SIG WORKING WEEK 2023 28 May - 1 June 2023 Orlando Florida USA

Protecting Our World, Conquering **New Frontiers**

Presenting ital Transformation in **Indonesia Land Services**

National Land Data Centre-Ministry of Agrarian and Spatial Planning Indonesia

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Overview: Indonesia Land Services

- Indonesia has more than 500 land offices which applying dual systems: manual and electronic systems;
 Manual system: land titles are in hard copy, Maintenance of land registration data are mostly in manual systems, including transfers, land subdivision and land use (about 120 procedures);
 3. Electronic Services: Mortgage and land information
- systems (4 procedures);
 4. Strategic goals: world standard land services: applies full digital services in 2025;
- 5. Challenges: converting manual archives into digital forms,
- digital literacy and ethics;
 6. Chance: to apply electronic land titles and electronic transfers by 2023











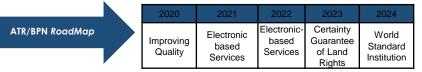




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Digital Transformation: A Roadmap



Digital Transformation

RoadMap

1. Milestone Electronic

land offices

document

Mortgage: applied in several

2. Electronic Information Services

(land checking, land value,

3. Converting manual to digital

land right information)

2020	2021	2022	2023	2024
Improving Quality	Information Modernisati on	Information and Innovation Era	Fully Digital Data	World Standard Institution

- Applied eLectronic mortgage nationally
- 2. Applied Land Information Services nationally
- Withdrawn manual services on mortgage and land information



2020 ELECTRONIC

SERVICES

2019
TRANSFORMATION ERA

- Derivatives regulation of Gov't regulation Number 18/2021
- Improving Gov't revenue on land services by 10 times - Information Services
- Electronic Standard Operating
 Procedure: an update and
 modification
- 4. 60% electronic Land documents Elektronik- validated
- 150 Land Offices ready for applying full digital services
- System Integration and Collaboration between government agencies



2023 FULLY DIGITAL

- Collaboration on Information
 with other government agencies
- More land offices ready for electronic services
- 3. System Modernisation: safety, certification, digital procedures
- 4. Updating regulations



- Improving EoDB rank
- 2. Digital Services
- 126 million registered parcels
- 4. Electronic transaction
- 5. Blockchain

ELECTRONIC SERVICES

- Encouraging the Investment Climate and Strengthening Land (Omnibus Law& Implementing Regulations)
- Ease of Doing Business through the certainty of money for deed making services
- Applying electronic land right
- Updating regulation on delegation of authority to local land offices
- Implementing special service unit to ease the services







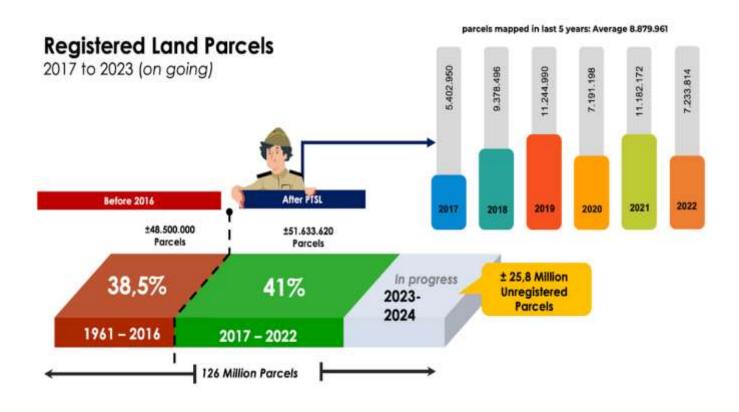




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Accelerating Land Registration



- 1. Indonesia has approximately 126 million parcels
- 2. Previous programs from 1961 to 2016 mapped more than 48 million parcels, or 38.5% from total parcels
- 3. Systematic land registration started in 2017 added more than 51.6 million parcels or 41% in 6 years
- 4. This systematic land registration is expected to finish in 2024.











