

BRIDGING INNOVATION: INTEGRATED, SAFE AND SEAMLESS MOBILITY

its

EUROPEAN
CONGRESS
ISTANBUL
27-29 APRIL 2026

Mithos

**Enhancing Multimodal
Transport Infrastructures**

Alfonso Brazalez

**CEIT
Spain**

SIS 8

ISTANBUL 2026

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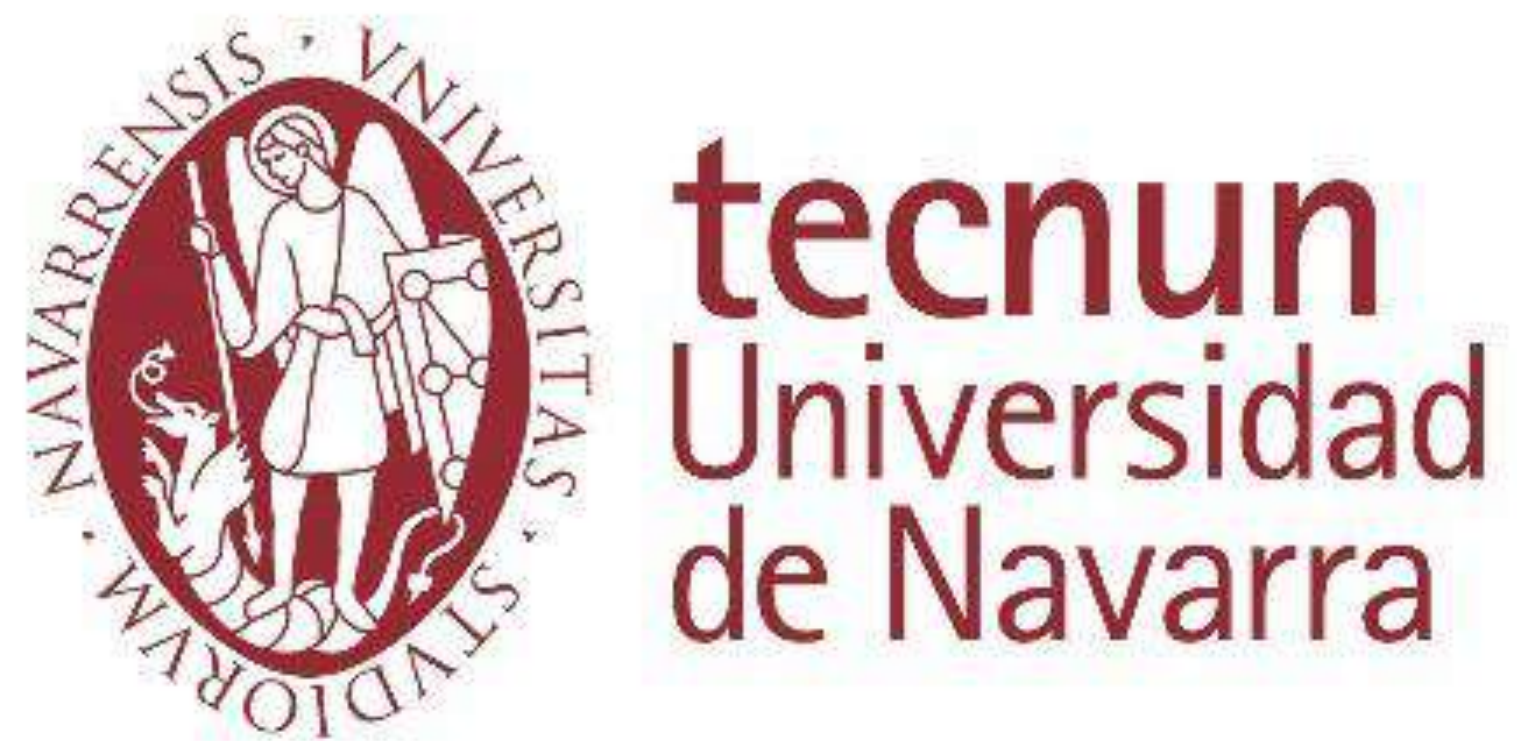
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1. CEIT

