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EXPO 2025 OSAKA

MOST
CENTRO NAZIONALE PER LA MOBILITÀ SOSTENIBILE

MOST@EXPO Osaka: From Research to Business

Auditorium Padiglione Italia

April 20, 2025

OPTIFaaS
AI-Powered Digital Twin Platform
for Mobility & Transport Operation and Plan

SNAP4CITY
www.snap4city.org

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AI-POWERED DIGITAL TWIN PLATFORM FOR MOBILITY & TRANSPORT OPERATION AND PLAN

Urban Challenges & OPTIFaaS Objectives

From data to action : Tailored Mobility Services

The Core

Snap4City / OPTIFaaS delivers mobility solutions for operational management and strategic-tactical planning through an integrated Digital Twin and various AI models, enabling what-if analysis, simulation, and optimization

Objectives

Decongestion

Safety

Accessibility

Cost Reduction

Decarbonization

OPTIFaaS ❯ **Scalable, flexible, customized mobility solutions**

Supports various urban contexts from small communities to large metropolises

Finanziato dall'Unione europea NextGenerationEU

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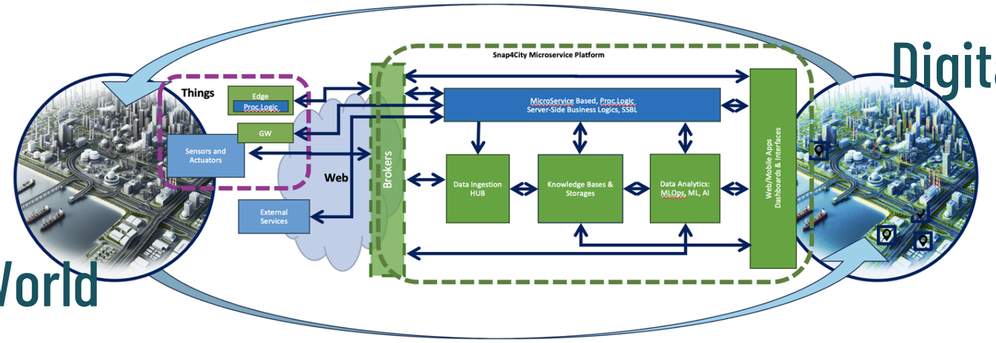
Smart & Sustainable Mobility with Snap4City / OPTIFaaS

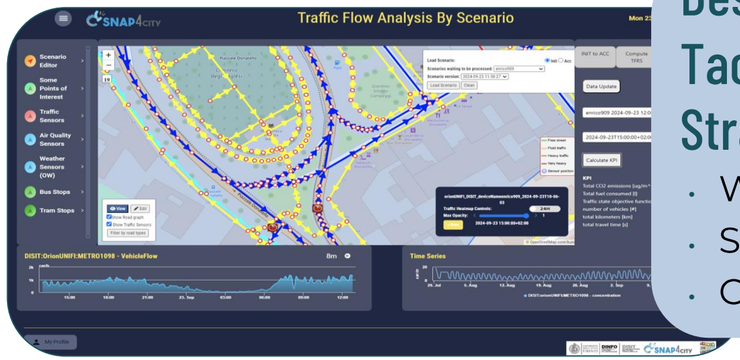
Empowering Cities with AI based Digital Twin

Integrated Digital Twin + Artificial Intelligence platform for real-time urban mobility monitoring and optimization



AI Technologies

- Deep Learning
- Reinforcement Learning
- Generative AI
- GNN-DRL and similar



Designed for Tactic and Strategic Planning

- What-if scenarios
- Simulations
- Optimizations

Supports Operational Management

- Traffic monitoring, forecasting, and reconstruction
- Infrastructure evaluation
- Traffic light plan generation
- Early warning systems
- Dynamic/multimodal routing
- Analysis of city users' behavior

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Platform Value & Business Model

Scalable Solutions for Smart City Growth

Snap4City

Is an **open platform** designed to support cities and organizations in enhancing urban mobility through the integration of **heterogeneous data sources** and **AI**

OPTIFaaS

Adopts a **service-based business model tailored to the needs of small and medium-sized cities and mobility operators**. It emphasizes cost-effectiveness, offering flexible and scalable solutions for urban mobility and sustainability

Open
open source, interoperable, modular, microservices

Scalable
with city size and complexity

AI-powered platform
data-driven platform for mobility innovation

Optimizing Transportation Systems
improving efficiency, sustainability, quality of life

Business Intelligence Tools
available for decision makers, operators, control rooms

Minimal Set up Costs
maximum flexibility, visual programming, no-code platform

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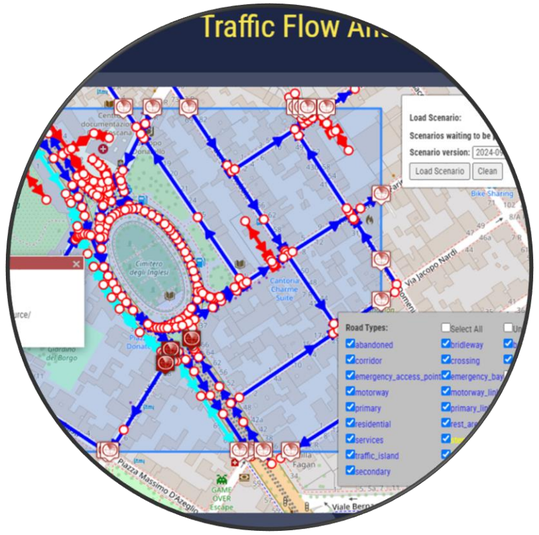
Sustainability & Social Benefits

Driving the Future: Smarter. Greener. Together.

> Snap4City / OPTIFaaS promotes efficient and safe urban mobility, contributing to an improved quality of life and the sustainable growth of the community

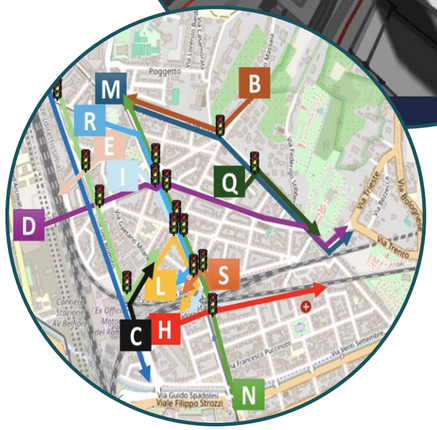


Social Impact

Reduced travel times and emissions

Accessibility and inclusivity

Road safety



Sustainability Features

Traffic optimization

Multimodal transport integration

Data-driven simulation and what-if analysis

Fuel consumption reduction

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www.snap4city.org
snap4city@disit.org

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