

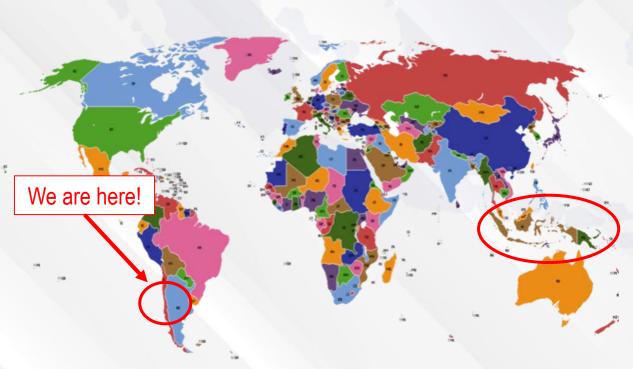
**INCEPTION REPORT ON** 

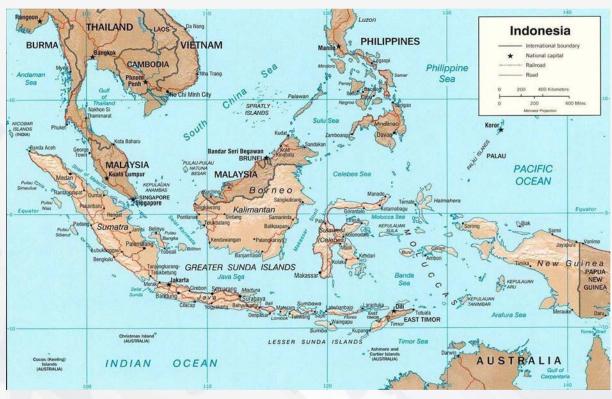
INATEWS AND TSUNAMI DISASTER
MITIGATION ACTIVITY
IN INDONESIA



Earthquake and Tsunami Center
The Agency for Meteorology, Climatology,
And Geophysics

Indonesia is an archipelago nation in Southeast Asia region, consisting more than 17,000 island. The country shares borders with Papua New Guinea, East Timor, and the eastern part of Malaysia, Singapore, Vietnam, Thailand, the Philippines, and Australia. The country is located between two big oceans (Pacific and Indian).





