

Alliance for Internet of Things Innovation

> 27 <sub>Sep</sub>

Brussels

2022

## SIGNATURE EVENT

IoT and Edge computing : Societal Impact and Opportunities for the Green Digital Twin Transition

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AIOTI Signature Event • 27 September 2022

### **IoT and Crisis Preparedness**

Ricardo Vitorino Co-Chairman of AIOTI WG Urban Society (Ubiwhere)

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## Damage and loss data collected after an event are initially required to respond to the most direct impacts and to plan its recovery.

# **Current challenges**

- The collection and sharing of data are not a priority
- Groups and institutions still do not act in coordination on this
- Data are not available in a timely manner or not accurate and consistent among sources



### Science for Disaster Risk Management (DRM)

#### **Policymakers**

- Facilitate and promote collaborative processes to collect input from the different stakeholders
- Develop a policy framework to collect, store and reuse data and information, including good practices and lessons learned during response and recovery processes
- Ensure proper monitoring and evaluation of the corrective measures planned and implemented

### Science for Disaster Risk Management (DRM)

#### **Practitioners**

- Provide feedback to ensure that tacit knowledge is endorsed by policymakers
- Be creative and perseverant in your tasks, embracing innovation
- Help the scientific community with data and feedback

### Science for Disaster Risk Management (DRM)

#### <u>Scientists</u>

- Continue research efforts on disaster risk dimensions and management
- Acquire additional knowledge by interacting with other communities
- Make sure the knowledge is useful and used

#### <u>Citizens</u>

- Raise your voice for a more resilient future
- Be active to reduce disaster risk at local level
- Engage with other stakeholders in DRM activities

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Physical infrastructures, social and personal networks, together with the assistance received, can significantly accelerate post-disaster recovery.

# **Emergency cycle**

- Resilient, secure and scalable disaster networks
- Processing and harmonising data for enhanced real-time decision making
- Flow of information between stakeholders on top of enhanced networks and real-time driven services
- Key information for decision-making made available in a usable manner.



# Smooth emergency management

- Data Management (from edge to cloud)
- Network and resources orchestration
- Analytics and visualisation for situational awareness
- Edge intelligence for real-time analytics and alerts

# EMPÖRYS



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## Long-term partnerships create trust, key for stakeholders to communicate in open, transparent and timely dialogues for addressing the many disaster risks affecting society.

### Meet our panel

- Monica Florea (SIMAVI)
- Mario Drobics (AIT)
- Lazaros Karagiannidis (ICCS)

- Which are key IoT solutions to increase risk awareness and reduce vulnerabilities?
- What are the main requirements for efficient design of preparedness actions and empowerment of citizens?
- What do you see as next steps to solve the difficulties in communicating with the public in preparedness (and response) phases?



# Thank you for listening

Any questions? You can find us at <u>@AIOTI\_EU</u> or email <u>sg@aioti.eu</u>

