INDONESIA DISASTER LOSS & DAMAGE DATABASE

THE SCOPE OF DATA IN THE DRSF BASIC RANGE OF DISASTER-RELATED STATISTICS

Ridwan Yunus

Information Management Specialist - UNDP/BNPB

Building Disaster Database in INDONESIA

2006

UNDP introduced the technology "DesInventar"

2007

- Handover DesInventar to BNPB
- Establishment of communication forum Data & Information Management Disaster.

2008

DIBI Launching

2009

- Training
- Socialization in some provinces
- Mainstreaming gender into DIBI
- Disaster Prone Area Index 2009
- PNPM MIS, DesInventar and Dibi Interface

2010

- Training
- Socialization in some provinces
- Launching DIBI Provinces
- Provincial HDRI

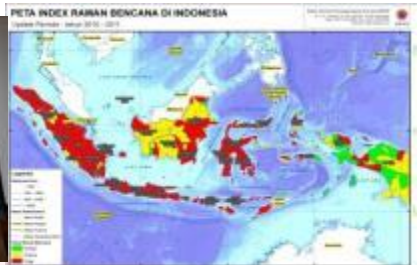
2011

- Training
- Socialization in some provinces
- Launching DIBI Provinces
- Provincial HDRI
- Disaster Prone Area Index 2010