- Official Name
- Capital City
- Population
- Area

: Republic Indonesia

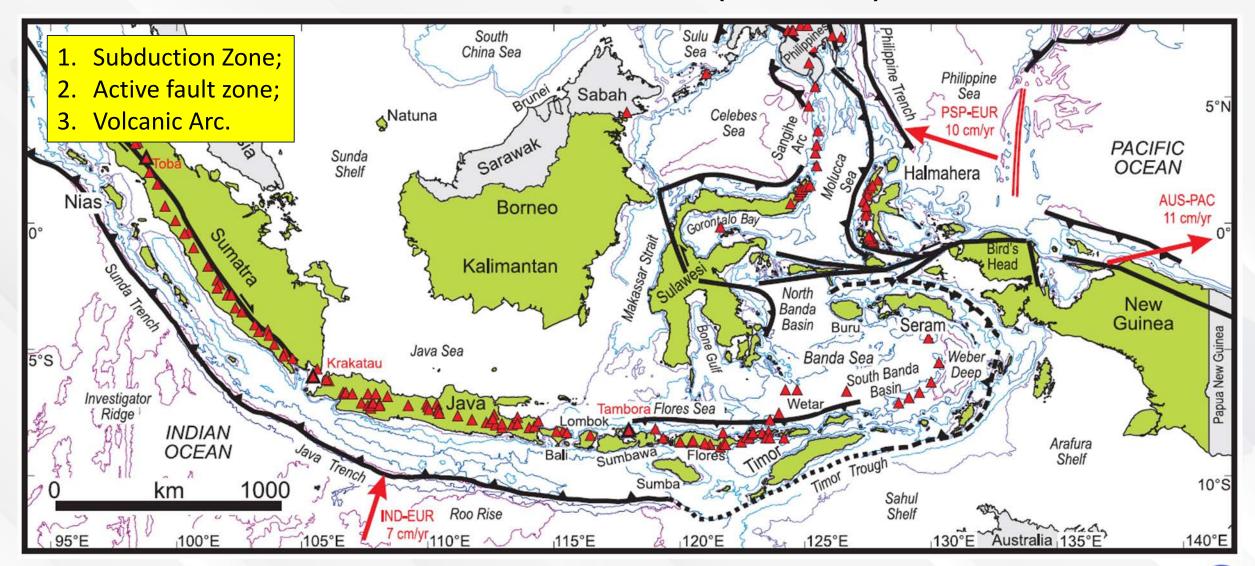
: Jakarta

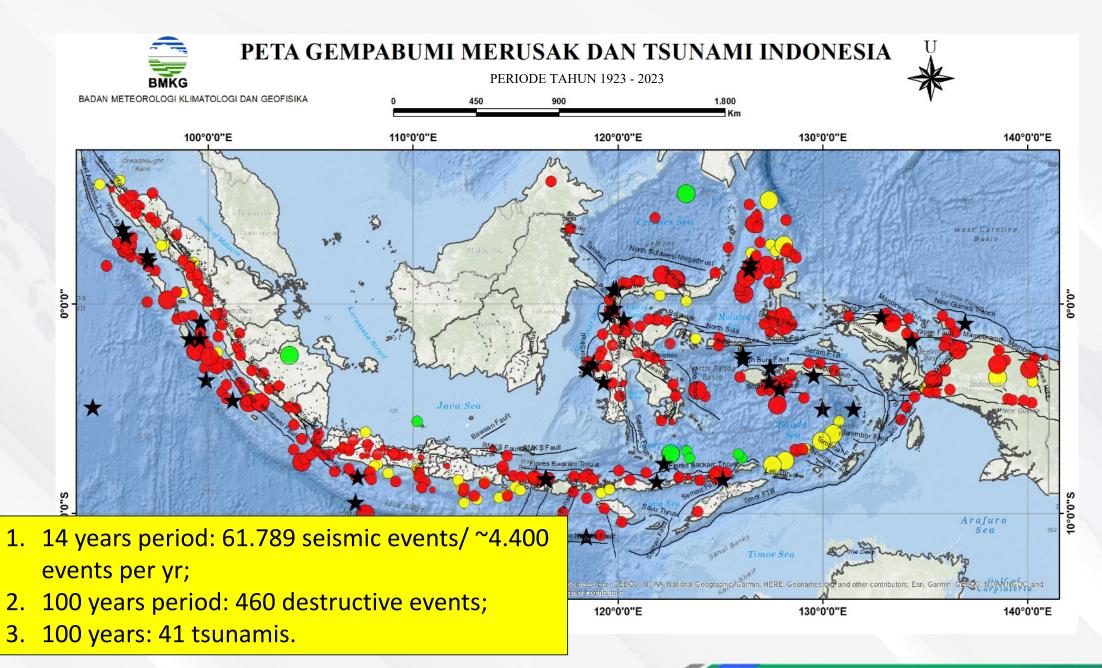
: ~277 million (4<sup>th</sup> most, as of 2022)

 $: \sim 1.9 \text{ km}^2$ 



# **Tectonics of Indonesia (Hall, 2009)**





#### **Tsunami with >100 casualties (1923-2023):**

- 1. 1968 Tsunami Tambu (M7.2), 392 casualties
- 2. 1977 Tsunami Sumba (M8.3), 316 casualties
- 3. 1979 Tsunami Lembata (vol. induced), 1239 casualties
- 4. 1992 Tsunami Flores (M7.8), 2000 casualties
- 5. 1994 Tsunami Banyuwangi (M7.8), 390 casualties
- 6. 1996 Tsunami Biak Papua (M8.2), 110 casualties
- 7. 2004 Tsunami Aceh (M9.2), >200.000 casualties
- 8. 2005 Tsunami Nias (M8.5), 300 casualties
- 9. 2006 Tsunami Pangandaran (M7.7), 668 casualties
- 10. 2010 Tsunami Mentawai (M7.8) 428 casualties
- 11. 2018 Tsunami Palu Donggala (M7.4), 2045 casualties
- 12. 2018 Tsunami Sunda Strait (Landslide induced), 426 casualties



