

Leveraging Crowdsourced mapping Approaches for Disaster Risk Reduction

Abigail Baca– World Bank/ GFDRR



GFDRR
Global Facility for Disaster Reduction and Recovery



Cooperative Governance
Traditional Affairs



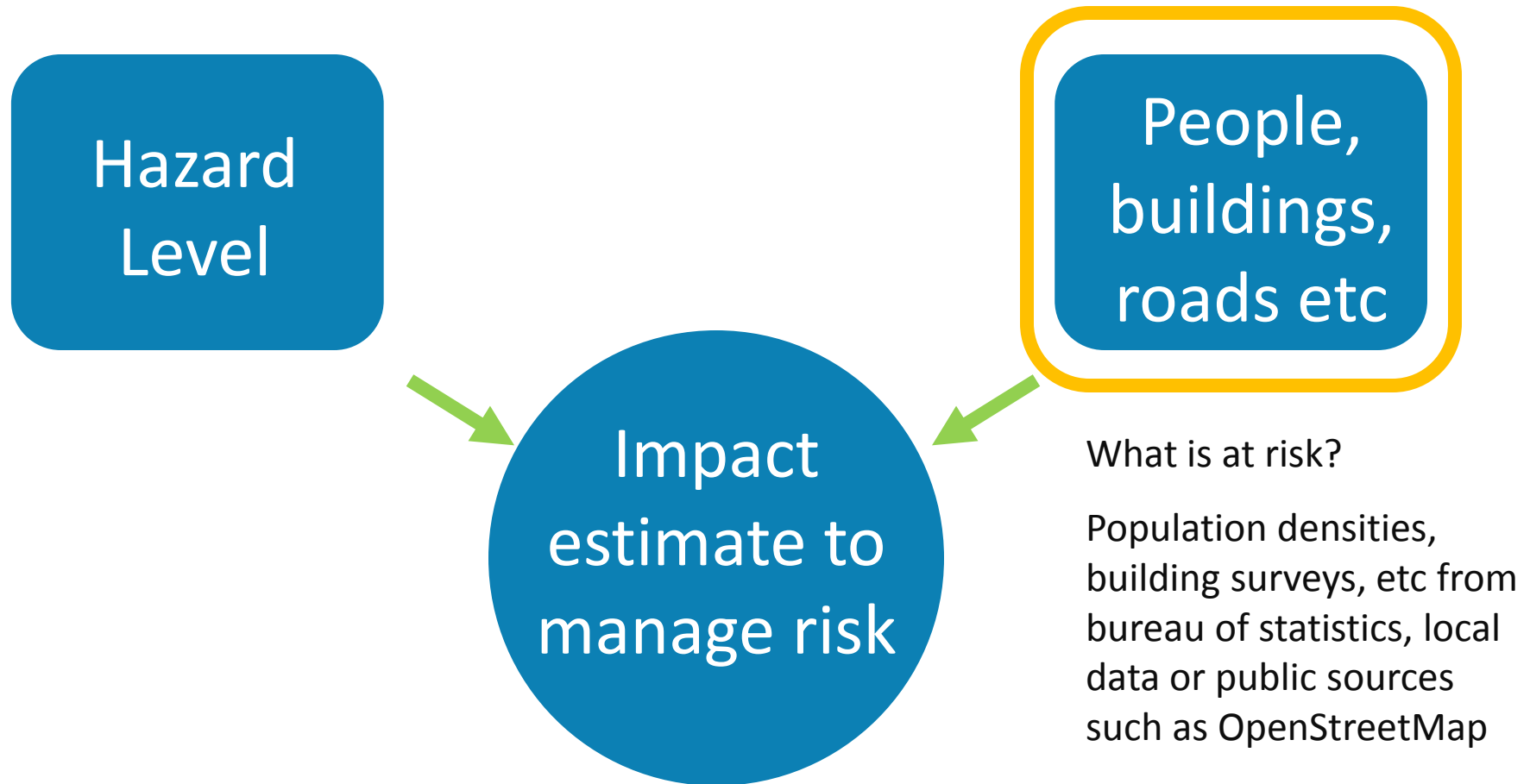
ISDR



What problems are we solving?

- Where should we build safer schools?
- How should we target retrofitting projects towards most at-risk infrastructure?
- How can disaster management agencies best plan to respond to an event?
- And what are the tools to do it?





