FIG WORKING WEEK 2019
22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"
Vietnam National Land Information System in e-Government Architecture

Phong, Dinh Hong
General Department of Land administration
MONRE
eGoverment of Vietnam

- Government Resolution No 36a/2015 on e-Government
- Vietnam stands at the average level *(by E-Government Survey 2018 UN)*
- Decision 714/2015: National database should prioritize development to create the foundation for e-government development: citizen’s NDB; National Land DB; business registration’s NDB; General statistics on population’s NDB; Finance’s NDB; Insurance’s NDB.
- Vietnam’s e-Government Architecture Framework 1.0 (ver 2.0 - 2019)
- MORNE’s e-government architecture Framework 1.0 (ver 2.0 - 2019)
VIETNAM e-GOVERNMENT

MISITRIES, LOCAL e-GOVERNMENT
- Local Databases
- Other National Databases

MONRE e-GOVERNMENT
- Others: Survey & mapping, Remote Sensing, Environment, Hydrology, Mineral…
- GDLA
  - National Land Database

Vietnam’s National Spatial Infrastructure
Current status of Land Information System in Vietnam

- Cadastral map overlay 77% area of Vietnam; First Land Title Certificate 97.2% (area to management)
- Standardize the content of land database structure (Circular 75/2015 / BTNMT)
- Provinces have applied the IT in land management; six LIS software allowed to implement: ViLIS, eLIS, TMVLIS, SouthLIS, DongnaiLIS, VietLIS
- Status of land database:
  - Four provinces has cadastral DB: 31/713 (districts);
  - Cadastral DB: 156/713 (districts) for others.
  - 366 districts has none Cadastral DB;
  - Database not include land use, land planning, land prices data
Land Database

- Four components of Land database: Cadastral DB; Land statistics and inventory DB; Land Planning DB; Land Prices DB

- Spatial data on Land DB:
  - Land Spatial Framework (base layer);
  - Cadastral spatial data (parcel);
  - Planning spatial data;
  - Land use spatial data.

- Spatial data on Land DB will be integrated with Vietnam National Spatial Infrastructure (NSDI)
A uniform national land information system

- “Vietnam Improved Governance and Database Project - VILG” funding from WB (2017-2023):
  - Improve the efficiency and transparency of land administration services in the Project Provinces, through the development and implementation of Multipurpose Land Information System (MPLIS)
  - Develop and operate a multi-purpose national land information system to better meet the needs of Government, businesses and citizens (Multi-purpose Land information system - MPLIS)
  - Improving the effectiveness, efficiency and transparency of land management in the area through completing land database (National Land Database)
KIẾN TRÚC HỆ THÔNG THÔNG TIN ĐẤT ĐAI DA MỤC TIÊU (MPLIS)

Nguồn dùng

DMZ

Partner DMZ (HTTP Server/API Gateway)
WAN DMZ (HTTP Server/API Gateway)
Public DMZ (HTTP Server/API Gateway)

Quản trị định danh, xác thực người dùng và Quản lý truy cập hệ thống (Identity & Access Management)

Trực tiếp hợp dịch vụ, điều liều đất đai

Lớp dịch vụ

Lớp dịch vụ

Lớp cơ sở dữ liệu

CSDL, dùng chung

Lớp hạ tầng

Hãy lắng nghe (Network)
Hãy lắng nghe (Storage)
Hãy lắng nghe (Server)
Hãy điều hành (OS)

PLATINUM SPONSORS

ORGANISED BY
MPLIS components

- National land database (centralized model)
- National Land Data Center
- Network connection: Center - Provinces - districts (Service integrated bus ESB)
- National unified multi-purpose land information system software
- National land portal: sharing land and online public services on land
- Electronic land registration system (nationwide)
- Sharing, exchange land data: National databases, information systems of other ministries
- Integrated the spatial land data with Vietnam’s NSDI
Vietnam e-Government development roadmap

• **Phase 2019-2020:**
  – Vietnam e-Government Architecture Framework (version 2.0);
  – Development of national document Enterprise Service Bus (ESB);
  – 50% of online public services handled by electronic records;
  – Complete the Citizen’s national database;

• **Orientation to 2025**
  – Finish the national document Enterprise Service Bus (ESB);
  – Building other national DB; data sharing with National Services Portal, Database of ministries, provinces.
MONRE e-Government development roadmap

- **Phase 2019-2020:**
  - E-Government Architecture Framework MONRE (version 2.0)
  - Deploying the sharing and integration platform (LGSP) of MONRE
  - Implementing shared databases and specialized databases
  - Build shared platform services

- **Orientation 2025:**
  - Upgrade and develop shared core software
  - Developing information systems for MONRE management, online services for people and businesses
  - Constructing based database, NSDI
MPLIS developing roadmap

- System design
- LIS software development
- Technical Regulation
- Cyber Security roles

- Data center (phase 1)
- Network (phase 1)
- Land DB established
- MPLIS software implementation
- Cyber security setup

- Data center (phase 2)
- Network (phase 2)
- Land DB established
- Exit DB integrated
- Land Portal

- Land DB integrated: national DBs, NSDI
- e-Land register system
- Land sharing, exchange

2019 2020 2021 2022 2023

MONRE e-Government Developing Roadmap

Vietnam e-Governent Developing Roadmap
Thank you!