



# NSDI AS PLATFORM FOR MULTI-SECTOR APPROACH FOR NATIONAL DEVELOPMENT CASE STUDY: INDONESIA 2014

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#### **INDONESIAN COUNTRY**

•COVERED BY RAIN FOREST •LOCATED AT THREE CONTINENTAL PLATE EURASIA, PASIFIC AND INDO-AUSTRALIA

•PROMT TO ANY KIND DESASTER :

#### HIDRO-CLIMATE DISASTER

- •FLOODS
  •DROUGHTS
  •BUSH FIRE
- EARTHQUAKES
  - •TECTONIC
  - •VOLCANIC
  - LAND SLIDES
  - •TSUNAMI

ACEH EARTHQUAKE AND TSUNAMI - 26 DEC 2004











## **NATIONAL PRIORITIES AGENDA** ONE MAP POLICY IN 2015-2019





#### Reference

Standard

Geodatabase

GeoPortal

"Geospatial Information are needed by all government institutions, local governments and communities to improve quality of decision making in all aspects of national development."

• Source: Presidential Decree No. 2/2014

### VARIOUS PROBLEMS RELATED TO GEOSPATIAL DATA



- Colaboration and Synergy between each Stake Holder constitutes an absolute prerequisite;
- Opportunity for the Government, Private, Academic, and Public Sectors activities to perform the constellation of Partnership.

### THE ROLE OF GEOSPATIAL INFORMATION FOR SUPPORTING DISSATER AND EVACUATION MANAGEMENT



#### Plantations on Forest Fire Mapping



#### **Earthquake Risk**



Police Facilities Distribution on Earthquake Prone Regions



Rob Disaster Study on unemployment



# DEVELOPMENT PLANNING IN THE FUTURE



# INFRASTRUCTURE MANAGEMENT AND PLANNING





## **INDONESIAN SUSTAINABLE DEVELOPMENT**

### **GROWTH OF CITIES IN INDONESIA**



Typology of *Autonomous Cities* in Indonesia Year 2006-2013



Until **2012**, city growth rate is **19%** per year; Medium cities with total population of **100.000**-**500.000 is the largest proportion among all** (Bappenas, 2012).

The autonomous district and city in Indonesia until 2013 are 539, including the 93 cities (Bappenas, 2012).

Autonomous City	Population
Small Cities	< 100.000
Medium Cities	100.000 - 500.000
Large Cities	500.000 - 1.000.000
Metropolitan Areas	> 1.000.000



## **NATIONAL PRIORITY AGENDA** NATIONAL MARITIME DEVELOPMENT 2015-2019







# **NATIONAL PRIORITY AGENDA** NATIONAL MARITIME DEVELOPMENT 2015-2019



#### Geospatial Technique to support Cilamaya Port Development

Ports are essential for economic growth, Cilamaya Port Development has been proposed to anticipate:

- 1. Projected 19.5M TEUS of goods in 2030.
- 2. Rapid growth in Bekasi-Karawang Industries Corridors.
- 3. Heavy Traffic of Passanger and Cargo on Karawang-Tanjung Priok Highway and Toll Roads









### IMPACT ON PADDY FIELD AND ENVIRONMENT (SPATIALLY) IN KARAWANG IN <u>2015</u>







#### IMPACT ON PADDY FIELD AND ENVIRONMENT (SPATIALLY) IN KARAWANG IN <u>2020</u>







### IMPACT ON PADDY FIELD AND ENVIRONMENT (SPATIALLY) IN KARAWANG IN <u>2015</u>







#### IMPACT ON PADDY FIELD AND ENVIRONMENT (SPATIALLY) IN KARAWANG IN <u>2030</u>







#### ENGINEERING ADJUSTMENT TO PRESERVE PADDY FIELD RECOMMENDATION FOR DECISION MAKING





Source: Ministry of Transportation







- 1. Geospatial Information should be promoted as an integrator of information in all phases of national development cycle.
- 2. Indonesia's recent experiences in constructiong medium term (5 yearly) of national development, geospatial accounting in term of measurement, reporting and verification are potential tool for not only planning, but also in monitoring, controling and evaluation of national development.
- 3. Government of Indonesia will be focus on large scale surveys and mapping (scale 1;1000 and 1:5000) to support detailed spatial planning program, economic development and disaster management.
- 4. Multi-sectors approach uses various geospatial information from many source. Single Geodetic Reference System is "a must to be stated and implemented" by all map producers and users.
- 5. Multi-sectors approach or national development needs stable institutional arrangement, well-informed policy making, and skillful human resource. These elements of Spatial Data Infrastructure (SDI) can be achieved with good and consistent leadership on "one map policy".





# **THANK YOU**