



Press release

BLUEPRINT launches a new vision for participatory and digital urban renovation across Europe

BLUEPRINT is a project funded by the European Commission that aims to reshape urban regeneration through participatory design and digital innovation. It has received funding from HORIZON-CL5-2024-D4-02-05 under Grant Agreement No. 101235708, with the granting authority being the European Climate, Infrastructure and Environment Executive Agency (CINEA).

Developing an integrated ecosystem of Digital Twins, AI and immersive technologies to support climate-neutral districts and inclusive cities. Citizens are at the heart of the project, with strong emphasis on co-design, accessibility and social inclusion. BLUEPRINT's approach will be demonstrated and validated in five real-life urban pilots across Europe

The BLUEPRINT project (Building Living Urban Ecosystems through Participatory Renovation and Innovation Tools) officially started on 1 October 2025, bringing together research institutions, local authorities, SMEs and social innovation actors to accelerate the sustainable transformation of European cities and neighbourhoods.

It addresses one of Europe's most urgent challenges: renovating the building stock at scale while ensuring inclusiveness, climate resilience and citizen engagement. The project moves beyond conventional technical renovation by combining advanced digital technologies with participatory urban regeneration processes, enabling cities to plan and manage sustainable transformation with and for their communities.

At the core of BLUEPRINT is a New European Bauhaus (NEB)-grounded framework for participatory renovation that integrates:

- Multi-scale Digital Twins (DTs),
- Artificial Intelligence-powered decision support,
- Virtual and Augmented Reality tools,
- Co-design platforms for stakeholders,
- Low-tech and analogue tools to ensure inclusive participation.

This unified ecosystem enables stakeholders (such as citizens, municipalities, SMEs etc.) to visualise potential renovation strategies, simulate their impacts and collectively shape future urban scenarios.

A strong emphasis is placed on engaging vulnerable groups and promoting social inclusion, ensuring that elderly, low-income and marginalised populations actively participate in decision-making and benefit from the transformation.

Demonstrating change in real cities

The BLUEPRINT solutions will be tested and validated in five diverse European pilot sites:

- Athens (GR)
- Issy-les-Moulineaux (FR)
- Balla (IE)
- Budapest District XVIII (HU)
- Benetutti, Sardinia (IT)

These pilots address a broad range of challenges including energy-efficient renovation, climate resilience, sustainable mobility, revitalisation of public spaces, and user-centred digital governance. Results from the demonstrations will feed into guidelines, capacity-building actions and replication strategies targeting cities across Europe.

A strong European consortium

BLUEPRINT is coordinated by Panepistimio Patron (University of Patras, Greece) under the coordination of Dr. Stylianos Karatzas (Project Coordinator) and brings together 23 partners from 10 European countries including universities, technology providers, municipalities, SMEs and civil society organisations.

The consortium's diversity ensures strong cross-disciplinary integration across:

- Urban planning and architecture,
- Social sciences and citizen engagement,
- ICT and AI development,
- Energy systems and sustainability,
- Policy, governance and training.

Looking ahead

Over its 42-month duration, this 5M€ Innovation Action project funded by the European Commission will deliver an integrated participatory platform, validated digital tools, training programmes and policy recommendations supporting cities in achieving climate neutrality, resilience and social fairness.

By bridging technology with people-centred innovation, BLUEPRINT contributes directly to the European Green Deal, the Renovation Wave Strategy, and the Built4People Partnership, driving the transition towards sustainable and inclusive urban ecosystems.

Project Partners



BLUEPRINT is contributing to the implementation of the co-programmed public private partnership in Horizon Europe's Cluster 5, Built4People (B4P) which brings together projects on climate, energy and mobility.



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Note to editors: Please use the following hashtags for social media: #BLUEPRINT #Built4People #DigitalUrbanRenovation #Sustainability #HorizonEurope