



**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.

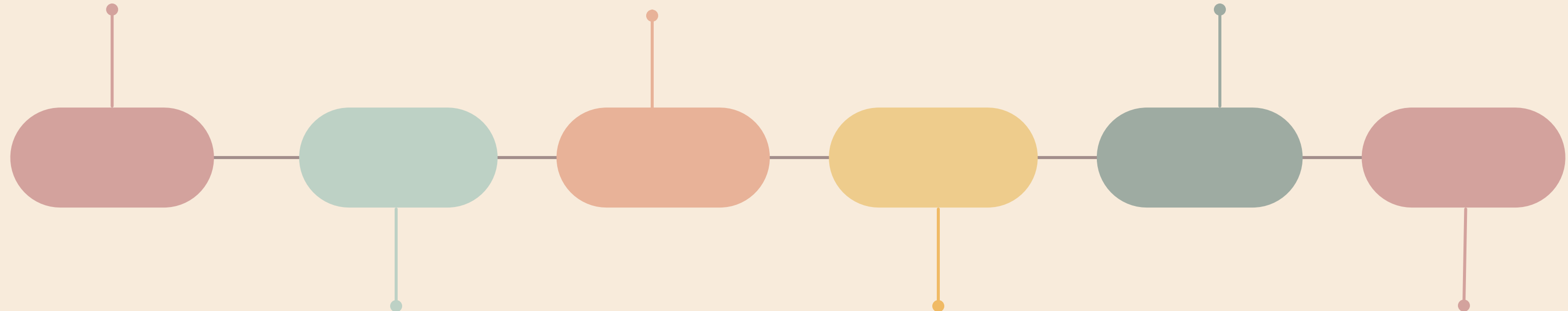
By leveraging real-time data, the PANTHEON consortium will **enhance decision-making before, during, and after disasters**, shaping the future of Disaster Risk Management.

# 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:**



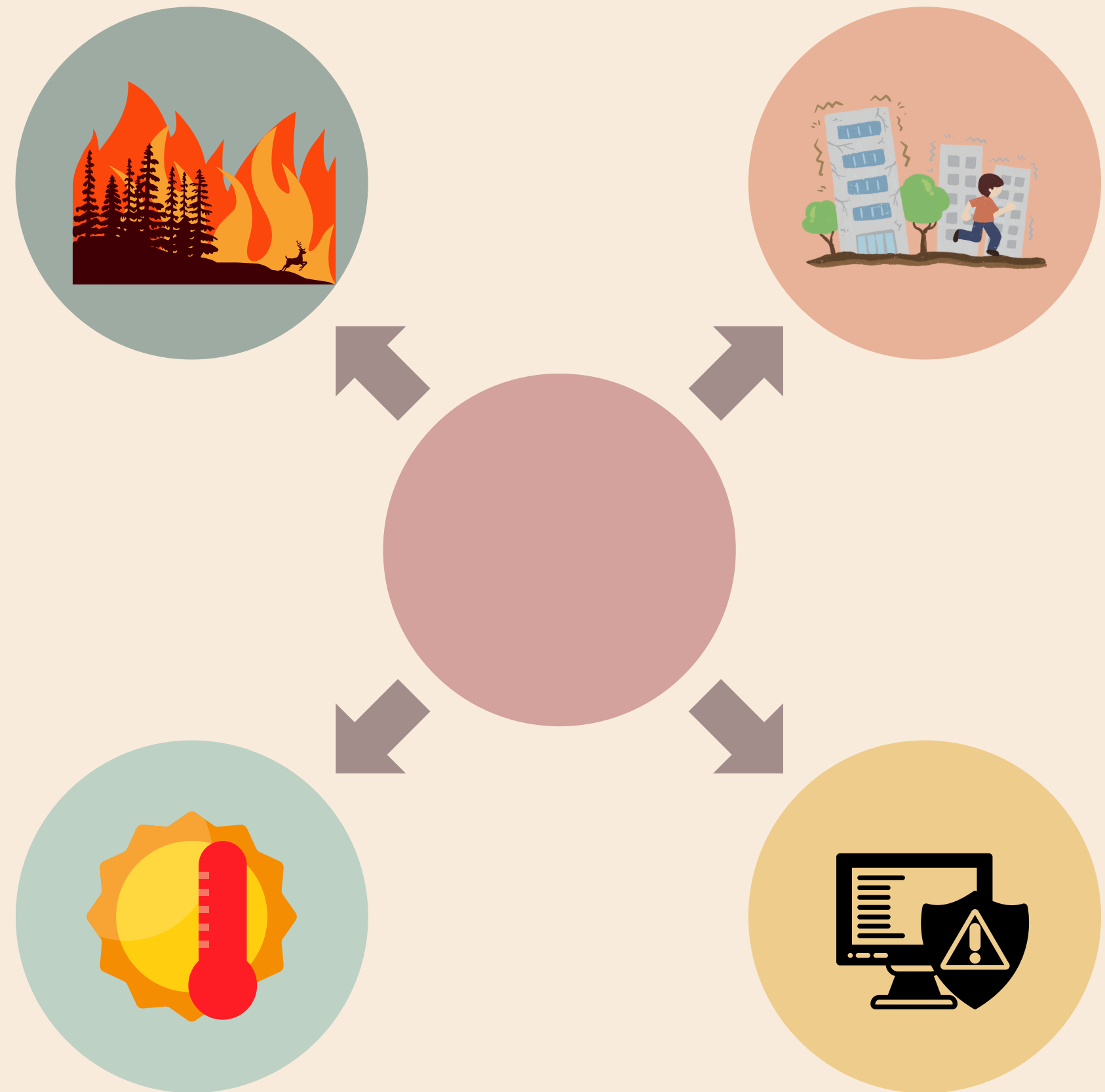
**A smart city digital twin environment entailing components suitable for simulations, training and evaluation of the behaviour of sub-systems, threats and the human factor**

**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





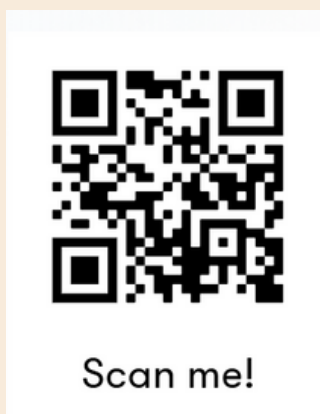
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**PANTHEON Project**



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