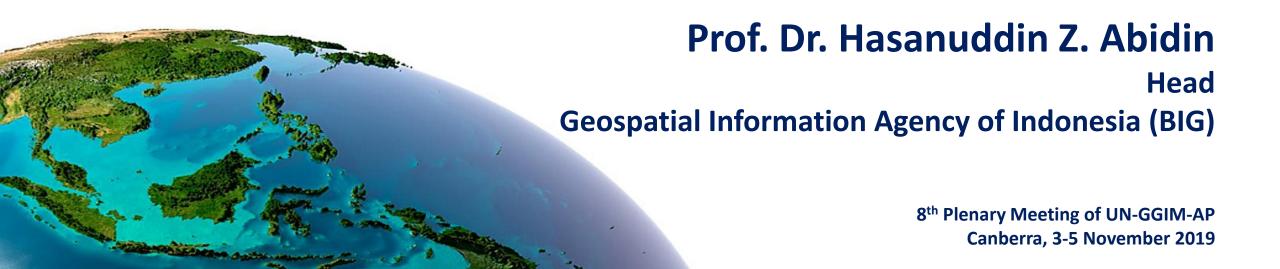
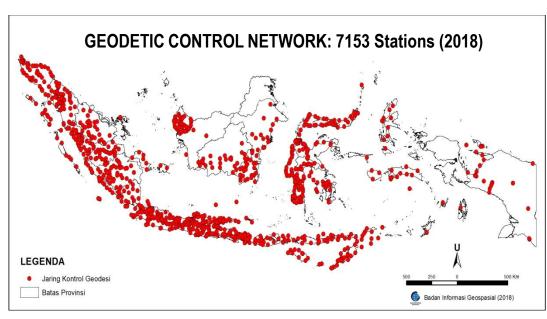


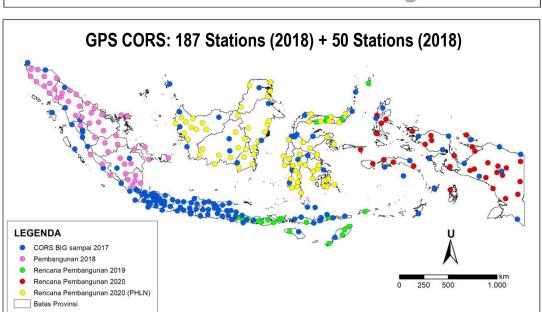
Geodetic Reference Frames of Indonesia: Opportunities and Challenges

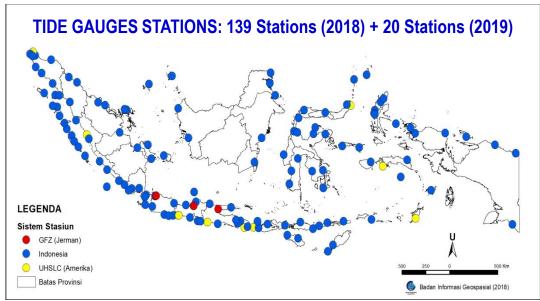


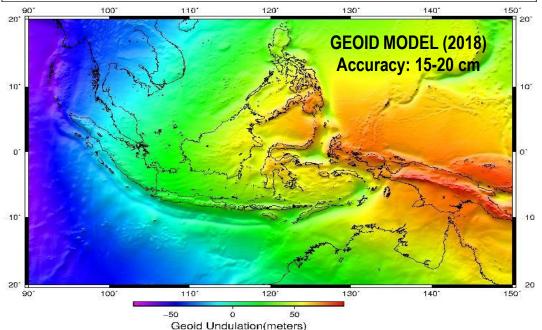
Geospatial Reference Frames of Indonesia











