

METACITIES

Meta Cities Excellence Hub in South-Eastern Europe

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Proposal Background

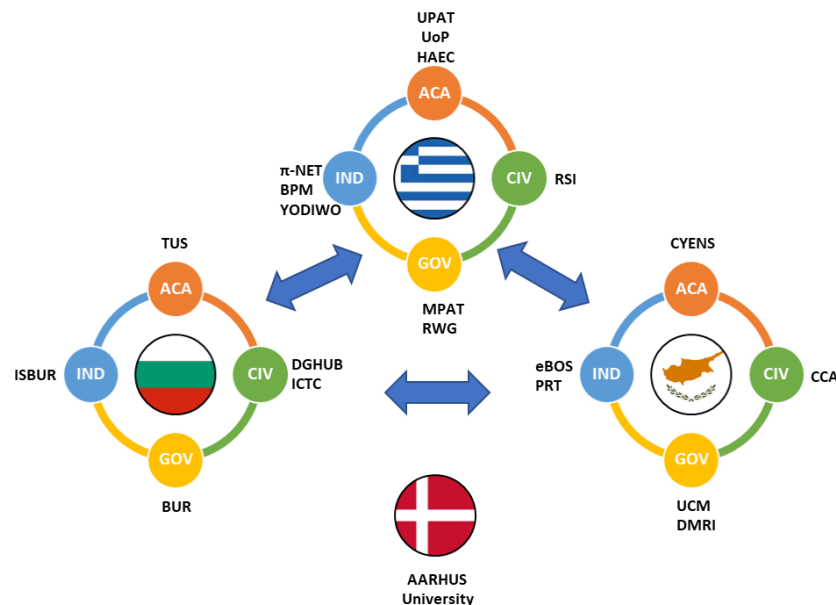
- Ingredients of Idea Incubation
 - Smart Cities & 5G infrastructure deployment for experimentation
 - Target Long Term
- Establishment of π-NET a Competence Centre & Ecosystem
 - <https://www.p-net.gr/>
- Activate the network of contacts for proposal building
- Starting early proposal building
- Seeking help from NCP

METACITIES: An Excellence Hub in South-Eastern Europe

Fact Sheet

- HORIZON-WIDERA-2022-ACCESS-04: Excellence Hubs (CSA)
- Duration, 2023 – 2027
- Budget, €4.994.500
- 21 partners in 3 clusters covering the QH

Quadruple Helix based Ecosystem



Motivation & Challenges

- **Architectural** and **business** models of how to build smart cities and regions have not yet reached maturity
- Enabling technologies and platforms e.g. 5G, IoT, are still under development and deployment
- New trends such as **Digital Twins** and **Metaverse** worlds are being introduced.
- The technological canvas increases **fragmentation**, **complexity** and **heterogeneity** for smart cities in operating digital infrastructures and services across them.
- Two major challenges:
- Technical challenge: seamlessly integrate, interoperate, and exploit the diverse technologies, platforms, and infrastructures, physical and digital;
- Offer them in a user-friendly and comprehensive way to co-operatively achieve common **socio-techno-economic** objectives.
- Need for **deepening our understanding** of the dynamics of the cities and **the impact of decisions and actions** that are carried out across them.

- **The next generation of city/region development and digital transformation must adhere to the mode of simultaneous planning, construction, and operation of digital city and the physical city.**

Overall project objective: METACITIES' overall objective is to establish an **Excellence Hub for future cities and regions in Southeast Europe, built upon DTs and metaverse technologies**, through **cross-border collaboration** focusing on innovation and engaging all different categories of actors of the QH. To this end, **specific domains with strong social footprint are selected as reference implementations** in order to guide and validate the proposed framework and efficiently coordinate the input from the different actors, academic, business, public authorities and societal actors, comprising the three participating clusters, **Cyprus, Greece and Bulgaria**.

Objective 1: To **jointly define long-term R&I strategies and implementation guidelines** on DTs and metaverse technologies for smart cities and smart regions in SEE applicable to regional innovation strategies for smart specialization.

