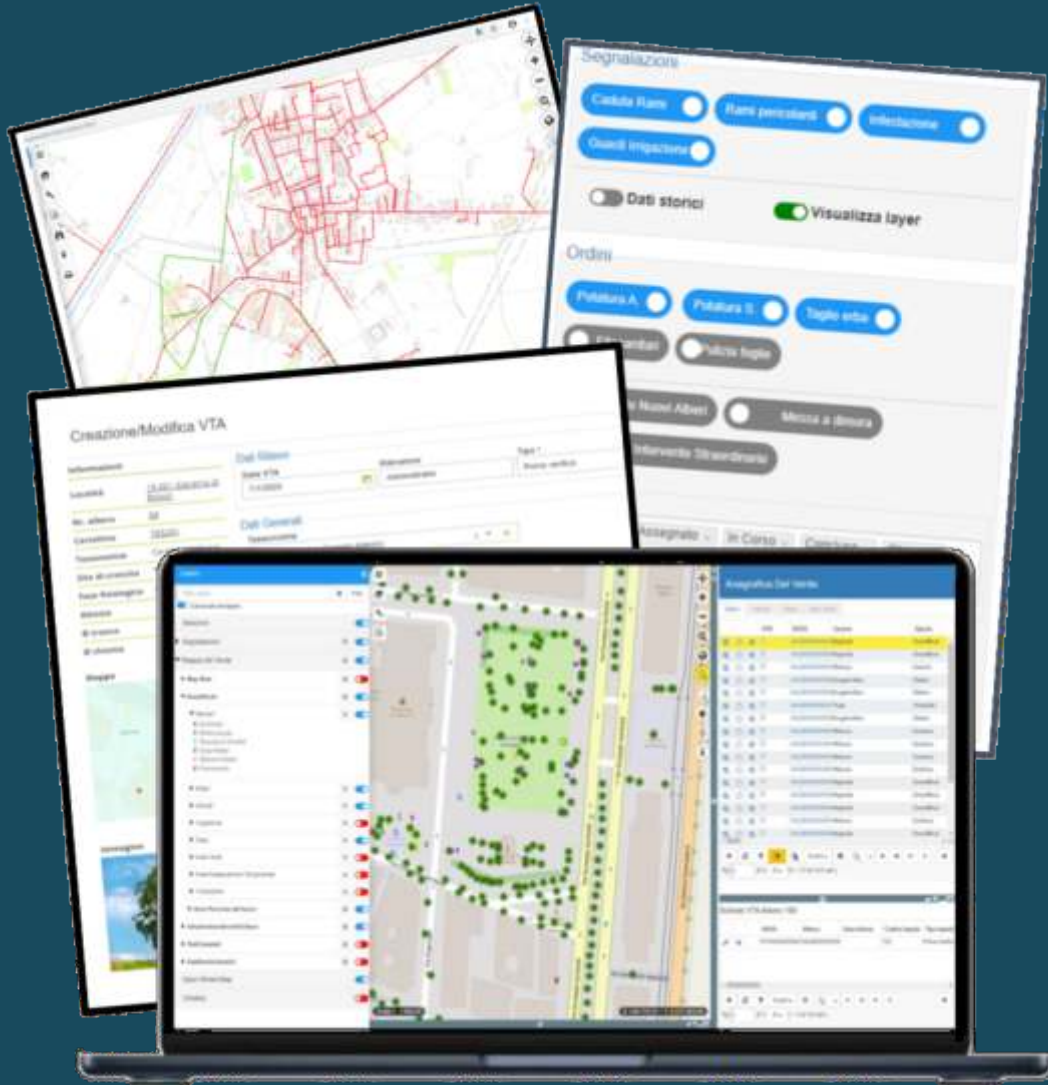




Green Information System



THE MOST COMPREHENSIVE FULL-DIGITAL SYSTEM FOR MONITORING AND MANAGING URBAN VEGETATION

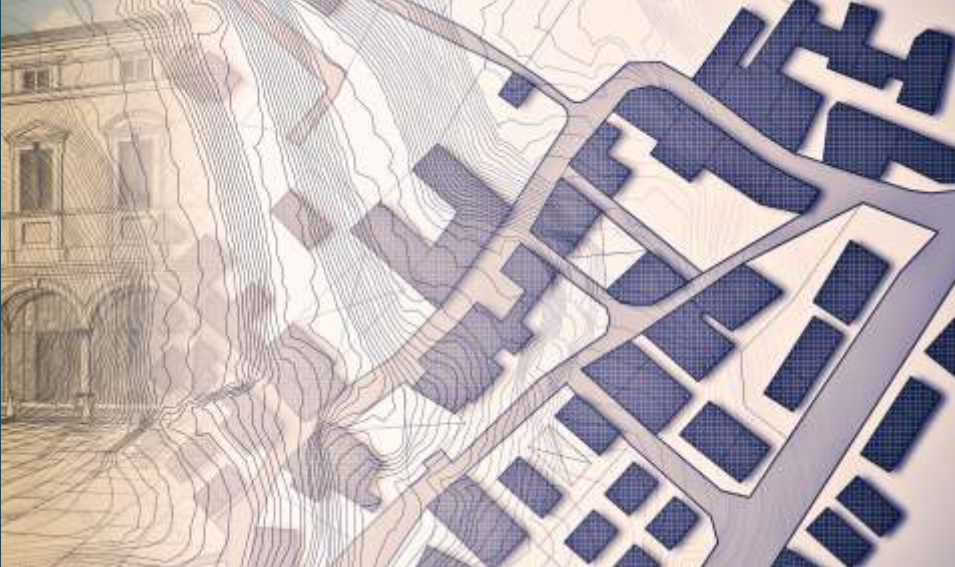


The Green Information System (SIV) is a tool to support decisions on public green and city tree maintenance through digitized information that is dynamic and accessible to all stakeholders.

There are many benefits that urban vegetation can bring to make cities increasingly livable: absorbing CO₂, protecting soil and microclimates, improving air quality, and increasing psychological well-being. And in this field, too, digital technology can make a valuable contribution to improving management.

SIV is a GIS-Centric platform based on ESRI technology that enables the full digitization of urban tree heritage monitoring and maintenance activities. The integration of information from multiple sources (from land registries to sensors), the high level of detail (down to the individual tree, shrub, or flower bed), and the ability to interface with work management systems and public portals enable administrations to make operational processes increasingly efficient and increase citizen awareness and participation on the issue.

SIV introduces the potential of digital technology in all aspects of urban green area management, becoming a simple and user-friendly guide for administrators, operators, and citizens.



MULTILAYER LOGIC INFORMATION

- Types of greenery as per municipal plans and tree census
- Integration of data from cadastres, fire-affected areas, weather, traffic, etc.
- Details on water points and areas equipped with irrigation systems



WORKFORCE MANAGEMENT TOOLS

- Management of maintenance plans, reports, and work orders
- Organization of work teams, with roles and schedules
- Consultation and modification of data directly in the field



INTEGRATION WITH IOT AND SUPPORT FOR VTA

- Real-time measurements on green assets and maintenance status
- Digitized phytosanitary monitoring for each individual tree
