

# C2-SENSE:

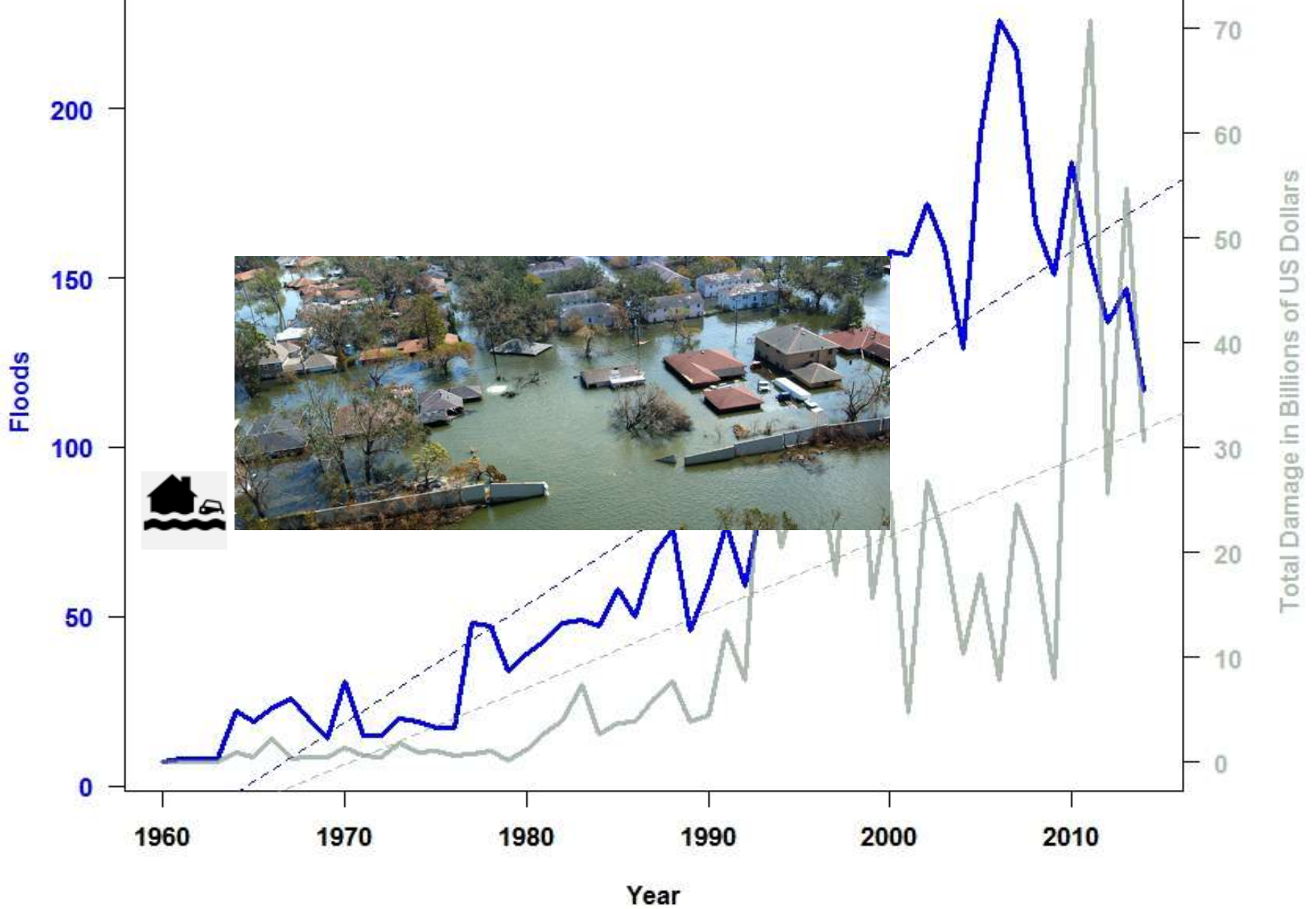
## The Emergency Interoperability Framework and Knowledge Management

