

OpenStreetMap for Disaster Response & Preparedness



Humanitarian
OpenStreetMap
Team





Hi, I'm **Jess Beutler**

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Who we are



an international team dedicated to humanitarian action and community development through open mapping.



Disaster Response

Mapping for humanitarian relief and public health emergencies



Sustainable Development

Mapping to close data gaps, make invisible communities visible, help policy makers to make decisions informed by data



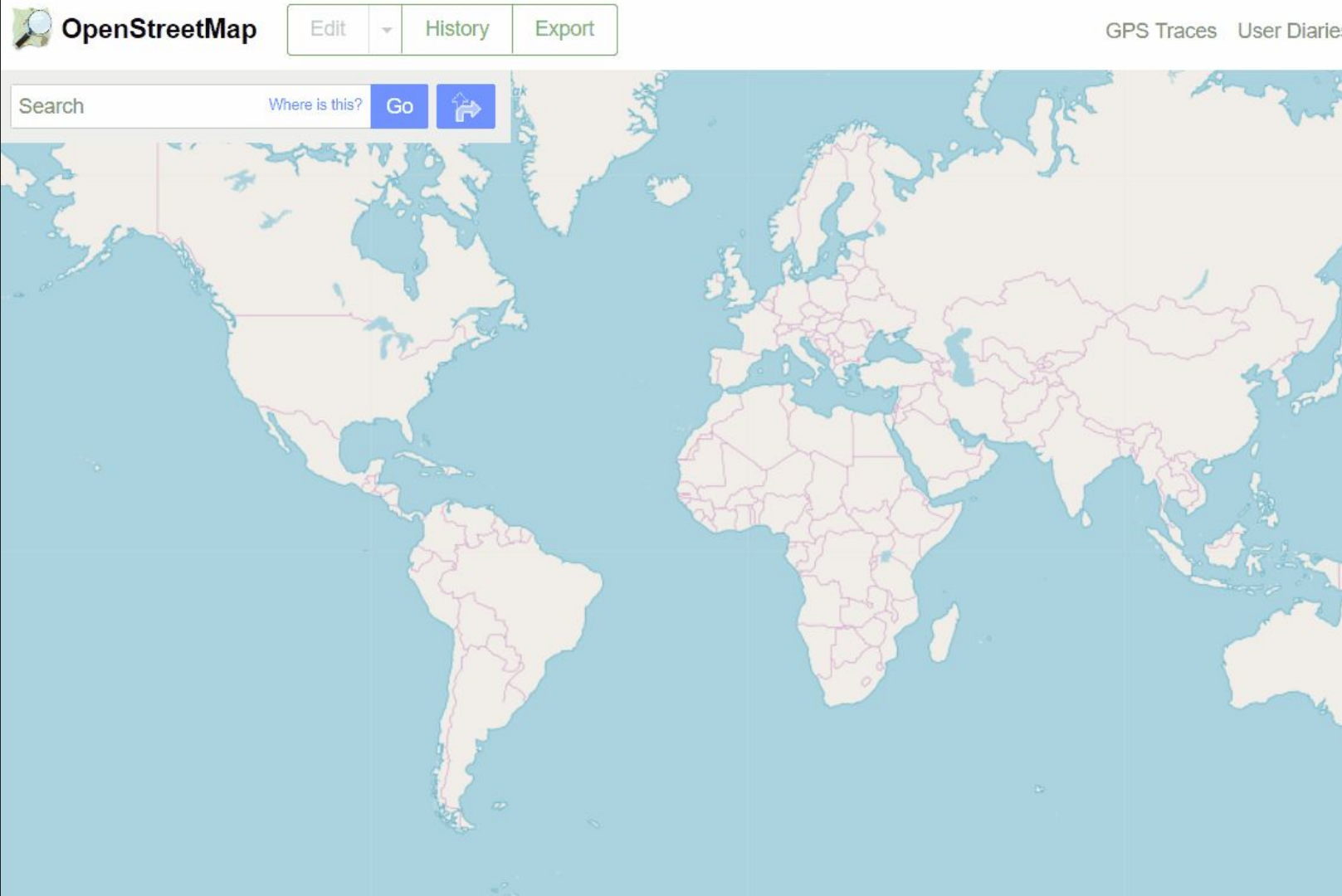
Technology

Development and management of tools for mapping process: mapping, analytics, imagery



