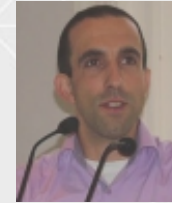
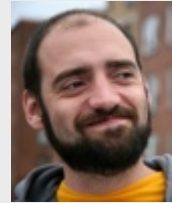
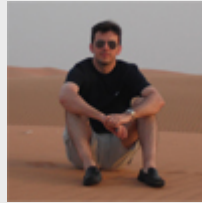


Crowdsourced Geographic Information in Government

Muki Haklay @mhaklay

Vyron Antoniou, Sofia Basiouka, Robert Soden
(GFDRR), Peter Mooney (NUIM)

Research team



- Prof. **Mordechai (Muki) Haklay**, Department of Civil, Environmental and Geomatic Engineering, UCL
- Dr. **Vyron Antoniou**, Hellenic Army Geographic Directorate
- **Sofia Basiouka**, School of Rural and Surveying Engineering, National Technical University of Athens
- **Robert Soden**, World Bank, Global Facility for Disaster Reduction & Recovery (GFDRR)
- Dr. **Peter Mooney**, Department of Computer Science, National University of Ireland, Maynooth

Outline



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- The growth of crowdsourcing and citizen science
- Background to the study
- Study methodology
- Main findings
- Where next?