Palu 28 Sep. 2018

Sunda Strait 22 Dec. 2018



Mentawai 25 Oct. 2010



Aceh 26 Dec. 2004



Banyuwangi 3 Jun. 1994



Pangandaran 17 Jul. 2006



## INDONESIA TSUNAMI EARLY WARNING SYSTEM (INATEWS)

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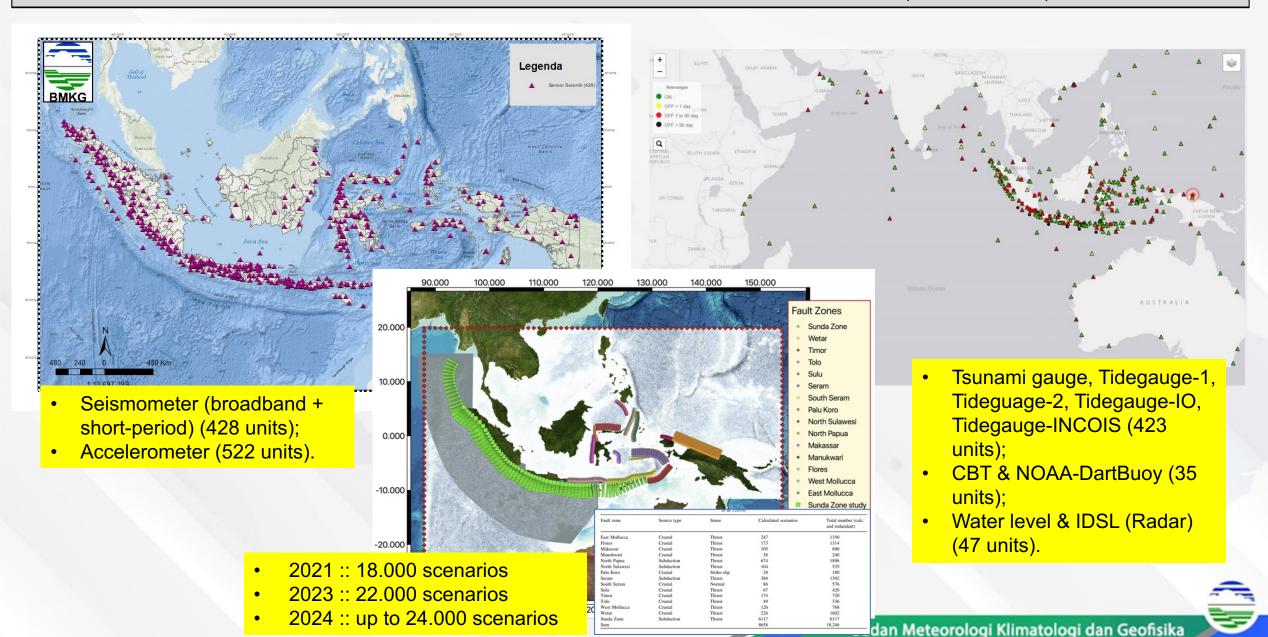


InaTEWS as operated by the BMKG, has rensponsibilities to:

- Monitors seismic activity and sea surface level;
- Produces earthquake information and tsunami early warning;
- Disseminates information and warning to the general public and stakeholders (NDMO/LDMO/Army/Police Forces/Ministry/Media).

