InaSAFE and Crowdsourcing for DRR in Indonesia

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InaSAFE: What’s the likely impact of a future disaster event?
Exposure data a key ingredient
Often most vulnerable = least data

Photo: PetaBencana/MIT
What if crowdsourcing could be used to map exposure?
2011-2017

Recruit 8 trainers
128 trainings
17 provinces
3,042 participants
6,361,386 buildings mapped
1. Import existing open datasets

2. Remote mapping through digitizing aerial imagery

3. Detailed attribute information collection on the ground
Training… then Doing
Free, open source tools to coordinate volunteers
Mobile data collection with OpenMapKit
Custom forms standardize data collected
Mapping sub-sub village boundaries; evacuation routes
University Partnerships: More data contributors, better data

Exponential growth of exposure data: From near 0 to 6,361,386 buildings
Buildings mapped in Semarang, Indonesia: Before/After
New real-time tools with analysis-ready data for online analysis
PetaBencana: Real-time flood info using social media
Crowdsourced data in your EOC

Photo: PetaBencana/MIT
Tools to make this happen in your country

Open Mapping for the SDGs:
A practical guide to launching and growing open mapping initiatives at the national and local levels

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