Location sensing mobile devices

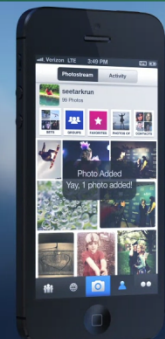
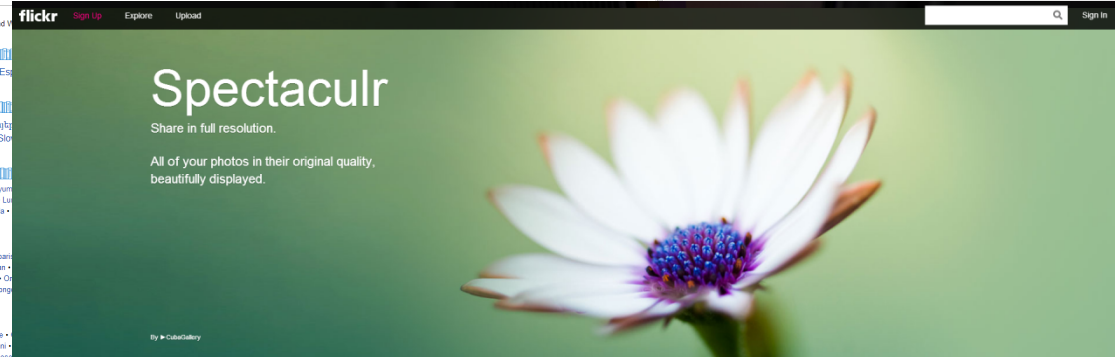
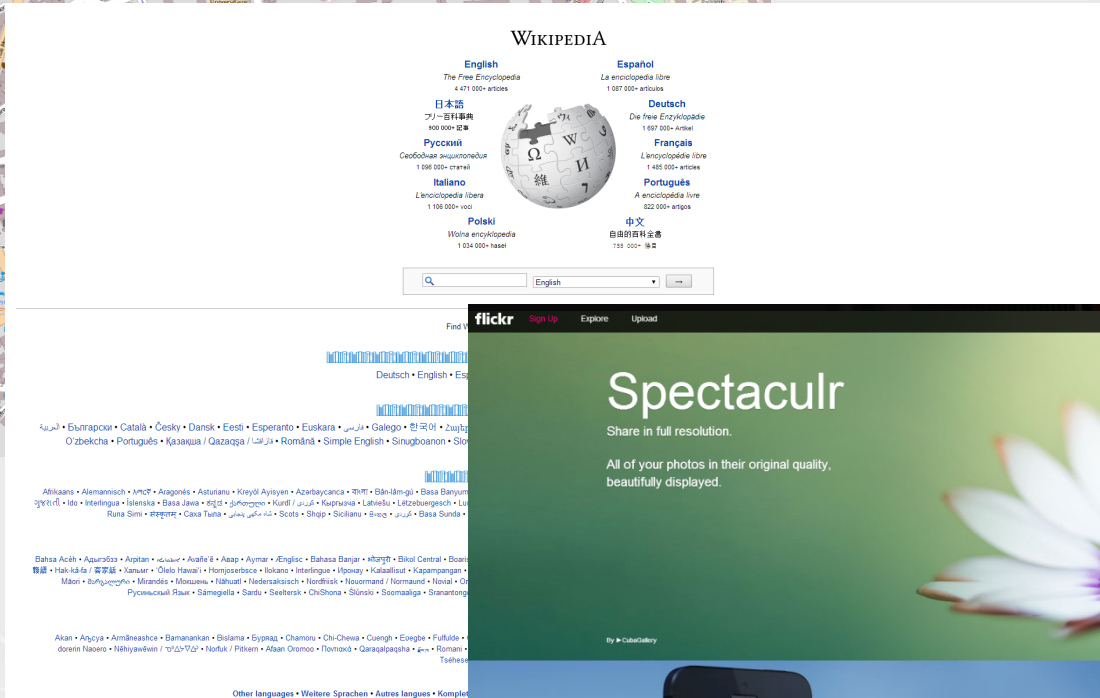
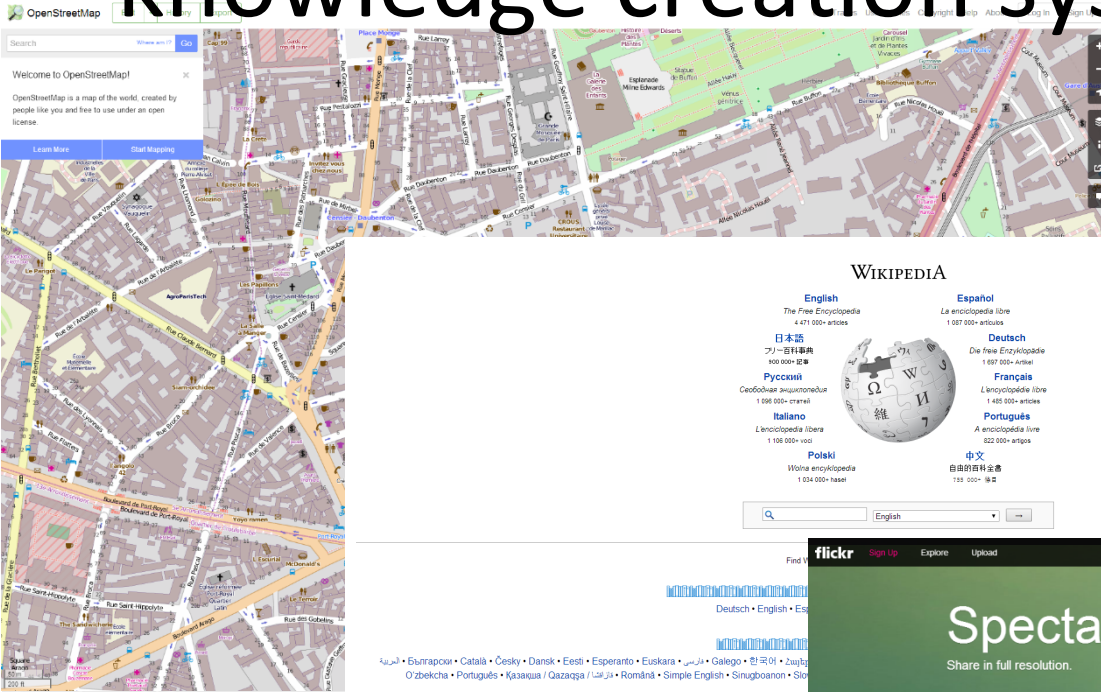


©kristian stokholm (sxc.hu)

Collaborative, socially-based knowledge creation systems



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Wherevr

Upload once, send to any device, any screen, any friend, and any follower.



Volunteered GI

- Harnessing of Web and mobile tools to create, assemble, and disseminate geographic data provided voluntarily by individuals
- AKA Crowdsourced GI

FixMyStreet.com



At **FixMyStreet.com** you can report problems like fly tipping, broken paving slabs and graffiti with a single click. **PLUS** find out what problems other local people have reported, and take part in a discussion about what's happening to fix them

© MySociety

Report, view, or discuss local problems



Mapping in Kathmandu

© Kathmandu Living Labs

Citizen science

- Scientific activities in which non-professional scientists volunteer to participate in data collection, analysis and dissemination of a scientific project.

