Before Disasters: Can we develop common data sets for the entire world?

@TylerSRadford |4 September 2016







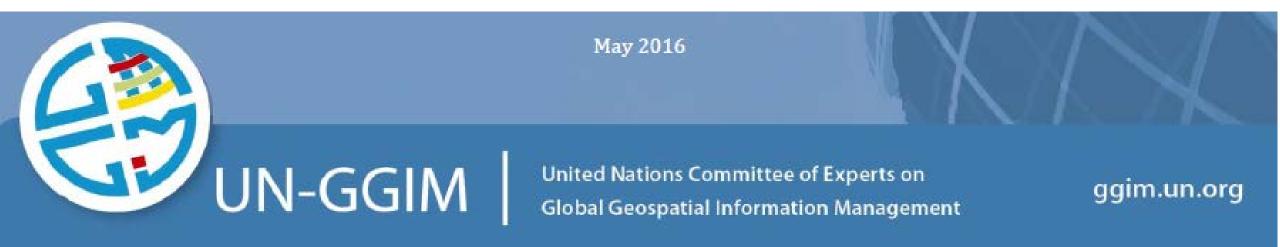
Geospatial data: critical in disaster

Draft Strategic Framework on Geospatial Information and Services for Disasters 2016-2030

"Geospatial information...widely recognized as an important aspect of DRRM"

"Recent large scale events...have demonstrated the gap between the state of geospatial information and informed decision-making"

"Mechanisms...generally not in place [before a crisis happens]"



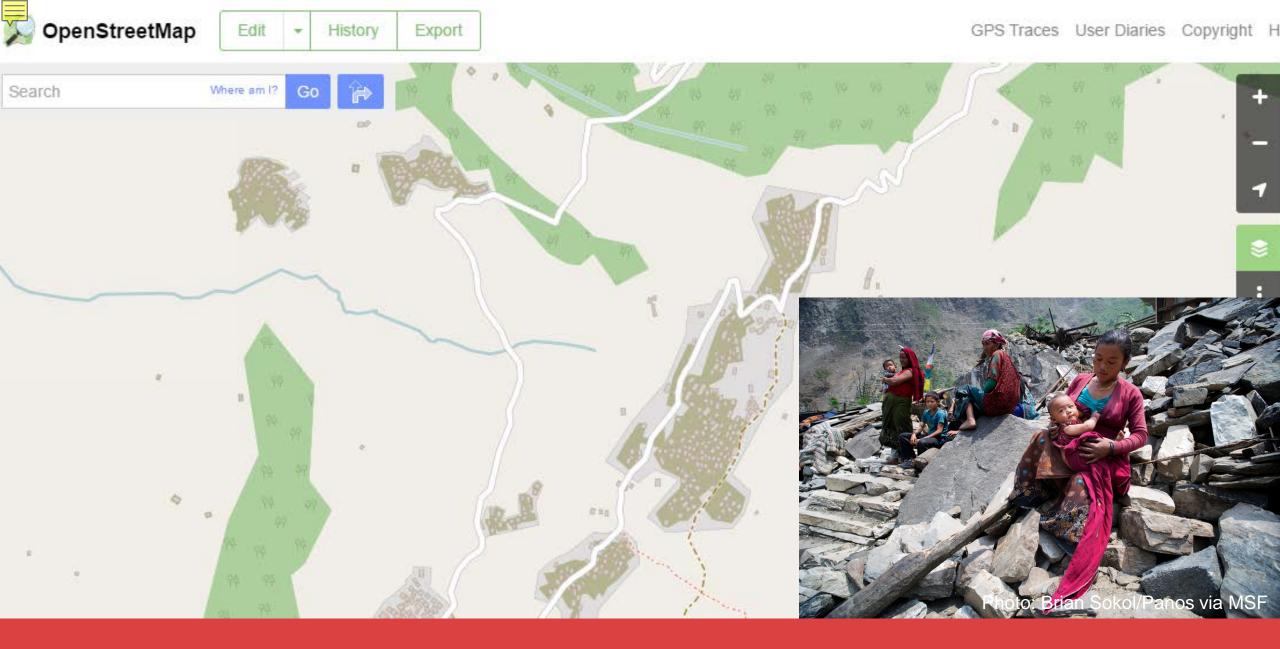
Believe it or not, not everything is mapped

Google

Map data ©2016 Google Terms Send feedback

YANGLAKOT याङ्लाकोट Jalbire जल्बिरे





Same location - different map



Largest collective project ever to fill the gaps: Free, open, micro-level data sets at a global scale



