

Information Systems for Crisis Response and Management

- Paco Martinez
- paco.martinez@civilio.eu
- Project Management



What is CIVILIO?

Our company is a technology-based organisation specialising in the development of software technologies and information systems for crisis and emergency response and management. We focus on delivering advanced technology solutions to help organisations respond quickly and effectively in emergency situations.

Using cutting-edge technologies such as artificial intelligence, real-time data analytics and online communication platforms, we provide crisis management systems that enable organisations to coordinate and manage emergency responses in real time. Our systems aim to minimise the impact of events and improve overall safety.

Aiming to be an industry leader in crisis and emergency management, we pride ourselves on continually improving our solutions to stay at the forefront of technology. Our dedicated team of highly skilled engineers and developers work with great commitment to ensure that our products are of the highest quality and meet the specific needs of our customers.

If you need an innovative technology solution for crisis and emergency management, don't hesitate to contact us. We are ready to help you respond effectively to any emergency situation.

Specific Capabilities

- **Software developer**

We have developed a digital solution for crisis response and management with different components: a digital crisis suite, a logbook, an emergency response plan, a crisis directory, notification capabilities, communication, a library of crisis scenarios and tasking.

- **Crisis response and management experts**

We staff and collaborate with expert institutions in emergency management and Civil Protection coordination. Our experts participate in training programmes, helping to share knowledge in the field and the use of new technologies in crisis and emergency management.

- **Crisis exercises**

We conduct pilot tests of our software during exercises and simulations organised by institutions, sharing the results and generating knowledge.

References

The CEO and Head of Project Development, Paco Martínez, is a recognised expert in the research and development of software for emergency and disaster management. These are some of the projects in which he has participated:

- 2011 LORCA-SGE 2.0 Ad-hoc software development for the emergency management produced by the Lorca earthquake (Autonomous)
- 2015 ISAR+ Testing of the NOTICO SAFE (DEVERYWARE) platform for sending geolocalised alerts
- 2016 SOTERIA Development of 112 call handling platform and APP for mobile devices (DEVERYWARE)
- 2018 NEXES Participation in the development team of the PEMEA standard and network for accessibility and compatibility of functionalities of the 112 emergency APP (DEVERYWARE)
- 2019 POCRISC IT platform for the planning, implementation and monitoring of post-earthquake building damage assessments (DEVERYWARE)
- 2022 NIGHTINGALE Development of an incident management and communication platform in the PEMEA network (DEVERYWARE)

It also collaborates actively in training and knowledge transfer activities with the following entities:

- Cátedra de Seguridad, Emergencias y Catástrofes de la Universidad de Málaga
- Escuela Nacional de Protección Civil del Gobierno de España
- Escuela Técnica Superior en Topografía, Geodesia y Cartografía de la Universidad Politécnica de Madrid
- Centro de Formación de Grado Superior en Coordinación y Emergencias de Protección Civil CLAUDIO GALENO

CIVILIO's IT platform



Backend API

The back-end is the invisible part that handles logic, data processing, and the connection to the database. It includes an API for communication with other systems and access to the database to manage the stored information.



Web application

A control and command panel that users interact with directly. An intuitive user interface with access to the necessary functionalities for the effective and efficient management of the involved groups.



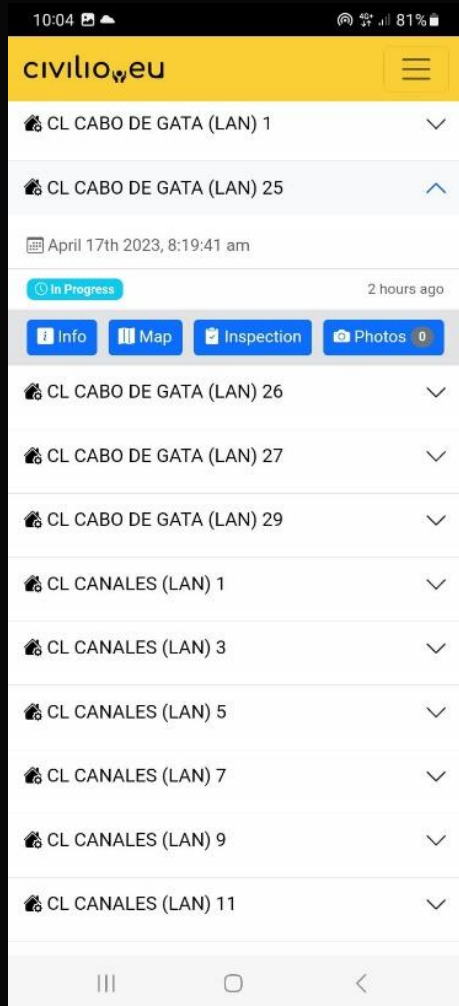
Mobile APP

Specifically designed to be used on smartphones, it allows for coordinated data collection in the field by all involved groups. It is currently available for devices with the Android operating system.