- Biometric details and photographic documents for visual assessments



AN "OPEN" AND OMNICHANNEL PLATFORM

- Available on desktop and mobile, with responsive interfaces
- Tree mapping accessible to citizens on public portals
- Optional interactivity and gamification mechanisms ("Adopt a tree")

A MODULAR AND CONFIGURABLE SYSTEM



PUBLIC GREEN REGISTRY MANAGEMENT

The tool for managing the entire tree stock, shrubs, hedges, and landscaped areas. For trees, it implements the Virtual Tree Assessment (VTA) card system, which describes the state and evolution of the plant over time.

MAINTENANCE MANAGEMENT (WFM)

The application module that allows you to manage reports on SIV assets (trees, shrubs, green areas, sensors, etc.) and plan the work orders of field operators also through the use of Gantt diagrams.

An aerial photograph of a village with a river. The roofs of the buildings are highlighted in orange and blue, indicating sensor data or land use. The text is overlaid on a white rectangular box on the right side of the image.

SENSOR MONITORING (IOT)

This module allows visualization of data from installed sensors. Both historical and real-time data can be examined, presenting them in tabular form or via graphs.

CADASTRE CONSULTATION

The form allows quick and customizable searches. Search options and information provided match user profiles in full compliance with privacy regulations.



THE ADVANTAGES

- Developed by Sister based on the market leader ESRI's ArcGIS framework
- Data fusion with integration between cartography, tree census, third-party data, and measurements
- Dynamic and updatable Visual Tree Assessment cards for each green element
- Ability to manage profiles with differentiated roles and access permissions
- Accessible also from external services such as municipal informational portals
- Possible addition of interactive functionalities and gamification (adoption of plants or green spaces)



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through innovation

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