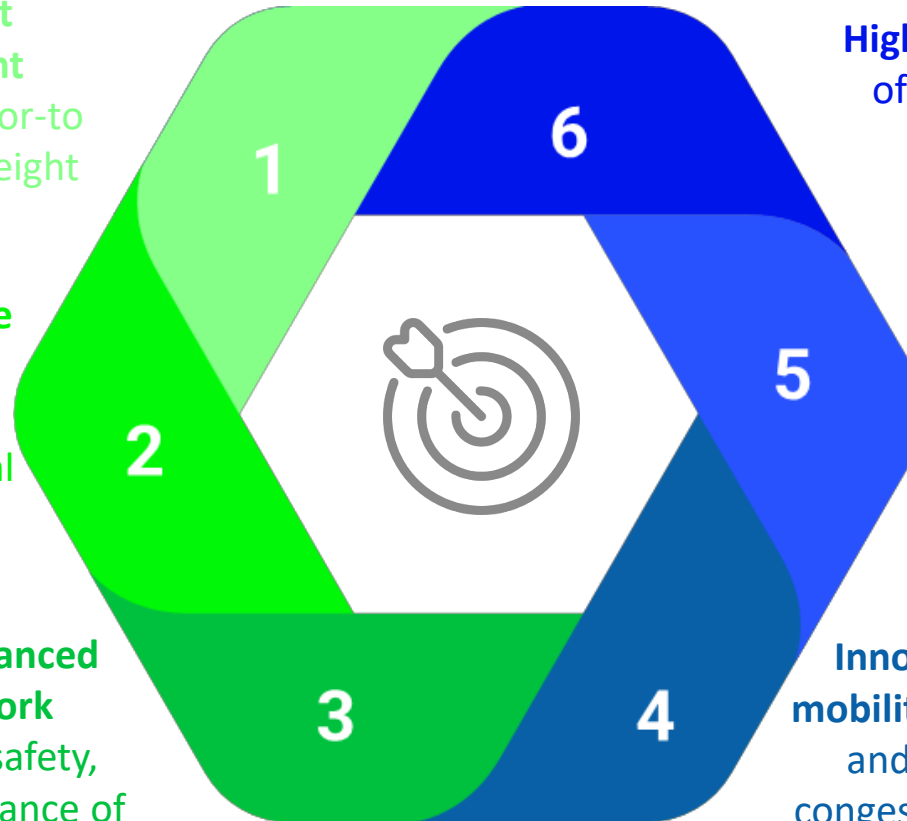
DELPHI's Impact



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!

DELPHI Consortium



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DELPHI

FeDerated nEtwork of pLatforms for Passenger and freigHt Intermodality

Key facts

Funding programme

DELPHI is a research and innovation action funded through the European Union's **Horizon Europe** framework programme for research and innovation

Project budget

The total project budget is around **5 million EUR** from which NTT DATA Romania is entitled to 339.062,50 EUR.

Consortium

The consortium is led by the Institute of Communication and Computer Systems (ICCS) from Greece and consists of 16 partners

Duration

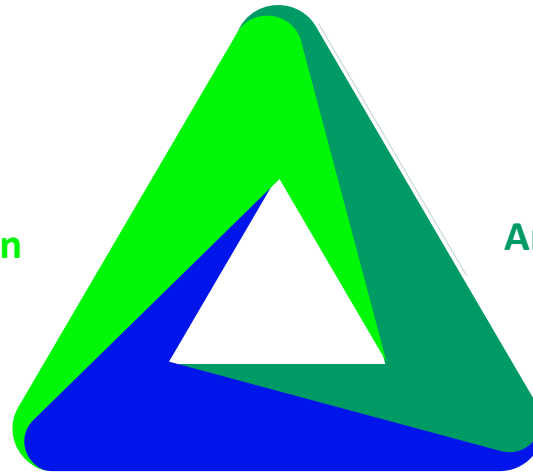
The project started on the 1st of July 2023 and last 36 months until the 30th of June 2026

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
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3rd pillar
DELPHI Validation activities through realistic pilot demonstrations



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Objectives

“Multimodal Passenger and Freight Transport Network of Platforms (NoP)” framework

Novel governance and regulatory schemes and models

Compatibility with EU standards, contribution to standardization and impact maximization

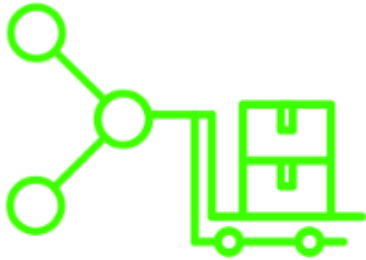


AI/ML-powered transport network and traffic management (TNTM) optimisation framework