Participating in Christmas Bird Count



Jennifer Jewett / USFWS

Volunteer rainfall observer Rick Grocke checks the rain gauge at Tanami Downs cattle station in the Northern Territory of Australia



© WMO-No. 919

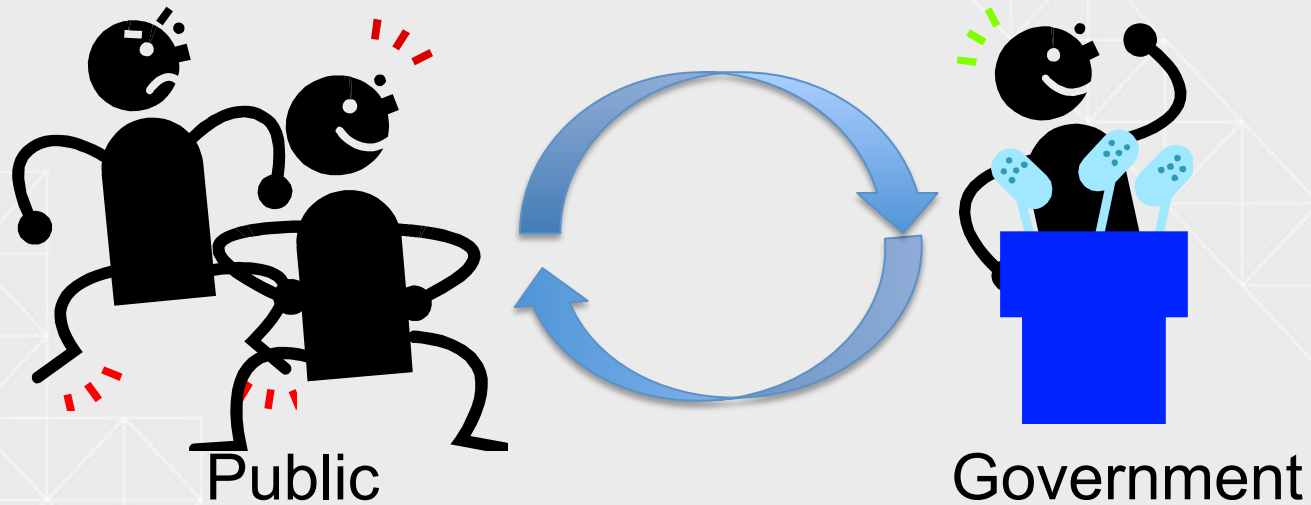
Project background



- Crowdsourcing GI maturing (OpenStreetMap 2004, TomTom Map Share 2007, Google Map Maker 2008, Waze 2008)
- Quality demonstrated to be ‘good enough’ and ‘fit for purpose’
- GFDRR (and other funders) sponsor VGI

**How to ensure that projects are successful?
What are the barriers? Opportunities?**

Scope



- **public→government**
- **government→public→government**
- **public→government→public**

Methodology

- Workshop at SOTM '13
- 7 seed-cases, website, survey
- Further 4 cases through experts
- Jan – May 2014: Continued effort to identify cases, response to submissions
- May 2014 – Skype workshop and write up
- Total 29 cases, over 35 identified

