Product preview

geo-URBANHEAT

Urban Heat Islands Platform

Urban Heat Islands Platform :

is a decision-support platform that turns urban heat data into clear, actionable maps. It helps cities identify heat-risk hotspots and compare cooling solutions, such as green/blue infrastructure and policy measures, to reduce Urban Heat Islands.

Cities are able to:

- Map urban heat risk
- Identify priority hotspots at neighborhood/block level
- Compare baseline and mitigation scenarios with measurable indicators

Use cases :

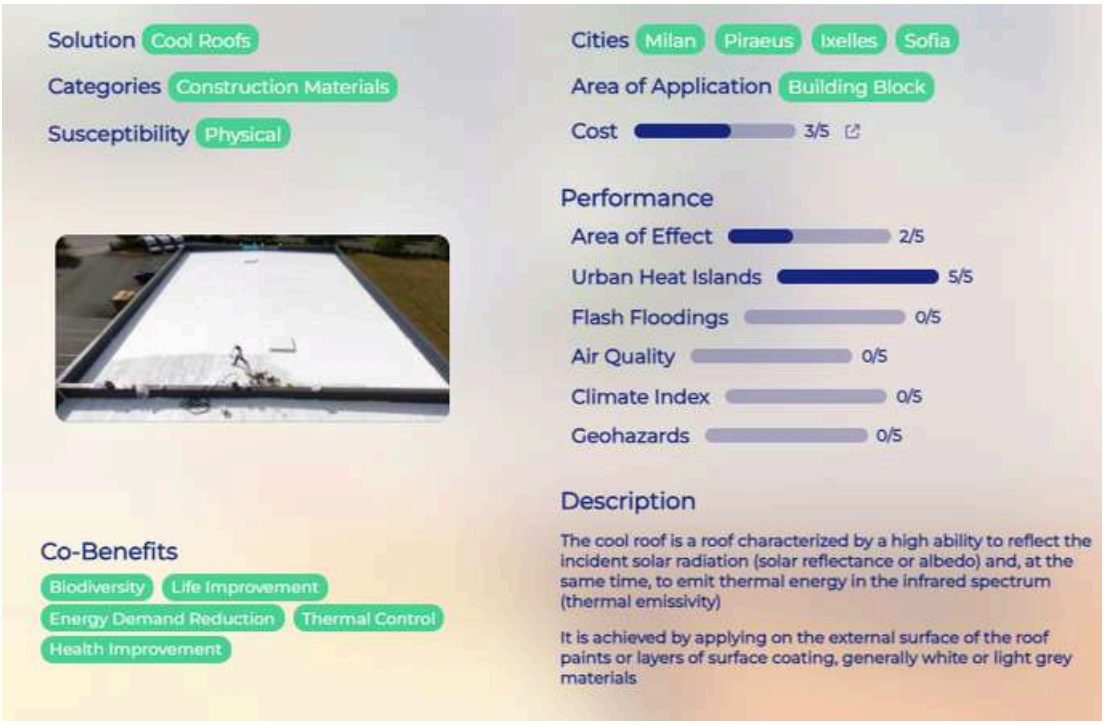
- **Municipalities**: hotspot prioritization, cooling actions, heat resilience planning
- **Real estate**: heat-risk screening for retrofits and investments
- **Infrastructure operators**: heat-risk assessment for transport, energy, and public assets
- **Public health agencies**: identification of heat-vulnerable areas
- **Utilities & energy providers**: forecasting heat-driven demand and cooling options
- **Researchers & consultants**: high-resolution heat data and scenario analysis

Scenario Comparison Statistics Tools

A tool that lets you compare two urban scenarios for the demo city by displaying a split-screen map layer (orange 3D indicator) and summary charts that quantify the risks of the chosen solutions.