2014

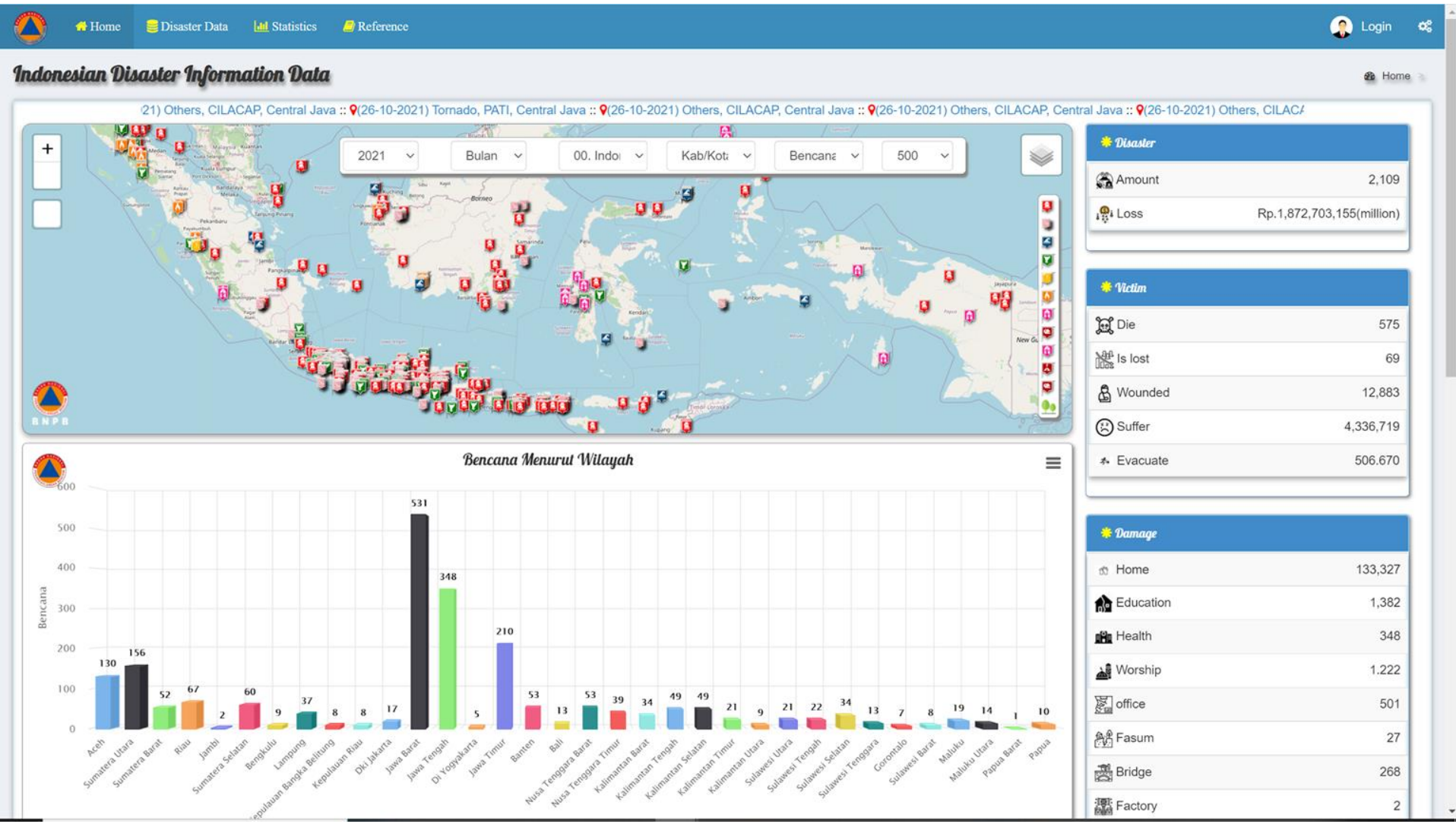
Integration DIBI with Baseline data

2021



- Name of Database : Disaster Data and Information of Indonesia (DIBI)
- URL of Database: http://dibi.bnpb.go.id
- Sources of Data : Government of Indonesia
- Period of Data : 1815 – 2021
- Host agency: National Agency for Disaster Management (BNPB)
- Staff : 1 of Head of Data Information & PR Centre and 23 staffs
- Data collection: Using paper-based data collection format from government validated data

https://dibi.bnpb.go.id



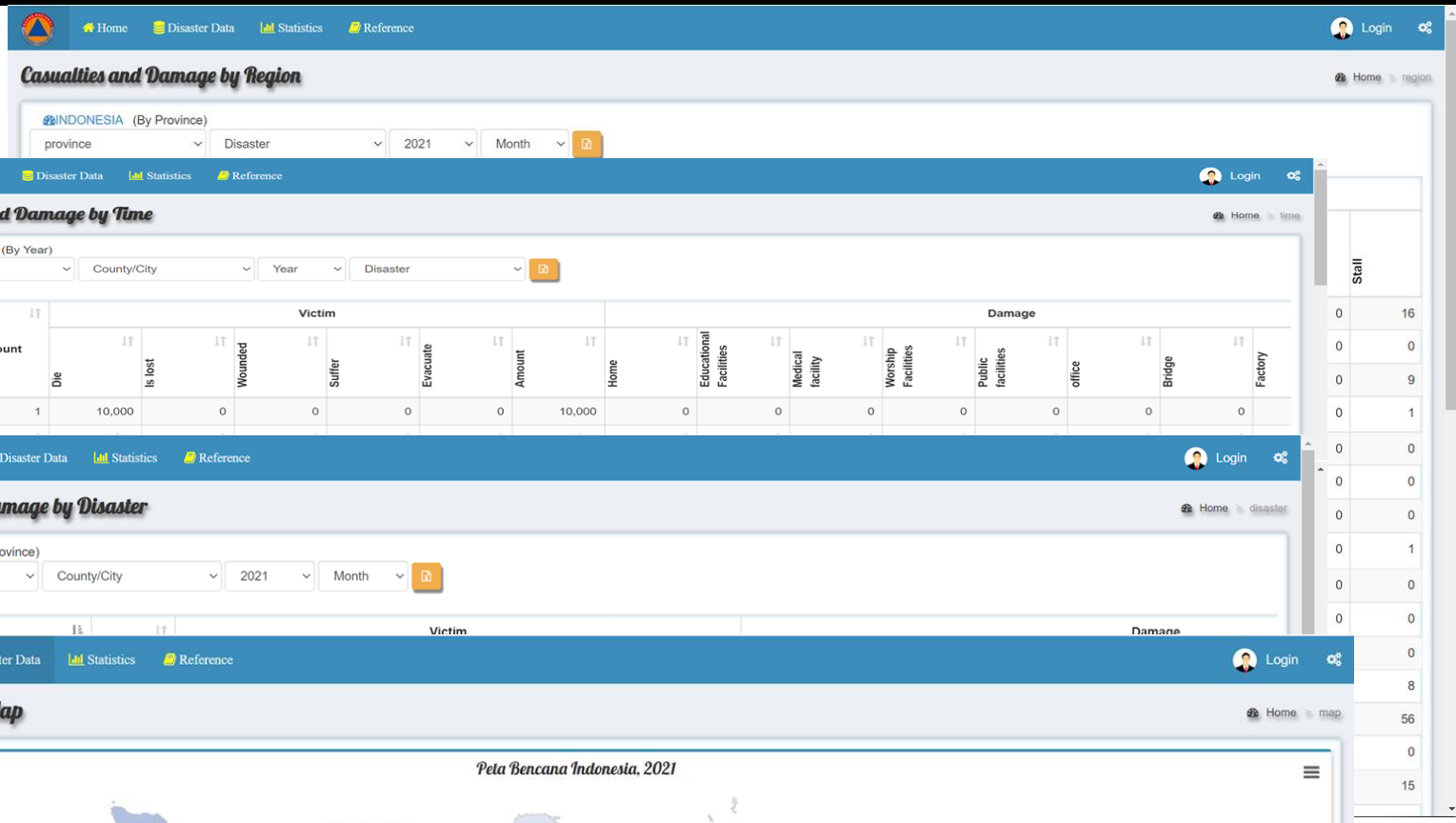
Statistics

BY REGION

BY PERIOD

BY HAZARD TYPES

IN MAP FORMAT



Applications at global and national levels

Global Assessment Reports (GAR) on DRR - 2009, 2011, 2013, 2015

Extensive intensive risk analysis

Disaster risk and poverty analysis

Poverty monitoring

Allocation of funds based of levels of risks

Local disaster management plans

InaRisk (Indonesia)