C2-SENSE Consortium

Refiz Duro,  
Geospatial World Forum, Portugal  
26 May 2015

# Statement #1 : Disasters are a reality







# Statement #2 : Interoperability is a must

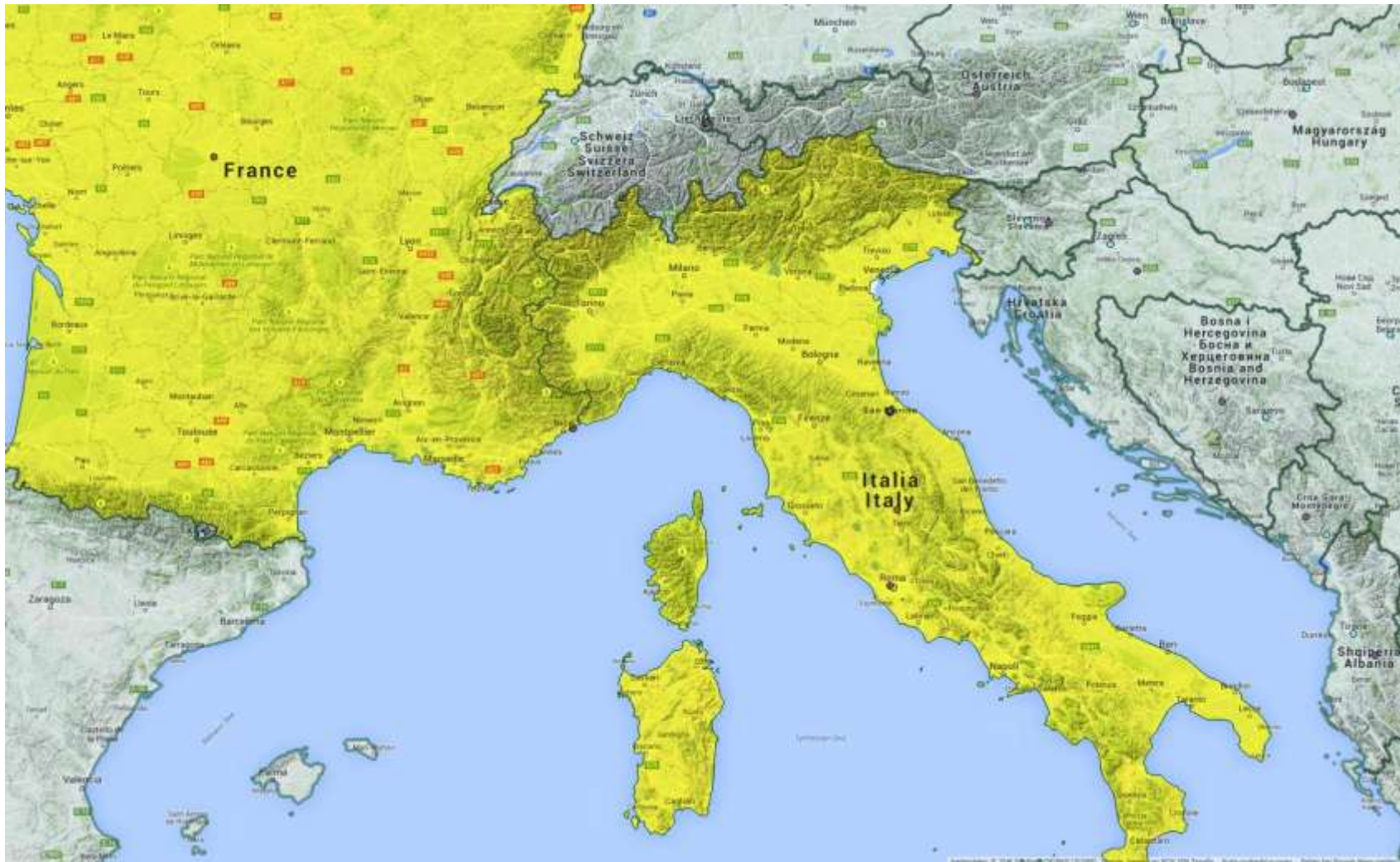


# Statement #2 : Interoperability is a must

