

ກະຊວງ ວິທະຍາສາດ ແລະ ເຕັກໂນໂລຊື

Ministry of Science and Technology

non Most

Workshop on The Application of Global Navigation Satellite System 12-16 December 2016, Kathmandu, Nepal

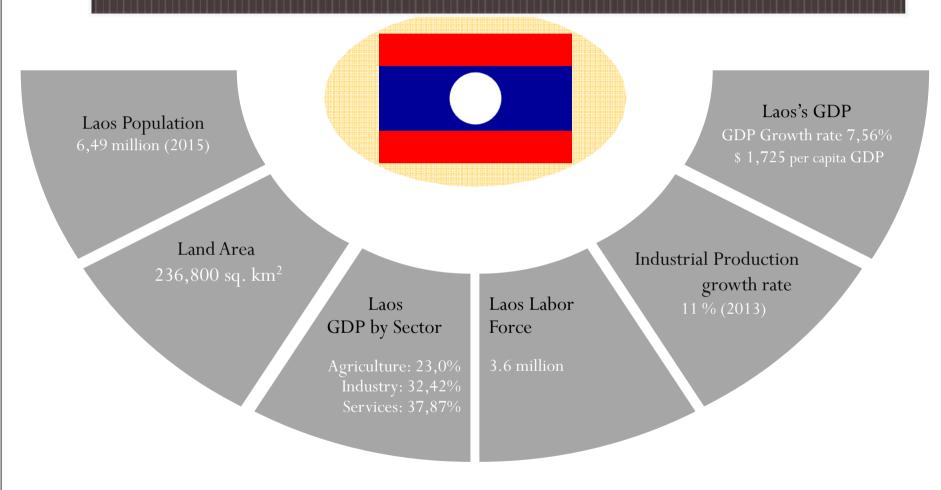
Space Technology Development Information in Lao PDR

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Outline

- 1. Country Background
- 2. STI Policies and Strategies
- 3. DTI's Activities
- 4. Strengths and Weakness
- 5. The Needs for TI Development in Lao PDR

I. Country background



Country Snapshot

The Lao government vision is to establish Laos from the Land-Locked Country to the Land-Linked Nation. At the Moment, there are several routes to connect ASEAN to China by Thailand-Laos-China in the central is connecting Thailand-Laos-Vietnam.

The Market Access to ASEAN market (500 million inhabitants) and neighboring China Land-link initiative: East-West Economic Corridor with Special Economic Zone in Savannakhet acting as a trade and service center.

Easy regional access with regular direct flights to the major hubs of Bangkok, Hanoi, Kunming, Kuala Lumpur, Singapore, Korea and Japan.



Why Laos?

Comparative & Competitive Advantages

- Political stability
- High safety
- Low risk from natural disasters
- Low labor cost

(Minimum wage: \$110/month)

Country of rich natural resources:

► Fertile land, Minerals, Water, and forest, giving development potential in agriculture, mining, and hydropower.



No.158th WTO member in 2013

ASEAN Economic Community 2015



II. STI Policies and Strategies

The Main Function and Duties:

- Study of national policies and strategies,
- Formulate legislation,
- Promote research and development,
- Provide services,

II. STI Policies and Strategies (cont..)

- *Act as central body coordinating with line ministries at central and local level
- Promote transfer, application and creation of technology and innovation.
- Transfer technology management

III. Department of Technology and Innovation(DTI) Activities

At the beginning establishment stage, DTI have been focused on:

- Review and formulate role and mandates for divisions under DTI
- Create road map of TI development(up to 2020)
- > Study and formulate legislation
- Disseminate and raise awareness on TI
- Collect TI information status
- Promote the application of technology as a demonstration project for local community on rice productivity

Lao – China Science Innovation and cooperation Forum and Small Exhibition

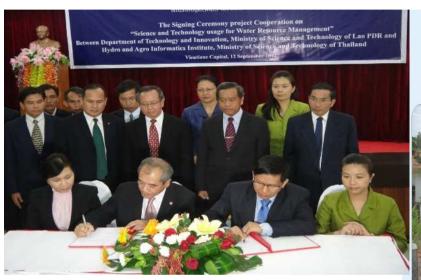




Lao – Russia Round Table Meeting on Technology Cooperation in the Future



Lao – Thai Cooperation Project on Science and Technology Usage for Water Resource Management









STEPI, APCTT and Lao DIT Cooperation on Innovation System of Lao PDR



DIT Cooperation on Training Space Technology

- Jaxa, Japan Cooperation on Training ALOS 2 Data Application
- BELS, The Workshop on Global Navigation Satellite System Technology
- UN-SPIDER, The Assessment and Application of the Space Technology Information
- GISTDA, Thailand, Rice crop monitoring system by using Space Technology Information
- CAST, China, Lancang-Mekong river space information cooperation center project

