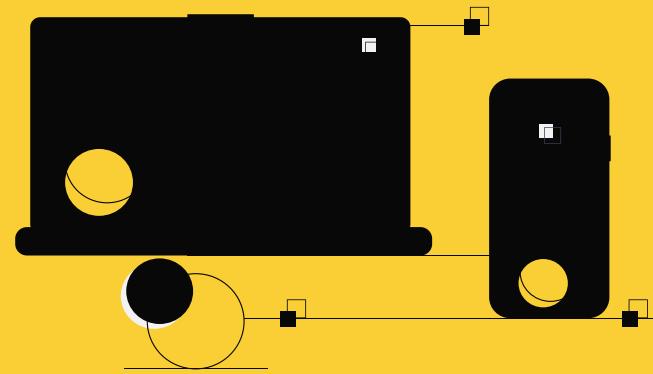


Information Systems for Crisis Response and Management

- **Paco Martinez**
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- Project Management



What is CIVILIO?



Innovative technological platform for risk management and crisis coordination.



Supports decision-making and ensures a swift and organized response of resources.



Comprehensive approach that combines geospatial technology and real-time field data collection to generate a digital twin of the disaster.



Disaster



Web Application



Coordination



Data set

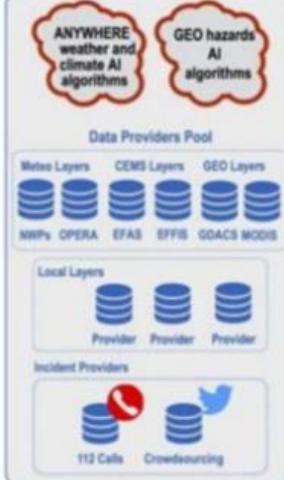


Mobile APP

Innovación

Warning review (post-event) VOICE(*)

Multi-Risk Impact-based EWS Processing Core (T3.1)



EW4EU Platform (T3.2)



Impact forecasting Products

EW4MED Platform (T3.3)



- Response capacity
- Expanded coverage area review
- Vulnerability Index review

Back-end API

Reports

GIS

civilio.eu

1. Forecasts and data
NWP models, sensors, communications networks

2. Hazard evaluation
Flash floods, severe periods, phenomena

3. Exposure
Number of assets and people affected

4. Vulnerability
Damage and losses estimation

5. Risk-based warnings
Site-specific warning at vulnerable location

Front-end **civilio.eu**

Coordinators & Decision Makers



1st and 2nd Responders



Losses & Damage

Civil Defenses Action

(*) VALUE OF INFORMATION CHARACTERIZATION AND EVALUATION (Lazo & Mills (2021))

Pioneering approach

Interoperability

Cutting-edge technology

Our company

Our company is a technology-based organization specializing in the development of software technologies and information systems for crisis and emergency response and management. We focus on delivering advanced technological solutions that help organizations respond quickly and effectively in emergency situations.

Leveraging cutting-edge technologies such as artificial intelligence, real-time data analytics, and online communication platforms, we provide crisis management systems that enable organizations to coordinate and manage emergency responses in real time. Our systems are designed to minimize the impact of critical events and enhance overall safety.

With the ambition to become a leading player in the field of crisis and emergency management, we take pride in continuously improving our solutions to remain at the forefront of innovation. Our dedicated team of highly skilled engineers and developers works with unwavering commitment to ensure our products meet the highest standards and address the specific needs of our clients.

If you are looking for an innovative technological solution for crisis and emergency management, don't hesitate to contact us. We are ready to support you in responding effectively to any emergency scenario.

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 programs, 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



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iThanks!