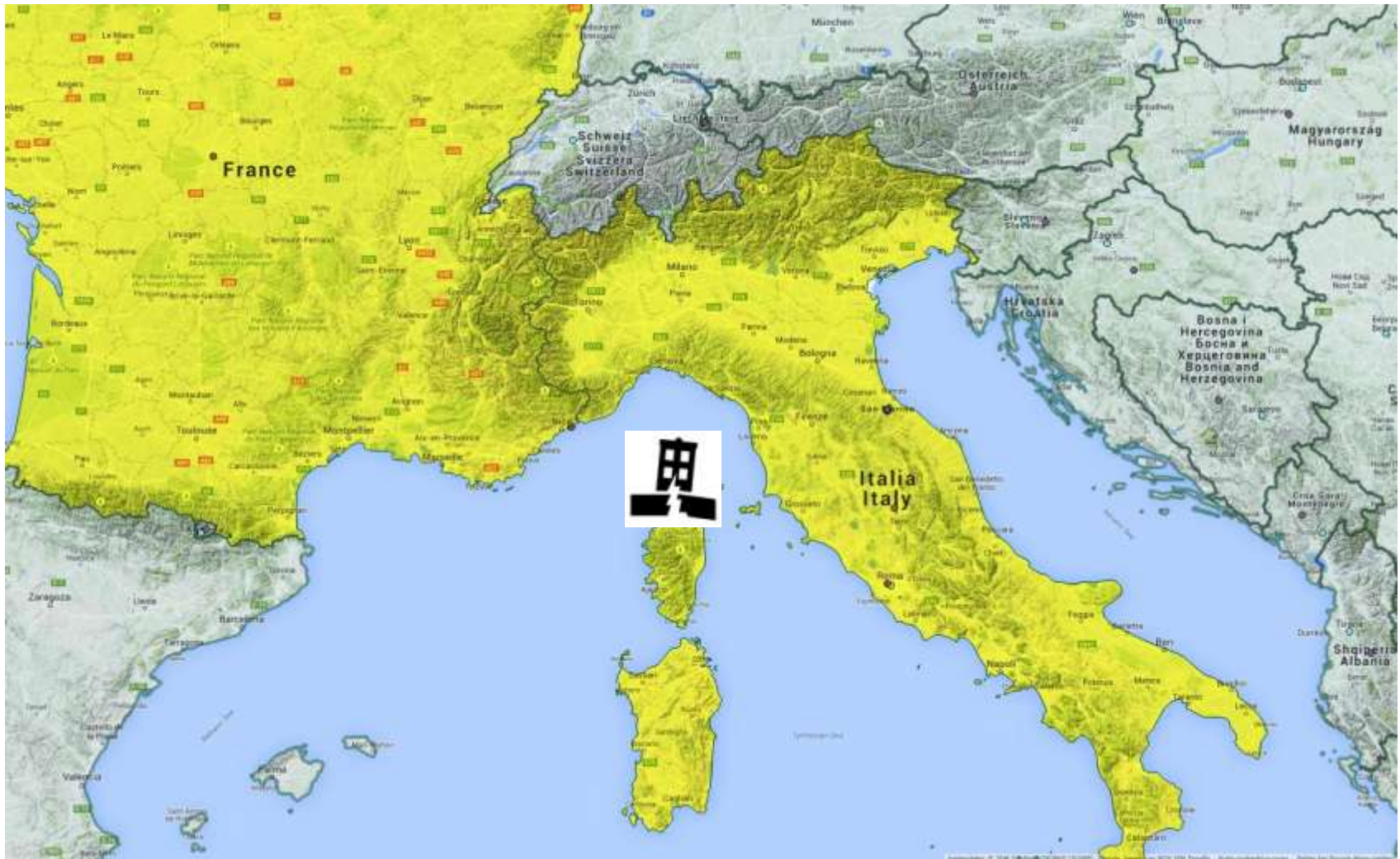




# Crisis Situation Example

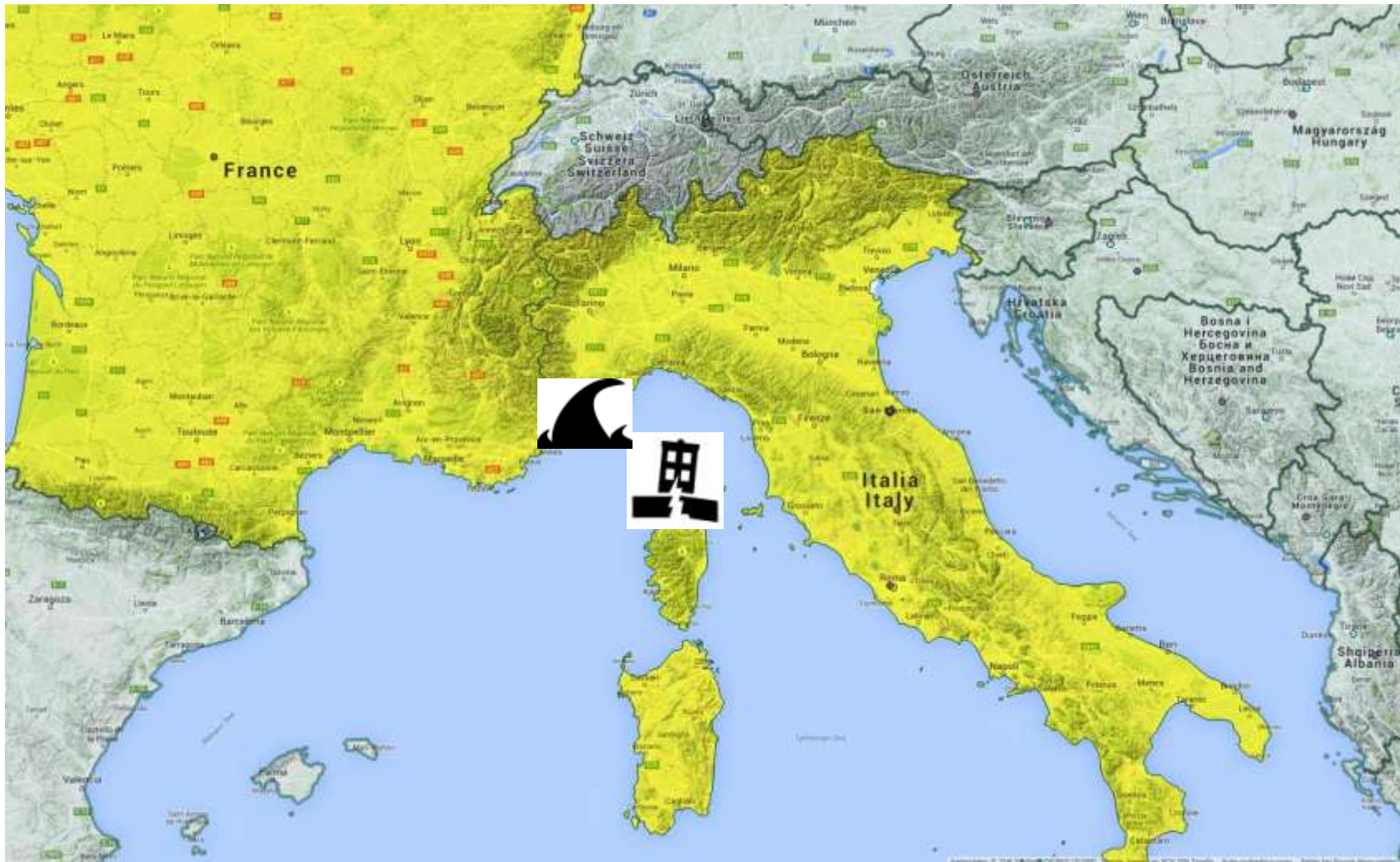


# Crisis Situation