

Pilot Cities

Valencia

Pilot City Activities

CityCLIM Pilot Valencia



What is CityClim?

CityCLIM is a European Union-funded project designed to develop an open platform for climate information and mitigation services. It integrates data from Earth observation sources, ground measurements, and urban weather prediction models to provide detailed weather forecasts for various European cities. The project acknowledges the significant impact of climate change on urban life, particularly the Urban Heat Island (UHI) effect, and addresses these challenges through mitigation and adaptation strategies.

Generic City Climate Platform (GCCP)

The Generic City Climate Platform (GCCP) is a Software-as-a-Service (SaaS) solution developed as part of the CityCLIM project to provide climate adaptation and mitigation services for cities. It **integrates diverse climate data sources, including ground measurements, airborne and satellite data, to offer an advanced urban weather model.** The platform serves as a one-stop shop for City Climate Services, helping both city administrations and citizens understand, predict, and respond to climate-related challenges.

- Services**
- **Citizen Climate Knowledge Services (CCKS):** A public service that informs, warns, and engages citizens on climate change and extreme weather events, encouraging awareness and adaptation.
 - **City Administration Services:** A decision-support tool for city planners and policymakers to analyze, simulate, and implement sustainable urban climate strategies.

INFORM CITIZENS ON CLIMATE CHANGE

WARN CITIZENS ON ARISING HAZARDS

ONE-STOP SHOP FOR CITY CLIMATE SERVICES

SUPPORT MITIGATION & ADAPTATION STRATEGIES

ADVANCED URBAN WEATHER MODEL

ADVANCED URBAN WEATHER MODEL



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Valencia City Council, after working as a pilot city for the CityCLIM project, considers it a tool that will significantly improve both internal and external management. The experience has been a great team effort, and the results gathered from the city are expected to be implemented in the smart city services, providing very valuable information.

Internally, the CityCLIM project is considered particularly beneficial for tackling climate-related challenges, such as predicting heat waves, and for guiding urban planning decisions made by the Council. Its predictive capabilities position it as a strategic asset in managing the city's response to climate issues. Externally, the tool aims to provide citizens with valuable information, offering insights that are expected to generate significant public interest and engagement.

To support the project, Valencia has provided essential data on air quality and weather conditions collected through its network of monitoring stations (Red de Vigilancia y Prevención de la Contaminación Atmosférica y Acústica). These stations measure pollutants such as sulfur dioxide, carbon monoxide, ozone, nitrogen oxides, and particulate matter, along with weather details like wind, temperature, humidity and rainfall.



Pictures of campaigns and activities (setup of weather stations, citizen science and talks) in Valencia.

In addition, citizens have taken part in a citizen science measurement campaign by installing weather stations from National Geographic on their balconies, terraces, and public buildings to help collect data, or using portable Meteotracker devices while traveling by bike or car to monitor environmental conditions on the move, contributing real-time information to the project.

Furthermore, Valencia has installed two BARANI weather stations as part of the project, expanding the city's existing meteorological network. These new stations aim to enhance environmental monitoring and inform urban planning decisions through accurate weather data.



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Further Information: <https://smartcity.valencia.es/es/>