Monitoring of indicators of SFDRR and SDGs

Preparation of national, state and district disaster management plans

Insights from the analysis

Monitoring of a range of indicators across sectors

Tracking of allocation by the national government to districts

Setting up loss reduction targets

Validation of risk assessment models

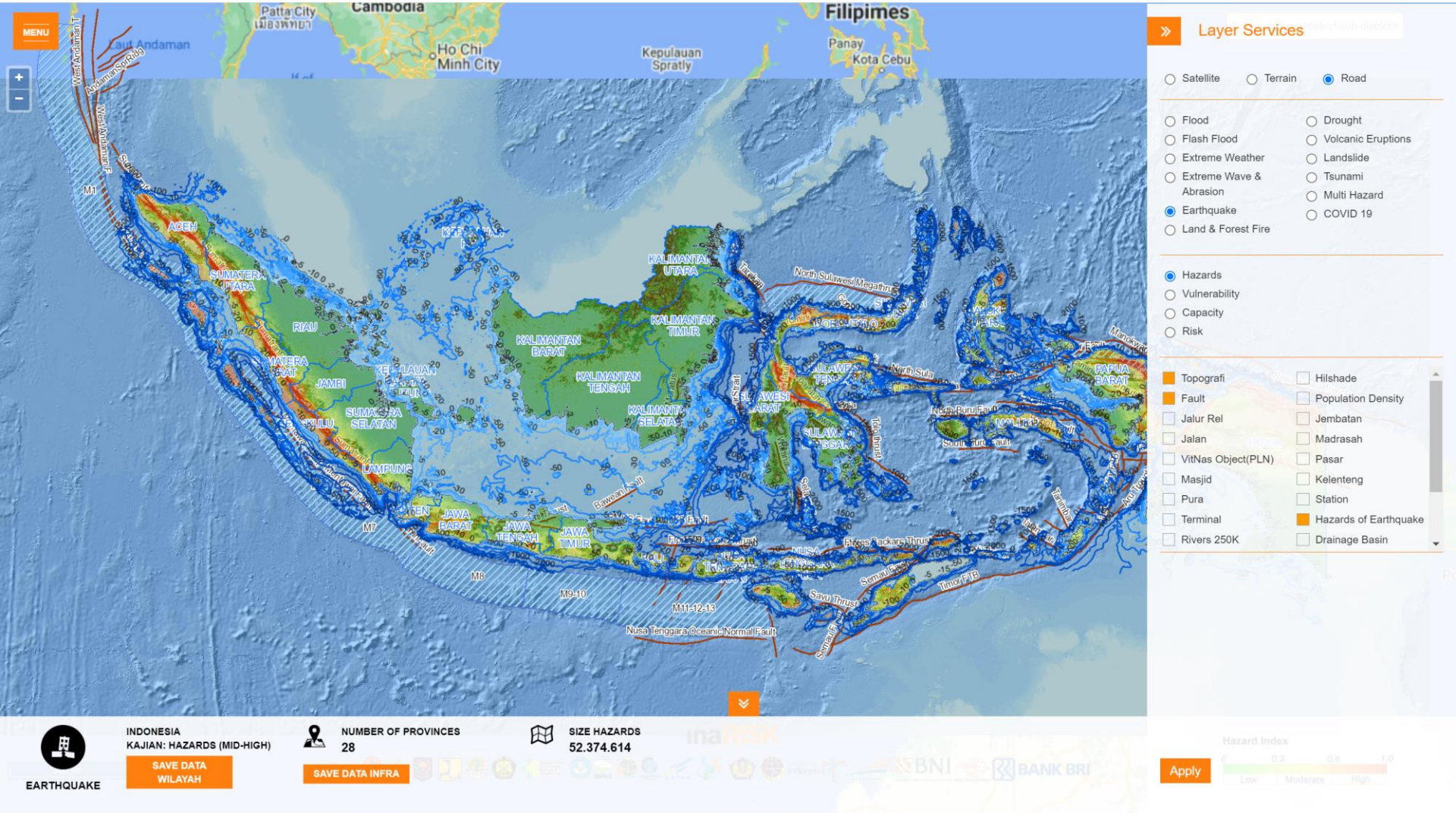
Modelling of potential losses from future disaster events

Supporting in-depth research

inaRISK

how risky is your place?

http://inarisk.bnpb.go.id



inaRISK
how risky is your place?