Technological Centre

- Independent private non-profit institution
- Founded in 1982



- Our mission is to serve society and industry



University campus of San Sebastian

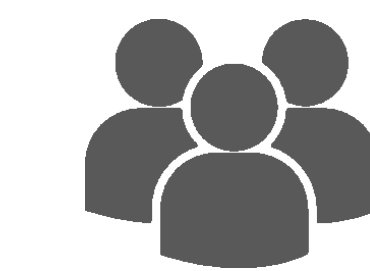
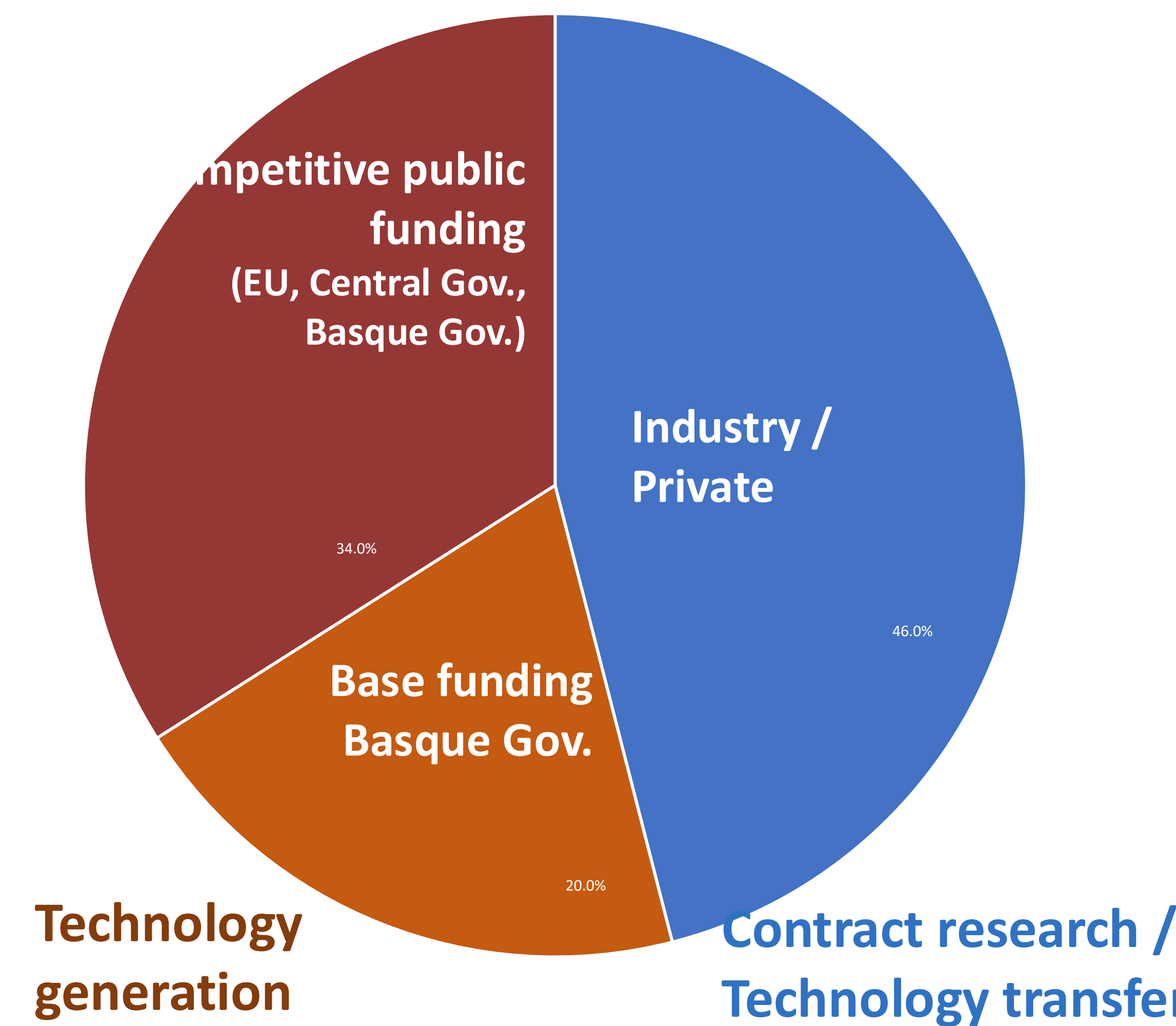


San Sebastian Technological Park

2025 - 27M€



Funding sources and type of research



Personnel

Total: 265
Doctors: 105
PhD students: 44



Scientific production

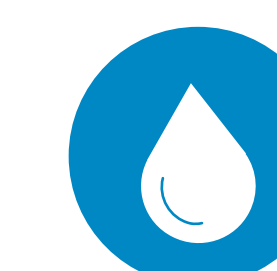
Journal papers: >65
over ¼ employees per year
Conferences: > 75
over ¼ employees per year
PhD theses: >10
over 1/25 employees/year