Objective 2: To identify **reference ICT architectures of upcoming technologies and infrastructures** required to support METACITIES.

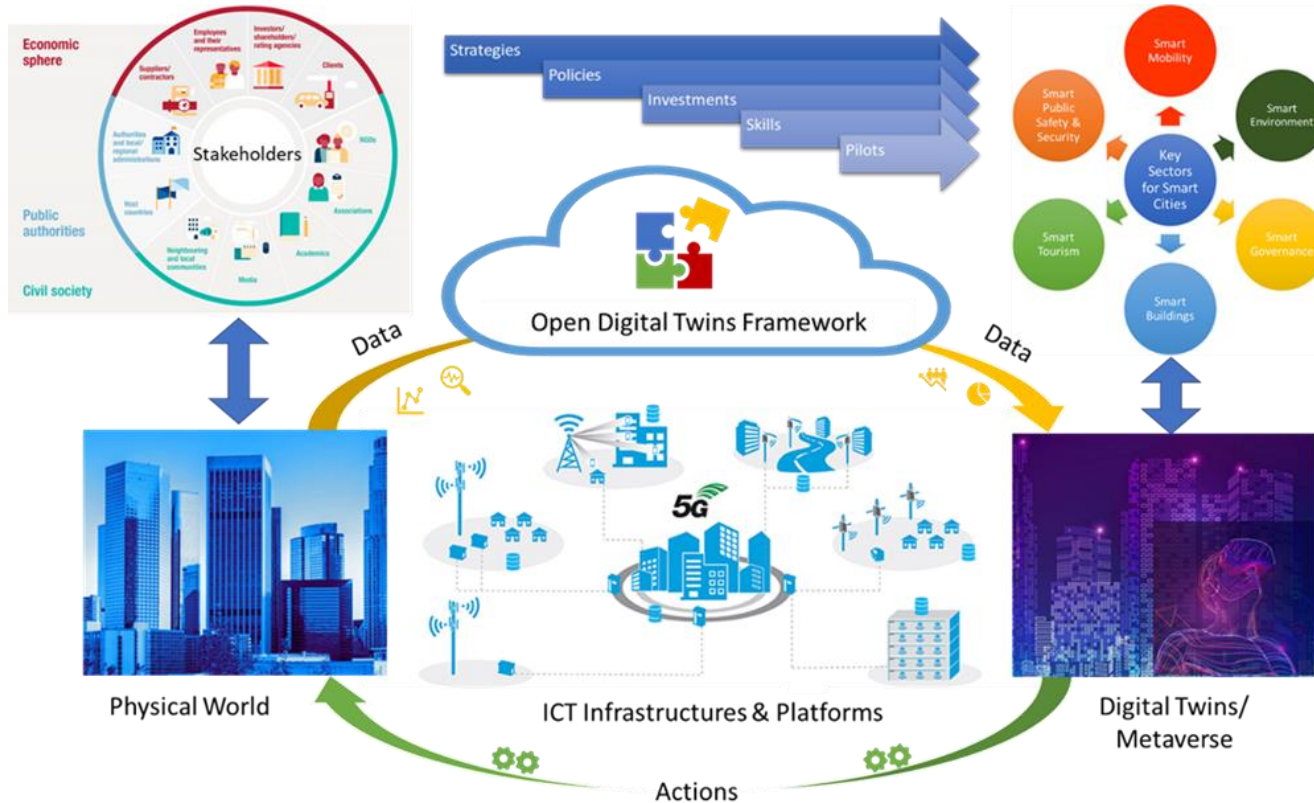
Objective 3: Design of Pilots for feasibility and **Proof of Concepts (PoCs)** for validation and feedback

