Using OpenStreetMap and QGIS to build resiliency maps

The view from San Francisco, California

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FOSDEM 2019
Starting resiliency maps

- Warm clothes and sturdy shoes
- Radio (battery operated or hand crank)
- Cash
- Sleeping bag or blankets
- Cellphone charger (battery operated or car plug-in)
- Tools

Https://www.sf72.org
Area west of Divisadero Street is not to scale. It is 4.5 miles from Divisadero St. to the ocean. This area is greatly compressed from East to West and lacks many secondary streets.
San Francisco Climate & Health Program

sfclimatehealth.org/neighborhoods
I have a plan.
Why use OSM for a resiliency map

Most features are readily available:

- Hospitals, schools, fire stations
- Places with hazardous materials like:
  - Car (and other vehicle) repair shops (shop:car_repair)
  - Construction zones (landuse:construction)
  - Gas stations (amenity:fuel)

OSM has a built-in review and edit process for data-entry and validation
Making OSM work for your city
Getting the mappers out
Not just quakes
Percent of land-area in 'high' or 'very high' heat vulnerability zones

San Francisco Census Tracts
- 0%
- 0.1% - 27.5%
- 27.6% - 49.6%
- 49.7% - 74%
- 74.1% - 100%
What’s next

More data entry for San Francisco

- Ongoing, fairly easy to solve

A better system for visualization and printing

- Light-weight (no custom OSM server)

Expansion to other areas

- Want to run a resiliency map initiative in your community?
Keep in touch!

resiliencymaps.org  (updates, tutorials, mailing list)

Twitter: @resiliencymaps

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