Materials and Manufacturing



Transport and Energy



Water and Health



Information and Communications Technologies

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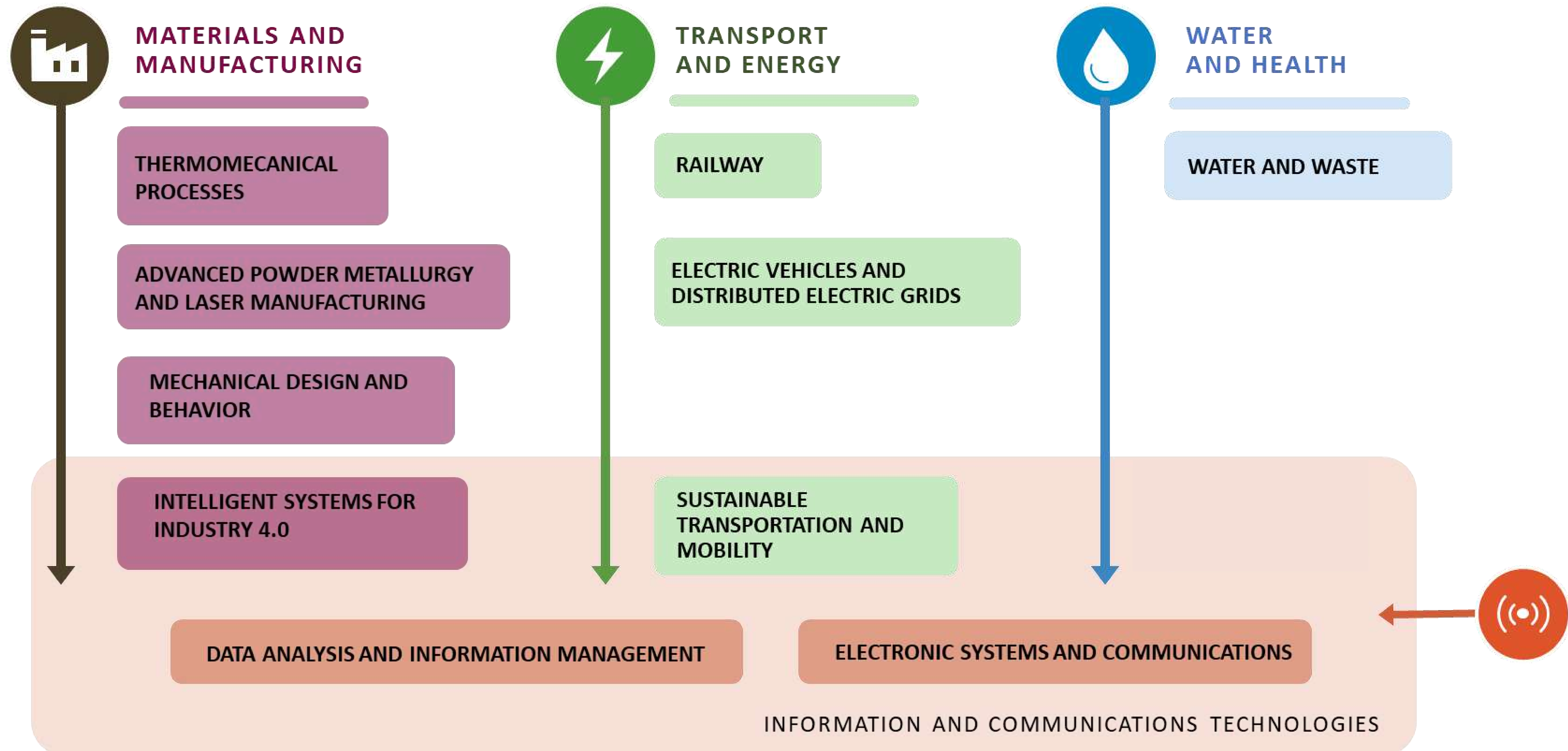


