

Satellite Remote Sensing Data Policy in Indonesia



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Outline

- Background
- Presidential Decree No. 6/2012
- Laws No. 21/2013 of Space Act
- Closing remarks

Background

- Needs of (very) high-resolution satellite data:
 - Base map
 - Forest boundary
 - Areas of paddy field
 - Areas of mining
 - Space planning
 - Irrigation mapping
 - Census block
 - Disaster's quick reponse/impacts
 - Digital Elevation Model (DEM)
 - etc.
- Since coarse and medium resolution of satellite remote sensing data are commonly free-of-charge, the satellite data policy is mainly valid for high-resolution data (commercial data).

Presidential Decree No. 6/2012

Presidential Decree No. 6/2012 of Satellite High-Resolution Data Provision, Utilization, Quality Control, Processing, and Distribution gives LAPAN mandate to provide satellite high-resolution data for Ministers/Government Agencies, Army, Police, and Local Governments (Provincial/District).

- Satellite high-resolution data is defined as data with spatial resolution \leq 4 meters.
- In addition, LAPAN's obligation includes:
 - a. providing satellite high-resolution data with Government license;
 - b. increasing its capacity and operation of the acquisition system of high-resolution data;
 - c. conducting high-resolution data provision according to the rules;
 - d. doing the radiometric correction of high-resolution data;
 - e. providing metadata of high-resolution data according to Indonesian standard;
 - f. storing high-resolution data; and
 - g. together with Geospatial Information Agency conducting the quality control of the high-resolution data.

Indonesian Space Act (2013)

Gov. of Indonesia just released **Laws No. 21/2013 of Space Act.**

- Satellite high-resolution data provision for Government Institutions and Local Governments could only be conducted by LAPAN.
- Satellite data processing and quality control should refer to methods approved by LAPAN.
- LAPAN would establish the National Remote Sensing Data Bank to store and distribute the data.

Closing remarks

- In order to implement both Presidential Decree No. 6/2012 and Indonesian Space Act (2013), LAPAN has increased its capacity for satellite data direct acquisition, processing, and management.
 - Direct acquisition: Terra/Aqua/NPP (coarse resolution), Landsat-7 and Landsat-8 (medium resolution), and SPOT-5 and SPOT-6 (high resolution)
 - Data processing hardwares and softwares.
 - Data management: National Remote Sensing Data Bank
- With this new mandate, a lot of opportunities for LAPAN to do cooperation domestically and internationally regarding various data provision, data processing methods, data management and service, etc.

*Thank you
for your attention*



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