It takes a community...or rather, many of them

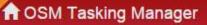


Missing Maps members make this happen:

training & mobilizing volunteers



Who map from their home, school, or office



#1150 - Exposure Mapping Raung Volcano, East Java

Description Instructions Contribute Stats Activity

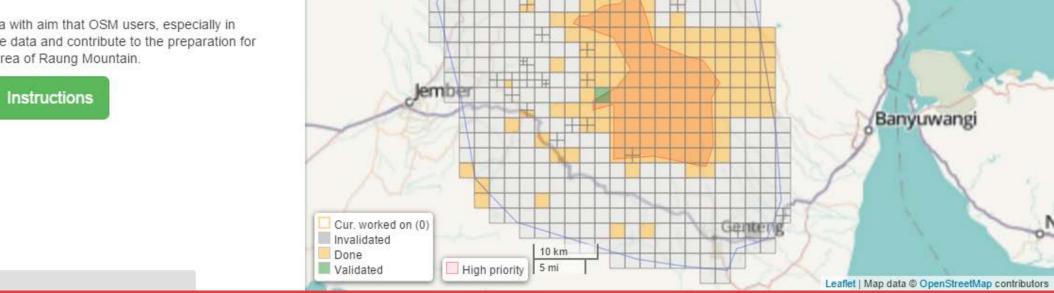
Exposure Data mapping in Raung Volcano, East Java is the first step to collecting spatial data in Raung Volcano which currently showing high activity.

This activity collect all spatial data especially exposure data includes buildings and roads and will be used for further action such as disaster risk analysis or disaster management activities in the surrounding area by the National Disaster Management Agency (BNPB), Local Disaster Management Agency (BPBD) or local government and community.

This activity formed by HOT Indonesia with aim that OSM users, especially in Indonesia can help to collect exposure data and contribute to the preparation for disaster relief efforts in surrounding area of Raung Mountain.

