



# PANTHEON

**Community-Based Smart City Digital Twin  
Platform for Optimised DRM operations and  
Enhanced Community Disaster Resilience**



# About PANTHEON



The PANTHEON project strengthens disaster resilience against both **natural and man-made hazards** by advancing current models and tools. Through evidence-based analysis and policy evaluation, it aims to create a **community-driven digital ecosystem for Disaster Resilience**.

At its core lies **Smart City Digital Twin** (SCDT) technology, enabling precise assessment of potential disasters and their impacts, supported by analysis of regional policies and frameworks.

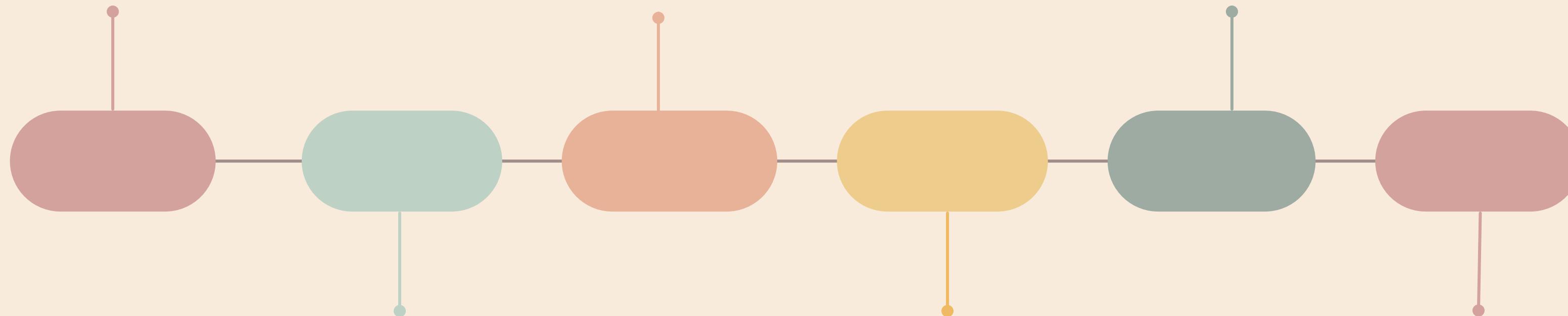
By leveraging real-time data, the PANTHEON consortium will **enhance decision-making before, during, and after disasters**, shaping the future of Disaster Risk Management.

