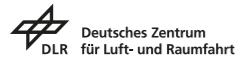


## OUR PARTNERS



# MITHOS

**MITHOS Project**  
Innovative AI-driven decision-making  
tool for multimodal transport  
infrastructures



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# MITHOS PROJECT



## ABOUT US

**“Transforming Multimodal Transport Infrastructure with AI** MITHOS is an innovative, cloud-based Decision Support System (DSS) driven by Artificial Intelligence. It aims to revolutionize the management of multimodal transport infrastructures, promoting safer, more resilient, and sustainable mobility for passengers and freight.

By overcoming the limitations of current single-mode tools and fragmented data, MITHOS centralizes information into a unified platform, empowering planners to make optimal, real-time decisions.”

## OUR KEY GOALS

**01. AI-Driven Decision Support:** Provide an interactive tool (DSS) to visualize the best alternatives for infrastructure redesign and maintenance.

**02. Smart Data Management:** Collect and process large amounts of real-time data through a secure Federated Data Module (FDM).

**03. Advanced Simulation:** Integrate modelling tools to measure emissions, safety, and the coexistence of different transport modes.

**04. Real-World Validation:** Demonstrate the platform’s effectiveness across 4 diverse European pilot cities.

**05. Global Impact Assessment:** Evaluate the environmental, socio-economic, and safety benefits of the proposed measures to ensure future replicability.

## HOW DOES MITHOS PLATFORM WORK?

### The MITHOS Approach in 4 Steps:

**Data Gathering:** Collecting heterogeneous data from sensors, databases, and users.

**Simulation:** Running advanced models for traffic, safety, and emissions.

**AI Analytics:** Using smart solvers to find the best multimodal solutions.

**Impact Assessment:** Evaluating the environmental and safety benefits of every decision.



## PILOTS

### Testing in Real Environments

MITHOS solutions are being validated across 4 pilot sites with unique challenges:

**Bilbao (Spain):** Assessment of Inland Waterway (IWW) infrastructure for last-mile delivery.



**Hamburg (Germany):** Redesigning road and bike corridors to improve safety and deconflict interactions.



**Thessaloniki (Greece):** Re-designing the interconnection between bus and metro transport nodes.



**Vienna / Linz (Austria):** Implementing predictive maintenance and asset management for roads.

