Mapping an Entire Country: Using OpenStreetMap to Collect Exposure Information in Indonesia

Kate Chapman
Humanitarian OpenStreetMap Team
@wonderchook/@hotosm
InaSAFE
What is OpenStreetMap?
What to Collect?

- Roof Type
- Wall Type
- Number of Stories
- Construction
- Building Usage
confined
unconfined
unreinforced masonry
kompetisiOSM.org
From Hand-drawn to Digital to Geographic
fungsi bangunan: hunian (residential)
struktur bangunan:
tipe dinding: papan kayu (wood)
tipe atap: seng (tin)
jumlah tingkat: 1
From hand-drawn maps at the start, the teams in Kupang managed to map the area in just 2 days!
Job: Imagery of Padang

What and Why?

HOT purchased imagery for Padang because only Landsat was available. We would like to digitize all the buildings in the areas as well as roads.

How?

1. Add tile service:
   (In JOSM)
   - tms:http/aerial.openstreetmap.org/id/padang/[zoom]/[x]/[y].png
   - tms:http/aerial.openstreetmap.org/id/padang2/[zoom]/[x]/[y].png
   (In Potlatch)
   - http/aerial.openstreetmap.org/id/padang/$z/$x/$y.png
   - http/aerial.openstreetmap.org/id/padang2/$z/$x/$y.png

2. Trace all roads and buildings in the square assigned.

Ready?

Take a task Or choose one by clicking on the map.

If you're an experienced mapper, you can also be given a task to validate.

Who else is working?

**Contributors**
- Tim McNamara
- Davidgogeshwill
- wonderchook
- neuhausr
- matubu
- Komaga
- rukeli
- pg/raud
- prabhash
- migurski
- jywarren
- hcanof
- hicon150
- skorasaurus
- Funky
- EdLoach

**Validators**
- wonderchook
- maning
- Humberto_Yances
- pg/raud
- Zverik
- rukeli
- MStorm
National Disaster Management Agency (BNPB)
Regional Disaster Management Agency (BPBD)
United Nations Office for Coordination of Humanitarian Affairs
World Bank/ Global Facility for Disaster Risk Reduction
AusAID – Australia-Indonesia Facility for Disaster Reduction
Humanitarian OpenStreetMap Team
University of Indonesia
288,826 buildings mapped so far!
Up next 1,000,000, then...

Thanks!