

DATAPIANO Srl, operating in the market since 1987, develops software systems and provides technical / administrative advice to public bodies, private operators, consultants and companies within the technical field. Founded as a support company for a technical study of architecture and urban planning, Datapiano become an independent company, entering the market by itself. The background of experiences and knowledge gained in previous years in contact with industry professionals has enabled the company to grow: today, its knowledge is the real - strength of DATAPIANO Srl.

A knowledge and market experience that allows Datapiano to fully understand the importance that having complete, essential and targeted on specific needs software solutions assumes for other companies.



SOLUZIONI PUNTUALI

datapiano S.r.l.

Galleria Progresso, 5 | 30027 San Donà di Piave (VE)
Tel 0421.560272 - Fax 0421.333680 | www.datapiano.it - info@datapiano.it



SIGE

EMERGENCY MANAGEMENT INFORMATION SYSTEM

SIGE: System that has been funding EU Project FP7 SLANDAIL:
Security System for Language Analysis of Images (# 607691, 2014-2017).

Prevention & real-time solutions



EMERGENCY MANAGEMENT INFORMATION SYSTEM

When an emergency due to a natural event or caused by humans happened, it should be managed in real time, to let the operators who are in charge of emergency management to perform immediately and effectively all needed operations make the rescue becoming active. **This is the target of SIGE system.**

S.I.G.E has been generated to manage the **emergency of civil protection.**

In real time this system endowed users to perform all the functions needed to manage a control center. It is based on a real Geographic Information System (GIS) which enables users to interact in **real time** with a Web GIS platform containing lots of information layers always available to users, showing not only **risk scenarios** but obtaining, from the intersection of the available data, information about people and structures involved by the event.

The system provides, among its features, special functions for **managing communications** and messages foreseen in the Emergency Plan, even using the CAP protocol*, completing and sending them **automatically** to the operating people in charge and to the expert authorities and population.

The visualization of all information, including those filtered and acquired by the **social media**, is made possible through the interaction with the **WEB system.**

The aim is to manage all communications, checking immediately which are the effects of the actions undertaken.

* CAP (Common Alerting Protocol) it is an XML data format, used worldwide for the exchange of alert messages and adopted as the Italian standard for interoperability by the Department of Fire Brigade