Example



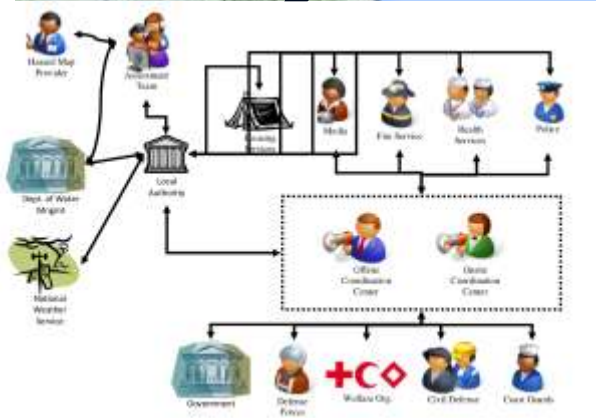
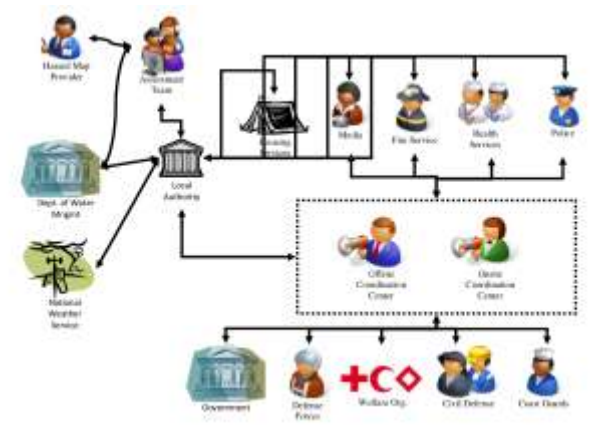
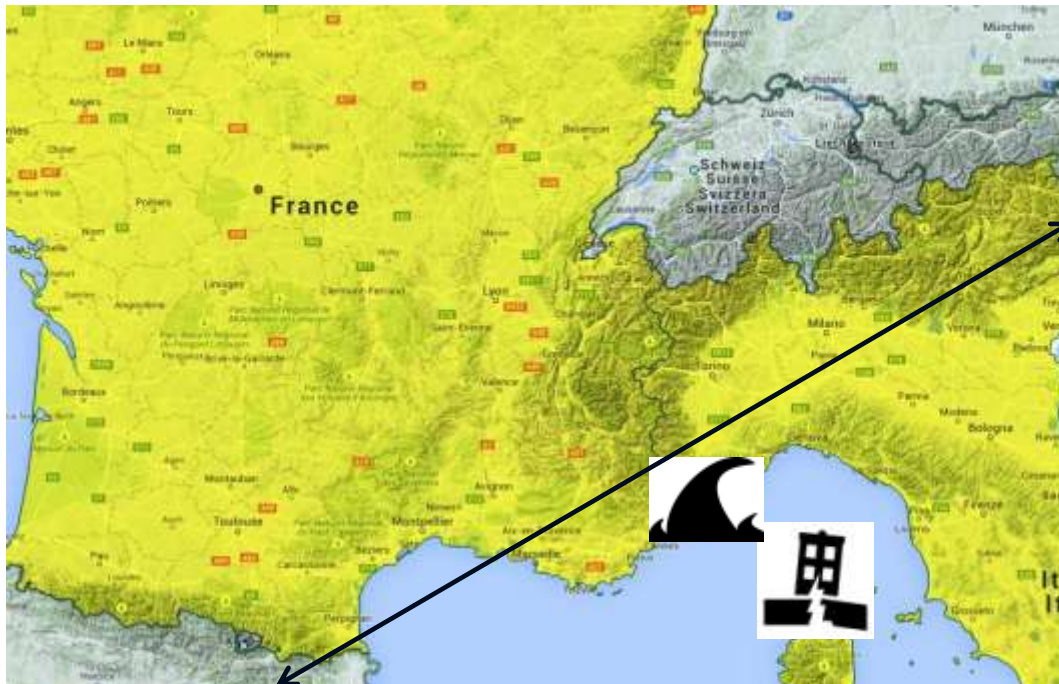