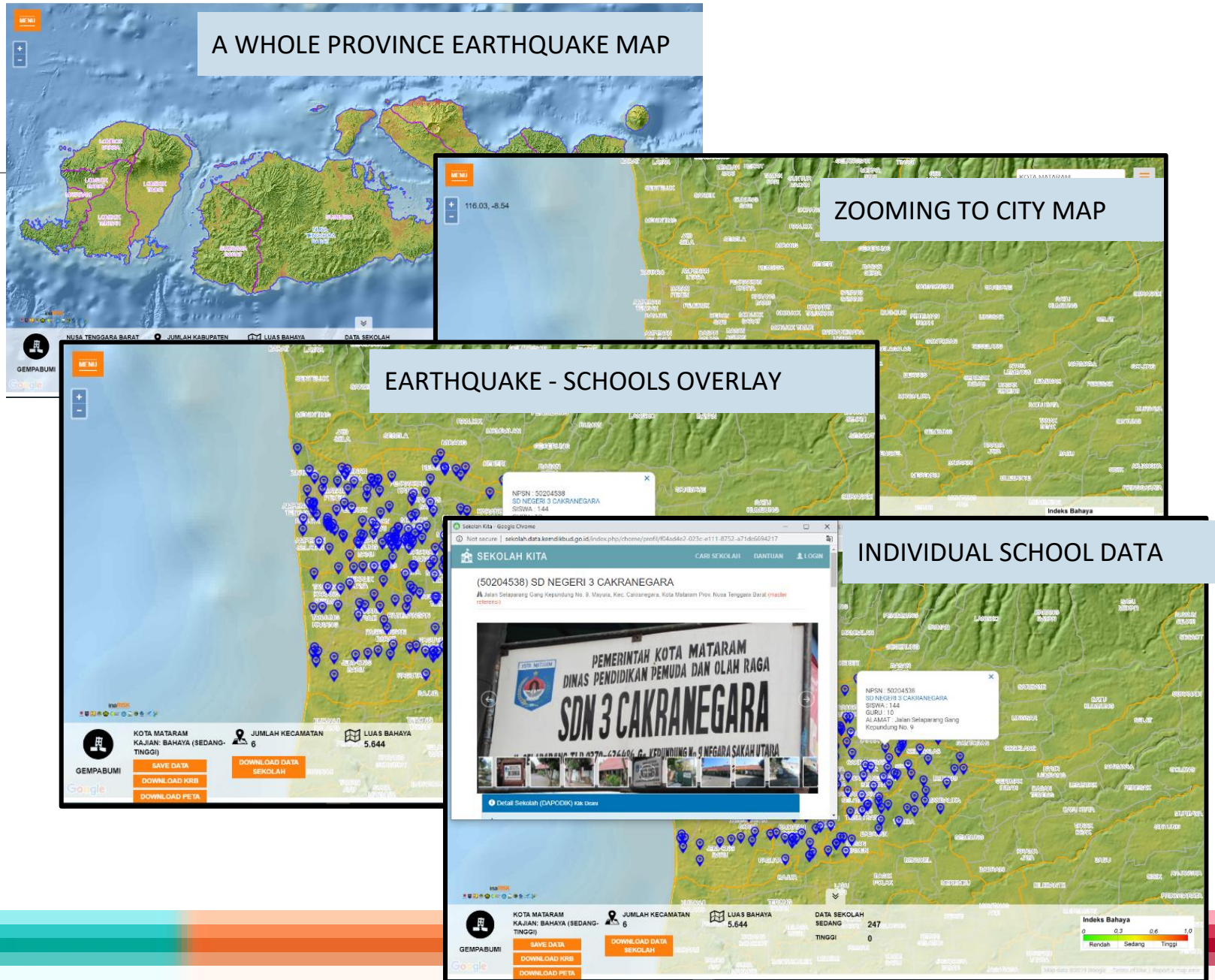
InaRISK is the results of risk assessment portal using ArcGIS server, consists of :

1. Potential hazards
2. Potential population affected
3. Potential physical losses (Rupiah)
4. Potential economic losses (Rupiah) and
5. Potential environmental damage (hectare)
6. Monitoring tool for disaster risk reduction index.

