

InaSAFE - how much rice?

AIFDR / Geoscience Australia

Scaling up Open Data for Disaster &
Climate Resilience



Australian Government
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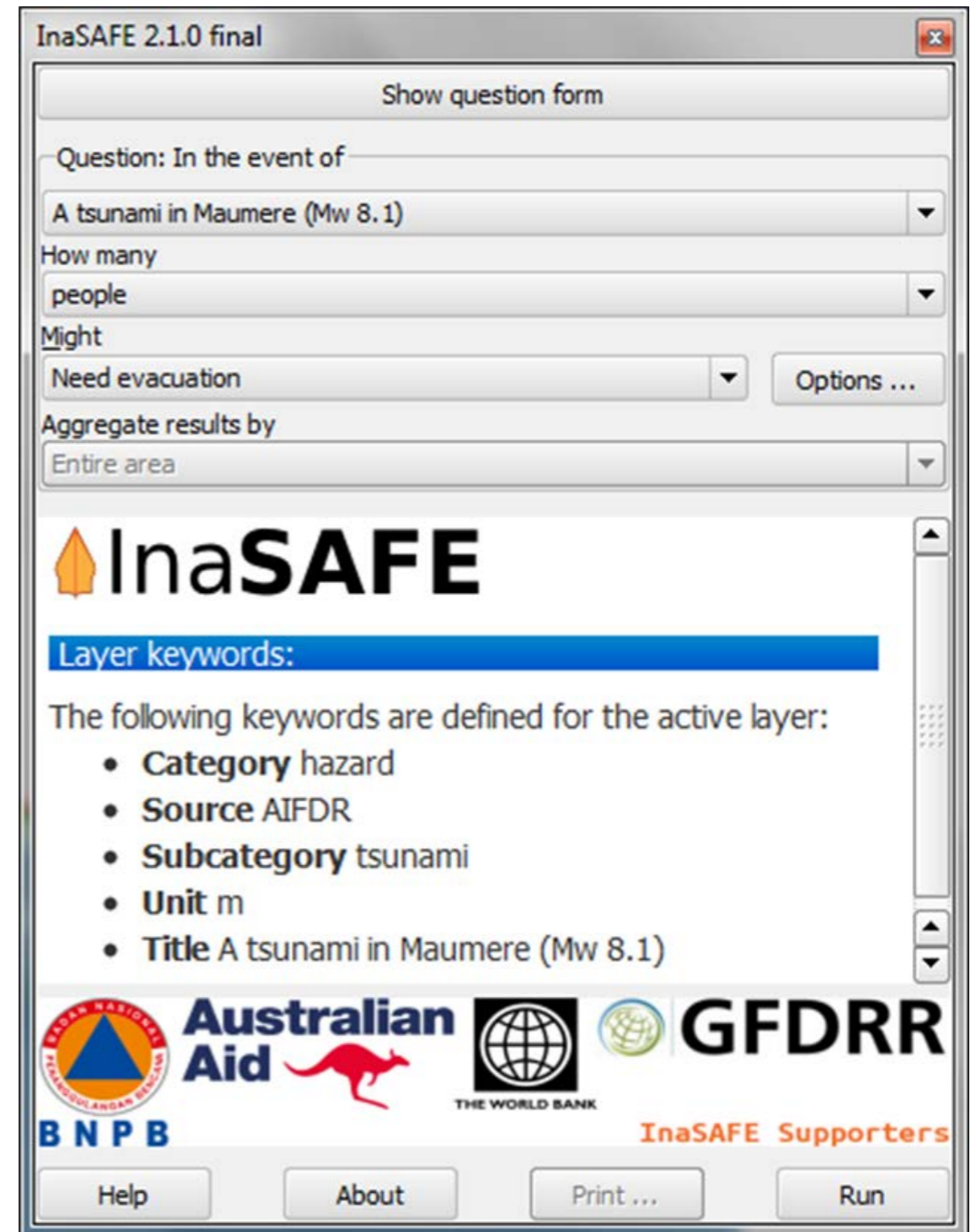


AUSTRALIA-INDONESIA
FACILITY FOR
DISASTER REDUCTION



Overview

Disaster managers are working with the **community** in *<location>* to prepare a **contingency plan** for a possible *<event>* in the future. The **Disaster managers** run an **impact function** for the *<event>* in **InaSAFE**.



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Overview

They use modelled **hazard** and **population** data to determine the *<number of people>* that might *<need evacuation>* and plan to prepare a warehouse with **rice**, **water & family kits** using the **InaSAFE** *<minimum needs>* report and *<action list>*.