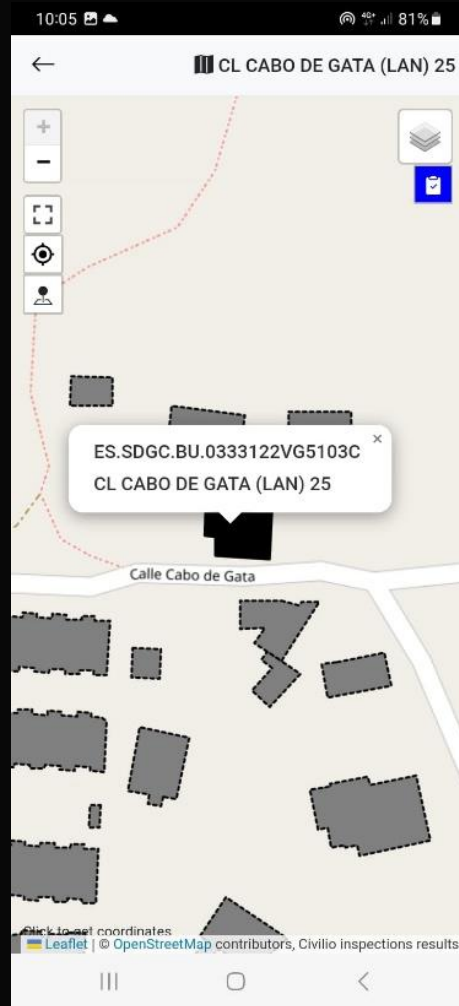


CIVILIO's IT platform: APP

Tasks List



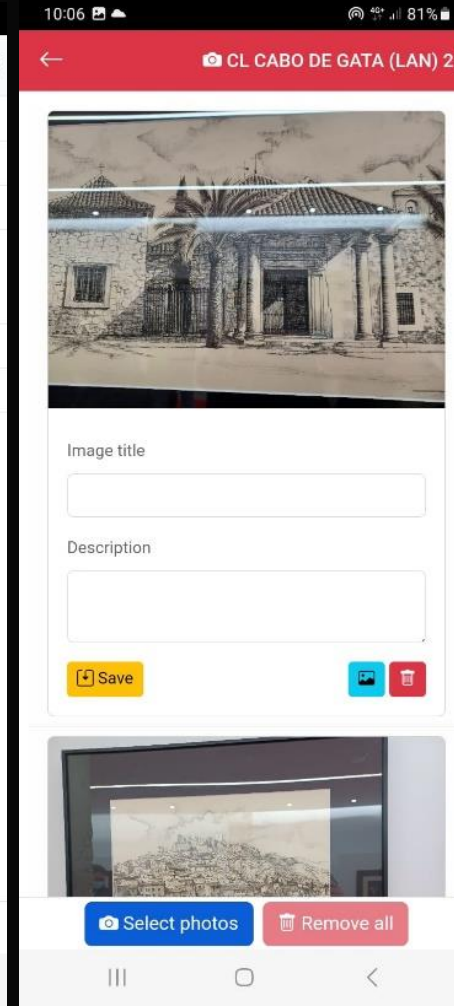
Tasks Map



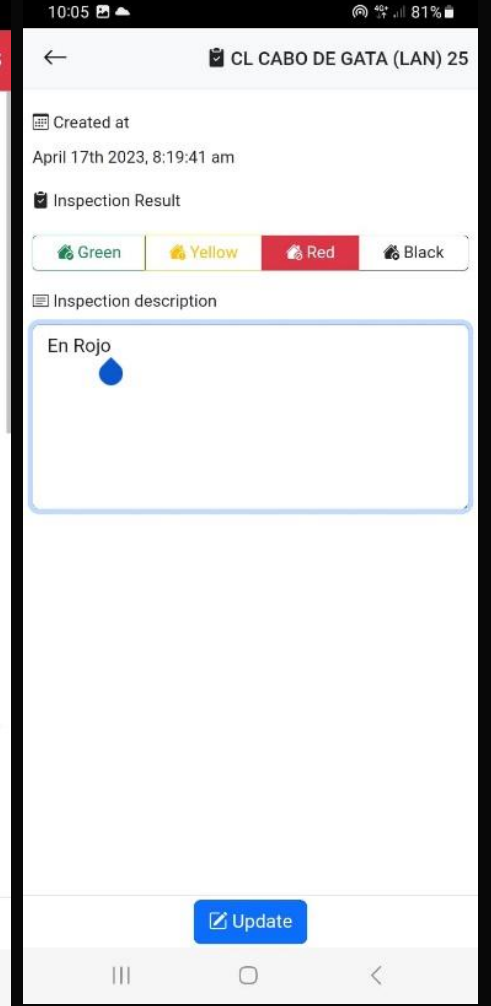
Task Details



Task Pictures

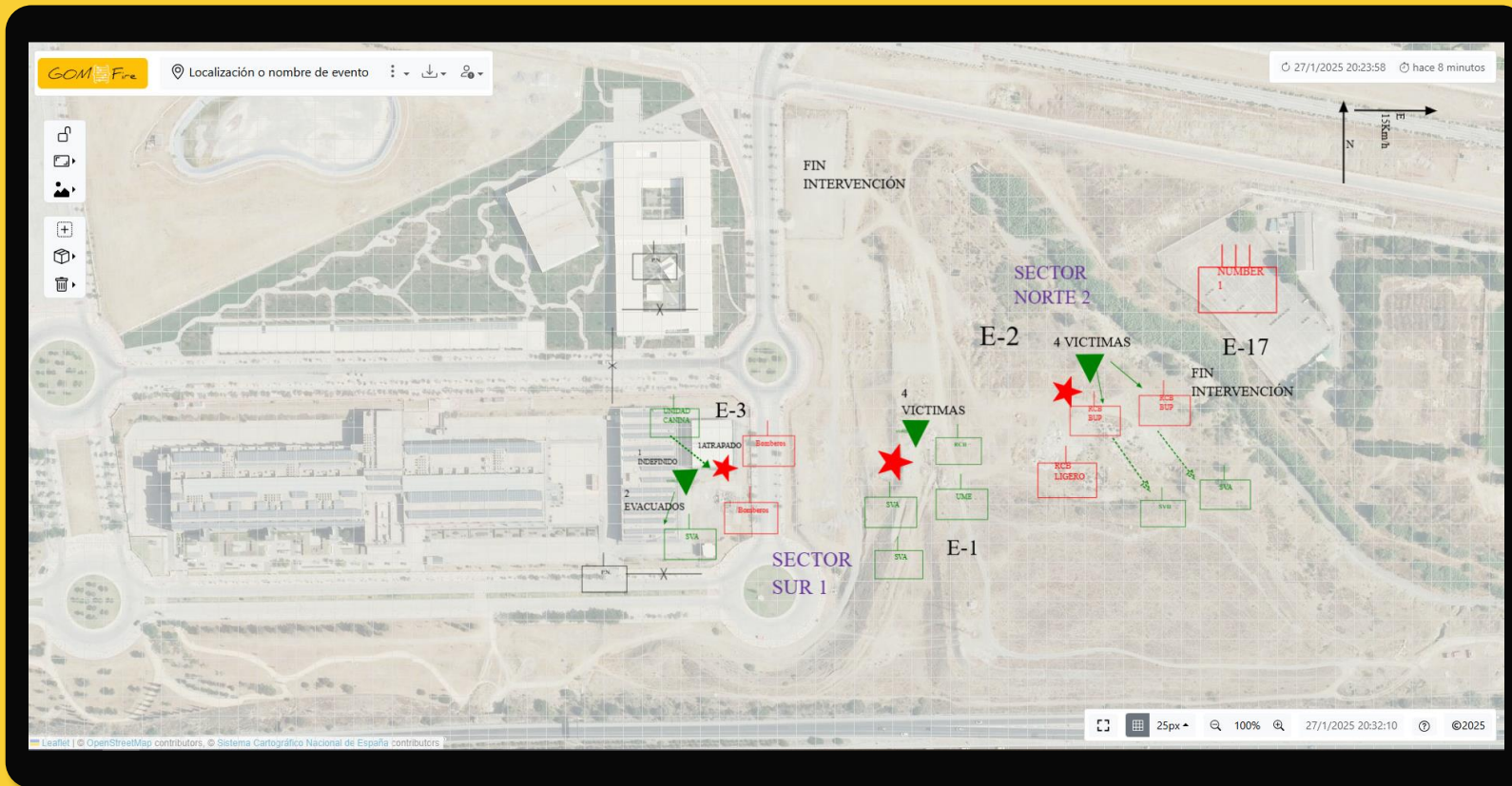


Task Form



CIVILIO's IT platform: Tactical Situation Map

A new project with the collaboration of the Spanish Firefighters Association APTB



Digitization of the methodology for operational management and command “GOM” used by fire service commanders.

- SITAC (Tactical Situation Map)
- OCT (Supplementary Order of Transmissions)
- Order Frameworks:
 - SMES (Situation, Mission, Execution, and Safety)
 - SOIEM (Situation, Objectives, Maneuver Concept, Execution, and Command)
 - SAOIELM (Situation, Anticipation, Objectives, Maneuver Concept, Execution, Logistics, and Command)

Our support during the #FlashFloods 2024 in Valencia, Spain.

Damages assessment



3-5 November, 2024

7 Nov. – 7 Dec., 2024

civilio.eu

Information Systems for Crisis Response and Management



#AI – Artificial Intelligence

Investigating on

- Emergency and Incident Simulator
- Chatbot for Decision-Making Assistance
- Form Programming
- Form Data Analysis
- Form Data Inconsistency Detection
- Report Generator



civilio.eu
Information Systems for Crisis Response and Management

You can find me at:

@pacomartnt

paco.martinez@civilio.eu

+34 649 773 260

¡Thanks!