OpenStreetMap

is a collaborative project to create a free editable map of the world



HOT

Leverage crowdsourcing & technology

167,000+ volunteers creating open geospatial data
+ trained validators



**to provide data & improve
coordination for disaster response**

used by organizations such as Doctors Without Borders,
& Red Cross Societies

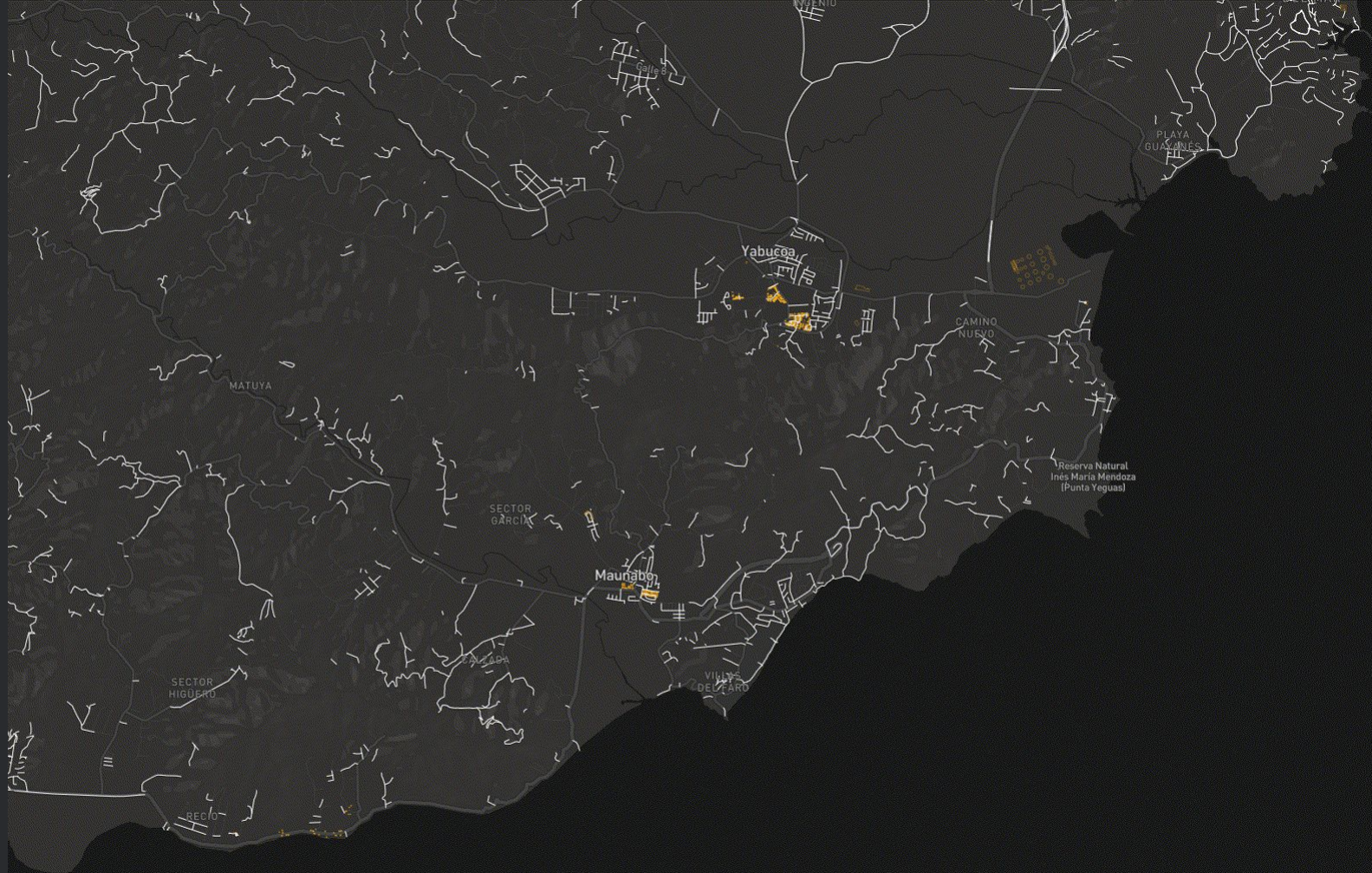


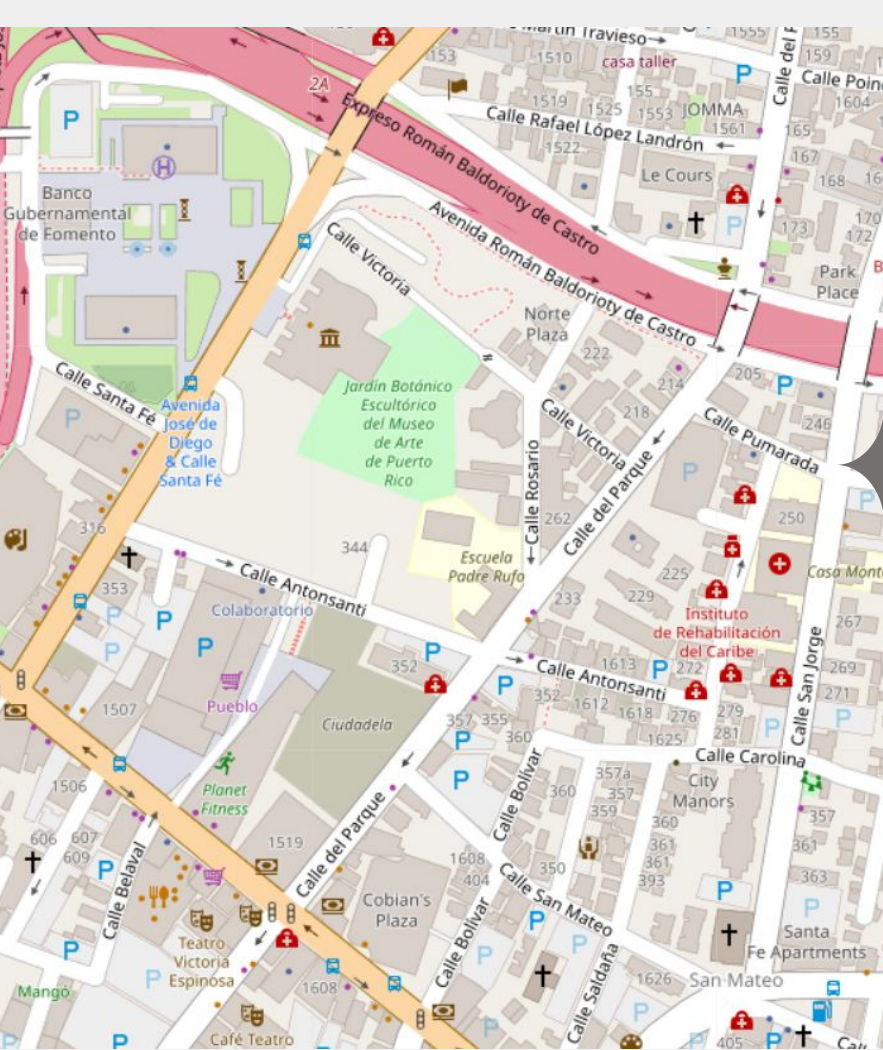


Puerto Rico 2017

activation called on
remote volunteers to
map roads and
buildings

Right: September -
November mapping





Hurricane Maria Activation

5,400+ volunteers

~300 people per day

45,000 km roads

1.5 million buildings

Making Decisions

Red Cross

- > Rapid Damage Assessments
- > Planning Distribution Centers and Navigation

FEMA

- > Road data for road damage assessment
- > Building footprints for individual assistance

Digital Humanitarian Network

- > Data for response visualizations





Before the next storm

- > Aerial imagery capture / drone mapping
- > Set up Community Mapping teams
- > Surveying and mapping of critical infrastructure