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CEIT 4 division 10 groups

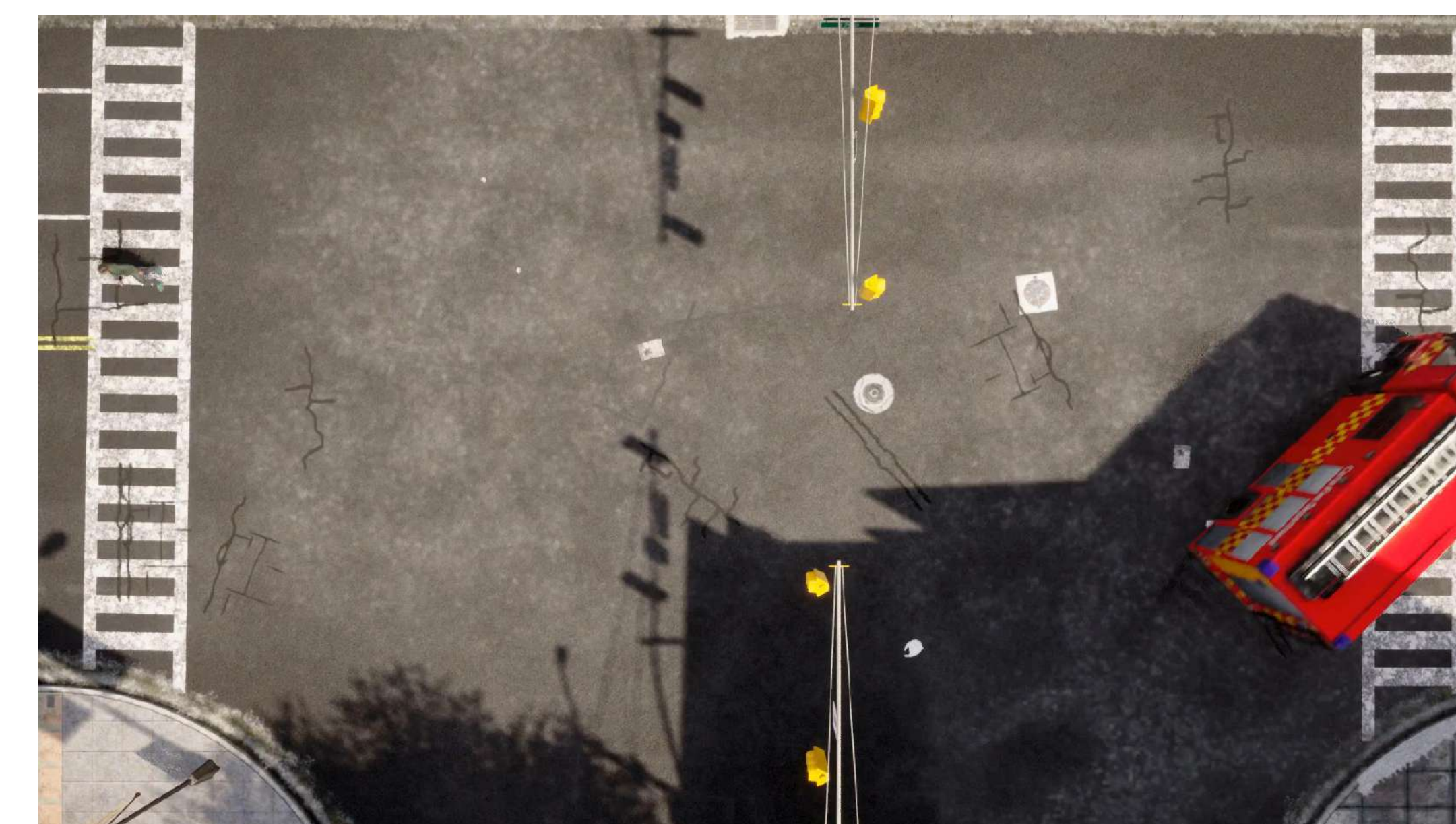


SI4CCAM: Smart Infrastructures for CCAM

*The **SI4CCAM** (Smart Infrastructure for Cooperative Connected and Automated Mobility) project aims to develop technologies that enable the management of smart roads to facilitate the integration of connected and automated vehicles in various environments*

Technologies:

- **Expansion and Optimization of the ODD:** Implementing Smart Infrastructure to Optimize the Operational Design Domain.
- **Explainable AI:** Perception and decision-making systems based on smart infrastructure using explainable artificial intelligence.
- **Data spaces for mobility:** Mobility-specific data connectors that enable the seamless exchange of information between multiple sources.



