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By: Dr Thatheva SAPHANGTHONG

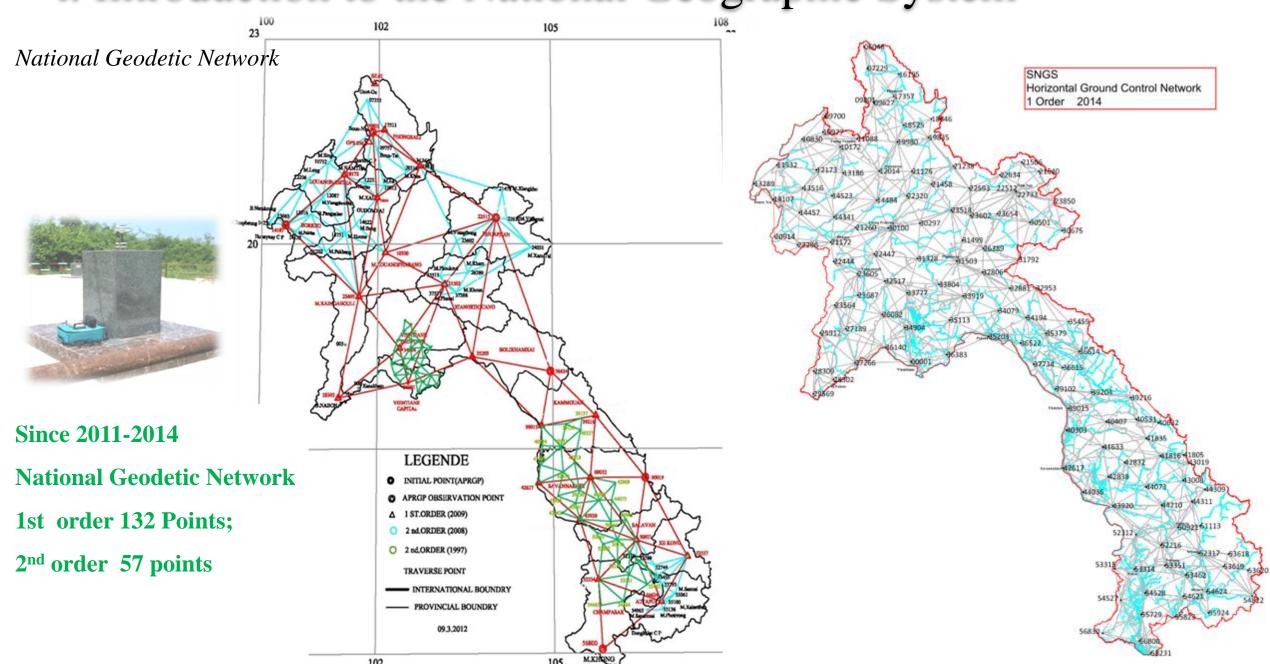
Deputy Director General

Department of Agricultural Land Management

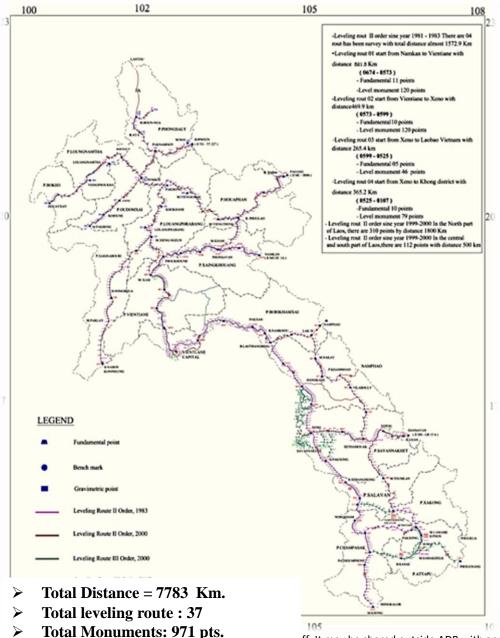
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i. Introduction to the National Geographic System