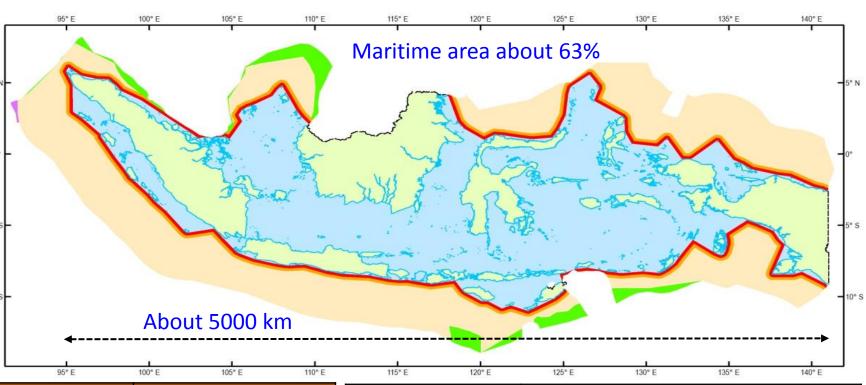
Maritime Continent of Indonesia

INDONESIA

has vast territory and abundant land and

marine resources

Geospatial Information is compulsory for supporting sustainable development of Indonesia and managing its natural resources

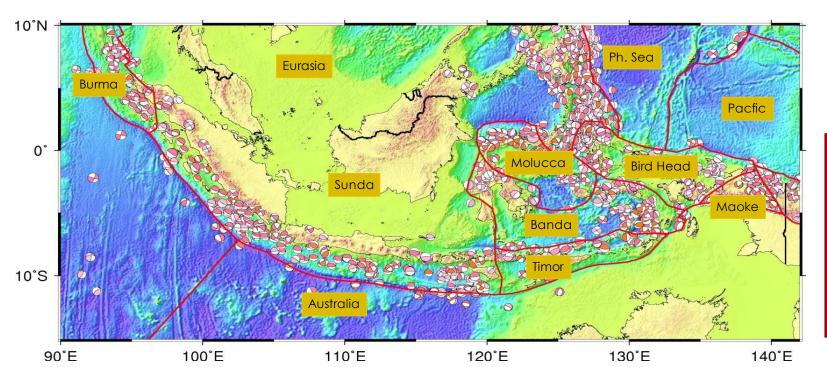


LAND AREA	1.900.000 Km ²
MARITIME AREA: Sovereignty Territory	
 Internal and archipelagic waters 	3.110.000 Km ²
Territorial Sea	290.000 Km ²
MARITIME AREA : Sovereign Right Zone	
Contiguous Zone	270.000 Km ²
Economic Exclusive Zone	3.000.000 Km ²
Continental Shelf	2.800.000 Km ²
MARITIME AREA OF INDONESIA	6.400.000 Km ²
TOTAL AREA OF INDONEA (LAND & WATER)	8.300.000 Km ²

6.671 islands has
d submitted to UN

GRF of Indonesia should cover the whole region of Indonesia, for supporting various positioning, surveying, and mapping activities at various scales.



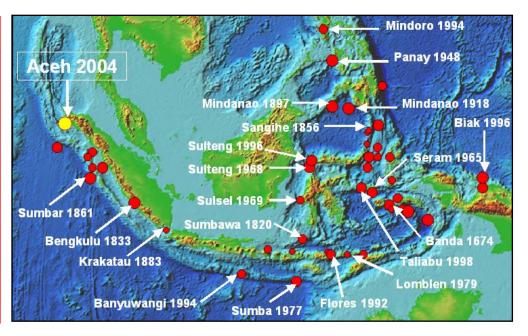


INDONESIA

Home of Natural Hazards

Geospatial Information
(including GRF)
should support Disaster
Risk Reduction
Management activities





- Earthquakes
 - Tsunami
 - Volcano Eruption
 - Flooding
 - Landslide
 - Land
 - subsidence
 - Drought
 - Flooding
 - Forest fire
 - Windstorm



Geospatial-Enabling Smart Cities Program in Indonesia

