

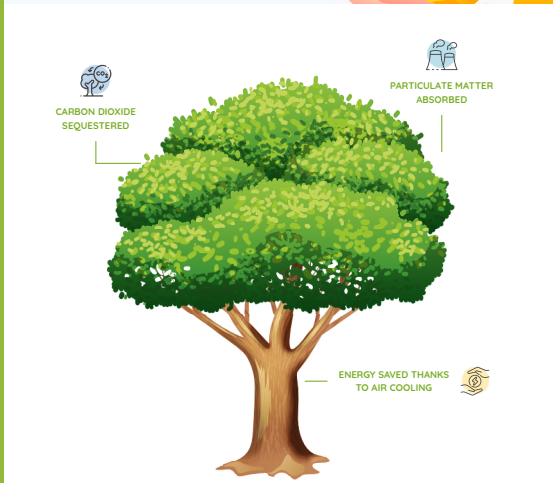
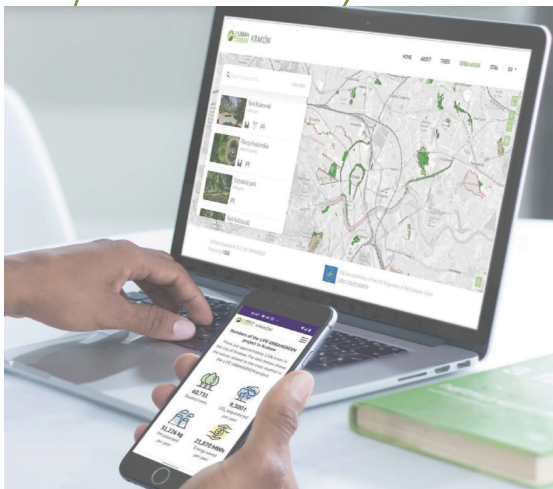
GREEN SPACES

designed by R3GIS

ADDITIONAL MODULES

Adapt to climate change, reduce the carbon footprint of maintenance activities and engage citizens

COMPANIES
PUBLIC ADMINISTRATIONS
TREE AND PLAYGROUND EXPERTS



ENVIRONMENT



GreenSpaces METEO Module

Maintenance activities in the field are highly dependent on weather conditions. This module provides the necessary weather information to plan activities more efficiently:

- Weather dashboard with current hourly data and future forecasts on precipitation, temperature, humidity, wind, evapotranspiration, solar radiation;
- Updated weather warnings available in case of potential problematic situations;
- Possibility to download raw historical weather data and forecasts.



GreenSpaces BENEFITS Module

Based on weather data and algorithms developed by the University of Milan and the University of Florence, this module calculates the daily values of environmental benefits of trees and shrubs. The following benefits are calculated:

- CO₂ adsorbed, sequestered and stocked;
- PM_{2,5} and PM₁₀ deposited;
- Water transpired;
- Energy saved for air cooling.



GreenSpaces WATER Module

This module predicts plants water needs, by comparing the water transpired with the water balance in the soil, allowing the planning of irrigation activities. Calculations are based on the following data:

- Parameters of trees (species, age, size and growth site);
- Weather conditions (past, present and future forecasts);
- Water transpiration of plants;
- Previous irrigations;

The user is informed when a plant needs irrigating and can proceed to schedule the necessary activities.

Menu/Functions	METEO	BENEFITS	WATER
Meteo dashboard	X	X	X
Weather warnings	X	X	X
Weather data	X	X	X
Ecosystem services		X	X
Smart irrigation			X

JOB PLANNING



The module activates the tools necessary for advanced job management, giving the possibility to schedule jobs at a specific date and time and assigning them to specific users or teams. If combined with the METEO module, the calendar allows optimisation of job planning, taking into account weather forecasts. The WORKS Module allows:

- Easy scheduling of maintenance and care activities;
- Smart work scheduling check, considering distance between jobs and weather conditions;
- Team management and monitoring;
- Flexibility in managing contractors;
- Cost controlling by recording the resources used for each job.

PARTICIPATION



Adaptation strategies to the increasing number of heat waves, droughts, heavy rainfall and wind gusts cannot succeed without citizen participation. Citizens are informed through a public portal about urban green areas and the environmental benefits they provide. Information about trees, shrubs, assets and playgrounds is displayed in an interactive map.

Discover some of the public examples of GREEN CITY Modules that were developed by R3GIS:

**Public Portal of
Krakow (EN)**

krakow.lifeurbangreen.eu



**Public Portal of
Bolzano (DE)**

bozen.verdevale.eu



**Public Portal of
Rimini (IT)**

rimini.lifeurbangreen.eu





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