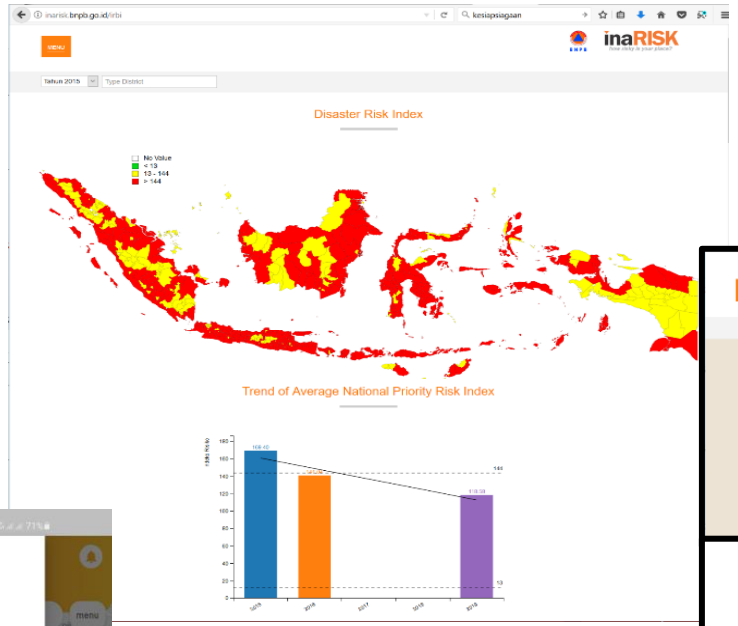
inaRISK as a portal for the sharing of spatial data:

1. Tool dissemination of disaster risk assessments.
2. Support central government, local government, and the parties to strategize the implementation of programs, policies, and activities to reduce disaster risk at the national and sub national levels.
3. Provides spatial data for further analysis, such as MHEWS, Global Centre Disaster Statistics (GCDS), spatial planning, etc.

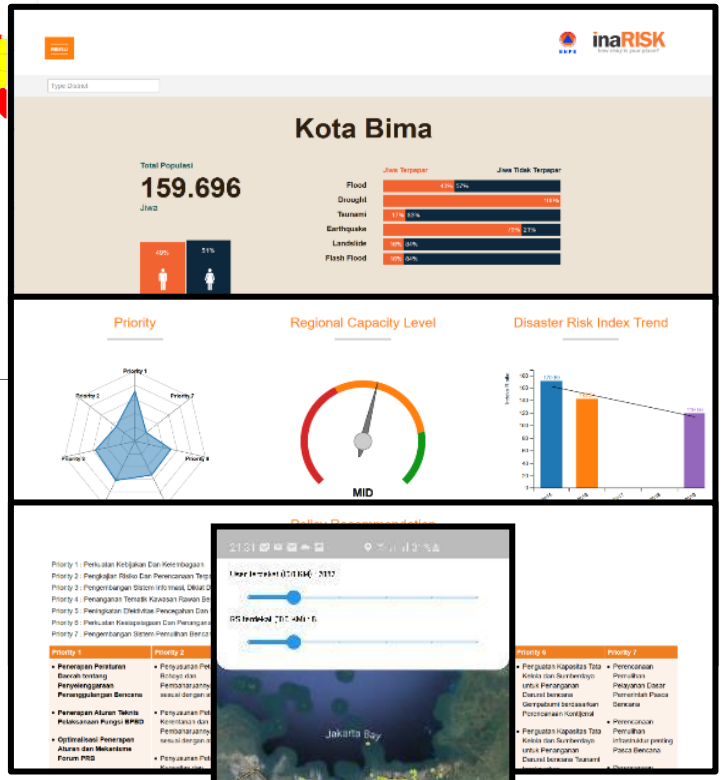
EARTHQUAKE HAZARD MAP OF EAST NUSA TENGGARA PROVINCE

