InaSAFE

A collaborative open source software development project

Indonesian Government - BNPB

Australian Government - AIFDR

World Bank - GFDRR









Acknowledgements

Colleagues at AIFDR & Geoscience Australia

Partners at World Bank & BNPB

Open source enthusiasts at HOT OpenStreetMap & Kartoza







AUSTRALIA-INDONESIA FACILITY FOR DISASTER REDUCTION





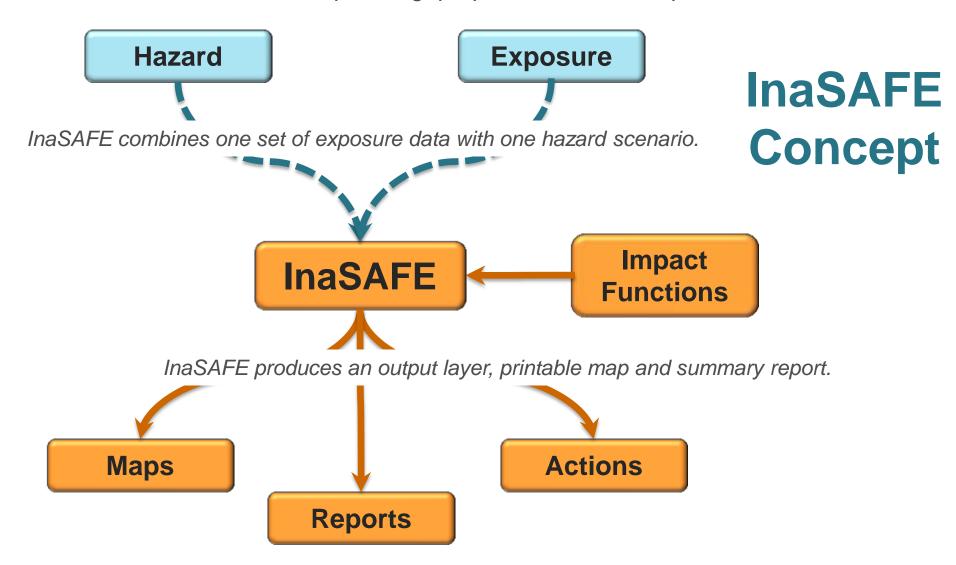




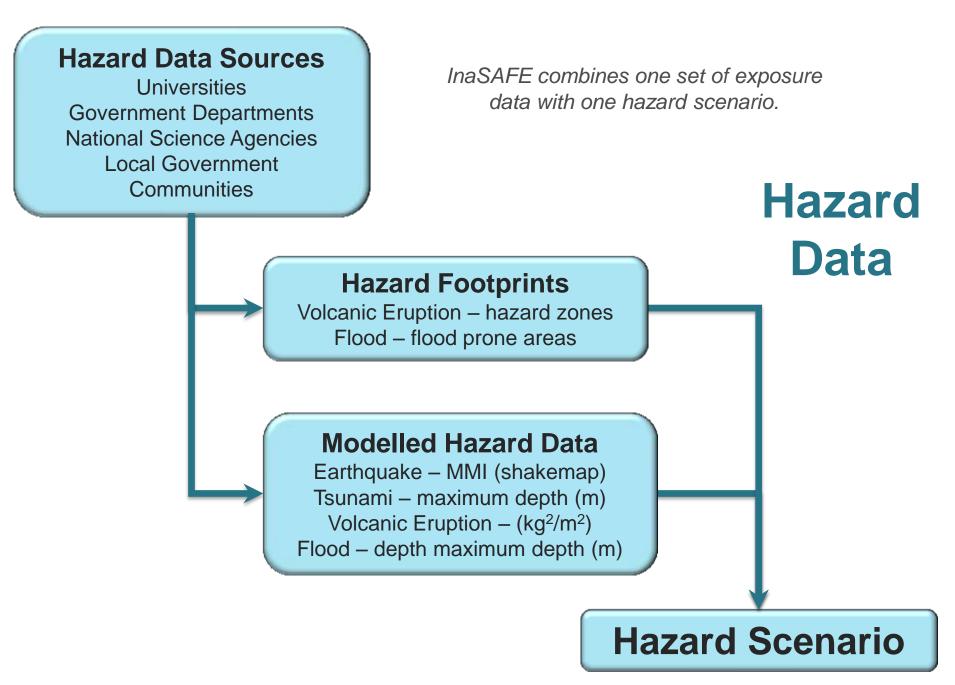




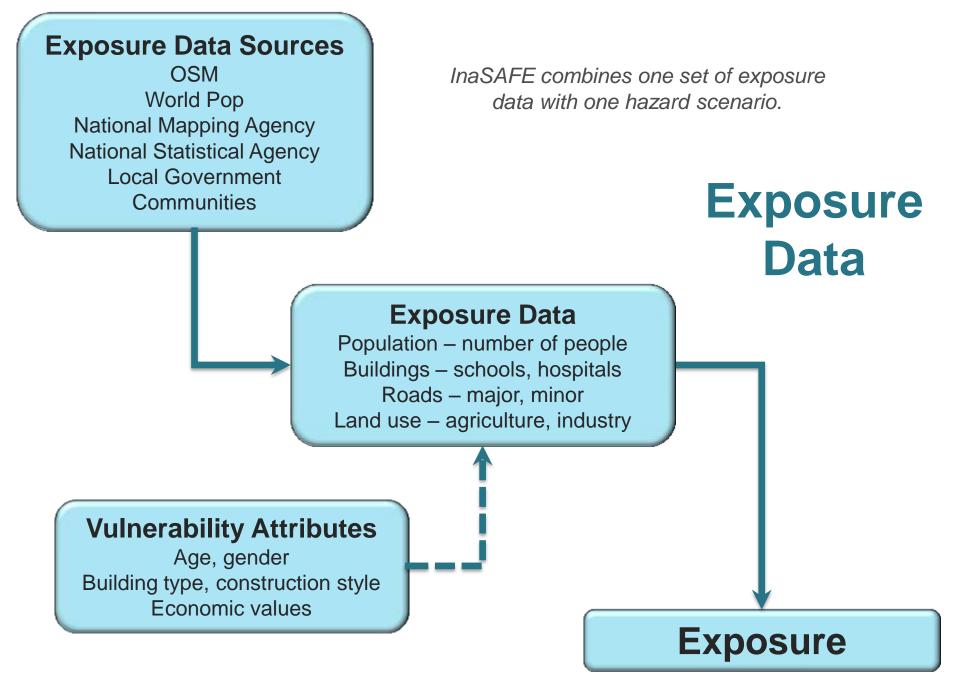