# Crisis Situation Example

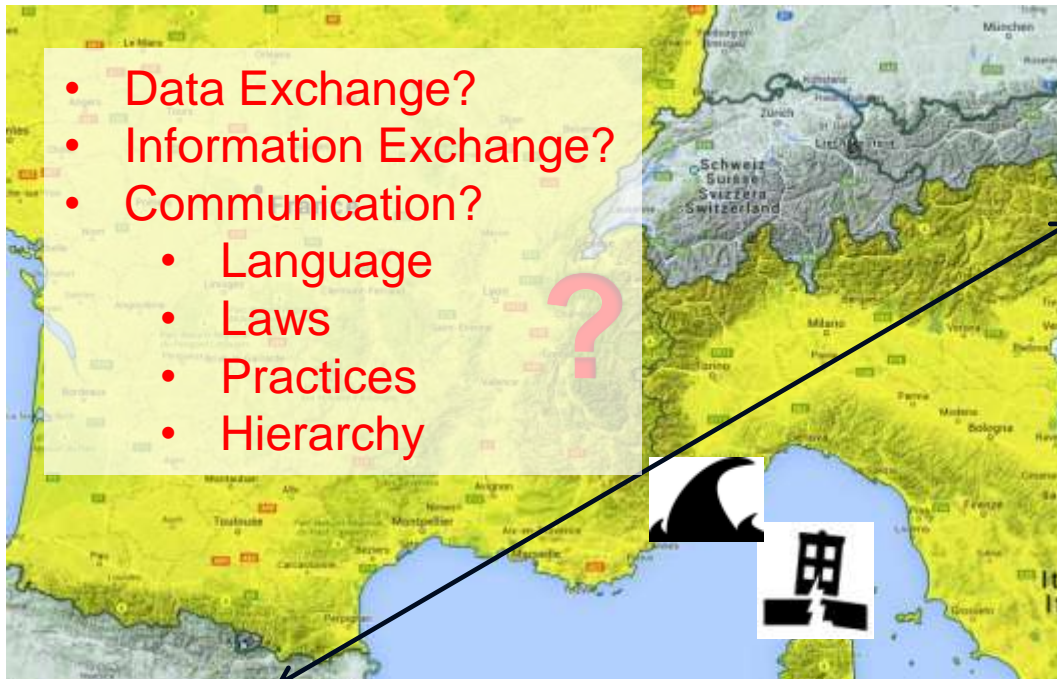




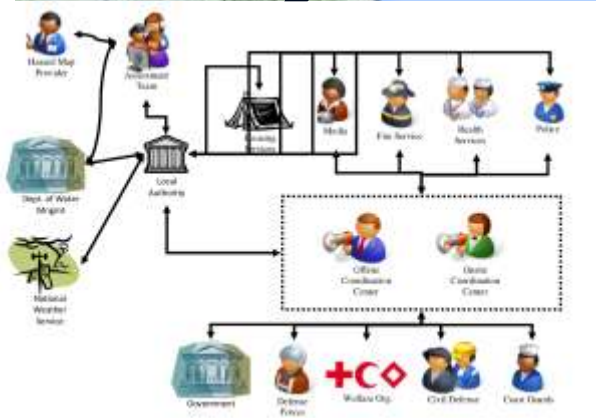
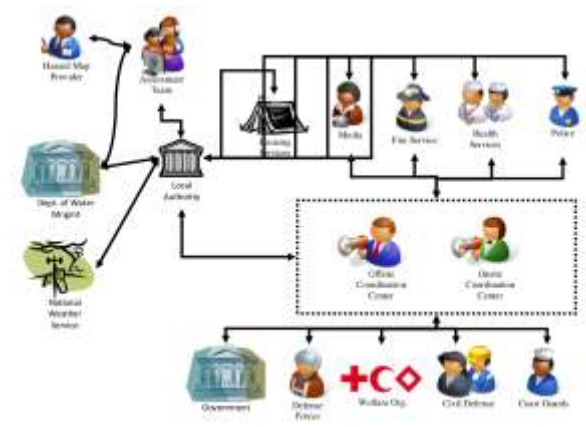
# Crisis Situation Example



# Crisis Situation Example



- Data Exchange?
- Information Exchange?
- Communication?
  - Language
  - Laws
  - Practices
  - Hierarchy



