METACITIES

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MetaCities Excellence Hub in South-Eastern Europe

METACITIES is establishing an Excellence Hub for future cities and regions in South-Eastern Europe, leveraging Digital Twins and Metaverse technologies to address real-world urban challenges.

PATRAS DIGITAL TWIN

Smart Mobility

- Integrates real-time mobility and urban data into a 3D city environment.
- Simulates traffic conditions and road-network interventions.
- Enables mobility policies to be assessed before implementation.

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BURGAS DIGITAL TWIN

Green City

- Combines geospatial, energy and environmental data in an interactive 3D environment.
- Supports energy efficiency and resource management.
- Enables stakeholders to analyse conditions and explore scenarios.

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NICOSIA DIGITAL TWIN

Urban Heat Island Reduction Simulator

- Uses satellite-derived thermal data to identify persistent urban heat hotspots.
- Simulates targeted tree-planting scenarios.
- Estimates the potential cooling effects of urban greening.

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Project Coordinated by: University of Patras

Consortium

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