Appropriate response from the affected community to minimize impact

## INDONESIA TSUNAMI EARLY WARNING SYSTEM (INATEWS)



## INDONESIA TSUNAMI EARLY WARNING SYSTEM (INATEWS)





# APLIKASI SMARTPHONE





Info BMKG

WRS - BMKG







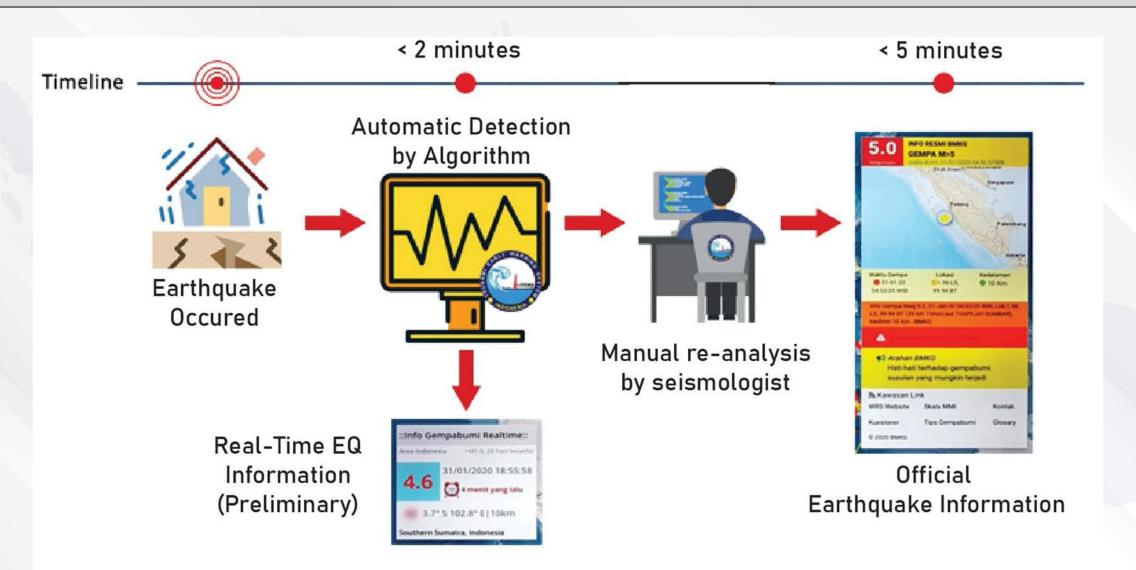
#### WEBSITE

https://inatews.bmkg.go.id https://www.bmkg.go.id

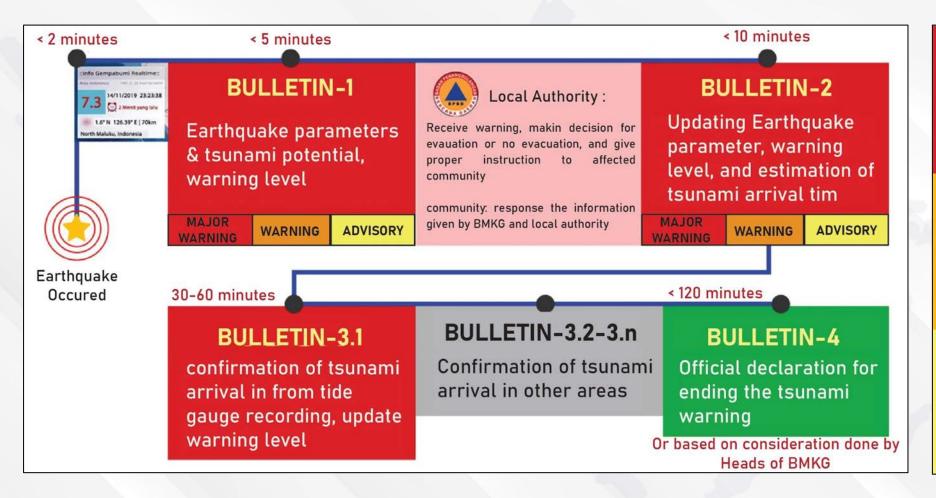
Dissemination modes

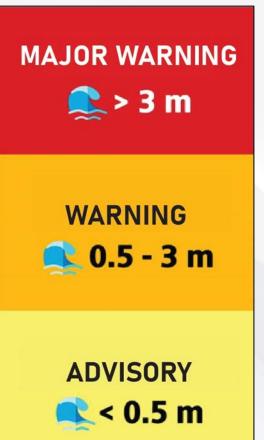


## **SOPs - EARTHQUAKE INFORMATION**

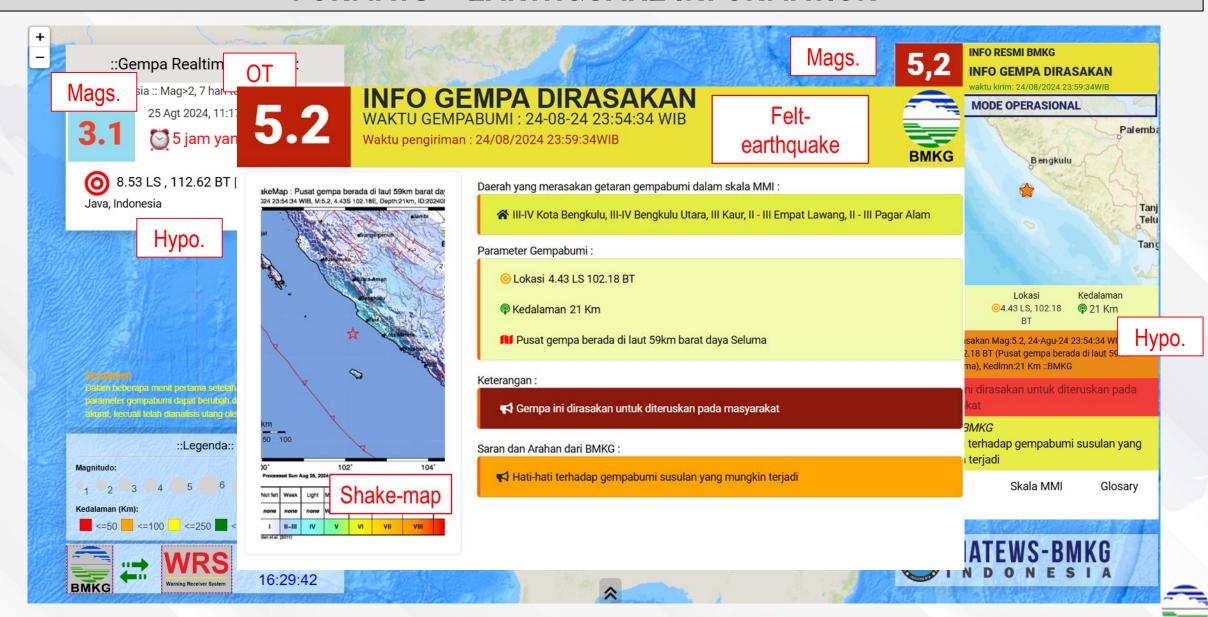


#### **SOPs - TSUNAMI EARLY WARNING**





### **FORMATS - EARTHQUAKE INFORMATION**



### **FORMATS - TSUNAMI EARLY WARNING**

8.7

**WARNING TSUNAMI PD-4** 

WAKTU GEMPABUM 30-05-2022 11:00:00 WIB

Waktu pengirimai 30-05-2022 14:50:00 WIB



PERINGATAN DINI TSUNAMI YANG DISEBABKAN OLEH GEMPA MAG:8,7, 30-MEI-22 11:00:00 WIB, DINYATAKAN :

# BERAKHIR

UNTUK SELURUH WILAYAH INDONESIA.

#### COMMUNITY BASED TSUNAMI MITIGATION - EQ & TSUNAMI FIELD SCHOOL

BMKG conducts capacity-building activities for Disaster Management Stakholders and communities in regional / municipality government level. The main goals is to improve their knowledge and preparedness.





**Hazard map development** 



**Table-top exercise** 



Preparing evacuation route



Response training



# **COMMUNITY BASED TSUNAMI MITIGATION – TSUNAMI READY PROGRAM**



- BMKG has successfully facilitated 10 communities in 10 regencies to receive recognition;
- 9 other communities are currently being assisted to receive the recognition this year.











