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ESTABLISHING SUSTAINABLE NSDI: COMBINED TECHNICAL AND INSTITUTIONAL APPROACH IN LAO PDR

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CONTENTS OF THE PRESENTATION

- LAOS IN GENERAL AND DEVELOPMENT
- NGD AND SNGS
- CHALLENGES IN GEOSPATIAL FRONT
- TECHNICAL AND INSTITUTIONAL
APPROACH
- CONCLUSIONS AND FUTURE



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LAOS IN GENERAL AND DEVELOPMENT

- Landlocked country – population density 27/sqkm
- Fast growing economy 8% per year
- Developing country – target 2020
- Agriculture (50%) – hydro power (battery of S



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LAOS IN GENERAL AND DEVELOPMENT

- Millennium Development Goals

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LAOS IN GENERAL AND DEVELOPMENT

Ambitious 7th and 8th Socio-economic Plan

- Environmental impacts – reverse environmental losses
- Increase forest cover
- Complete land use planning and related allocation
- Mitigate climate change – related natural disasters

ACTIVITIES AND TASKS TO SUPPORT GOALS:

- GEOSPATIAL DATA AS A CRITICAL, IF NOT VITAL TOOL



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NATIONAL GEOGRAPHIC DEPARTMENT (NGD)

- Long history as the leading survey and mapping agency
- France, USA, Soviet union ... long break
- 1998-2003 Vientiane plain mapping project
- 1998- Updating 1:50.000 scale (GVN)
- JICA funded Mekong GIS (2002)



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NATIONAL GEOGRAPHIC DEPARTMENT (NGD)

Strengthening National Geographic Services since 2010



Technical and financial assistance

- NGD to better support other organizations
- Co-operate with other organizations to increase data and information sharing



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CHALLENGES IN THE GEOSPATIAL FRONT

- 1) Lack of accurate and up-to-date data
- 2) Fractured/uncoordinated production of geospatial data
- 3) Lack of co-operation
- 4) Missing lead organization
- 5) Dependency on external funding
- 6) Lack of awareness
- 7) Lack of skills to develop and maintain GIS data (QC)



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Current Situation

- SNGS supports general development in Lao PDR
- Organizations to comply and overcome their challenges
- Building up NGD to better provide geospatial data
- Based on technical aspects and institutional strengthening



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SECTOR SPECIFIC CHALLENGES

Land Management

- Land titling very slow
- Only 600,000 titles in 15 years
- Concession areas



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SECTOR SPECIFIC CHALLENGES

Forestry

- Shrinking forest cover, illegal logging (41%)
- Slash and burn (agriculture)
- Boundaries of different uses - unknown



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SECTOR SPECIFIC CHALLENGES

Environment

- The use of natural resources
- Integrated spatial planning
- Tools for assessments: EIA



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SECTOR SPECIFIC CHALLENGES

Other Challenges

- UXO



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SECTOR SPECIFIC CHALLENGES

One challenge that relates all sectors

Lack of accurate and up-to-date data



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TECHNICAL AND INSTITUTIONAL APPROACH

Institutional:

- Co-operative committee for GIS



- Representatives from different ministries
- Technical working groups



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TECHNICAL AND INSTITUTIONAL APPROACH

GIS Committee

- Standardization, information sharing
- Related technical working groups
- Sustainability considered



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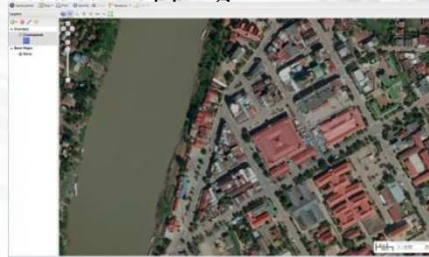


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TECHNICAL AND INSTITUTIONAL APPROACH

- Strengthening - Technical parallel institutional
- Production of orthophoto and Topographic Map 1/50.000
- Technical Capacity building related to mapping
- Distribution of NGD data



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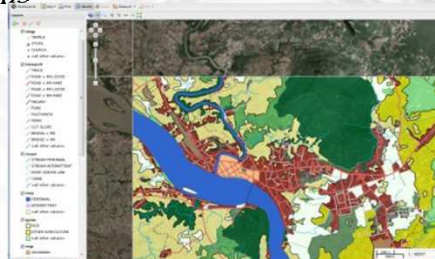


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TECHNICAL AND INSTITUTIONAL APPROACH

- Establishment of National Co-operative geoportal
- Geoserver based application
- Providing wms to organizations



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TECHNICAL AND INSTITUTIONAL APPROACH

Institutional:

- Awareness rising
- Seminars in provinces, high level seminar (minister)
- NGD products seen as necessities for the development 8th socio-economic planning

<http://www.ngd.la/>



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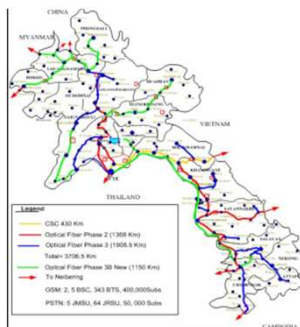


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TECHNICAL AND INSTITUTIONAL APPROACH

Provide access to provinces



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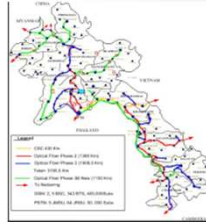


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TECHNICAL AND INSTITUTIONAL APPROACH

- Extended services – sales and information covering provinces (MoHA)



- Better capability to plan and implement activities



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TECHNICAL AND INSTITUTIONAL APPROACH

Awareness raising

- Importance of geospatial data
- Workshops, seminars, visits to organizations
- Vientiane, provinces, study tours abroad
- Participation on international conferences

Ho Chi Minh City



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TECHNICAL AND INSTITUTIONAL APPROACH

Marketing

- Client visits – build up NGD capacity to understand better other sectors and their needs
- Participated in exhibitions, fairs, film production...



Pakse, NGD for other organizations
(MoHA office)



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TECHNICAL AND INSTITUTIONAL APPROACH

Build up NGD capacity to better plan and implement activities

- Strategic planning 5-10 years (Mapping plan, budgeting and human resources)
- Convince government to support frequent up to date and accurate mapping (Saving resource for other activities)



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TECHNICAL AND INSTITUTIONAL APPROACH

Co-operation - cross ministerial



Ministry of Planning and Investment,
Ministry of Agriculture and Forestry and
Ministry of Natural Resources and
Environment



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CONCLUSIONS AND FUTURE

- Improved situation
- Advanced and quality requirements – GIS database
- Future leaders – young professionals actively participating
- Awareness high level seminar – goal: recognition from the highest level (government)



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Thank You



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