InaSAFE is free software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities.



Scenario: in the event of a Flood in Jakarta, how many buildings will be affected?

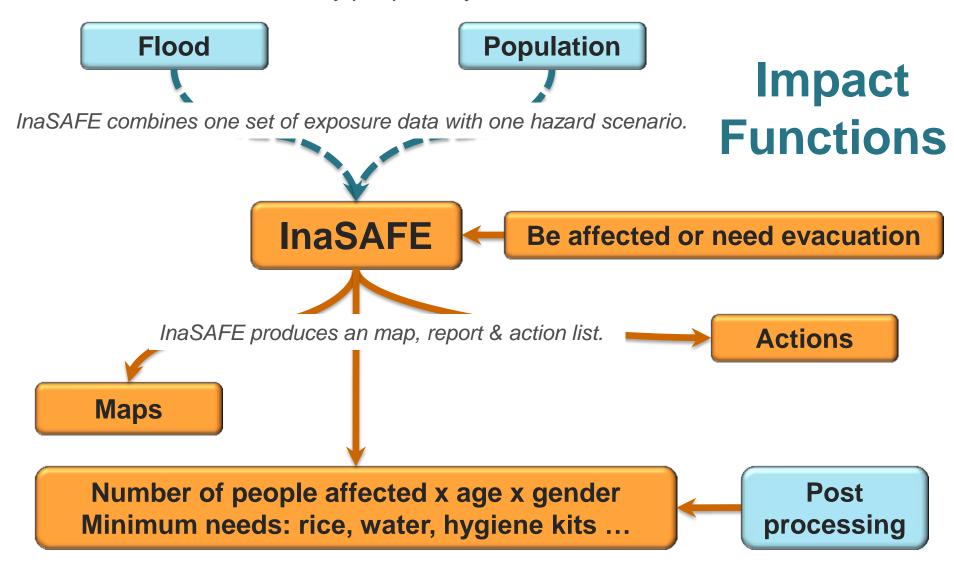


Hazard in InaSAFE refers to a single disaster scenario.



Exposure in InaSAFE refers to population count or structures.

In the event of a specific flood scenario, how many people will be affected & how many people may need to be evacuated.



InaSAFE can have multiple impact functions for each hazard or exposure data type.