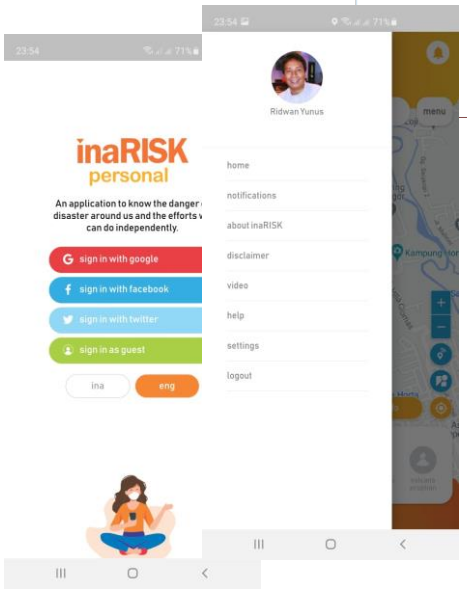


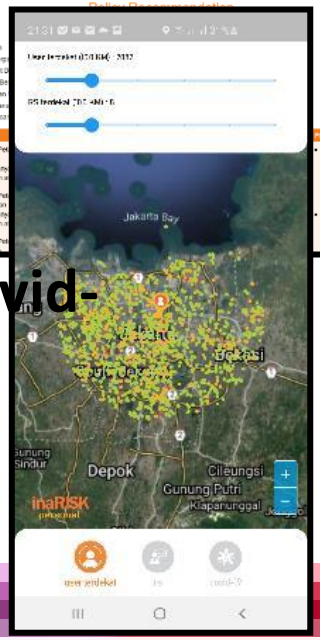
DISASTER RISK INDEX



DISTRICT DISASTER RISK INDEX





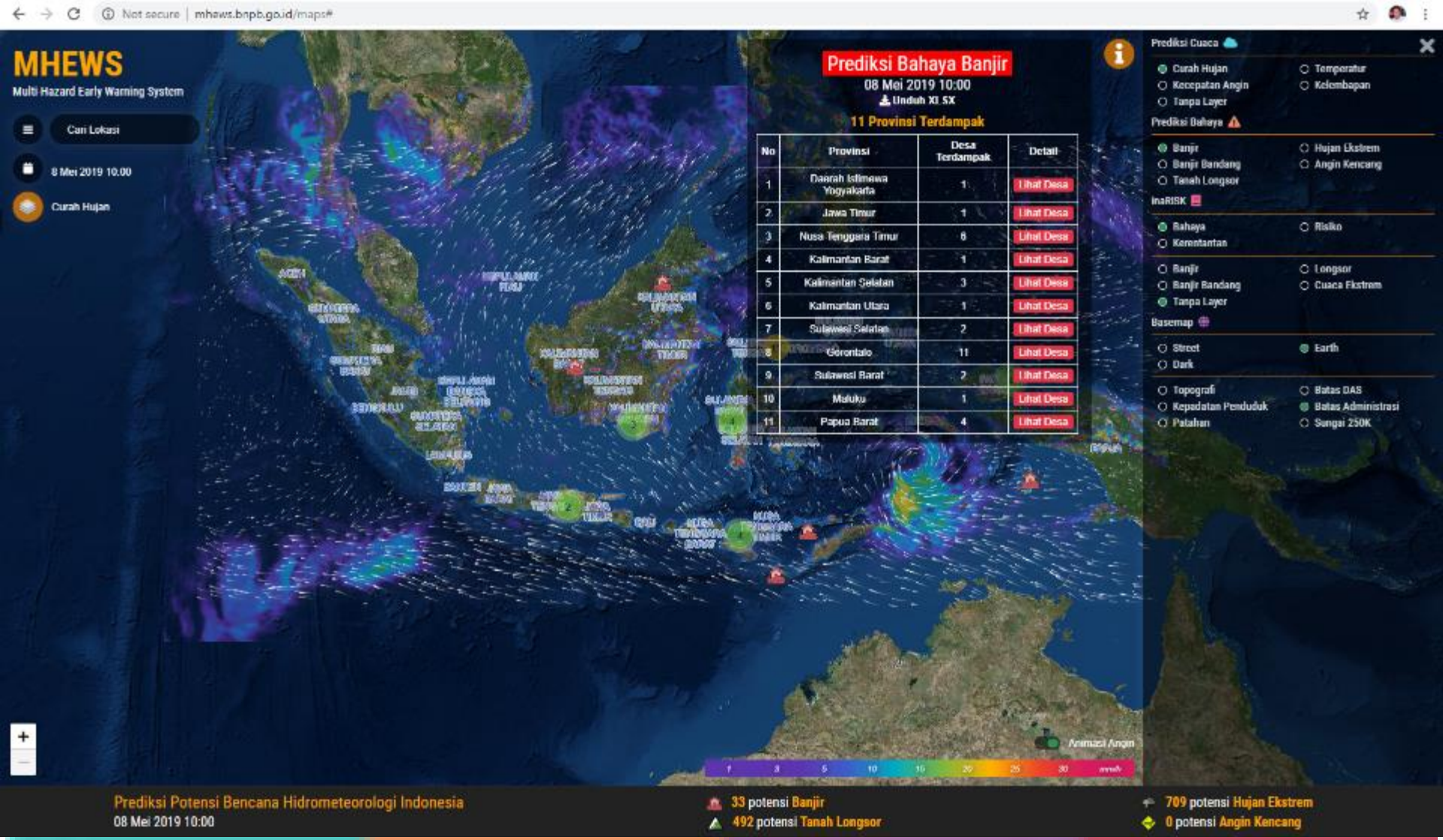


InaRISK Personal/Covid-19

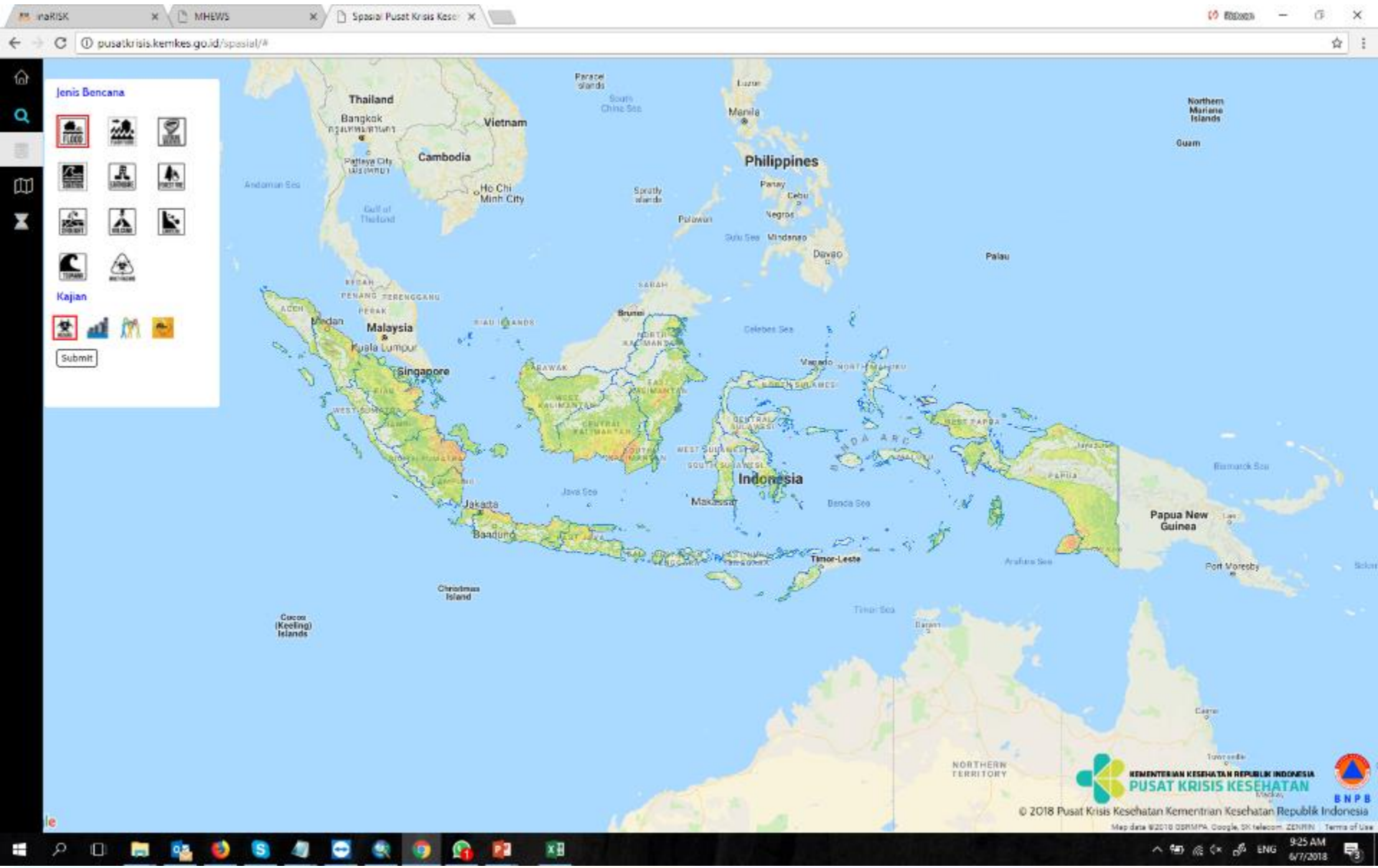
- Individual
- Family
- Communities

InaRISK Personal

INTEGRATED INARISK WITH MULTI HAZARD EARLY WARNING SYSTEM (http://mhews.bnpb.go.id)



INTEGRATED INARISK WITH CRISIS CENTER OF THE MINISTRY OF HEALTH (http://pusatkrisis.kemkes.go.id/spasial)



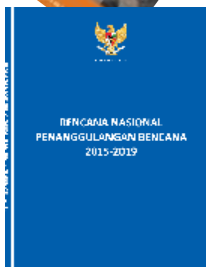
RISK ASSESSMENT OUTPUT IN INDONESIA?