Aerial Imagery

Drone technology is increasingly low-cost, and accessible

Create capacity for damage assessments and up to date maps





Community Mapping

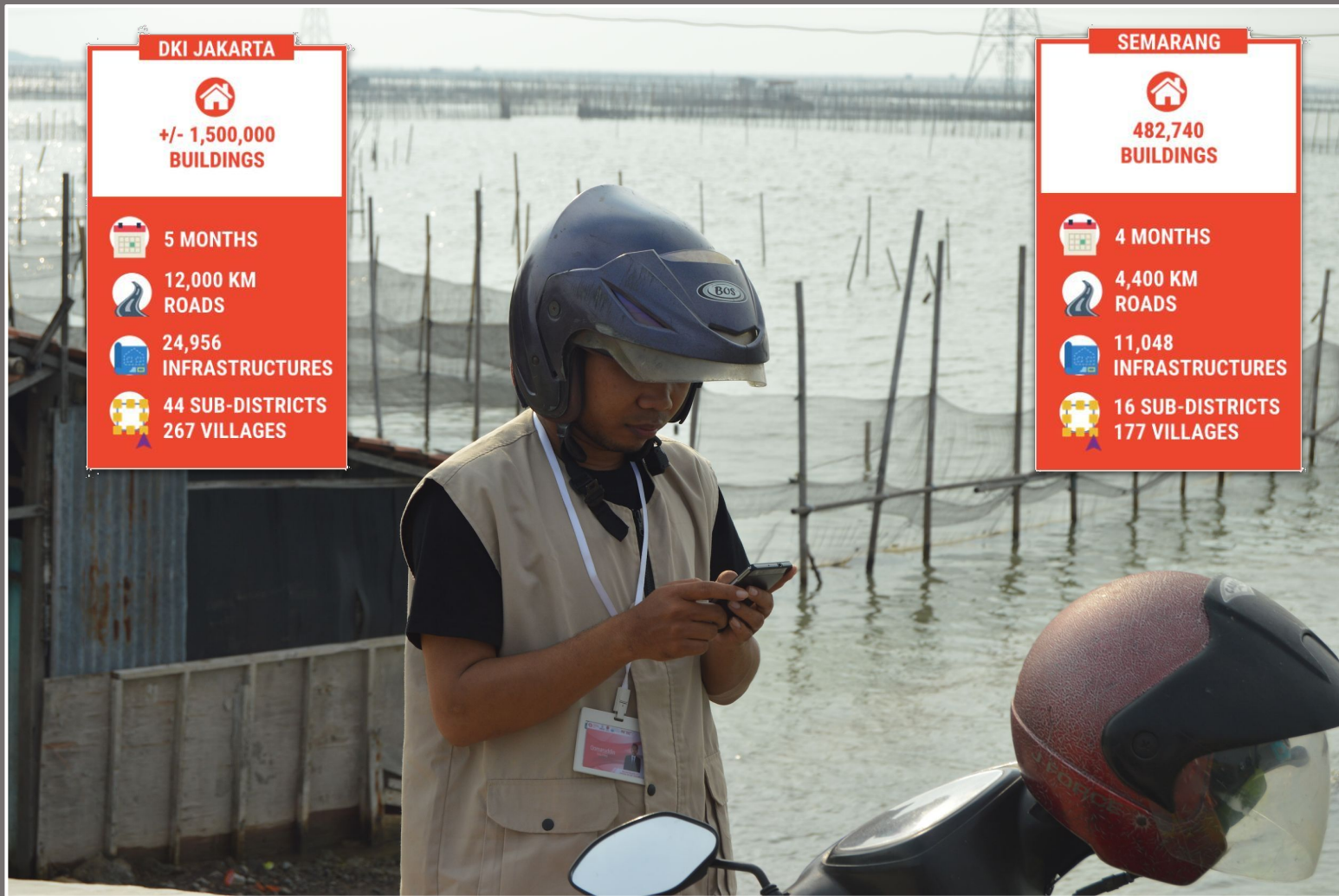
Leverage universities,
youth groups,
community-based
organizations