- Working directly with communities
- Creating multi-purpose maps: settlement planning, poverty mapping, disaster preparedness



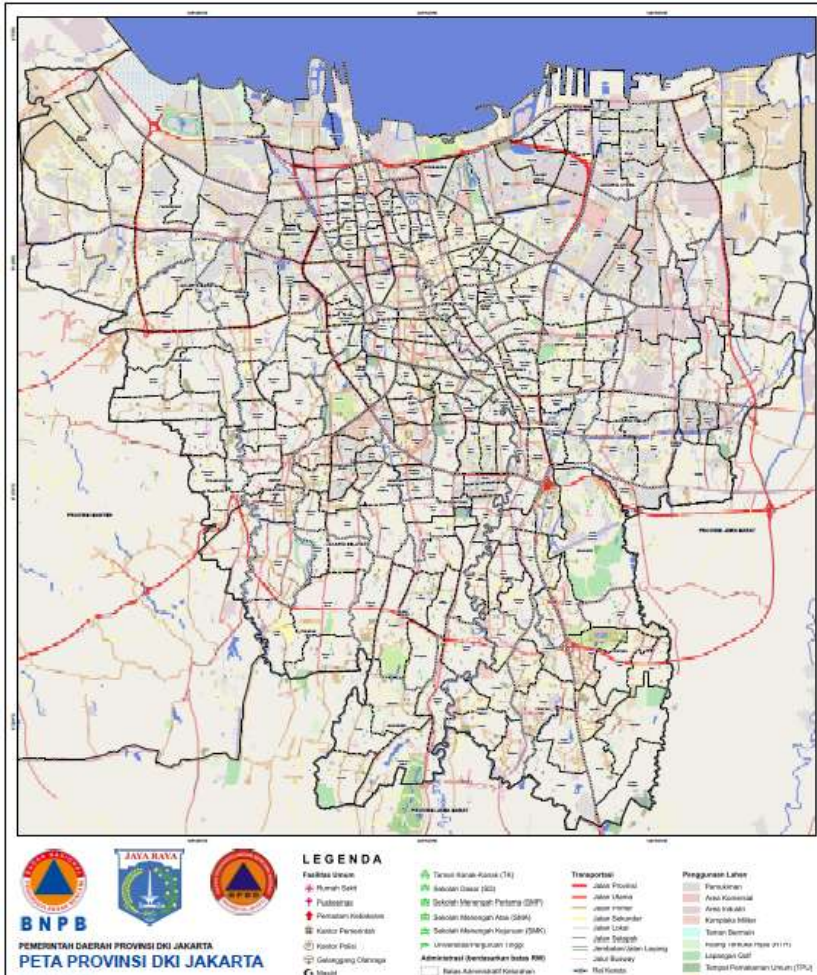


- Decision making for Flood preparedness requires data to inform:
 - Mitigation plan
 - Contingency plan
 - Logistic distribution
 - Human resource allocation
 - Evacuation
- Detailed data for better preparedness
- Led by Jakarta Province Disaster Management Agency (BPBD) support from BNPB, AusAID/AIFDR, HOT, OCHA, World Bank/GFDRR

- Engagement of Local Government, trained university student mappers
- Rigorous quality control, support from national mapping agency



Jakarta Contingency Planning



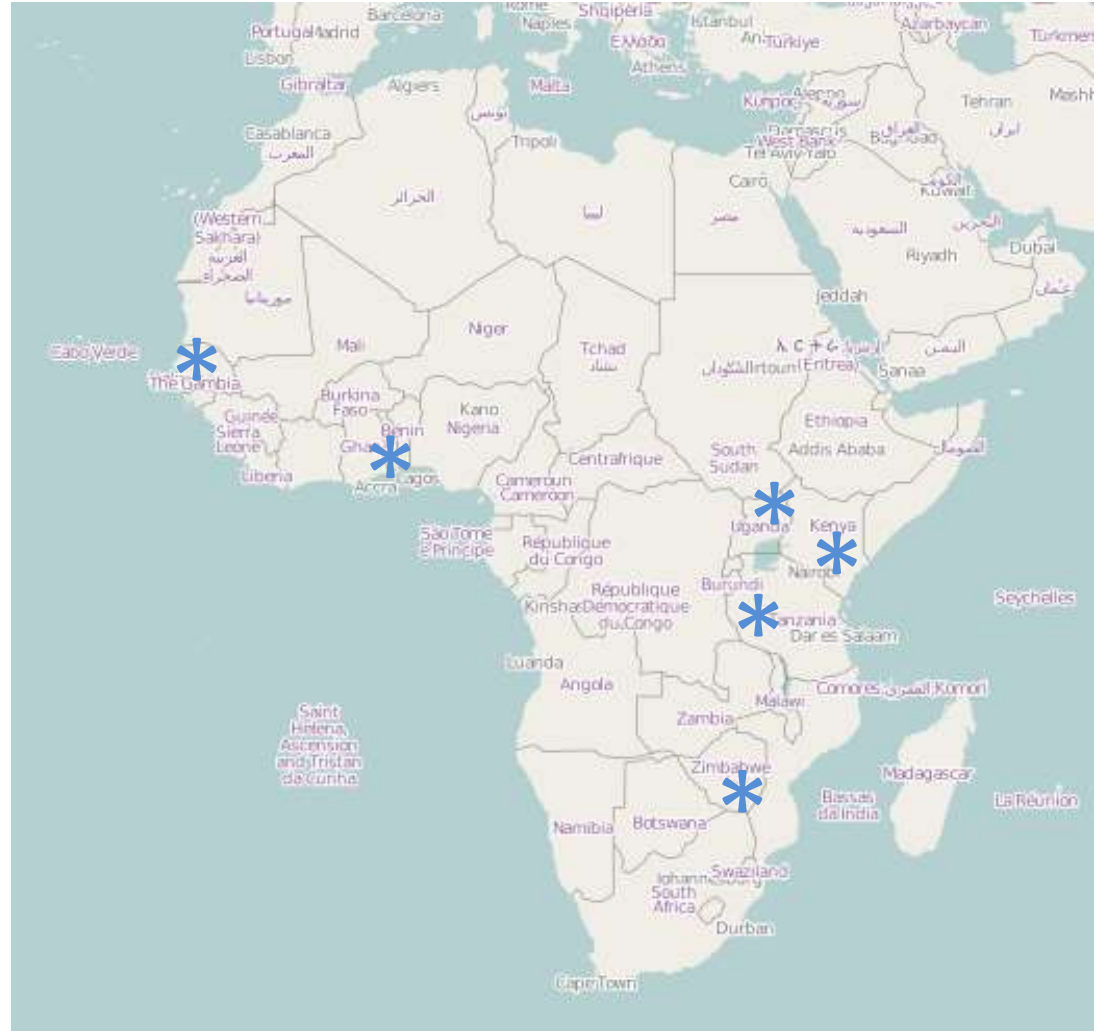
- 500 representatives from Jakarta's 267 Villages and University of Indonesia students helped to map:
- 6,000 buildings and critical infrastructure including schools, hospitals, and places of worship
 - 2,668 sub-village boundaries



