Citizen Science

• *Citizen Science* involves collaborative exchange with the scientific community, in which members of the public actively join the co-creation of new scientific knowledge.

• In Europe currently organized around Citizen Observatories.
Disaster Management Space and Technology

Examples (outer ring) of technologies and tools in the disaster management space.

Pre and post Crisis Mapping

- Haiti earthquake, Hurricane Sandy, Nepal earthquake
Hurricane Matthew: Post-disaster damage mapping

• Disaster as seen from space
  • Satellite images: high resolution imagery before and after event

Post-disaster assessment:
  • Crowdsourcing - with each volunteer spending even just a few minutes on it makes a significant contribution
Hurricane Matthew: Post-disaster damage mapping

- **225492 tasks**
- **182 volunteers**
- **120 hours of volunteers’ time**

- Most volunteers showed high agreement rate with experts (>85%)
- Average time per validation – 2 sec
FotoQuestGO

Mobile application for in-situ data collection to promote community-based Land Use awareness and monitoring.

http://fotoquest-go.org/

Campaign to be launched June 8\textsuperscript{th} across Europe!
Key Challenges

KEY CHALLENGES TO MAINSTREAMING CITIZEN SCIENCE

AWARENESS
Generating awareness to build and sustain a critical mass to support citizen science initiatives

ACCEPTABILITY
Showcasing the added value of citizen-driven science to decision and policy makers

SUSTAINABILITY
Creating an ecosystem that can support and scale-up citizen science to various sectors
THANK YOU!

Any Questions?

https://www.weobserve.eu/

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