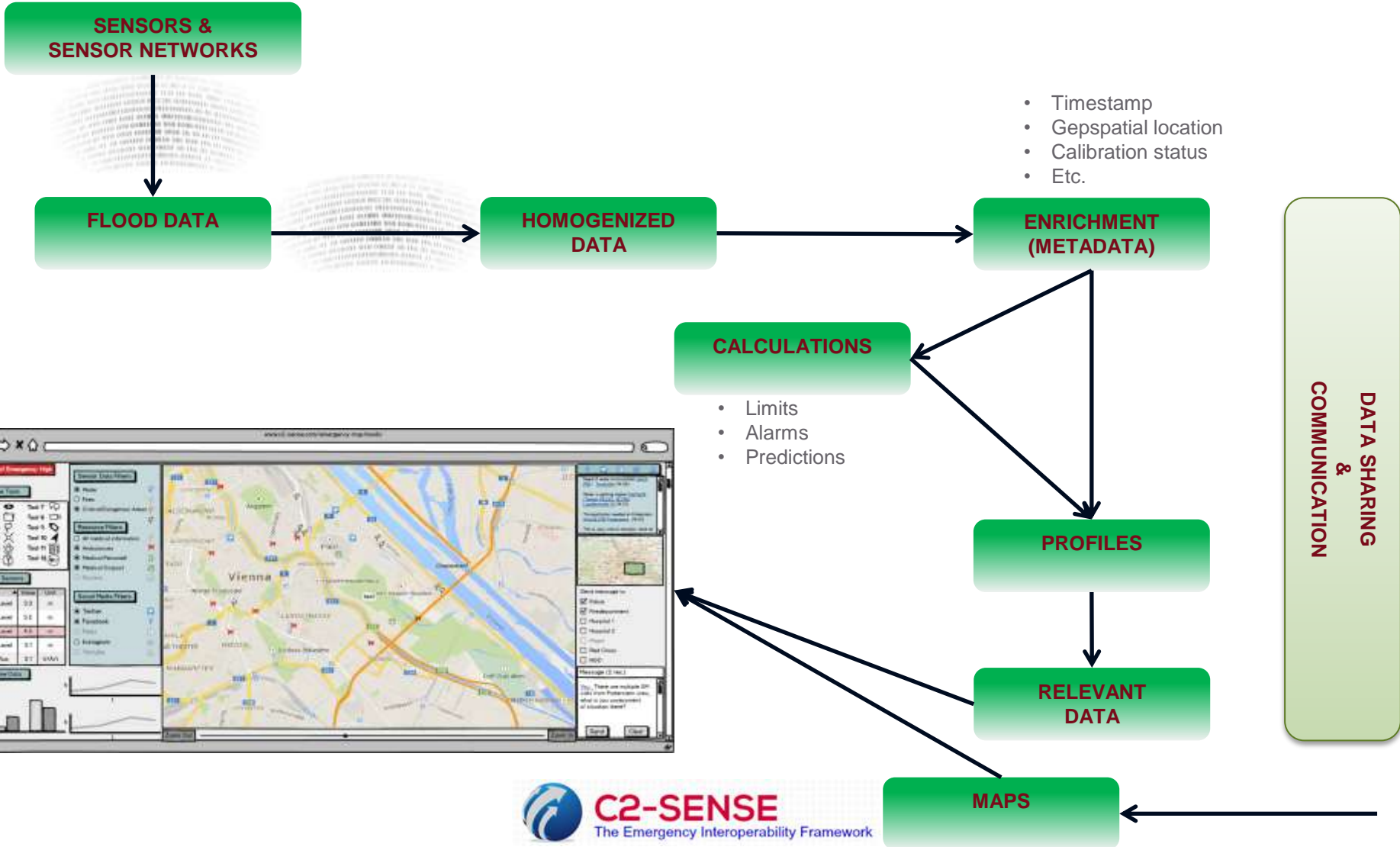


# Emergency and Response with C2-SENSE

- Interoperability among actors and systems  
(removes obstacles due to different languages, C2 systems, doctrines and procedures)
- Sensor and sensor data collection and analysis
- Decision making



# The way of Data





# Profiles

- Solve variations in responsibilities that are present among organizations and authorities
  - Remove cultural and linguistic variations
  - Provide access to relevant (sensor) data
    - Identify relevant management actions
- Allow for communication among appropriate partners
  - Service Level Agreements



Who is allowed to communicate with whom?  
Who can send and who receive messages?



**COMMUNICATION**



Who shares data with whom?