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Collaborative Land Registration

- 1. Various programs to support acceleration programs: crossagency collaboration (Lintor), land redistribution, Gov't asset registration and mass registration funded by foreign grants (PHLN)
- 2. This PHLN programs currently in 10 (ten) provinces in Sumatra, Kalimantan and Java;
- 3. This acceleration is aimed to improve transactions and ease the investment;
- 4. This program performed digitally, utilising digital application for spatial and juridical data collection: *SURVEY TANAHKU*













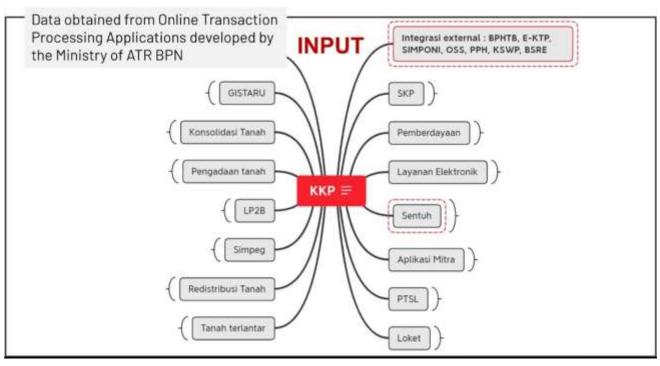




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Integrated Land Data Management



KKP is Land Offices Computerisation application that incorporate with various applications inside and outside Ministry of Agrarian. This application produce spatial and textual dataset that managed, stored and monetised by National Data Centre.

OUTPUT

1. Spatial Data

Land parcels, thematic, land acquisition,



2. Textual Data

- a. Land Owner Data
- b. Types of Land Rights
- c. Employment Data
- d. Revenue data of the Ministry of ATR/BPN











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Data Validation and Standardisation

- Ministerial regulation 1/2021 mandated to apply electronic land title in Indonesia
- It faces several challenges: data variations, data format and null values
- Several tests performed to analyse data validity in 10 (ten) land offices. It is found that the highest validity score was found in Denpasar, with 95.92%, while the lowest was in Jembrana, with an average validity score was 69.85%
- Lower score indicates there are more null values input during data entry, while a higher score indicates that the documents were completely input. However, the more complete the data input does not mean that the data input was similar to the hardcopy document. Therefore, visual validation is cannot be neglected.
- To overcome this situation, researchers urged to apply standardisation on data input by applying default values

No.	Province	Land Office	%Validity Score (avg)
1	Bali	Denpasar	95,92
2	Bali	Jembrana	69,85
3	Bali	Karangasem	84,80
4	Jakarta	West Jakarta	76,66
5	Jakarta	Centra Jakarta	88,00
6	South Kalimantan	Hulu Sungai Utara	74,00
7	NTB	Bima	93,00
8	Banten	Kota Tangerang	81,54
9	Banten	Kabupaten Tangerang	70,05
10	Gorontalo	Pohuwato	82,00







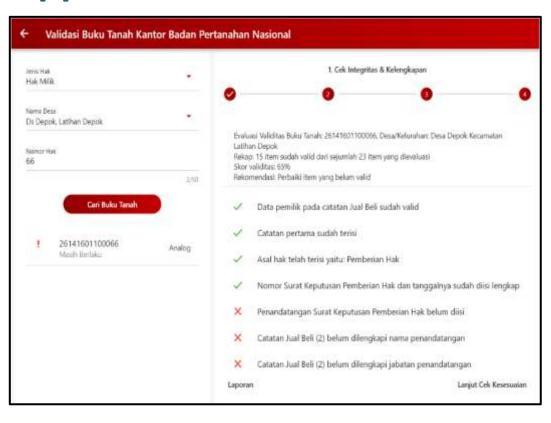




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Application Modernisation



- Digital land title is in block data;
- Currently, there are 118 procedures in land Services; 41
 procedures create new data block, while the rest
 creates/updates annotation;
- Update procedures to adopt the digital ecosystem by maintaining data integrity and applying digital signing;
- Each product, including data migration from manual to digital must to be inspect its validity and apply default values to each null values;
- Only products with 100% validity score can be migrated to block data











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Electronic Land Title



- O1 Applying single identity number
- Limitations and Obligation of every landowner listed on the documents
- If needed, the land certificate can be printed using secured paper
- O4 Apply digital signed, that can be check using mobile application: "Sentuh TanahKu"
- Landowners are able to check the validity of Geo-location each of their parcel on the map shown in second page of the e-land title documents











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