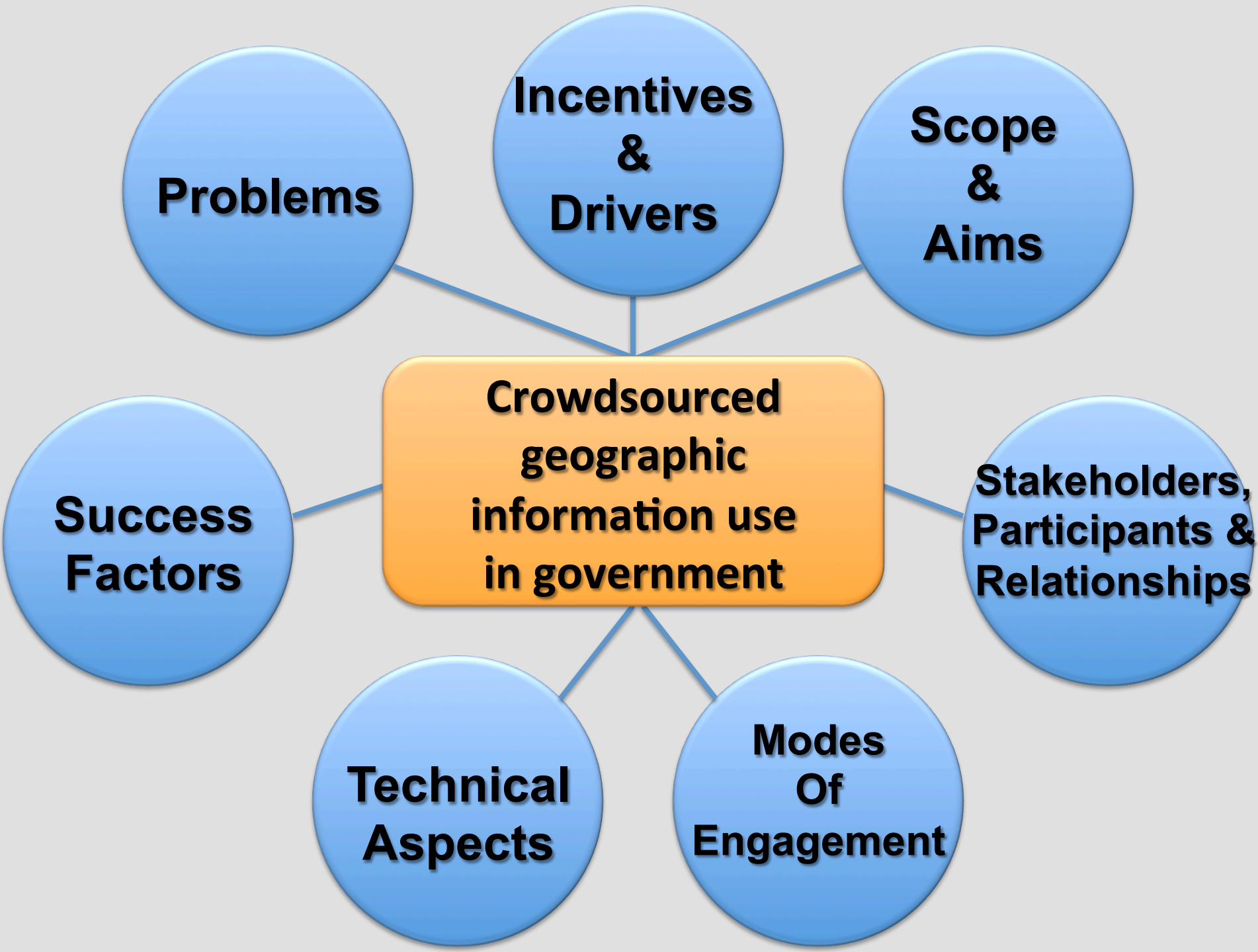


FixMyStreet

Interaction type	Public → Government
Trigger Event	-
Domain	Local authority/municipality maintenance
Organisation	MySociety (originally developed with central government funding)
Data sets in use	Originally, the website used government datasets: postcodes, basemap, local authorities boundaries, contact details and email addresses of relevant personnel in local authorities.
Process	An indication of a problem on a website, through the use of a postcode where the problem occur, create an email that alerts the local authority to the problem. The authority can respond to the complaint on the website.

Table of Content

- Introduction
- The Research Team
- US National Park Service – Places Project
- Case Studies
 - Boston StreetBump
 - Natural Resources Canada-OpenStreetMap Synergy
 - FixMyStreet
 - Use of Corine Land Cover in OpenStreetMap in France
 - Haiti Disaster Response
 - Community Mapping for Exposure in Indonesia
 - New York City Open Data Initiative
 - State Department HIU – Imagery to the Crowd
 - Vernacular Place Names by OS and UK Coastguard
 - California Roadkill Observation System (CROS)
 - USGS 'Did you feel it?'