**DATA SHARING**

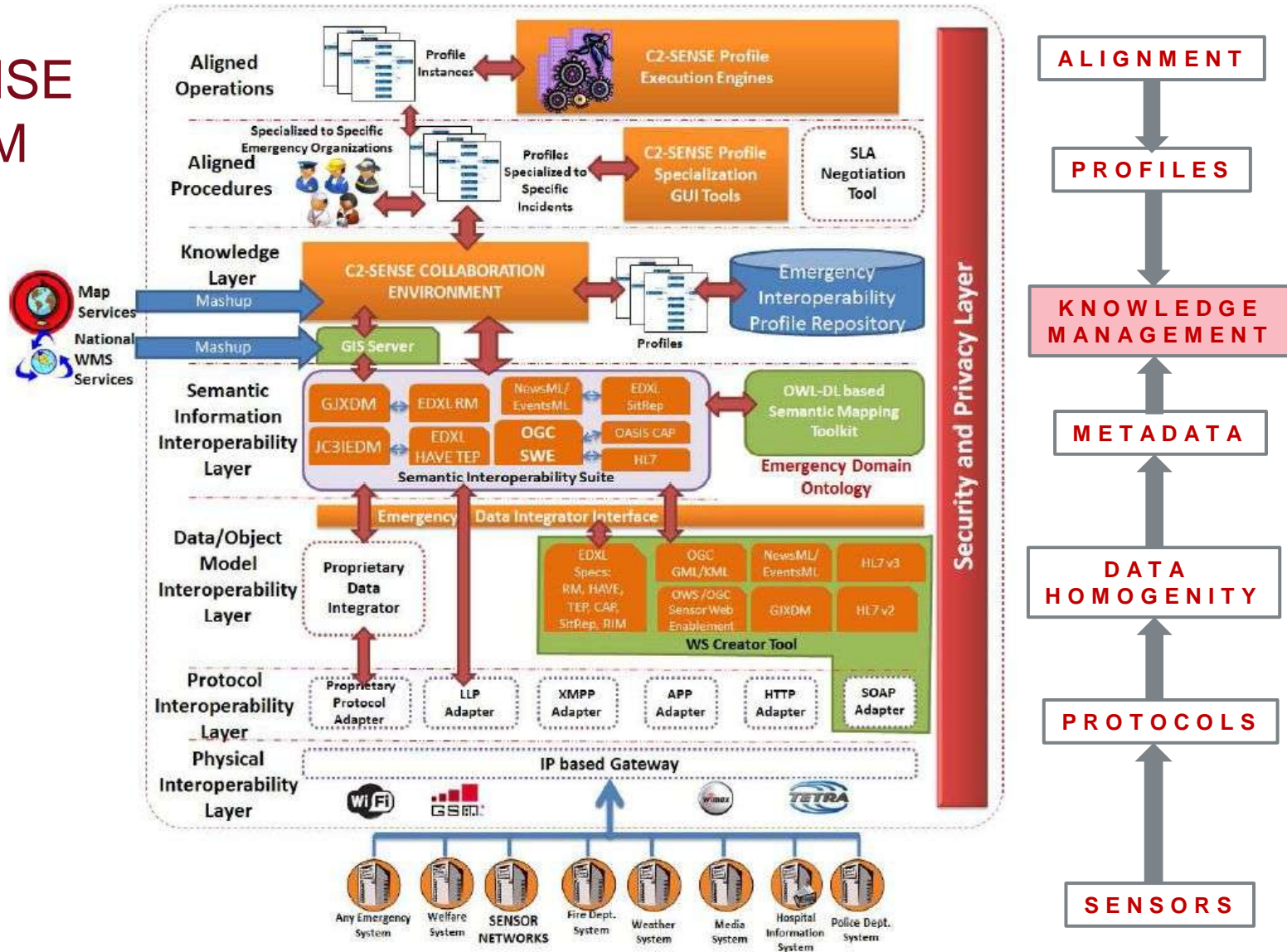


New organization needs access



**INCLUDE AD-HOC ORGANIZATIONS**

# C2-SENSE SYSTEM





## Outcomes

- Smoother communication and data sharing (among parties)
- Possibility for more correct decision making
- Adaptable framework to the needs of platforms and future technologies
- Flexible system that can be tailored for an organization while keeping in mind different languages, laws and practices.

Multifunctional and interoperable  
tool for emergency and disaster management

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