Validation via 4 pilots and simulation-based analysis

Use-cases

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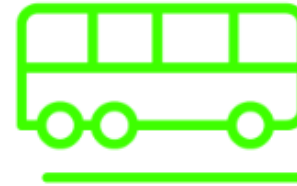
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USE CASE #3

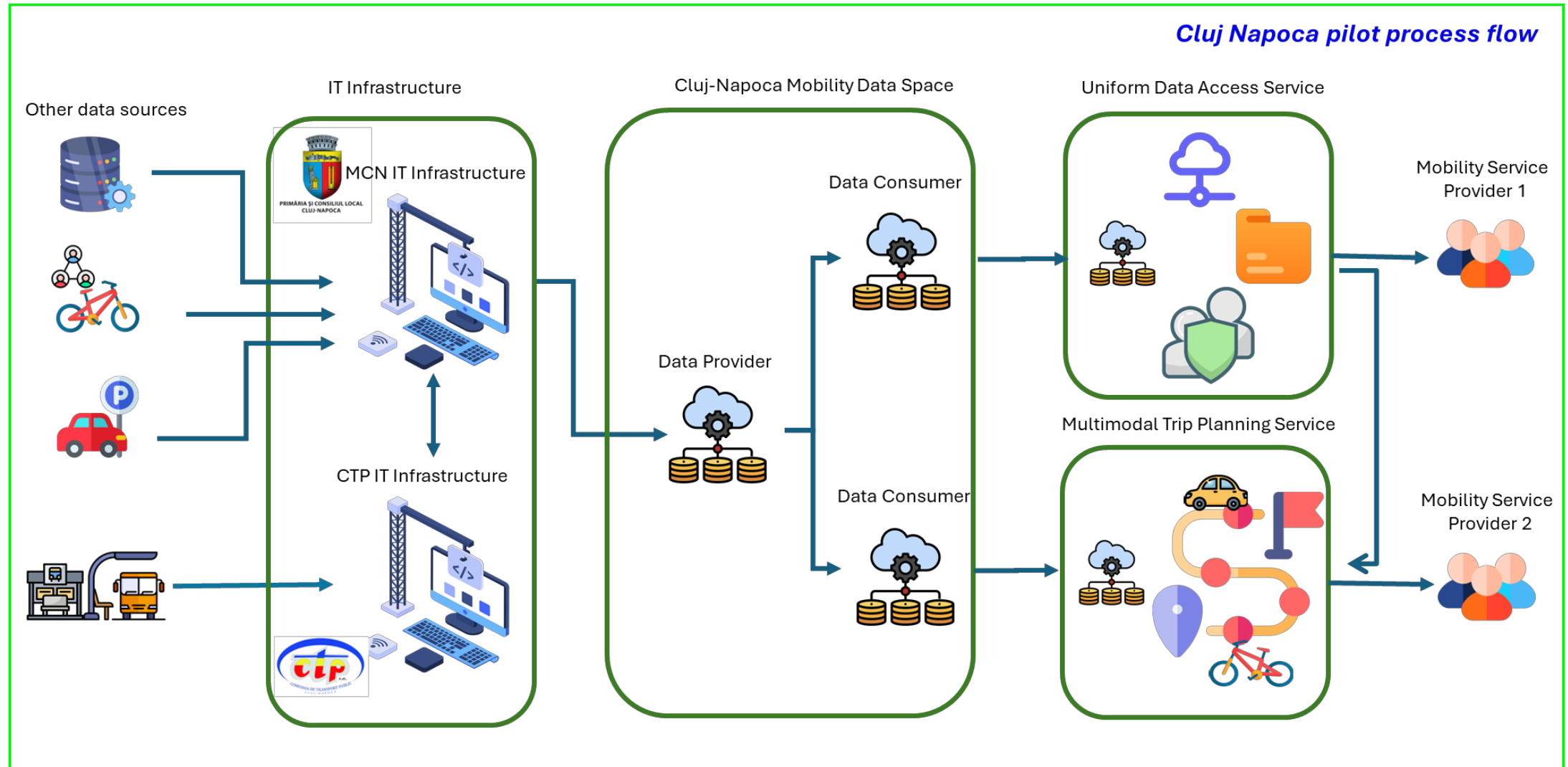
Integrated freight and passengers' models and data sharing framework at the island of Mykonos (Greece)



USE CASE #4

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

Use-case #4 – Cluj-Napoca, Romania





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