ONE MAP, ONE DATA POLICY:
A CHALLENGE FOR INTEGRATION

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SUNTEC CONVENTION AND EXHIBITION CENTRE, SUNTEC CITY, SINGAPORE
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Indonesia has abundant LAND and MARINE natural resources.

Geospatial Information is compulsory these natural resources.

<table>
<thead>
<tr>
<th>SOVEREIGNTY ZONE</th>
<th>in km²²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Internal Waters and Island</td>
<td>3.092.085</td>
</tr>
<tr>
<td>2. Territorial Waters</td>
<td>282.583</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOVEREIGN RIGHT ZONE</th>
<th>in km²²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Economic Exclusive Zone</td>
<td>2.936.345</td>
</tr>
<tr>
<td>2. Continental Zone</td>
<td>2.749.001</td>
</tr>
<tr>
<td>Continental Zone &gt; 200 nm</td>
<td>4.209</td>
</tr>
<tr>
<td><strong>Maritime Area (km²²)</strong></td>
<td><strong>3.223.137</strong></td>
</tr>
<tr>
<td><strong>Land Area (km²²)</strong></td>
<td><strong>1.890.739</strong></td>
</tr>
</tbody>
</table>
integrate topographic map, coastal and marine area map


**Topographic Map (RBI)**
- cover land area only
- coastline using Mean Sea Level (MSL)
- MSL as vertical reference
- Map Scale : 1:1,000,000 to 1:1,000

**Coastal area Map (LPI)**
- cover coastal area (60%-70% land area and 30%-40% marine area)
- coastline using lowest tide level
- MSL as vertical reference on land area and lowest tide level as vertical reference on marine area
- Map scale : 1,250,000 to 1,10,000

**Marine area Map (LLN)**
- cover most of the marine area
- coastline using lowest tide level
- Lowest tide level as vertical reference
- Map Scale : 1,500,000 to 1,50,000

**Act: 11/2020 and Goverment Ordinance : 45/2021**

**Topographic Map (RBI)**
- cover land, coastal and marine area
- coastline using Mean Sea Level (MSL) integrated with lowest tide level
- Geoid as vertical reference
- Map Scale : 1,100,000,000 to 1,10,000

there is only one type of basemap which is RBI (Rupabumi Indonesia)/Topographic Map. RBI integrates all element of the base map, both on land, coastal and marine
The natural resource account is agreed upon in four components: land, forest, water resources, and mineral.

**Land**
- A component of the natural resource account.
- Geospatial Information Agency took initiative to integrate the account.
- Forming a sectoral "natural resource account component.

**Forest**
- A subsystem of the physical environment.
- Consists of trees and other vegetation.
- Land use and land cover.

**Water**
- Consists of all water found on, above, or below the earth's surface, including surface water, groundwater, rainwater, and sea water.

**Mineral**
- A concentration or occurrence of material with economic value on or above the earth's crust, of a certain form, quality, and quantity that has the potential to eventually be economically extracted.

In your components, land, forest, water resources, and mineral, the physical environment consists of climate, soil, water, vegetation, and objects on or above the earth's crust, of economic value.
cadastral data collection policy in Indonesia

1960 - 1997
- The era in which data collection is marked by the principle of complete village by village and the use of measuring equipment that is still analog, such as theodolites and measuring tapes
- various coordinate system
- analog maps
- analog database

GOVERNMENT ORDONANCE : 10/1960

1960 - 1997
- The transformation of land activities has begun to be carried out towards a digital direction with the introduction of LoC, Desktop KKP, Web KKP and current KKP and continues to experience improvements and capacity building
- TM3 National coordinates system
- Computerized database

GOVERNMENT ORDONANCE : 24/1997

1997 - 2021
- land registration is carried out in a systematic and complete manner, the use of licensed surveyors, the use of modern equipment such as GPS RTK for measurements, drones for work maps and my land survey application.
- Systematic Mapping & Complete Villages (No Gap, No Overlap and No Dispute)
- Tematic Mapping PTPR

GOVERNMENT ORDONANCE : 24/1997

2021 - 2024
- Risk-Based Physical Data Collection
- Realible & Completeness Systematic Mapping towards Complete Indonesia 2025
- Realizing Electronic Ready Data (DSE) & Media Transfer Ready Data (DSAM) in Complete Villages in the context of electronic services
- Single Source Truth/ Valid data schema

EXECUTIVE ORDER : 02/2018

ELECTRONIC ERA
cadastre survey and mapping acceleration
Indonesia's Target 2025: Complete Cities and Complete Villages

1. PTSL Campaign
   • Public Communication Strategy
   • Participatory Work Map Making Activities
     • Demarcation
     • Incentive and Dissincentive

2. Implementation of fit for purpose
   • Basemap creation with Drone
   • Identification of land parcels or binding measurements on Base Map.

3. Comprehensive Measurement & Mapping
   • Measurements in all fields, both registered and unregistered.
   • Adjustment of all old land parcels.

4. PTSL follow-up
   • Omitted in complete city and village locations.
   • Integrate complete village data into district/city government
   • Positive stetsel

5. Residual settlement and quality improvement
   • Invalid land parcel list.

PTSL: complete systematic land registration
spatial data management

Geospatial Information (GI) Implementation
Act No. 4/2011 about Geospatial Information (GI)

ONE MAP POLICY (OMP) IMPLEMENTATION
Presidential Decree 9/2016 about OMP (Presidential Decree 23/2021)
- Compilation
- Integration
- Synchronization

ONE DATA IMPLEMENTATION
Presidential Decree 39/2019 about One Data Indonesia
- Data Planning
- Collecting Data
- Data Inspection
- Data Utilization

1. Data production
2. Submission of data from producer to PIC of Data
A national geospatial information roadmap 2020 – 2045 for Golden Generation of Indonesia’s establishment

- Thematic Geospatial Data Sharing
  - One Map Policy Implementation for Golden Generation of Indonesia
  - Sustain the Indonesian Base Maps and Geospatial Infrastructure maintenance, Strengthen Thematic Geospatial Information (TGI)

- Implementation of Integrated Thematic GI with Base Maps
  - Optimization of TGI for SDGs and Government Data Sharing
  - Strengthen the Geospatial Nodes for National dan Local Governments

- Establishment of Large Scale Base Maps
  - Optimization of Data Custodianship
  - Consolidation of Geospatial Information Management
  - Establishment of Large Scale Base Maps

- BIG Strategic Plan for Thematic GI Provision
  - Human Resources Capacity Building
  - Enhancing the Geospatial Technical Tools
  - Accelerate the Provision of Base Map and TGI for National Development Priority (Quickwin)
Statistical Data from PK21 (Family Registration 2021)

Spatial Data (One Name One Address)

integrate spatial and statistic data for SDGs
Stunting and family at risk of stunting prototype dashboard

President Joko Widodo support integrating Statistical and spatial data activities to help reduce stunting
thank you