InaSAFE – Jakarta Flood Are the critical facilities still open? Which structures have warning capacity (eg. sirens, speakers, etc.)? Which buildings will be evacuation centres? Breakdown by building type Where will we locate the operations centre? Clinic/doctor 25 184 Where will we locate warehouse and/or distribution centres? Fire station 27 97 Government 696 Hospital 8 108 26,667 Other 3,924 Place of worship - islam 255 1.814 Police station 9 54 25 Residential 0 School 162 1,334 Sports facility 7 93 University/college 133 14

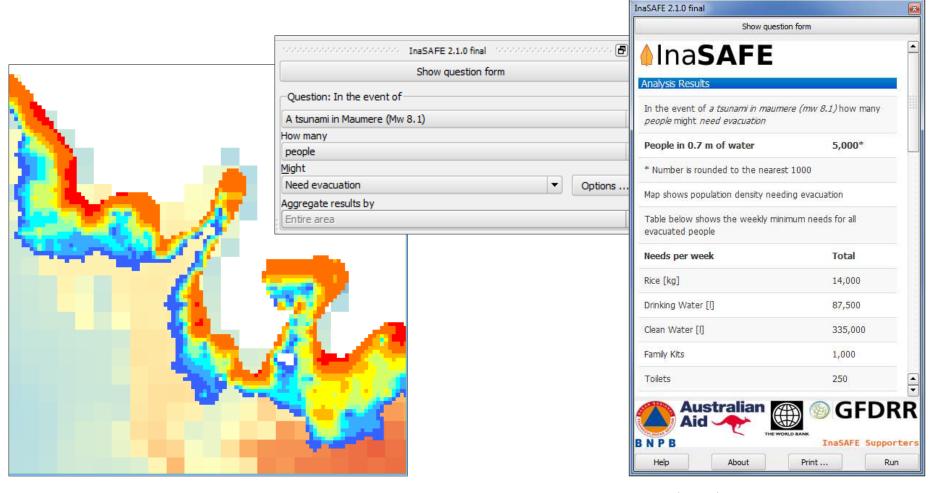
Action Checklist:

Hazard: Jakarta Flood January 2013 – BPBD DKI Jakarta

Exposure: Buildings - OSM

InaSAFE – Maumere Tsunami

InaSAFE is free software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities.



Hazard: Maumere Tsunami Inundation Model – AIFDR (25m)

Exposure: Population Model – WorldPop (100m) | Buildings - OSM

InaSAFE – Success Factors



InaSAFE – Future (Indonesia)



BNPB:

- Risk assessment tools
 - Response tools
 - Recovery tools
 - Policy tools
 - Indonesian data population

Local users:

- Risk assessment tools
 - Economic impacts and livelihoods
- Tools to get their data into InaSAFE
 - Other hazards landslide

InaSAFE – Roadmap 2014

Metadata standardisation

Wizards for:

- function driven analysis
- Data driven analysis

User input to:

- minimum needs, post processors & aggregation
- Analysis extent

Scoping of new impact functions such as:

- polygon land use analysis economic impacts
- Damage & Loss Assessment social impacts
- road network analysis evacuation routes

Summary

AIFDR:

- is a partnership between the governments of Australia and Indonesia (BNPB)
- activities are focussed on disaster risk reduction and capacity building at the national and community levels

InaSAFE:

- is free open source software
- does not include data and is not a hazard modelling tool

The technology:

- brings natural hazard science to disaster managers and the community
- is relevant to disaster preparedness, response & recovery ...

InaSAFE – Real Time Earthquake



BIRTATERSANS Arsip Dents

STATUS GUNUNG TANGKUBANPERAHU DITURUNKAN DARI WASPADA MENJADI NORMAL

OLEH ADMN + 19 March 2013 08:12

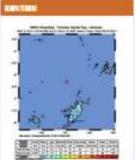
Kepala PVBMB Badan Geologi, Surono, telah mengrimkan perkembangan aktivitas Gunung Tangkubanperahu di Kab Bandung Barat dan Kab Subang. Prov Jawa Barat kepada BNPB. Bardasarkan hasi pengamatan kegampaan, debrimasi, visual, pengukuran gas, suhu kawah dan tanah seria analisis data, maka temitung mulai Senin (18 Maret 2013) pukul 19:30 WB status. Salandkannya.

* Tweet 0 mtike 0

3 MENINGGAL DAN 1.153 RUMAH TERENDAM BANJIR DI SUMENEP DAN BANGKALAN, MADURA

OLEH ADMIN # 18 March 2013 07:40

Hujan deras yang hampir setiap hari turun di Madura menyebabkan banjir. Pada Jumat (15/3) pukul 13.30 Wib banjir terjad di Desa Panggung, Kec. Pragaan, Kab Sumeneo, Madura, Provinsi Jawa Timur akibat meluapnya sungai. Dua siawi Pondok pesantren Panggung bernama Nurul Kholisa (16 thrij dan Manyami (14 thrij tenggelam tersenst arus sungai dan meningga.



Gempalbum berkekuatan 5,5 SR dengan kedalaman 100 Km pada tanggal 2013-03-18 jam 10-54-35 WB, berpusat di koordinat 131.05,-6.3 [148 km BaratLaut MALLIKUJTENGGAPABRT], dengan dempak nihil