Scope & Aims



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Basic mapping coverage

Update authoritative spatial data sets

Upgrade public sector services

Policy development or reporting

Natural disaster preparedness (proactive) and crisis management (reactive)

USGS science for a changing world

Earthquake Hazards Program

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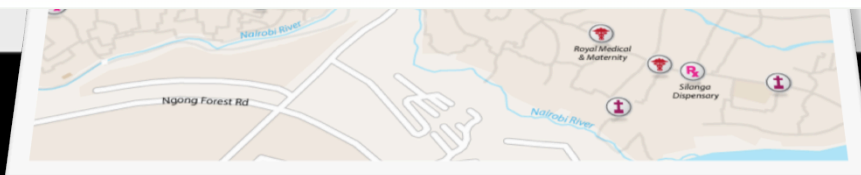
FILTERS → REPORTS NEWS PICTURES VIDEO TODO VIEWS → CLUSTERS

Terms of Use

Scale = 1 : 217K -72.20112, 18.42294 EPSG:900913 © OpenStreetMap contributors, CC-BY-SA

4.5 [RAT ISLANDS, ALEUTIAN ISLANDS, ALASKA](#) 2014-06-27 14:24:48 UTC 2014-06-27 05:24:48 LOCAL USC000RMTE 0

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Incentives & Drivers

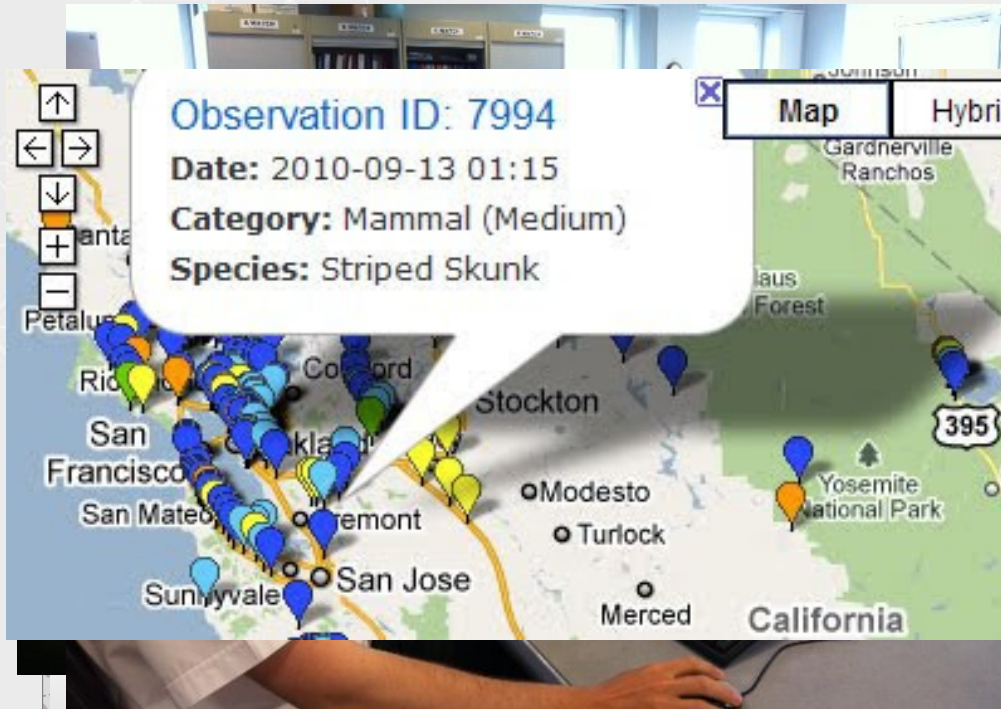

Lack of institutional data in time sensitive situations

Policy change around governmental data

Low resources and need for infrastructure support

Research and development efforts

Environmental monitoring through citizen science



Success Factors

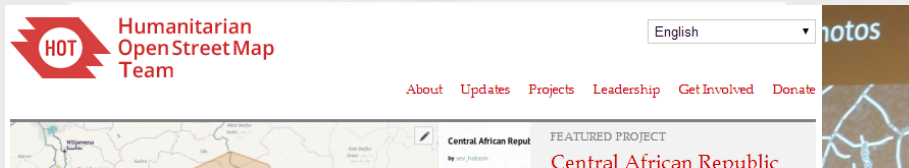
Identification of appropriate cooperation between the public and government

Partnership of scientific organizations

Workshops

Recruitment of volunteers

Innovative techniques



OpenStreetMap Training of Trainers in the Philippines

Posted by emir on Jun, 18 2014

OpenStreetMap (OSM) trainers or facilitators are one of the essential things to help make OSM communities and programs sustainable. People or communities would like to find a trainer around their area that is capable of teaching OSM for their needs. Basically, everyone can teach OSM, but it will be better if the trainer has mastered all the basics, including additional knowledge about OSM. Non-technical skills like adult learning and communication are also necessary since most of the OSM training participants are adults, and the way adults learn is quite different compared to children.

