

# City4Climate

## 1. City4Climate – City Digital Twins for Climate Action

Project Number | 2025.00141.DT4ST

Call | DigitalTwins4SmartTerritories (DT4ST)

Type of Action | National R&D Project for Smart Territories and Climate Action

Intervention Region | Lisbon, Porto, Guimarães

Academic Leader | Nova Cidade – Urban Analytics Lab

Technical Leader | Porto Digital

Start Date | July 2025

End Date | June 2026

Total Attributed Budget | €1,499,803.58

Porto Digital Budget | €194,259.27

### 1.1 Partners

- Universidade Nova de Lisboa – Centro de Investigação em Gestão de Informação
- Porto Digital
- Câmara Municipal de Lisboa
- Câmara Municipal do Porto
- Câmara Municipal de Guimarães
- Agência de Energia do Porto
- ASSOCIAÇÃO PORTO BUSINESS SCHOOL
- Associação CCG/zgdv - Centro de Computação Gráfica
- TekPrivacy
- DevScope
- Lisboa E-Nova - Agência de Energia e Ambiente de Lisboa

- Universidade de Aveiro
- Ubiwhere
- Município de Oeiras
- Câmara Municipal de Vila Nova de Famalicão

## 1.2 A brief description of the project

City4Climate aims to empower Portuguese cities to lead in climate action through the deployment of City Digital Twins—virtual replicas of urban environments that integrate real-time data, climate indicators, and governance workflows.

The project will:

- Develop interoperable digital twin platforms in Lisbon, Porto, and Guimarães.
- Support climate adaptation and decarbonization through data-driven urban planning.
- Promote collaboration between municipalities, academia, and technology providers.
- Create a scalable and replicable model for smart climate governance.

## 1.3 Overarching goals

- Reduce urban CO<sub>2</sub> emissions.
- Increase resilience to climate change.
- Foster innovation in digital urban governance.

## 1.4 Actions for City4Climate

- Design and implement digital twin architectures aligned with EU climate frameworks.
- Integrate multi-source urban data and predictive modeling tools.
- Enable real-time monitoring and simulation for informed decision-making.
- Disseminate results to national and European smart city networks.

Website: [city4climate.pt](https://city4climate.pt)