



MANGROWE

MAppiNg Green Roof Opportunities for Water and Energy efficiency

<http://gecosistema.com/mangrowe>

The Mapping Project Green Roof Opportunities for Water and Energy efficiency (**MANGROWE**) is web a spatial decision support system (SDSS), which assesses the benefits associated with the transformation of existing roofs (or new construction) in "GREEN ROOFS".

The SDSS integrates data and computational models for evaluations of six key topics:

- 1) Energy: Mapping of possible energy savings (heating, cooling, microclimate)
- 2) Water: mapping of the water balance of the roofs and water resources potentially made available, as well as the mitigation of floods
- 3) Plants: buoyancy agronomic optimum choice for a green roof under certain environmental conditions
- 4) Landscape: Integrating green roof in a given urban or territorial
- 5) Construction: Materials and static aspects
- 6) economics and strategy: costs and benefits

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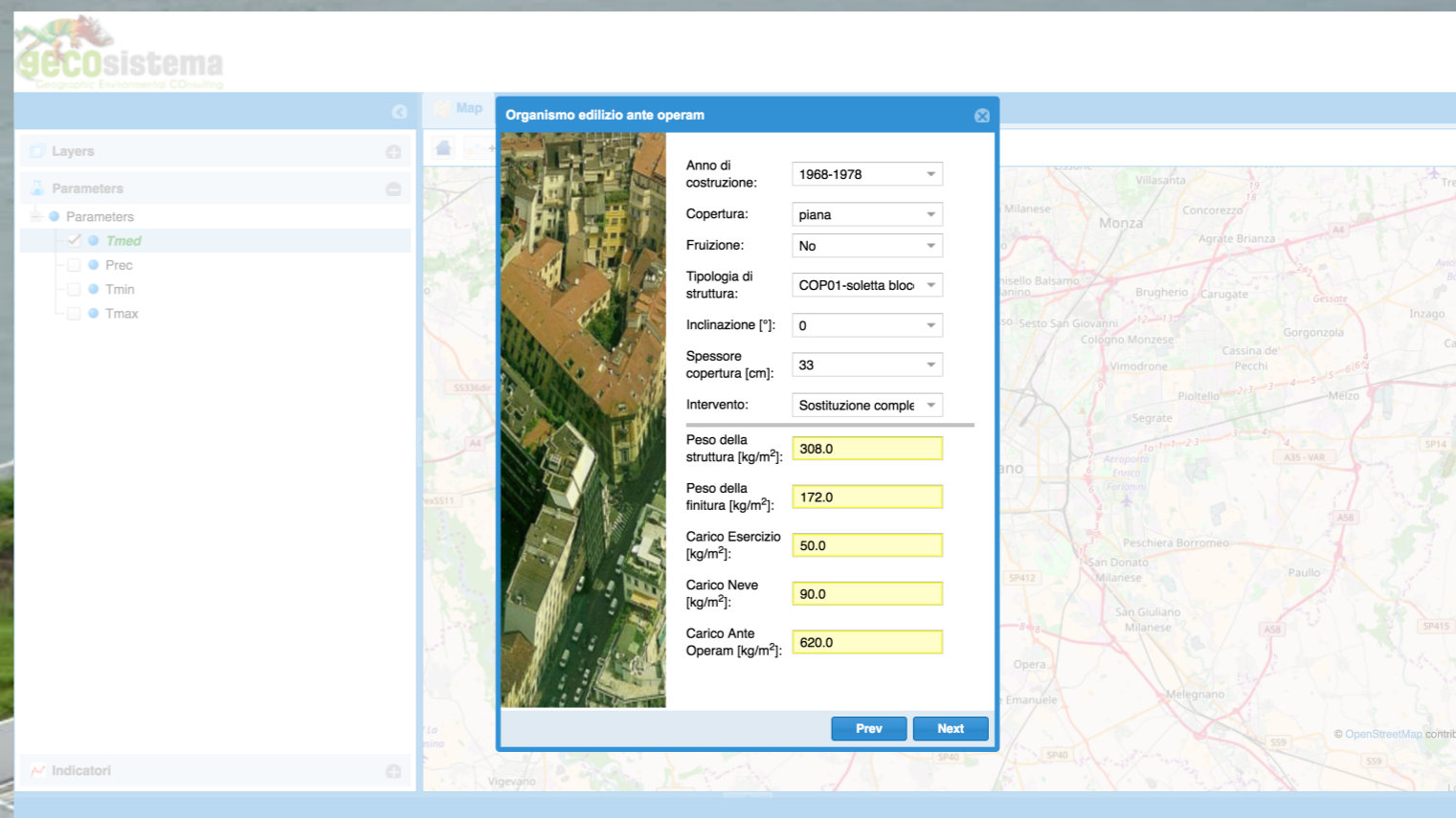
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MANGROWE service is open to designers, investors and planning bodies and local planning and energy managers to promptly, at competitive costs, the quantitative parameters that allow you to identify opportunities for intervention and define the strategies and general guidelines.

Take a look at our tool:

<http://gecosistema.com/mangrowe>

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The screenshot displays the Mangrowe web application interface. On the left, there is a 'Layers' panel with 'Parameters' expanded, showing options for 'Tmed', 'Prec', 'Tmin', and 'Tmax'. The main area features a map of a city with a 3D building model overlaid. A 'Parameters' form is open, titled 'Organismo edilizio ante operam'. The form includes the following fields and values:

Anno di costruzione:	1968-1978
Copertura:	piana
Fruizione:	No
Tipologia di struttura:	COP01-soletta bloc
Inclinazione [°]:	0
Spessore copertura [cm]:	33
Intervento:	Sostituzione comple
Peso della struttura [kg/m ²]:	308.0
Peso della finitura [kg/m ²]:	172.0
Carico Esercizio [kg/m ²]:	50.0
Carico Neve [kg/m ²]:	90.0
Carico Ante Operam [kg/m ²]:	620.0

At the bottom of the form, there are 'Prev' and 'Next' buttons. The background of the application shows a map of the Milan area with various districts labeled.