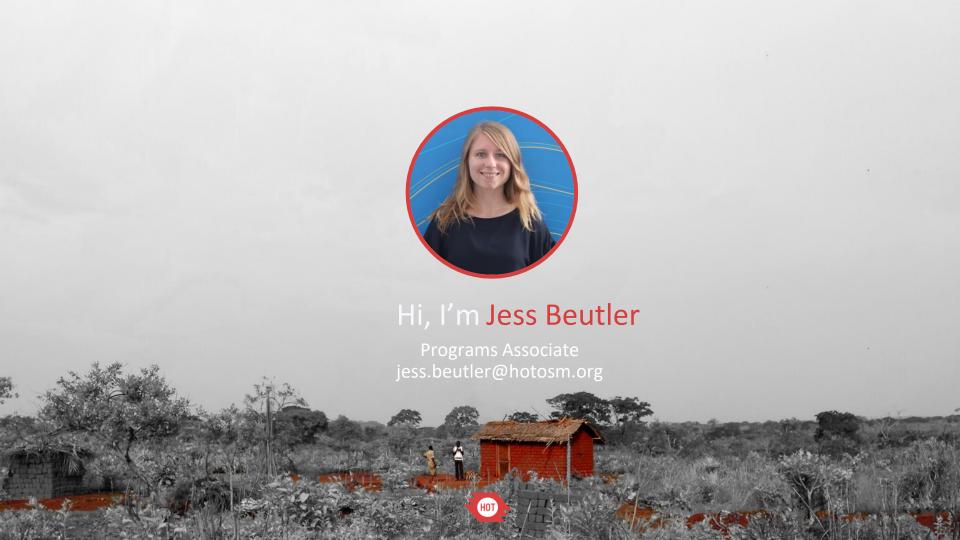
# OpenStreetMap for Disaster Response & Preparedness







### 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



# 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



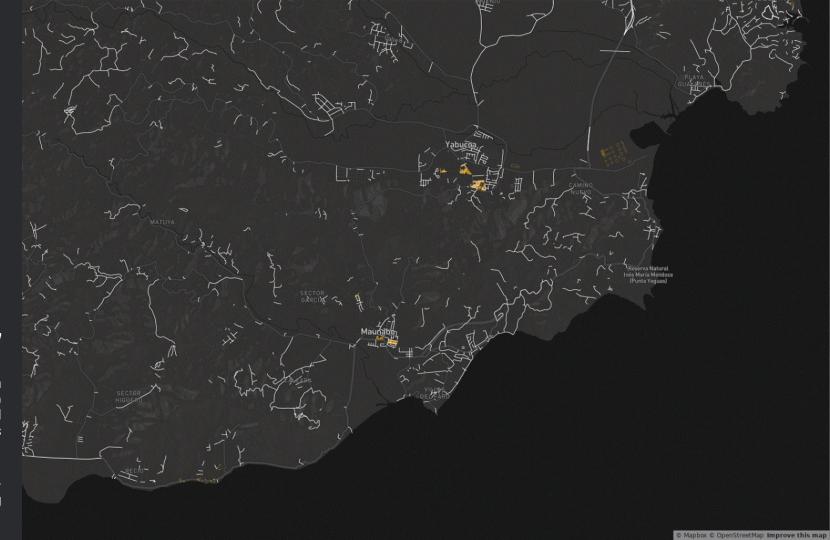


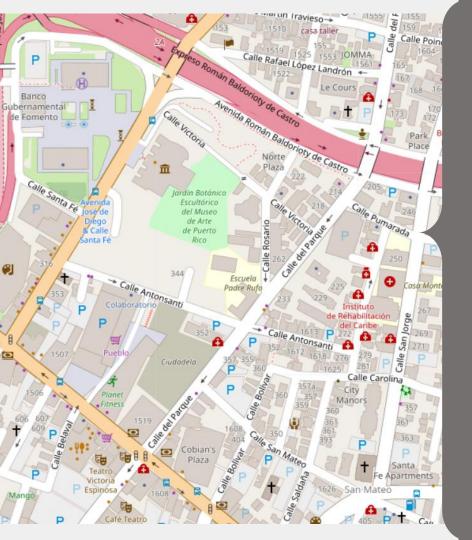


#### Puerto Rico 2017

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

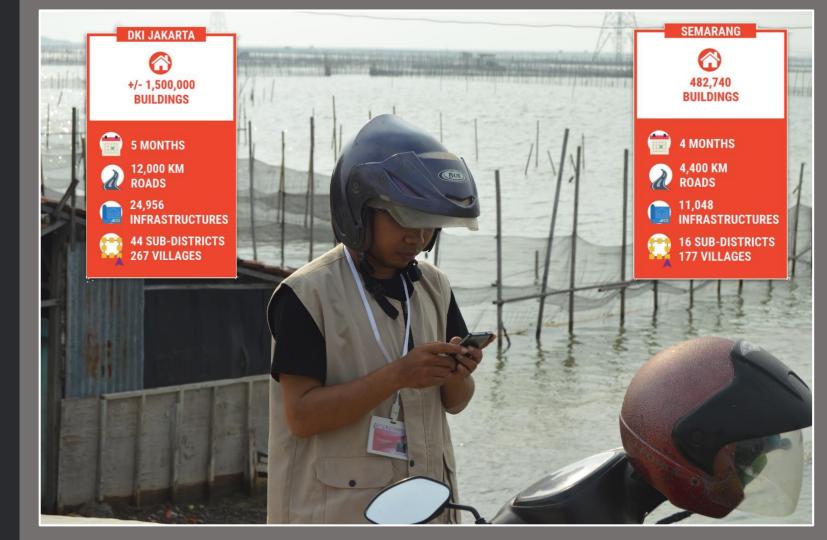




#### Surveying Critical Infrastructure

Case Study:

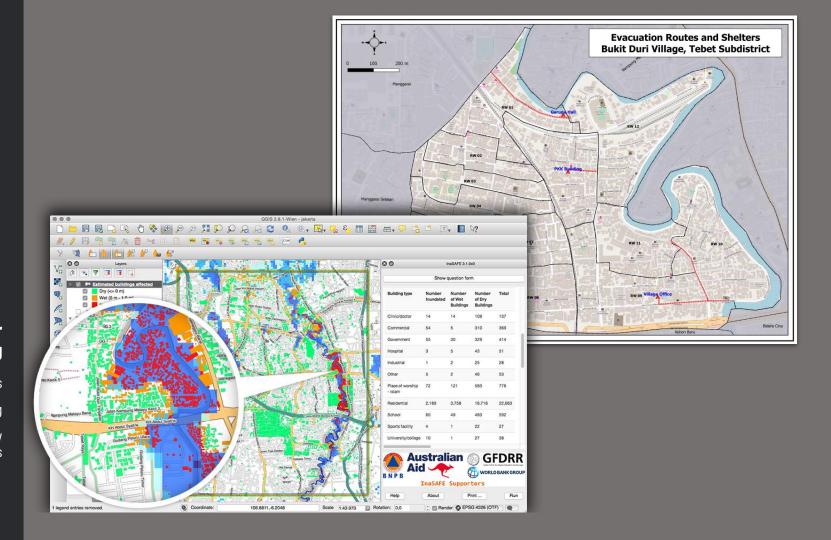
Lifeline Infrastructure Mapping in Indonesia





## Data for decision making

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



# hotosm.org

Learn how to map!

## **Open-Data and Open-Source Workshop**

31 May @ 9 am - SB First Citizens Room