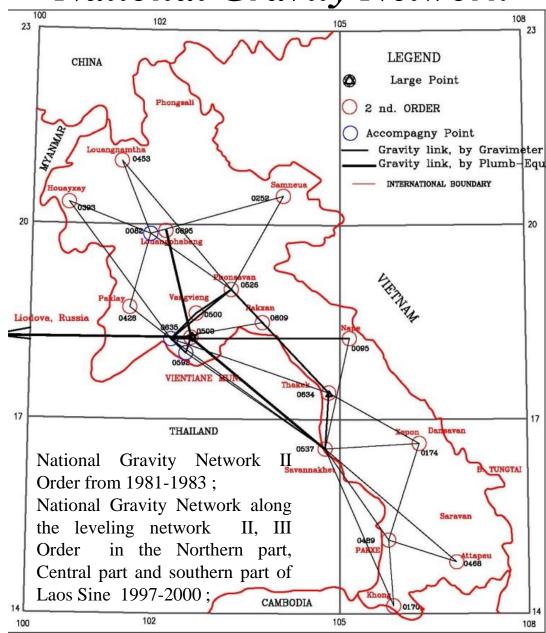
National Leveling Network



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National Gravity Network

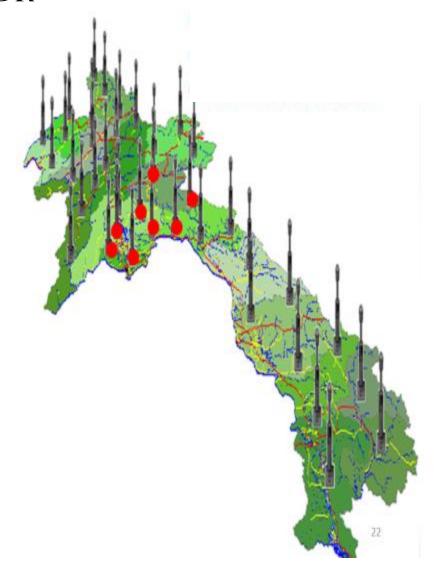


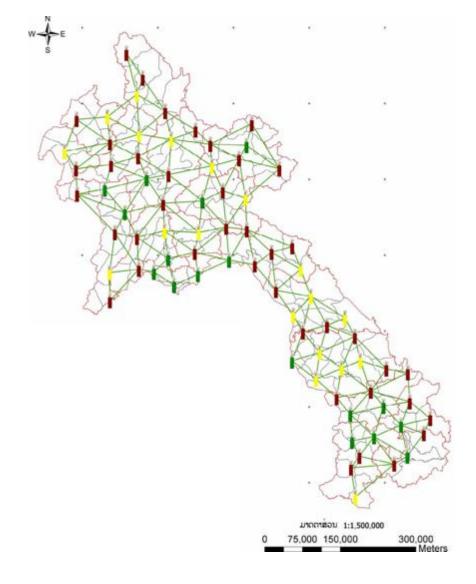
CORS in The Lao PDR

NGD- 9/53

DOL- 35/77

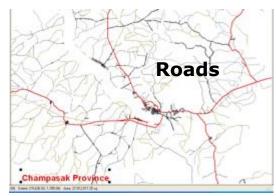
MAF-3





Digital data layers in Lao PDR

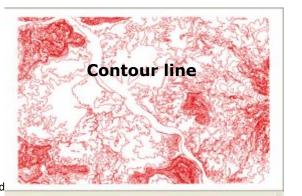


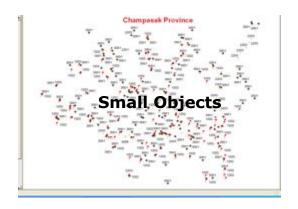


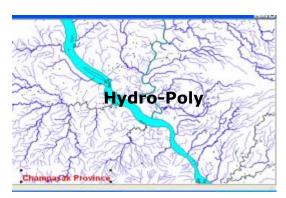


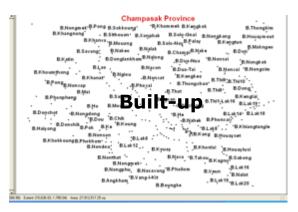




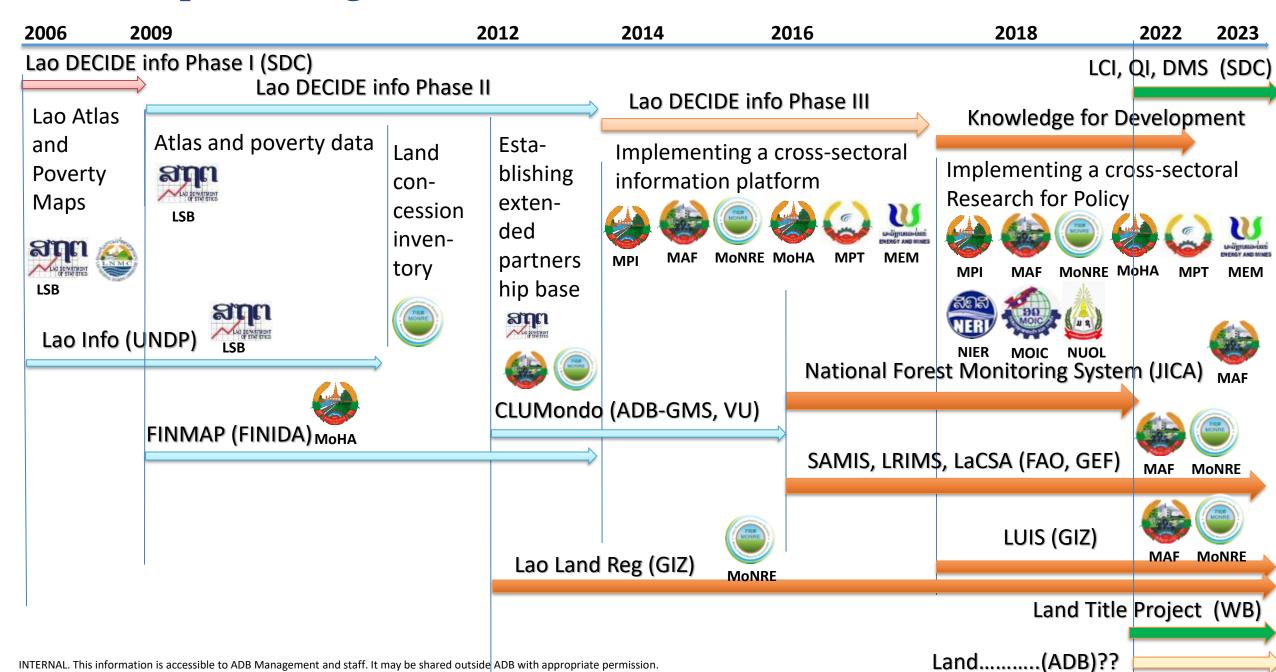




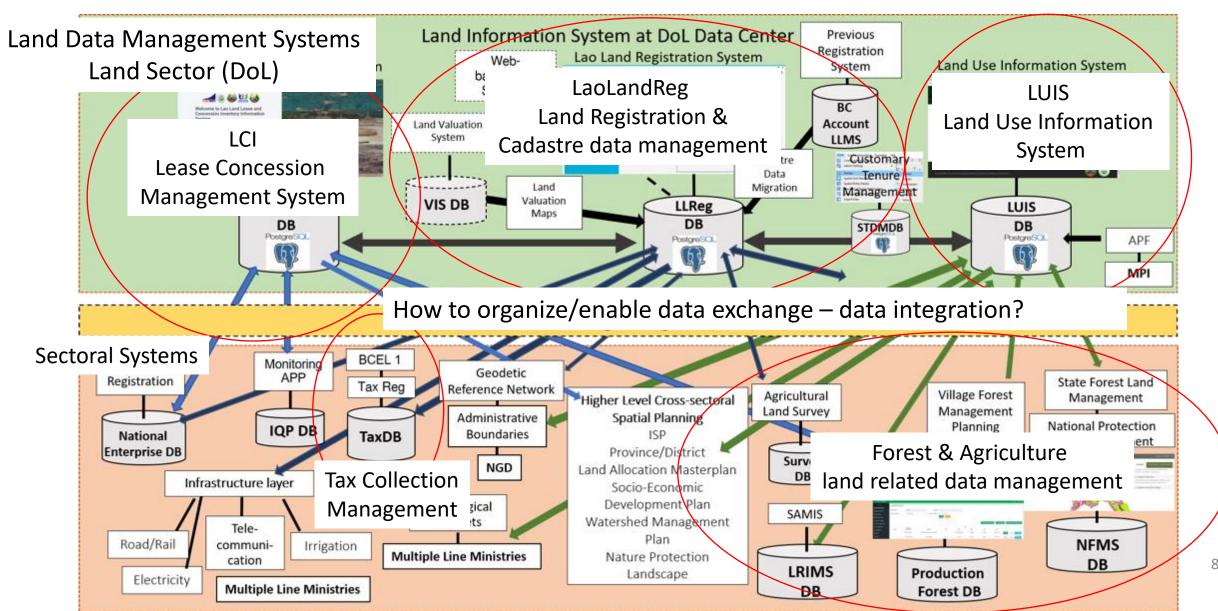




II. Geo-Spatial Integration Process in the Lao PDR



III. Major Challenges: Data Exchange – Integration



IV. Legislative support

- Land Law (2019)
- National Land Master Plan (2018)
- Forest Law (2020)
- Law of Urban Plans (1999)
- Environmental Protection Law (2013)
- Law of Survey and Mapping 08/Na, November 16, 2021
- Decree 330 /Government on Surveying, Aerial photography and Mapping in Laos PDR.
- Regulation on Surveying, Aerial Photography and Mapping.
- Specifications for Surveying, Aerial photography and Mapping.
- Agricultural Land Management Strategy to 2030 (2022)

