

MOBILITY

TRAFFIC



SMI

INTEGRATED MONITORING MANAGEMENT AND CONTROL SOFTWARE

GENERAL CHARACTERISTICS

SMI (Integrated Monitoring System) is a multimedia software platform which offers road infrastructure operators a strategic centralised tool for controlling and improving the performance of equipment in the field; managing acquired data; and managing mobility as a support to decision making.

The open nature of the **SMI** platform, its outstanding expandability, modularity and compatibility, make it extremely flexible, able to handle a variety of field technologies, and hence to satisfy a vast range of transport design and infrastructure requirements.

SMI works and interfaces with the user very easily and flexibly; it provides real time control, collection, processing and intelligent display of all the data acquired by the road monitoring systems (levels of service, traffic flows, number plate recognition, weather/road parameters, context images, alert messages, diagnostics, etc.).

The software's database management system processes the logged data for statistical analyses of the performance of the road network and the behaviour of drivers.

SMI automatically and continuously supervises and controls the telematic network of peripherals, using advanced diagnostics and automatic troubleshooting systems.

SMI provides a full set of Trouble Ticketing tools to enable maintenance staff (both routine and extraordinary) to plan, optimise and check their work.

The user friendly GUI (graphic user interface) connects the user with the systems in the field, represented and located in an interactive mapping system by dynamic icons.

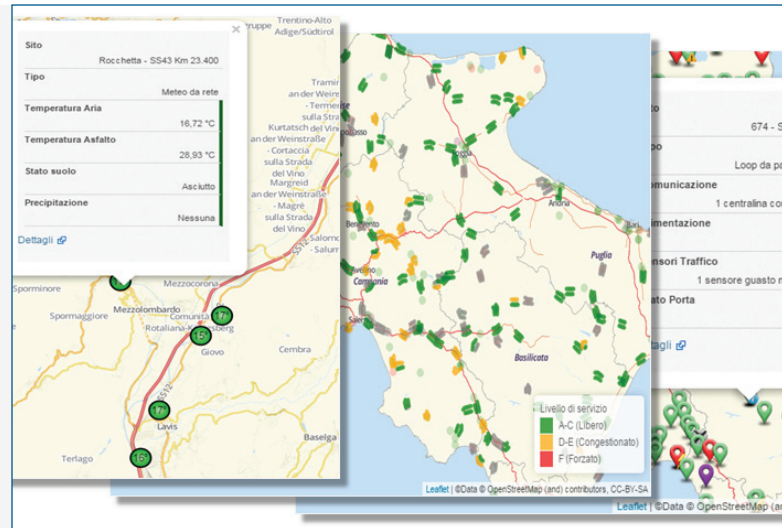
The GUI displays the status of the entire set of field technologies and installation in real time, both in overview and in detail; it also allows the user to correct and restore faults remotely, with a simple click of the mouse.

The software implements the DATEX II protocol for exporting the acquired data to third party systems.



PRINCIPAL CHARACTERISTICS

- WEB based application with mapping interface
- Handles large amounts of data and information of all sorts
- Modular, expandable, scalable structure
- Maintenance management using Trouble-Ticketing
- DATEX II protocol



TECHNICAL SPECIFICATIONS

ARCHITECTURE

- Open
- Modular
- Expandable

SYSTEM REQUIREMENTS

- Internet connection
- Web browser (Microsoft Internet Explorer; Mozilla Firefox; Chrome; etc.)
- Cookies must be activated in the browser
- Adobe Flash Player installed

DATA EXPORT

- All reports can be exported as: Word, Excel, Pdf, CSV.

DATA SHARING PROTOCOL

- DATEX II

USER INTERFACE

- WEB based application
- Mapping interface
- Username and password protected
- Mapped view of system installations
- Dynamic interactive icons manage and control the individual installations

MAIN FUNCTIONS

- Direct supervision and control of field systems
- Traffic monitoring
- Weather and road condition monitoring
- Alarms
- Trouble ticketing system for system maintenance planning
- Hazardous goods monitoring (optional)

STATISTICAL ANALYSES

- Distribution of vehicles and speeds.
- Traffic flows over time.
- K30 flow curve.
- Flow frequency curve.