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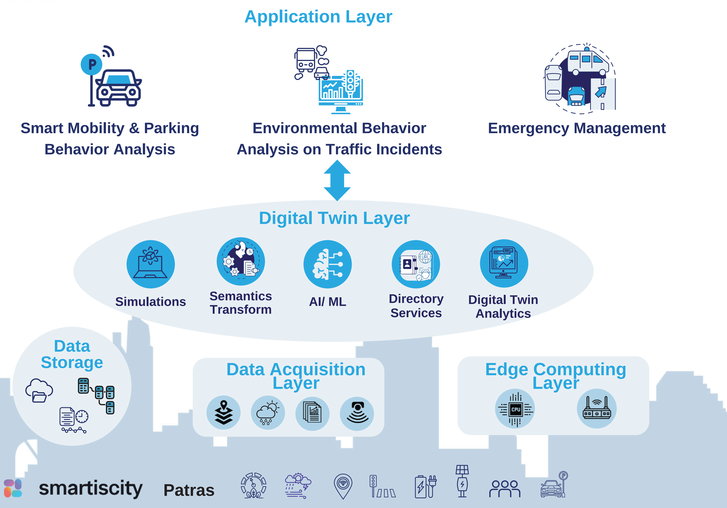
MetaCities Excellence Hub in South-Eastern Europe

Smart Mobility Pilot

Where:
Patras, Greece

Purpose:
Improve road safety, smart parking, quality of life and accessibility using real-time data and digital twins



Use Cases

01 Smart Mobility and Parking Behavior Analysis

The Patras Smart Mobility app integrates with the city's Digital Twin to offer real-time arrival estimates, optimal parking suggestions, and illegal parking detection. It predicts traffic patterns and recommends intermodal transport solutions to enhance urban mobility.

02 Environmental Impact Analysis of Traffic Incidents

The Digital Twin analyzes traffic and environmental data to explore the relationship between traffic incidents and urban sustainability. This case helps assess the effects of city events on air quality, noise levels, and pollution, supporting sustainable urban planning.

03 Emergency Management

The Digital Twin facilitates emergency responses by rerouting traffic to ensure access for emergency vehicles. It is designed to develop into a system providing real-time updates to drivers, pedestrians, and public transport users during emergencies.

Key Technologies

- **Digital Twins**
- **IoT Sensor Integration**
- **AI & ML**
- **Real-time Data Analytics**
- **Metaverse AR/VR**

Project Coordinated by: University of Patras

Consortium

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