Monitoring & Remote Operation

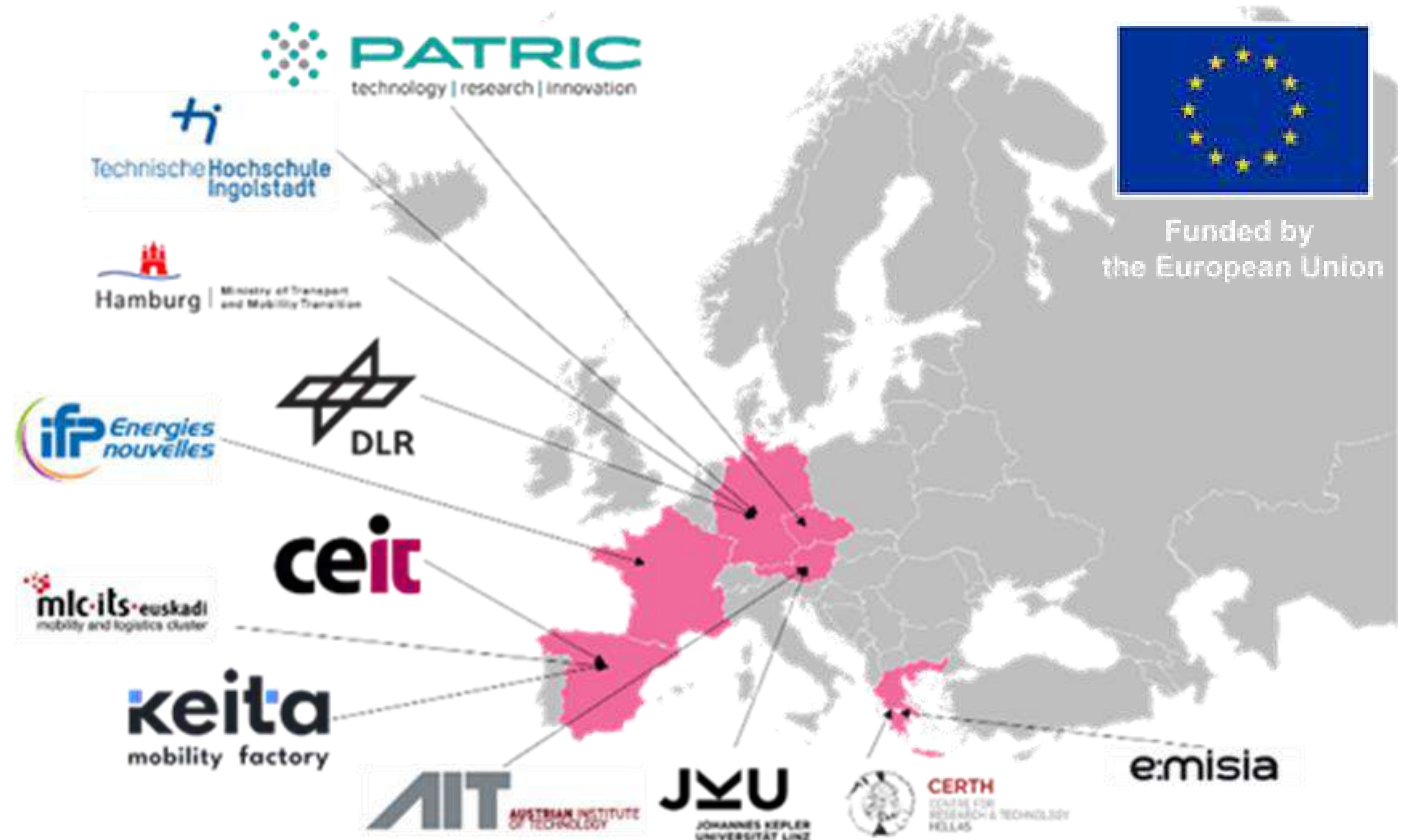
MITHOS

Innovative Decision-Making Tool for the Federated Monitoring, Redesign and Conservation of Multimodal Transport Infrastructures

The Mithos project is based on an AI-powered cloud platform that consolidates multimodal transportation data to enable faster, smarter infrastructure decisions.

Ceit is coordinating the project and overseeing the pilot in Bilbao, which will assess the feasibility of using the estuary for last-mile delivery via electric boats.

To this end, it will utilise existing mobility and freight transport data, supplemented by public transit routes, to run simulations based on predefined scenarios.