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asks.hotosm.org

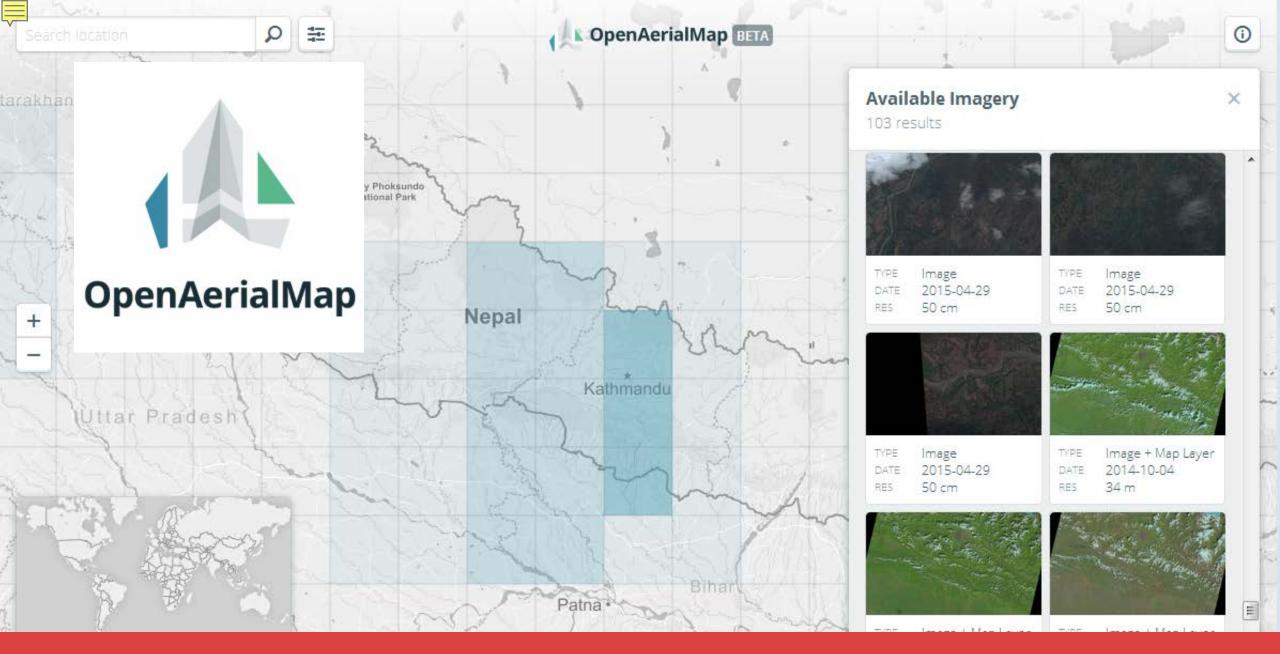


Bondowolsc

We use freely available web-based tools

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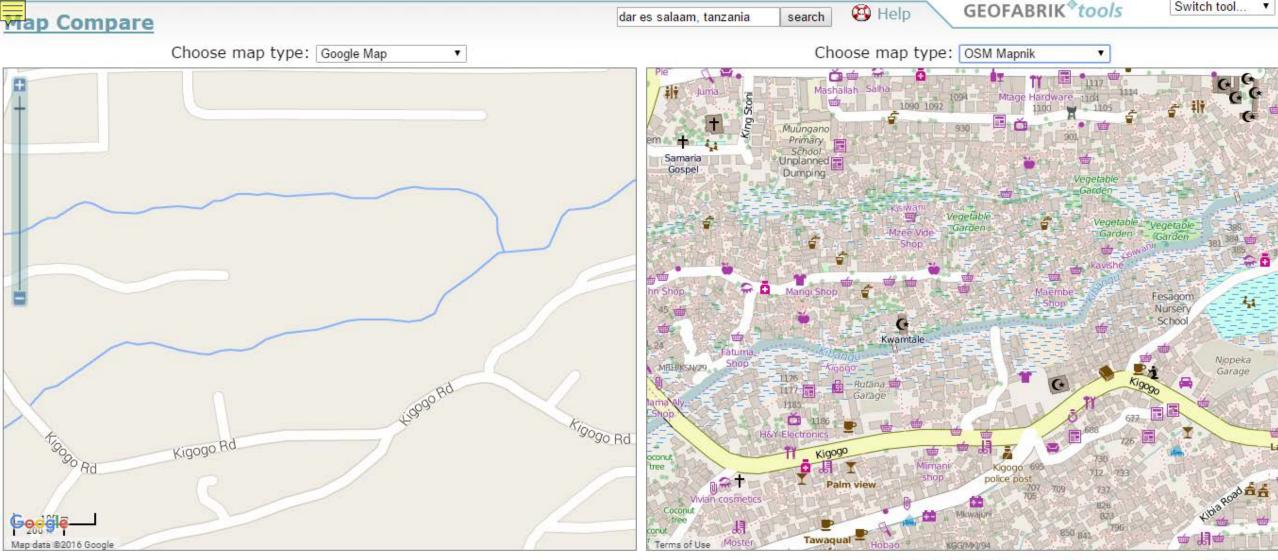


OpenAerialMap and Open Imagery Network



Missing Maps pros and volunteers also survey on the ground

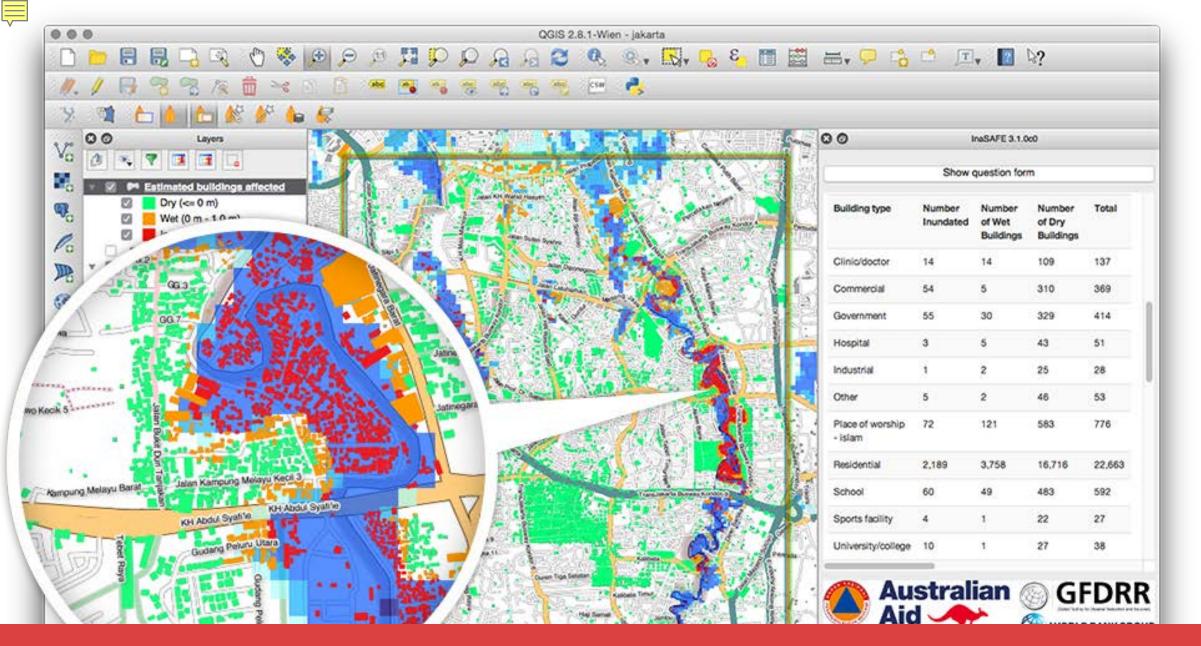
Mapping Dar es Salaam, Tanzania: (flood prone) megacity in the making



39.24340, -6.81760 zoom=17 number of maps: 1 2 3 4 6 8

All maps except Bing/Google/HERE based on OSM data © OpenStreetMap (License: ODbL 1.0), OSM Tiles licensed CC-BY-SA 2.0 - help - contact - fullscreen

One neighborhood in Dar es Salaam: before/after



InaSAFE: OSM exposure data for contingency plans

Humanitarian mapping on OpenStreetMap: all contributed edits

This visualises the density of all map edits contributed through HOT or Missing Maps before January 2016. To participate visit hotosm.org or missingmaps.org



120mm map edits | 20000 contributors | 1000 projects



Brussels | 22 September 2016 http://summit.hotosm.org