Participation is not a panacea

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Just a few hours after the 7.0 magnitude earthquake hit Haiti in January 2010 the OpenStreetMap Community began tracing... What did they begin tracing? Roads in the beginning all from imagery that was previously available from Yahoo. This initial tracing enhanced the base data that was already present. The initial data was from responses to 2008 cyclones like Hanna and Gustav that was imported in OSM in Jan 2009. This data served as a starting place for the mapping that would take place after the earthquake. Within 48 hours high resolution imagery taken post-earthquake became available. Within the first month over 600 people added information to OpenStreetMap in Haiti. It became the default basemap for responding organizations such as Search and Rescue teams, Humanitarian mapping NGOs like MapAction and HMMAP, the United Nations and the World Bank. 

In March of that year HOT began to lead its first field mission to Haiti to help responding organizations, Government of Haiti (GoH) entities and Civil Society groups to use OpenStreetMap. There were two components to this, using that data and contributing directly to the OpenStreetMap project by adding the data themselves. Eventually this fostered the emergence of the Community OpenStreetMap Haiti.
Data from Grassroots Communities

Data from Government/Industry

Knowledge Transfer

Haiti

Just a few hours after the 7.0 magnitude earthquake hit Haiti on January 12, 2010 the OpenStreetMap community began tracing. What had they begun tracing? Roads in the beginning all from imagery that was previously available on Google Maps. The initial tracing was building the base data that was already present. The initial data was from responses to 2008 cyclone Ike and aodat map that was imported in QGIS in jan 2009. This data served as a starting place for the mapping that would take place after the earthquake.

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Public Participatory Geographic Information Systems (PPGIS)

Citizen Science

Volunteered Geographic Information (VGI)
Public Participatory Geographic Information Systems (PPGIS)

Collection of spatial data is purposive and agency-driven involve citizens in the planning and data collection, qualitative data and quantitative. Aim to connect “authority” with community. Process driven.

Citizen Science

Citizens as a source of data and complementation of science “democratic research” Process driven.

Volunteered Geographic Information (VGI)

acquisition of spatial data through the use of humans who carry GPS enabled devices
Gathering and sharing data by an individual
Knowingly or unknowingly – Data driven

(Hachmann et al., 2017)
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Acquisition of spatial data through the use of humans who carry GPS enabled devices. Gathering and sharing data by an individual knowingly or unknowingly – Data driven.

(Hachmann et al., 2017)
Malakal Refugee Camp South Sudan 2016
Malakal Refugee Camp South Sudan 2014

Malakal refugee camp in South Sudan Digital Globe
Malakal Refugee Camp South Sudan 2016

Malakal refugee camp in South Sudan Digital Globe
Matching up the data
Matching up the data

Townships in Cape Town, South Africa
Invitation to participate
Medium = who participates
Taking Action Through Citizen Science and Public Participation

20 May 2017
Laura Chipley
Civic Hacking
“Easter Egg Hunts”
Data Journalism
Living Wage Calculator
"I see these changes everyday but I never stopped to think about it."
“The challenge is getting all of the data to the right people... it is not about the robots, it is about the data”

Robin Murphy, TED 2015
Resistance
GIS
Resistance GIS

Use GIS for good.
Thank you!

Thank you, Resistance GIS organizers!

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