

CITYCLIM.EU

CityCLIM Milestones

- City Administration Service -

Gathering relevant data

Building on existing services and frameworks, such as Copernicus including observational space-borne & air-borne data as well as ground stations





Processing & Improvement

Building a Generic City Climate Platform that serves as one stop access point for all gathered data after data processing improvement and harmonisation

Weather Model & Simulations

Creating high resolution forecast maps from the UltraHD 100m city weather model and derive warnings & local heat indices for exemplary days (e.g. "hot summer days")



Insight & Mitigation

Work together with Pilot cities to jointly use UltraHD generated heat and air flow "profiles" to learn about vulnerabilities and subsequently generate mitigation strategies that address them in advance

How can CityCLIM assist in urban planning for biodiversity?

Use high resolution data to find areas of optimum growth range for specific urban flora and fauna, to help integrate nature into urban design and achieve a better balance between the human-nature interaction Better plan for Local and specific nature-based climate data for solutions (e.a. better urban forests. understanding and areen corridors. design of urban green roofs). conservation providina COpolicies and their benefits linked implementation in to biodiversitv the development and climate of sustainable cities adaptation Better understand and tackle the Ultra HD "profiles" provide insights challenges of ongoing urban climate for future planning of approaches change and heat islands to biodiversity. for better integration of biodiversity providing insights for practical into the urban planning process mitigation strategies for restoring and and landscape architecture practice maintaining biodiversity in urban areas AJUNTAMENT DE VALÈNCIA RTL HELMHOLTZ für Umweltforschung arlsruh













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