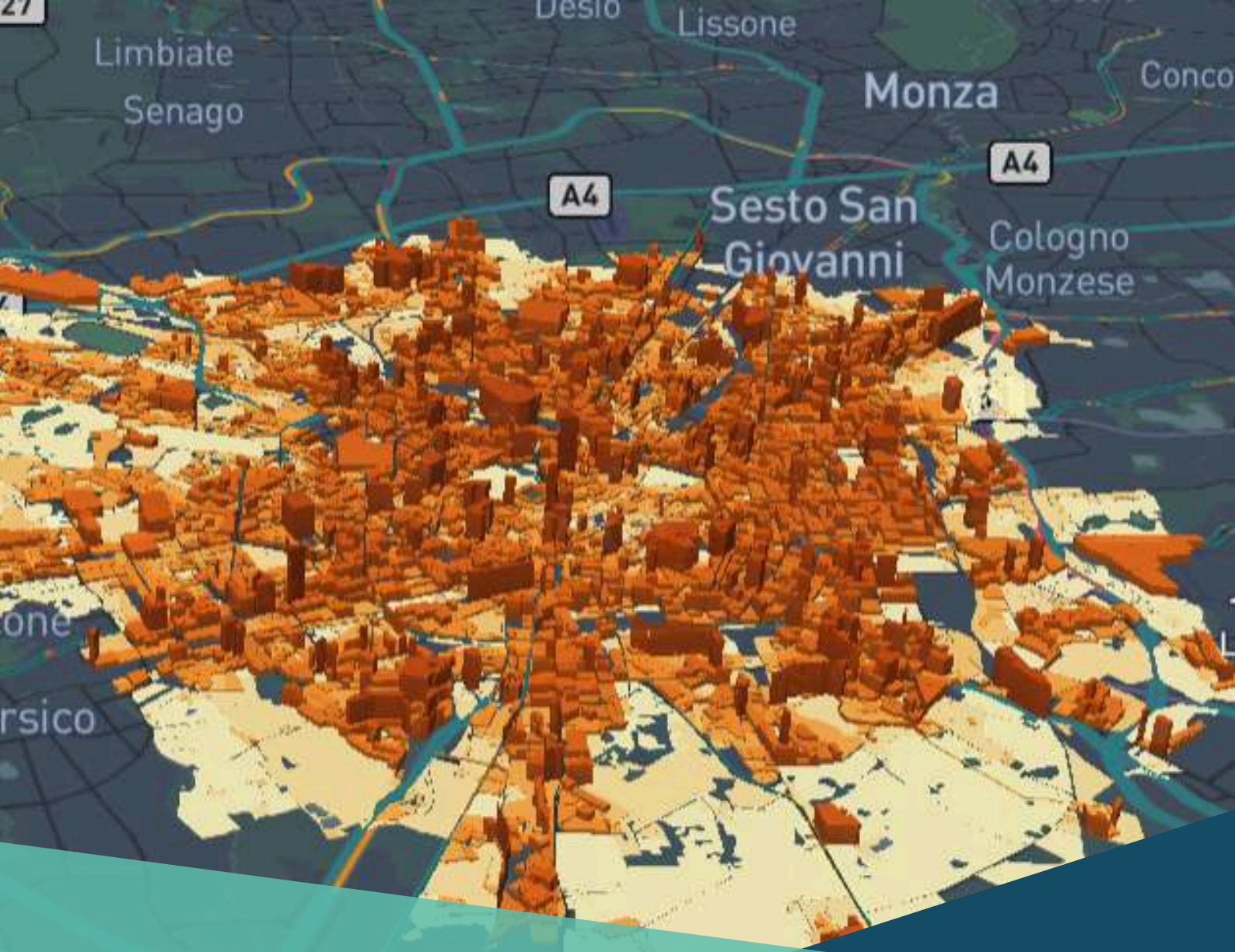
Demonstration of the unique scenario comparison tool, showcasing both the map and dynamic chart visualisations.

Available Urban Planning Solutions that suggest UHI Index



Comparison table	Desktop GIS workflows	Commercial City Planning Apps	geoURBANHEAT
Integration of EO data & census information		◐	
Spatial resolution (building block level)		◐	
Urban context layers (land cover, transport, critical infrastructure, buildings)			
Multiparametric risk assessment	◐	◐	
Urban risk mitigation scenarios (before/after measures)	◐		
Baseline vs mitigation comparison with measurable indicators	-	◐	
Actionable recommendations for urban resilience	-	◐	
Decision-support for smart policy-making	-	◐	
City coverage (scalable and adaptable)			
Target users: municipalities, planners, and stakeholders			

: yes - : no ◐ : not fully


Desio
Lissone
Limbiate
Senago
Monza
Conco
A4
A4
Sesto San
Giovanni
Cologno
Monzese
one
rsico