[Read more...](#)



Guinea Ebola epidemic



Central African Republic Activation



EUROSHA

Problems



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One-off event versus on-going initiative

Accuracy and reliability

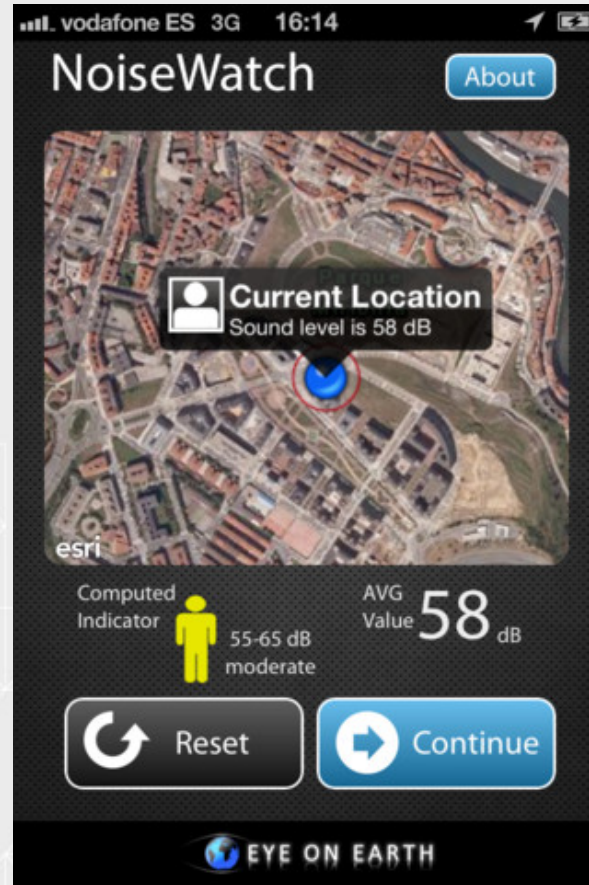
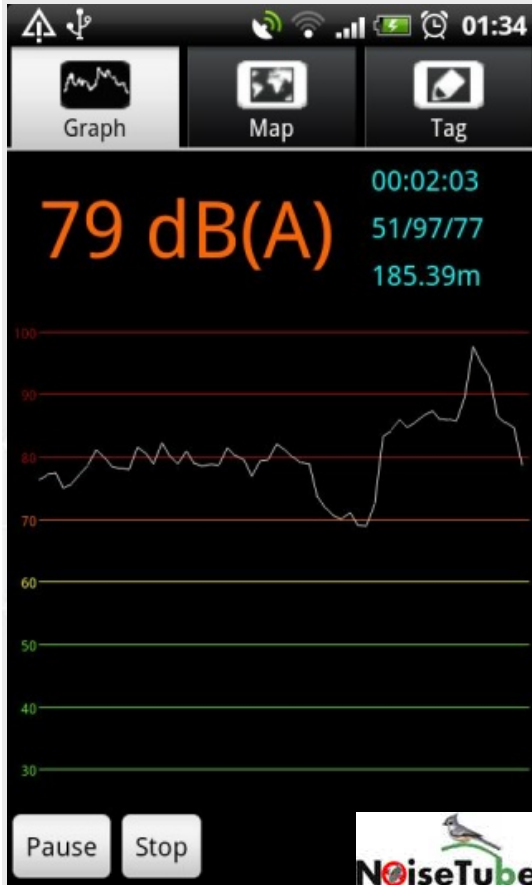
Maintaining public interest



Where next?