# Project Objectives

**PANTHEON Disaster –  
Resilient Communities  
Model**

**Intelligence, CM-SCDT  
Processes and Optimal Disaster  
Risk Management Operations**

**Development of a  
synthetic Environment**



**Decentralised and  
Participatory  
Governance & Tools**

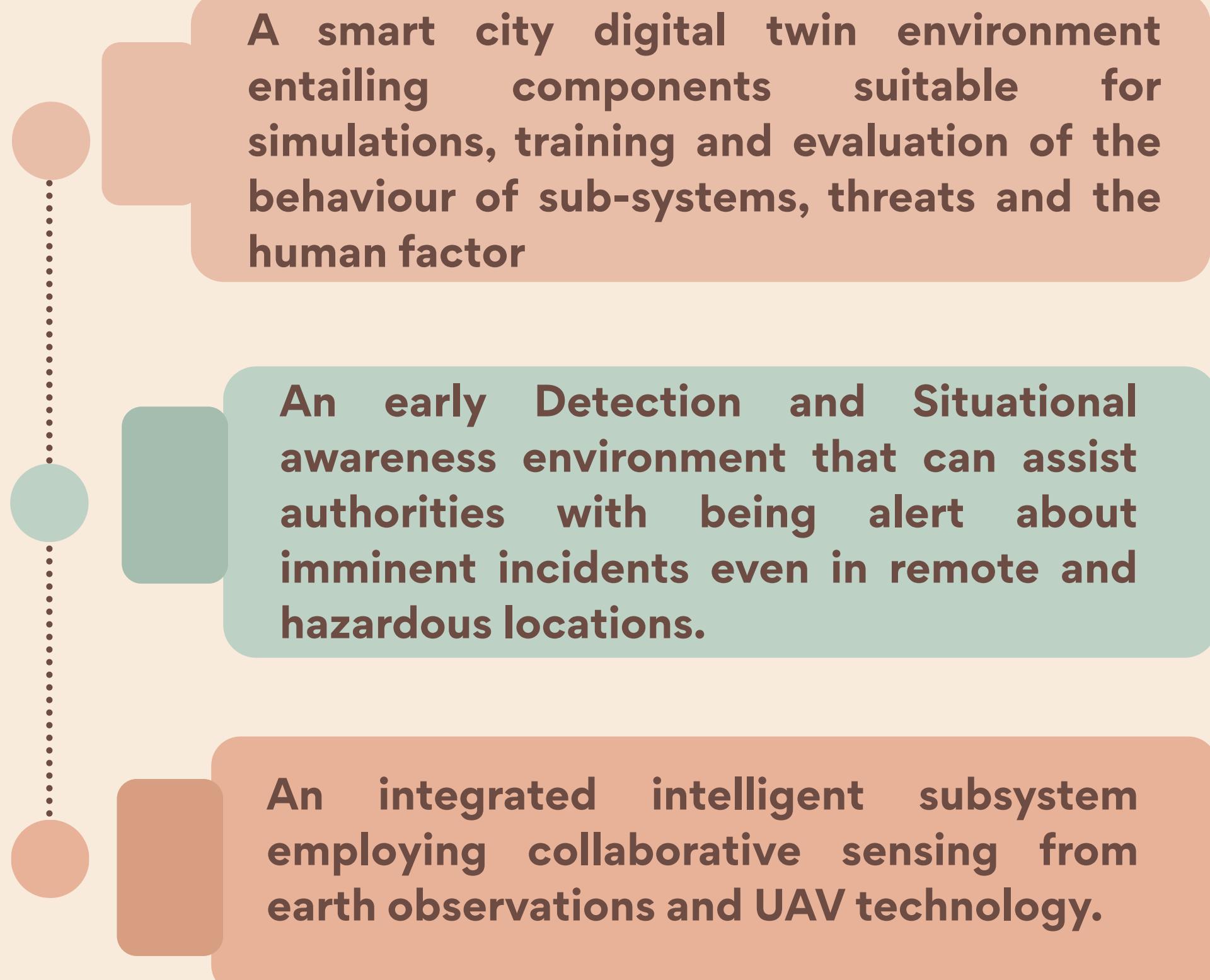
**Development of a Smart  
City Digital Twin (SCDT) for  
Community Disaster Risk  
Management (DRM)**

**Data Delivery Scheme  
and Remote Sensing  
for Community-based  
SCDT**

**The PANTHEON focus is on utilising Smart City Digital Twin (SCDT) tech & other emerging innovations to:**

- **advance the existing risk assessment methods**
- **mitigate potential vulnerabilities**
- **build a strong community disaster resilience foundation**

**To achieve these improvements, the PANTHEON consortium is working on:**



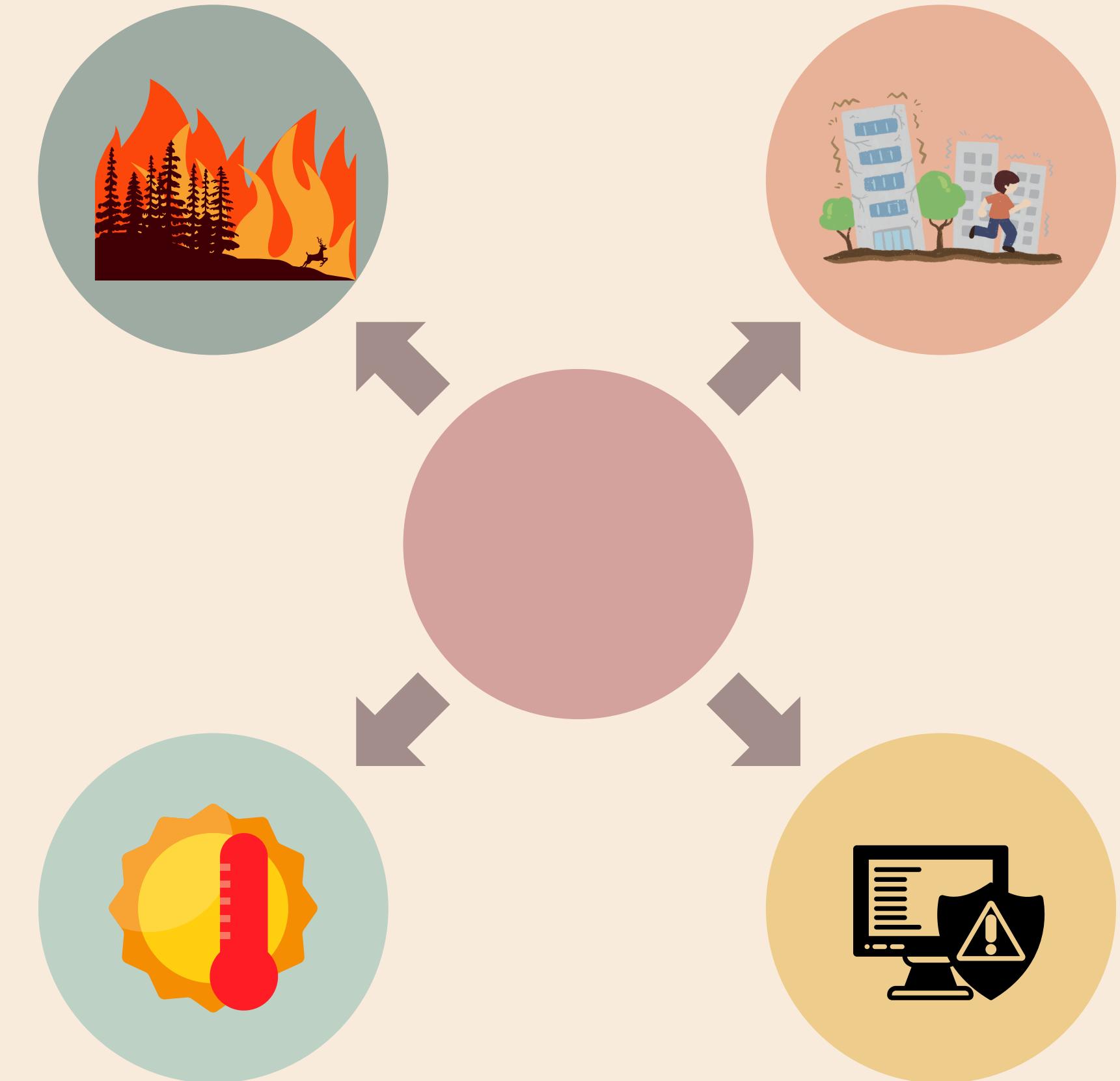
A smart city digital twin environment entailing components suitable for simulations, training and evaluation of the behaviour of sub-systems, threats and the human factor