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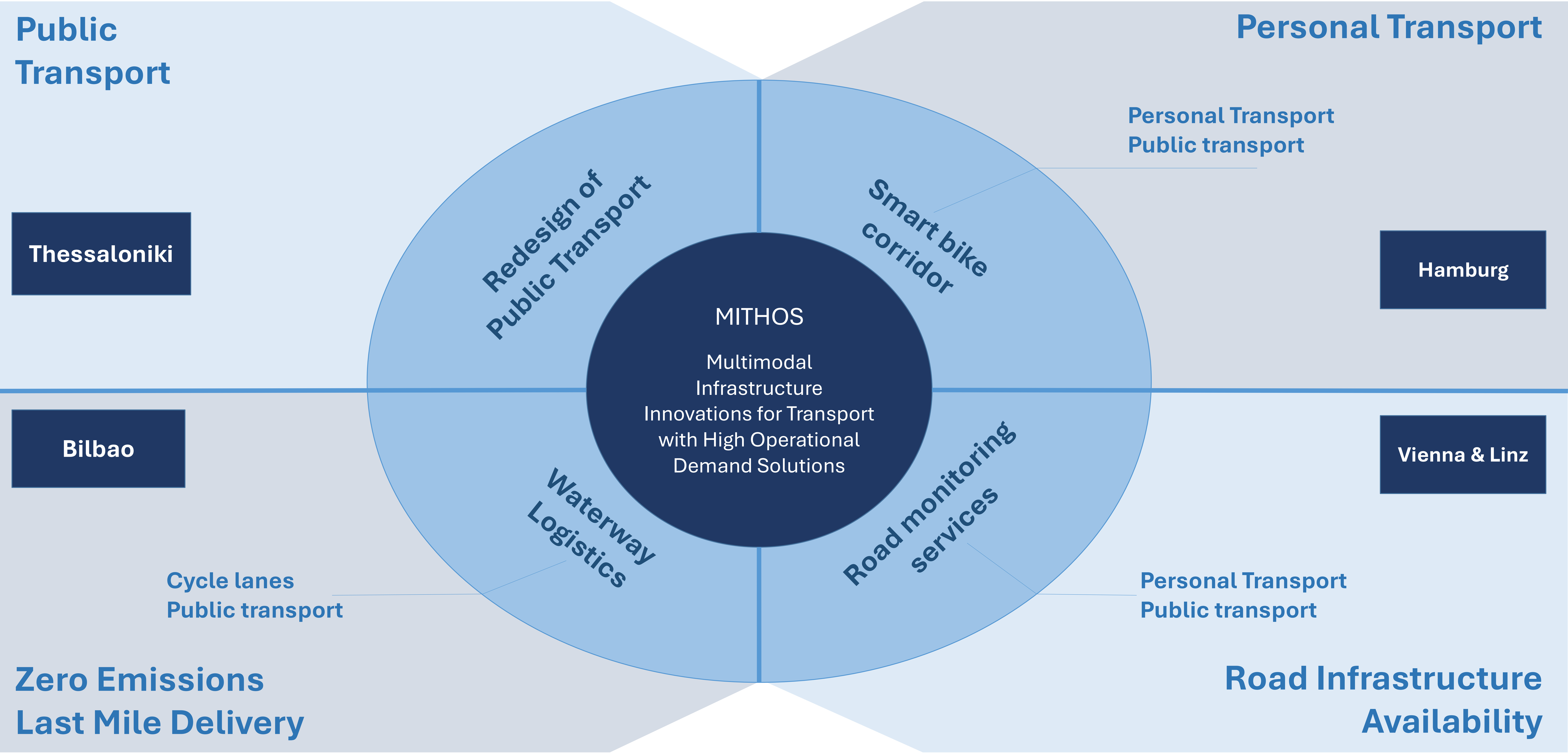
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MITHOS – Topics, themes, scopes matched on 4 pilot sites



Mithos: Bilbao

Metropolitan Area
(950,000 inh.)

Need to be revitalised

Can it be used as a
logistics hub?

Can it be linked with
Inland Waterway
Logistics?



Can it be linked with
Inland Waterway
Logistics?

Old Part
Restricted Access
Many restaurants

Can an intermediate
logistics hub be
created?



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Bilbao Pilot Site

With this IWW reactivation, it is expected to:

- **reduce emissions and road traffic pressure** in the city,
- **avoid future traffic bottlenecks** in Zorrozaurre access points,
- **facilitate crossing the river by multiple points** rather than the overcrowded bridges,
- **promote modal shift** by leveraging multimodality & sustainable last-mile mobility (particularly in the freight delivery), and
- **reduce road/bridge maintenance costs.**

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THANK YOU!

Alfonso Brazalez



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