Major Disasters in Lao PDR

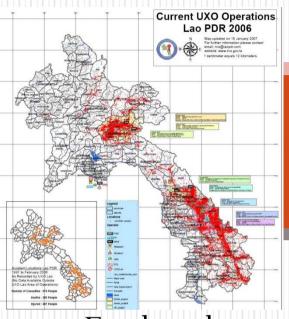
Great Impacts on Sustainable Development
Fire (Forest and

Flood

Urban)



UXO

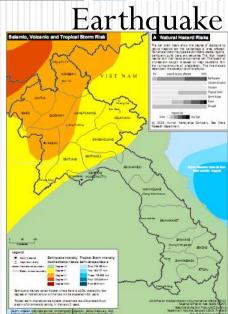


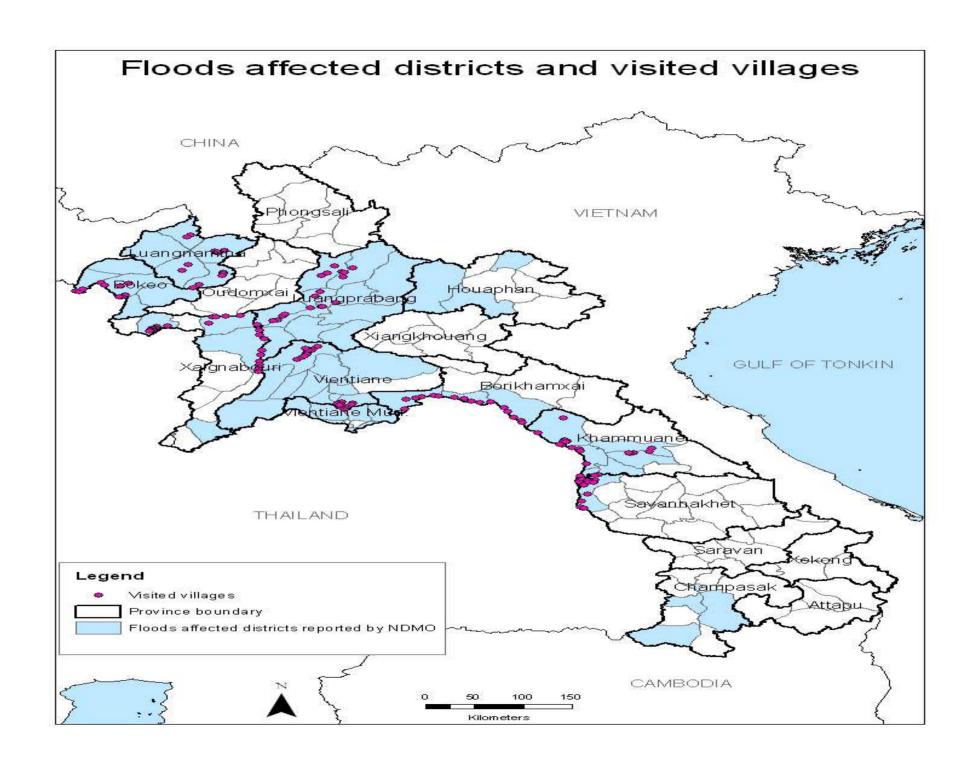
Drought



Storm















Coordinator in Space Applications for













IV. Strengths and Weaknesses

Strengths:

- □ Country has direction, policies and national economic-social plan for short, medium, and long term development and some regulations and laws concerning the management and promotion of STI;
- □ Lao PDR has science and technology organizations at both central and local level;
- ☐ Many sectors have carried out and reached some achievement of activities concerning the management and promotion of STI.

Strengths and Weaknesses (cont.)

Weaknesses:

- ☐ Institutions response for the management and promotion of science, technology are limited in the aspects of experiences, skills and resources to undertake their tasks including external cooperation;
- ☐ There are absence of specific regulations and legislations on the management and promotion of STI
- □ Coordination mechanism among sectors including public and private (business units) at both national and local level is not well established and acted;
- ☐ Research activities have been carried out, but not met fully to the demand of society as well as the industrial development;

Strengths and Weaknesses (cont.)

- ☐ Most of modern technologies using in the country are imported;
- ☐ Financial sources to support the implementation of science, technology and innovation activities are limited;
- ☐ Public awareness on science, technology and innovation is limited;
- ☐ Linkages between universities/research institutes and business units (industry) are still weak.

V. The Needs for TI Development of Laos

- Policy and strategy and master plan for TI development
- Formulate Law on Technology Transfer, Law on High Technology and Law on Innovation and related regulations,
- Survey the Needs of TI
- Establishment of TI Statistic Data System
- Promotion and Application of Innovation for SMEs

The Needs for TI Development of Laos (cont.)

- □ Promotion of Research and Development
- The National Innovation Excellent Awards and Tech-Market (TECHMART)
- Establishment of Technology and Innovation Services Center
- Formulation of Curriculum on Technology and Innovation
- Awareness on Technology and Innovation
- Set up Demonstration of Technology Transfer Project/center

Thank you for your kind attention