Risk distribution in spatial view

Number of potential exposure

- Population
- Economic
- Environment

1. Indonesia Risk Map

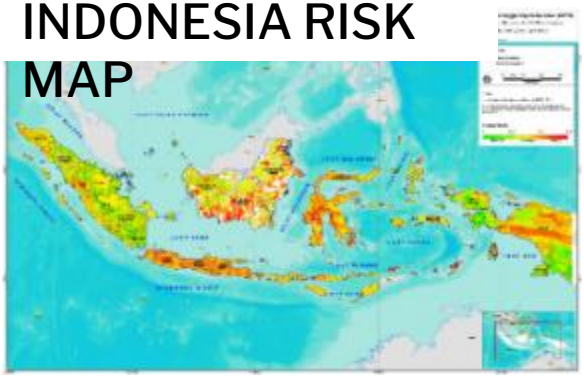


Recommendation actions on specific location

2. Indonesia Risk Index

RISK ASSESSMENT OUTCOME

INDONESIA RISK MAP

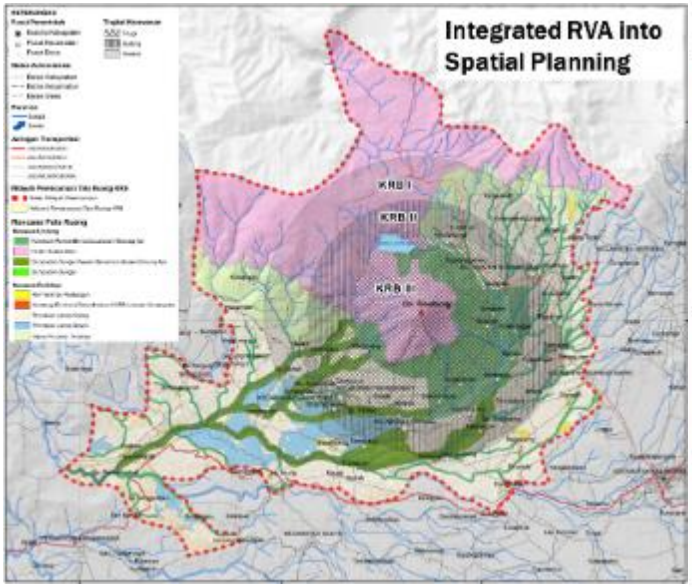


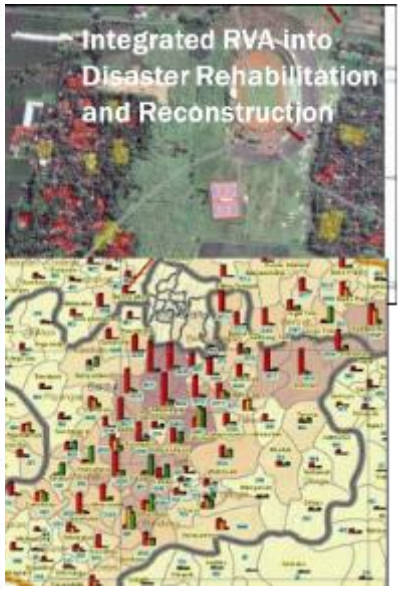
Small scale : 250 K/50 K/25K

- Spatial Planning
- Planning Disaster Management Plan
- Disaster Risk Index

Large scale : 10 K/5 K

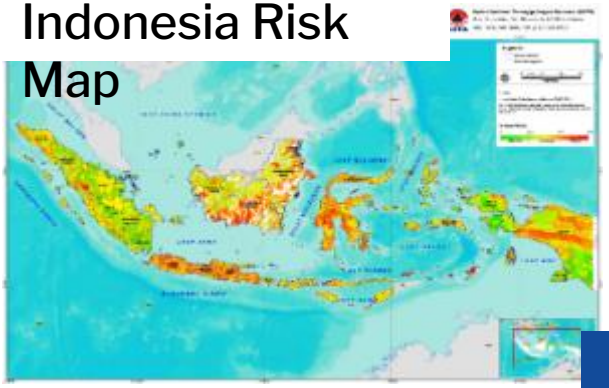
- Evacuation plans
- Rehabilitation and reconstruction

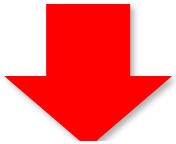




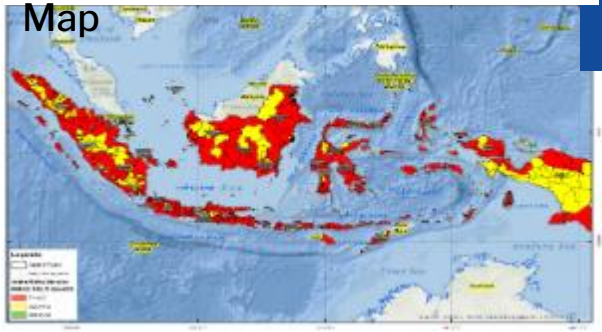
RISK ASSESSMENT OUTCOME

Indonesia Risk Map





Indonesia Disaster Risk Index Map



...based on the request of the Ministry of Finance, as the basis for determining the priority of the Special Allocation Fund for Disaster Management, BNPB produce Indonesia disaster risk index (IRBI 2013) for nine types of threats (multi-hazard).

IRBI 2013 is also used as a target in the National Medium Term Development Plan 2015-2019

Goal:
Lowering the Disaster Risk Index in the centers of economic growth at high risk

SUPPORT IMPLEMENTATION DISASTER LOSS DATABASE

- Indonesia : https://dibi.bnpb.go.id
- Cambodia : http://camdi.ncdm.gov.kh
- Myanmar : http://www.mdld-rrd.gov.mm
- SriLanka : http://www.desinventar.lk:8081
- Philippines : offline
- Maldives : https://ndmc.desinventar.egov.mv
- Nepal : https://www.desinventar.net
- Papua New Guinie : offline
- Timor Leste : http://tldd.mss.gov.tl
- Mauritius : offline
- Laos : https://www.desinventar.net

Thanks for your attention!