

BUILDSPACE Services



Did you know that..?



BUILDSPACE offers **5 decision support tools** through a **Core Platform** to enhance building and urban sustainability.

These services help cities become more **sustainable and resilient to climate risks**. Drones and satellite data are integrated to improve building energy efficiency and climate resilience, as well as advanced technology is used to help cities better prepare for the impacts of climate change.



They will be tested in pilots in **four EU countries**: Poland, Latvia, Greece and Slovenia.



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The services are divided into building level and city level categories:

Services (SE) at **building level**

SE1. Digital Twin Generation



Creates detailed 3D digital twin of buildings using locally sourced data, integrating methods to detect and classify building elements.

SE2. Digital Twins enrichment



Integrates thermal imagery from drones and AI-driven analysis to enhance digital twins with critical data on building envelopes.

Services (SE) at **city level**

SE3. Building Environment Climate Scenarios



Estimates current and future building energy demand under different climate scenarios, while promoting retrofitting strategies and solar PV deployment.

SE4. Urban Heat Analysis and Resilience



Analyses urban heat islands with high-resolution data and combines demographics to assess urban heat risk and social vulnerability.

SE5. Urban Flood Resilience



Predicts and visualises flood risks and damages under different climate scenarios, supporting cities in planning retrofits and blue-green infrastructures for flood resilience.

STAY TUNED to know more about the implementation of the services in the *BUILDSPACE Pilots*



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BUILDSPACE Horizon Project