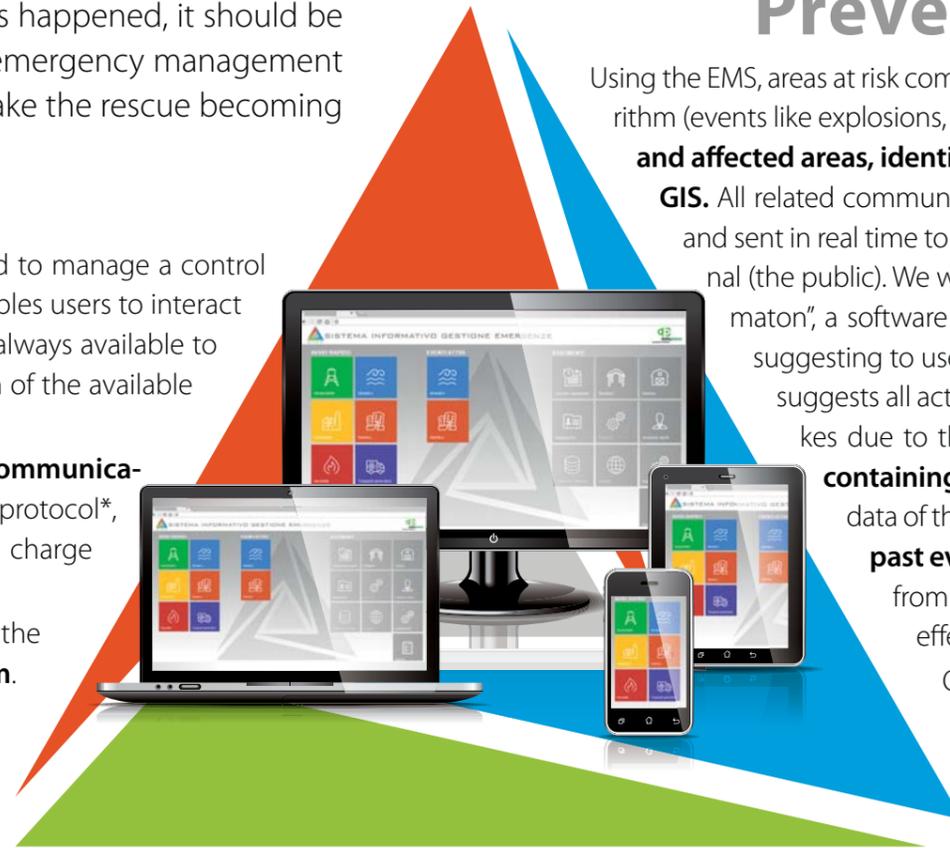
Prevention & real-time solutions

Using the EMS, areas at risk coming from specific disasters can be generated using a simplified mathematic algorithm (events like explosions, emission of toxic substances, earthquakes, accidents in dangerous transport etc.)

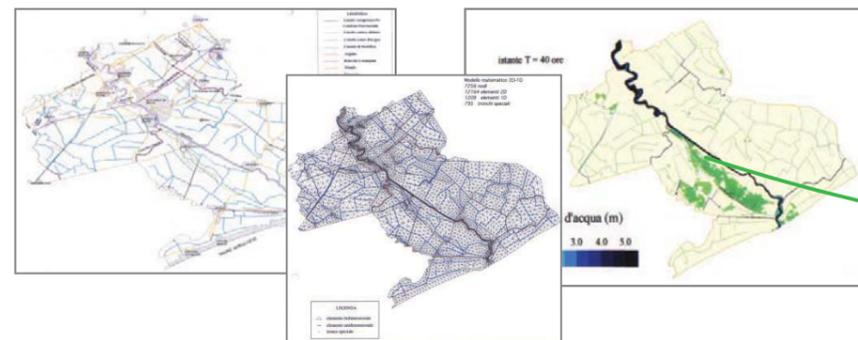
and affected areas, identifying people or objects (asset) under risk can be shown directly in the Web GIS. All related communications in operating room can be immediately generated by the EMS software and sent in real time to addressed people, both internal (those who manage the emergency) and external (the public). We want to point out that system works using a fully reconfigurable "finite state automaton", a software instrument which collects all actions and rules contained in emergency plans, suggesting to users proper actions to perform. This automation, which can be bypassed by users, suggests all actions, according to the rules contained in emergency plans, preventing big mistakes due to the emotions of the operator. The system creates also a **journal of the event**,

containing the details of all the operations, keeping in this way all actions, reactions and data of the staff that created them. This particular function makes possible the recreation of **past events and, if this is the case, to reconfigure the management** of them starting from their own mistakes. This feature can also be used as a "war game" to simulate the effects of different behaviors related to the emergencies.

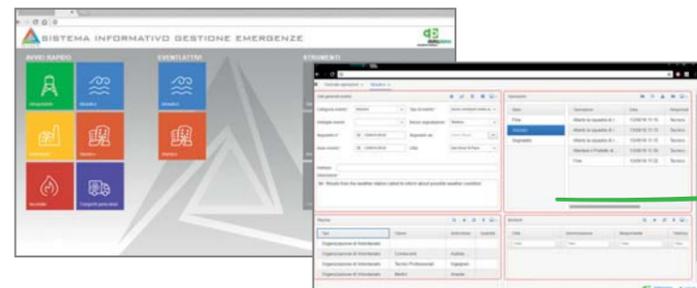
Our R&D department is studying the way for built in the software a real **tactical module.** This new feature will allow users to make simulations of **events and, creating a virtual scenario, evaluate the effects of actions and communication by using web or social media acquired data during real or fiction emergency events.**



SCENARIOS PRECONFIGURED



DATABASE



GIS - WEBGIS



You can view images from any camera connected to the Internet.
You can read remotely the data of sensors connected to the Internet, such as variable water level in time in a section of river.

INFORMATION IN REAL TIME