Surveying Critical Infrastructure

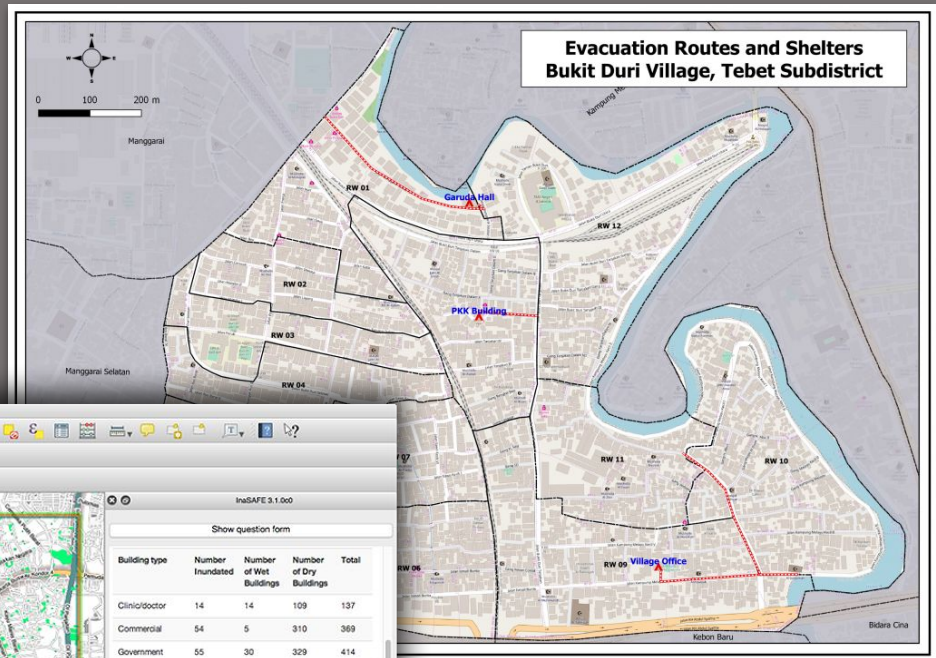
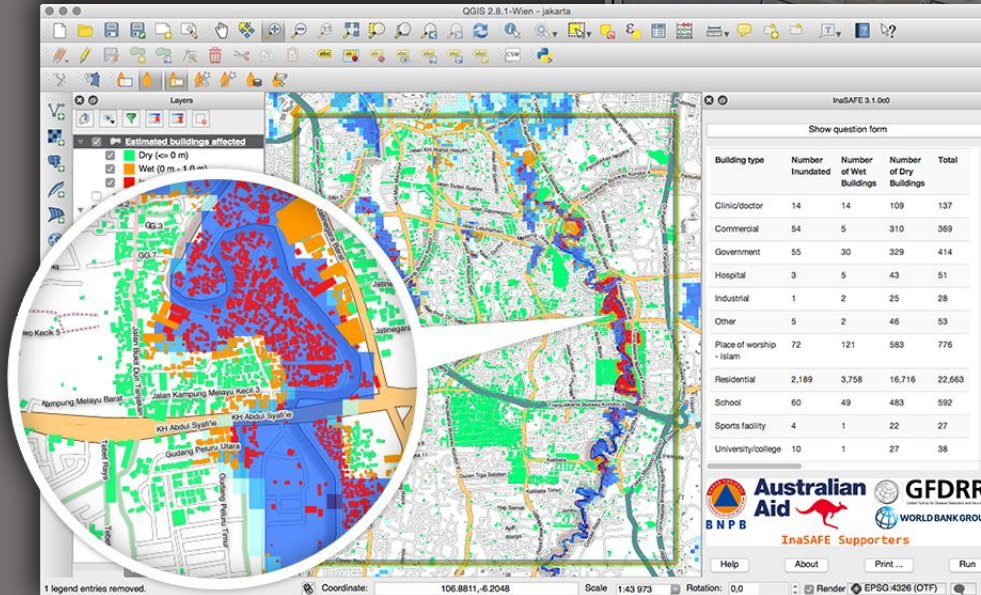
Case Study:
Lifeline Infrastructure
Mapping in Indonesia





Data for decision making

- > Evacuation Plans
- > Risk modeling
- > Vulnerability assessments



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Learn how to map!

Open-Data and Open-Source Workshop

31 May @ 9 am – SB First Citizens Room