An early Detection and Situational awareness environment that can assist authorities with being alert about imminent incidents even in remote and hazardous locations.

An integrated intelligent subsystem employing collaborative sensing from earth observations and UAV technology.

# Use Case Scenarios

- **Wildfire Management in Athens**
- **Earthquake Resilience in Athens**
- **Heatwave in Vienna**
- **Cyber-Physical Disaster in Vienna**



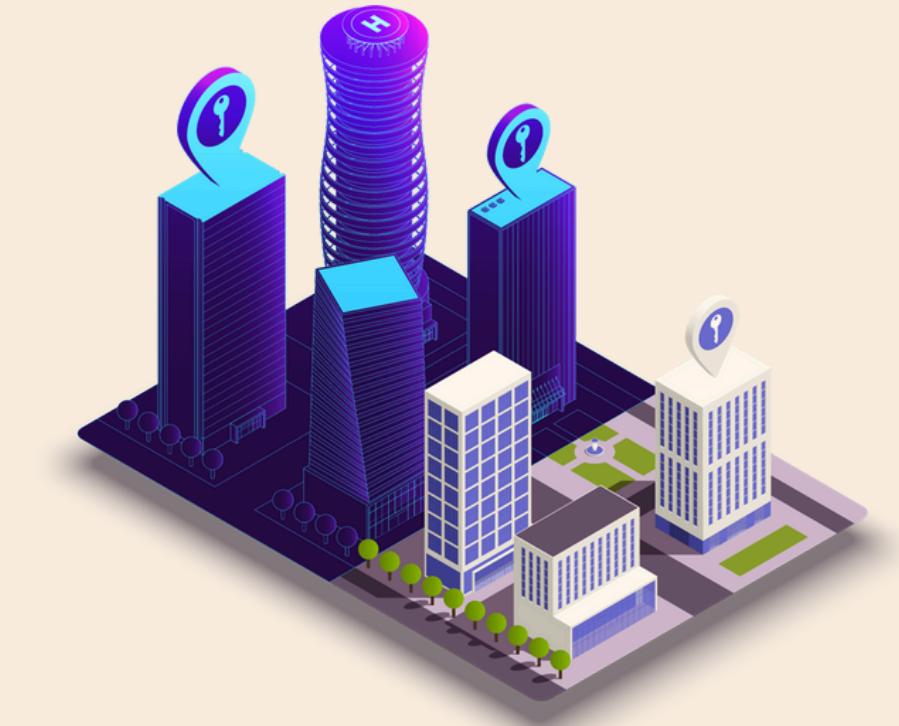
# Our Consortium



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<https://pantheon-project.eu/>



PANTHEON Project



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