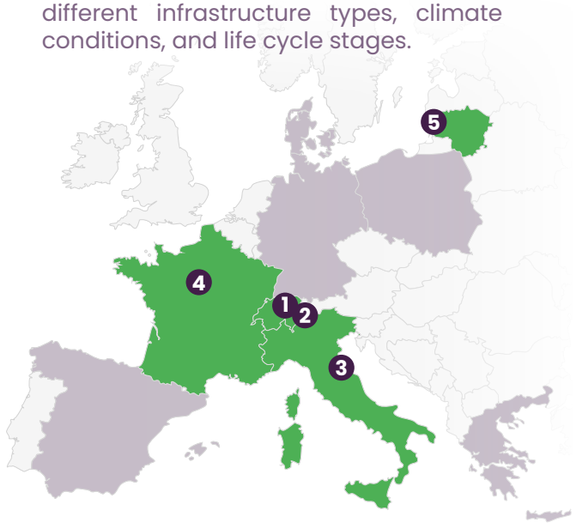
Demonstration Sites

The MOVEO framework and its solutions will be validated through 5 demonstrators located in Switzerland, Italy, France, and Lithuania. These demonstrators cover different infrastructure types, climate conditions, and life cycle stages.



Demo 1: **City of Winterthur**
Urban transport and infrastructure assessment and redesign

Demo 2: **Eastern Region of Switzerland**
Interurban and rural infrastructure assessment and redesign

Demo 3: **Port of Ravenna**
Multimodal intelligent infrastructure maintenance and operation

Demo 4: **Seine River**
Inland waterway infrastructure maintenance and low-carbon operation

Demo 5: **Port of Klaipėda**
Intelligent operation, navigability and multimodal connections

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moveo

Creating an **Intelligent Framework** for Inclusive and Seamless **Transport Infrastructure** and **Mobility Services**

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Our Mission

Roads, railways, waterways, cars, trains, ships – they're all part of our transport system, but too often they are handled as separate system. In today's fast-moving world, we need a connected framework to ensure safe, sustainable, and efficient transport.

MOVEO is addressing this challenge by creating an intelligent framework that links infrastructure and vehicles across all modes of transport.

This framework is powered by cutting-edge technologies, such as digital twins and AI, to drive smarter decision-making and seamless operations.

MOVEO will not only provide technology to tackle today's infrastructure and transport problems, but also lay the foundations for a more connected, sustainable and safer transport future.

MOVEO has an External Advisory Board where stakeholders are welcome to give their feedback on the applicability and market impact of MOVEO results. Don't hesitate to get in touch with us.

Five **Pillars**

Pillar 1: **Infrastructure assessment and redesign**

- Multi-modal passenger flow and capacity analysis
- Re-design of urban transport infrastructure and interurban Transport Systems

Pillar 2: **Inspection and monitoring**

- Near Real Time (NRT) pedestrian and vehicle detection + safety system
- Internet of Things (IoT) Edge Computing system for bridges, locks and port navigability

Pillar 3: **Digitalised mobility**

- Infrastructure & mobility data space
- Structural Health Monitoring (SHM) toolkit
- Transport infrastructure emergency management
- Cybersecurity support tool
- Digital Twin for seamless and inclusive transport

Pillar 4: **Smart logistics**

- Low carbon traffic regulation at inland waterways
- Real-Time (RT) prediction models for port conditions & logistics
- Generic logistics process modelling

Pillar 5: **Inclusiveness and accessibility**

- Methodology to find pain points in mobility systems
- MOVEO inclusive transport dashboard