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  **DFID**

OBSERVATION INDEPENDANTE
DE L'APPLICATION DE LA LOI
FORESTIERE ET DE LA
GOUVERNANCE EN APPUI AUX
APV FLEGT DANS LE BASSIN
DU CONGO

OI-FLEG

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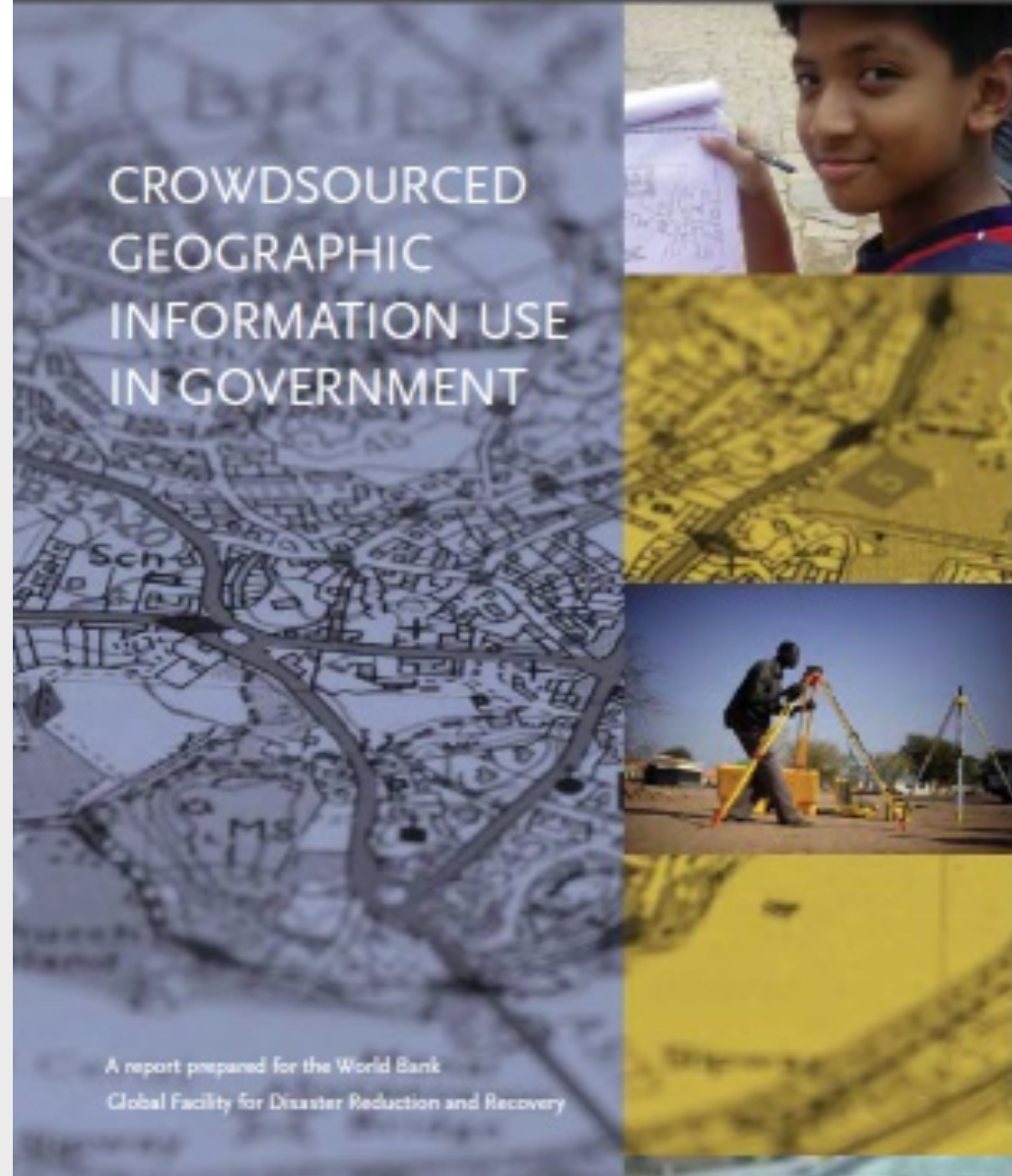
Jerome Lewis, ExCiteS



Summary

Factors that can be identified include:

- Individual level influence
- Organizational level influence
- Business models
- Technical problems
- Conceptual issues



- **Get the report:**
 - <http://crowdgoV.wordpress.com/report>