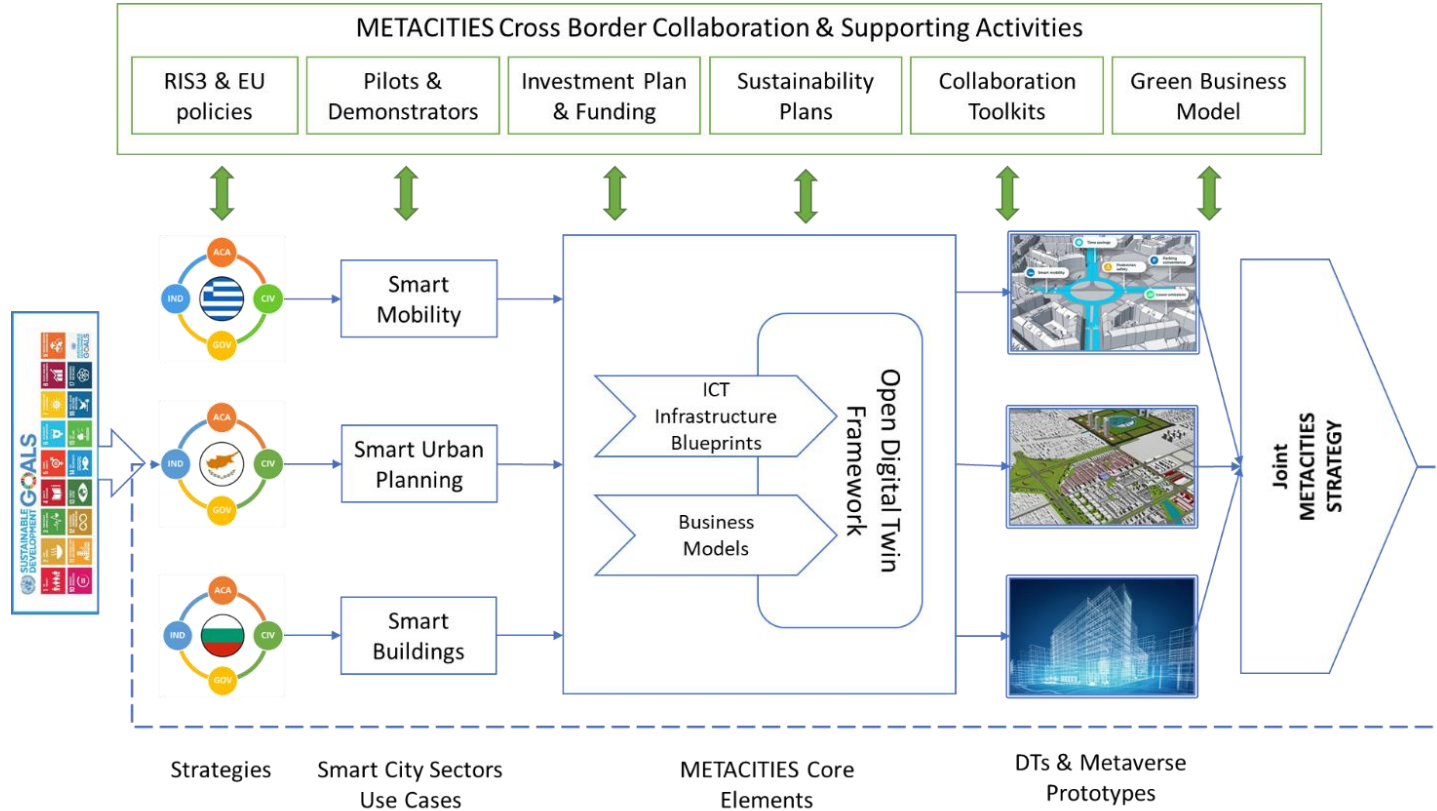
Objective 4: To identify an **Integrated Business Process framework** and **Business Models** for Metacities

Objective 5: Orchestrating and strengthening **local ecosystems** and channeling their potential to **accelerate digital transformation of cities and regions** so that they become attractive to new businesses and investments

Objective 6: To maximise the impact and adoption of METACITIES approach through wide **dissemination, communication, capacity building, economic and civil engagement, networking, standardisation and exploitation measures**.

METACITIES Conceptual Model





THANK YOU!



ΕΥΧΑΡΙΣΤΩ!

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