The screenshot shows the InaSAFE 2.1.0 final software interface. The main window displays the following information:

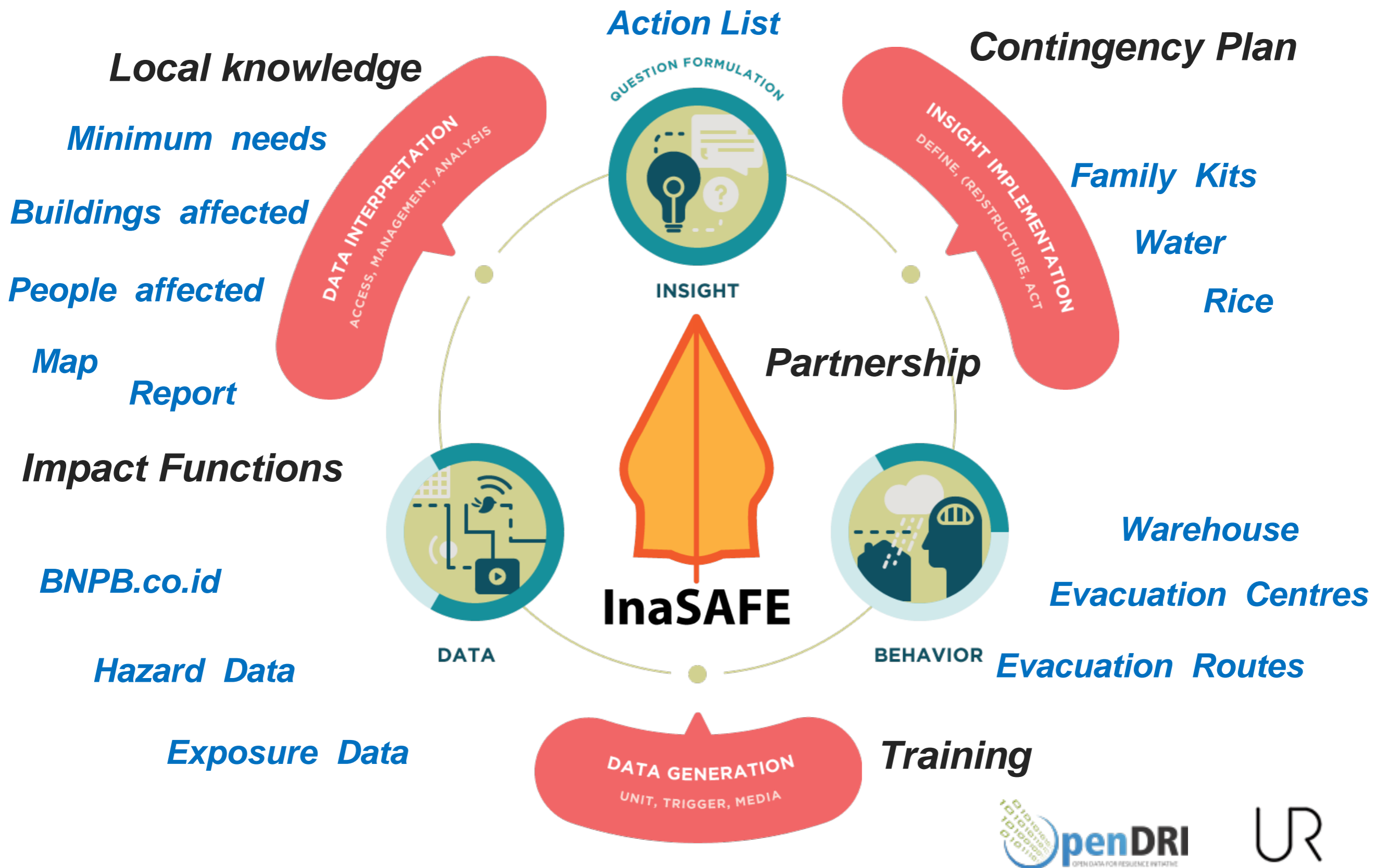
- InaSAFE** logo and title.
- Analysis Results** section with the question: "In the event of a tsunami in maumere (mw 8.1) how many people might need evacuation".
- Result: "People in 1.0 m of water" with a value of **4,000*** (circled in red).
- Footnote: "* Number is rounded to the nearest 1000".
- Text: "Map shows population density needing evacuation".
- Text: "Table below shows the weekly minimum needs for all evacuated people".
- Needs per week** table:

Needs per week	Total
Rice [kg]	11,200
Drinking Water [l]	70,000
Clean Water [l]	420,000
Family Kits	800

The table rows for Rice, Drinking Water, and Family Kits are circled in red. The footer includes logos for BNPB, Australian Aid, THE WORLD BANK, and GFDRR, along with the text "InaSAFE Supporters". Buttons for Help, About, Print..., and Run are visible at the bottom.



Position within framework



InaSAFE

Open source software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities.

- Developed in partnership by the Australia-Indonesia Facility for Disaster Reduction (AIFDR) and the World Bank – GFDRR
- Continues to be shaped by a close working relationship within AIFDR between BNPB and the Australian Government (Australian Aid & Geoscience Australia)
- <http://inasafe.org>



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Challenges & Opportunities

Challenges

- Uncertainty arising from inconsistent data extents (coastlines) in modelled hazard and population data.
- Explaining a five fold change in the number of affected people when “better” population models are used.

Opportunities

- Willingness of agencies to share spatial data to improve modelled data products.