V. Ongoing Support Initiatives

Enhancing Systematic Land Registration

Registration & titling of up to 1,000,000 land parcels by 2025 (supported by World Bank ESLRP and KfW LMPL)

Improving delivery of land administration services

- Further customization and roll-out of land registration system LaoLandReg v.7 (supported by GIZ LMDP, World Bank ESLRP)
- Upgrading land offices (supported by World Bank ESLRP & KfW LMPL)

Digital data management – Digitalization of land records

- Scanning and archiving of old land records (supported by World Bank ESLRP & World Bank LCTP)
- Cadastral reconstruction/resurvey (supported by Korean Consulting Consortium)

Upgraded & Improvement of ICT Infrastructure

- Upgrade of the national datacenter (supported by GIZ LMDP)
- Establishing regional data centers (supported by World Bank ESLRP)

Establishment of web-based land information service portal

Land Information Service Portal (supported by World Bank LCTP)

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V. Future Plan

NGD, MoHA will implement:

- ✓ Establishment of CORS Networks,
- ✓ Updating map scale 1:50 000,
- ✓ Digital Topographic Mapping at scale 1:25 000 covering plateau area; scale 1:5000 in the main cities (Provincial Head Quarters) and scale 1:2000, 1:1000 in Vientiane Capital (Residential area),
- ✓ Human resource development,
- ✓ National Spatial Data Infrastructure (NSDI).

V. Future Plan (cons.)

DoL, MoNRE

- ✓ Cadastral Resurvey based on drone technology
- ✓ Quality control of Systematic Land Registration
- ✓ Cadastral survey and mapping of residential land areas in the forest land
- ✓ Survey and mapping of concession areas

DALaM and DoF, MAF

- ✓ Agricultural Land Survey
- ✓ Soil Survey
- ✓ Forest Land Survey
- Capacity Development of provincial and district staffs

Lessons learnt

• 1) 2-3 keys lessons from workshop: a) legal framework b) sustainability funding c) Fundamental datasets and standard d) capacity building...2) All sessions are important but NSDI is most relevant to the case of National Geography Department in Laos, we have initiated to establish NSDI of Laos refer to our law on survey and mapping 2021 and 5 year plan 2020-2025 of Ministry of Home Affairs. 3) Our department have just planned to initiated and to assessment NSDI of Laos 4) We also need budget, capacity building and awareness to support and to implement NSDI of the county.