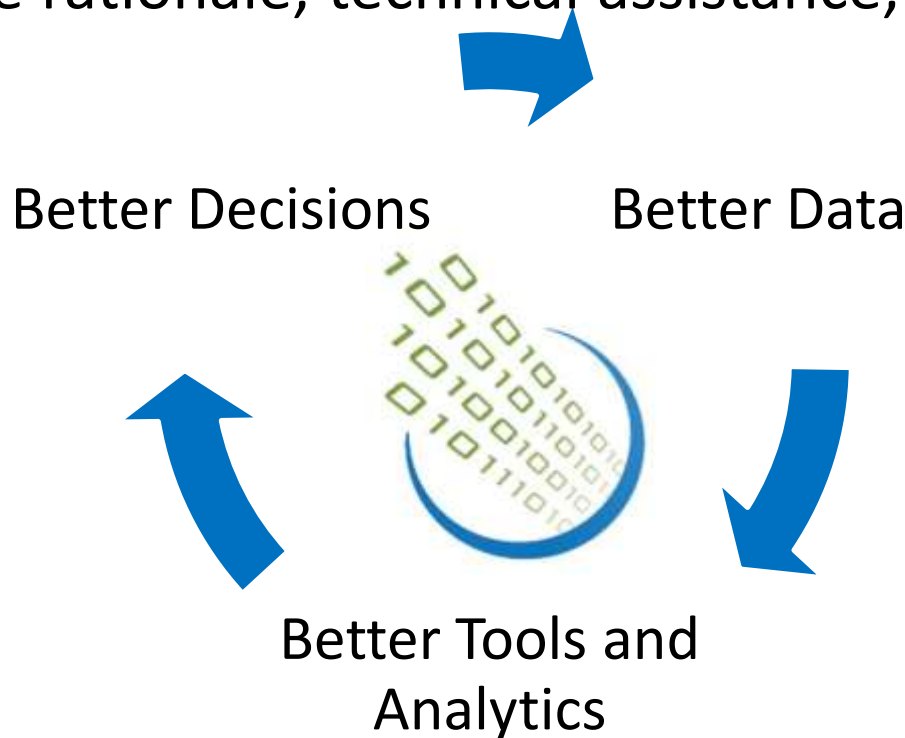
- ✓ open source tools for online or offline mapping
- ✓ a common platform for uploading and hosting data with free and open access
- ✓ an active global community of users
- ✓ Customized resources for growing community in Indonesia: <http://en.openstreetmap.or.id/>

Examples in World Bank projects

- Majority of applications for community development and other non-DRM
- Growing used for risk reduction
- Strong NGO support: Ground Truth, OpenStreetMap, Public Laboratory



OpenDRI encourages and facilitates the sharing of climate and disaster data to enable more effective decision-making by providing the rationale, technical assistance, and tools for data sharing.



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abaca@worldbank.org

