Luang Prabang Provincial
Forestry Section
LPTP
ແຜນງານ ຄຸ້ມຄອງໄມ້ສັກ ຫຼວງພະບາງ
Luang Prabang Teak Program
Sustainable Natural Forest and Teak Forest Management in Laos/Luang Prabang Province
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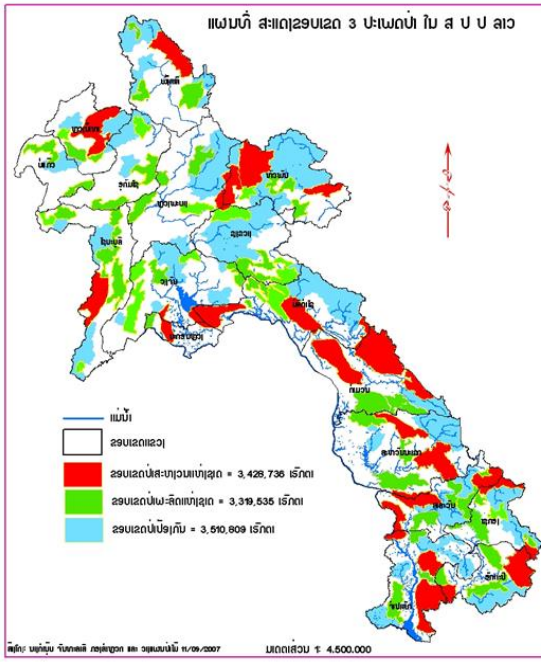
Introduction

Lao PDR predominantly a mountainous and land lock country with a relatively large area of 236,800 Km² in relation to its small population of approximately 7.12 million, 17 provinces. All most 70% of the total land area cover by mountain, forest covers only 68% or 16.28 million ha in the whole country (Department of Forestry, 2019).



(i) Production Forest (3.1 M ha)- 51 areas

(ii) Conservation Forest/National protected areas (4.5 M ha)- 24 NBCAs + 2 corridors

(iii) Protection Forest 47 areas (7.9 M ha)

Forest Categories

1.Conservation Forest determined for purpose conservation of:

plant species, wildlife species, ecosystems, and high nature value areas, historical, cultural, tourism, environment, education and scientific research

- Forest and forest land divided into 4 levels namely: national level; provincial or city levels; district or municipality levels; and village level.

2. Protection Forest determined for purpose protection of:

watershed areas, the natural environments, the soil erosion, natural disasters, strategic points for the national defense-public security and other types of forests as determination

- Forest and forest land divided into 4 levels: national level; provincial or city levels; district or municipality levels; and village level.

3. Production Forest determined for purpose production of:

Forestry products as timbers and NTFPs.

- Only National level

Forest Management

✧ **Conservation Forests** are classified into two zones:

-Absolutely prohibited zone; and

-Utilization under management zone

✧ **Protection Forests** are classified into two zones:

1) The absolutely prohibited zone and utilization zone under management (protected strictly and not allowed any activity)

2) The utilization under management zone :

- Allows using without negative impact on the environment and eco-system of the forest in that area.
- Allowing the people to use the trees and forest products in accordance with allocation program

✧ **Production Forest Management**

- Base on sustainable management plan developed by PAFO together with DAFO and signed by the DOF;
- Forest management would be review and improve after 15 years

Forest Outside of 3 Categories

Village Forest

- Village Forests are the forest both within and outside of the conservation forest, protection forest and production forest ;
- VF management plan (VFMP) is the land allocation and forest land management within the village administration aims to make the village inside and outside of 3 types forests have the ownership in managing, protecting, developing and using forests according to the rights and duties of villages as determined in laws and regulations.

VFMP processes/steps:

① Review the land use planning and the forest & land allocation planning

② Identify and demarcate each forest category within the village jurisdictional area

③ Develop VFMP;

④ Implemented VFMP;

⑤ Monitoring

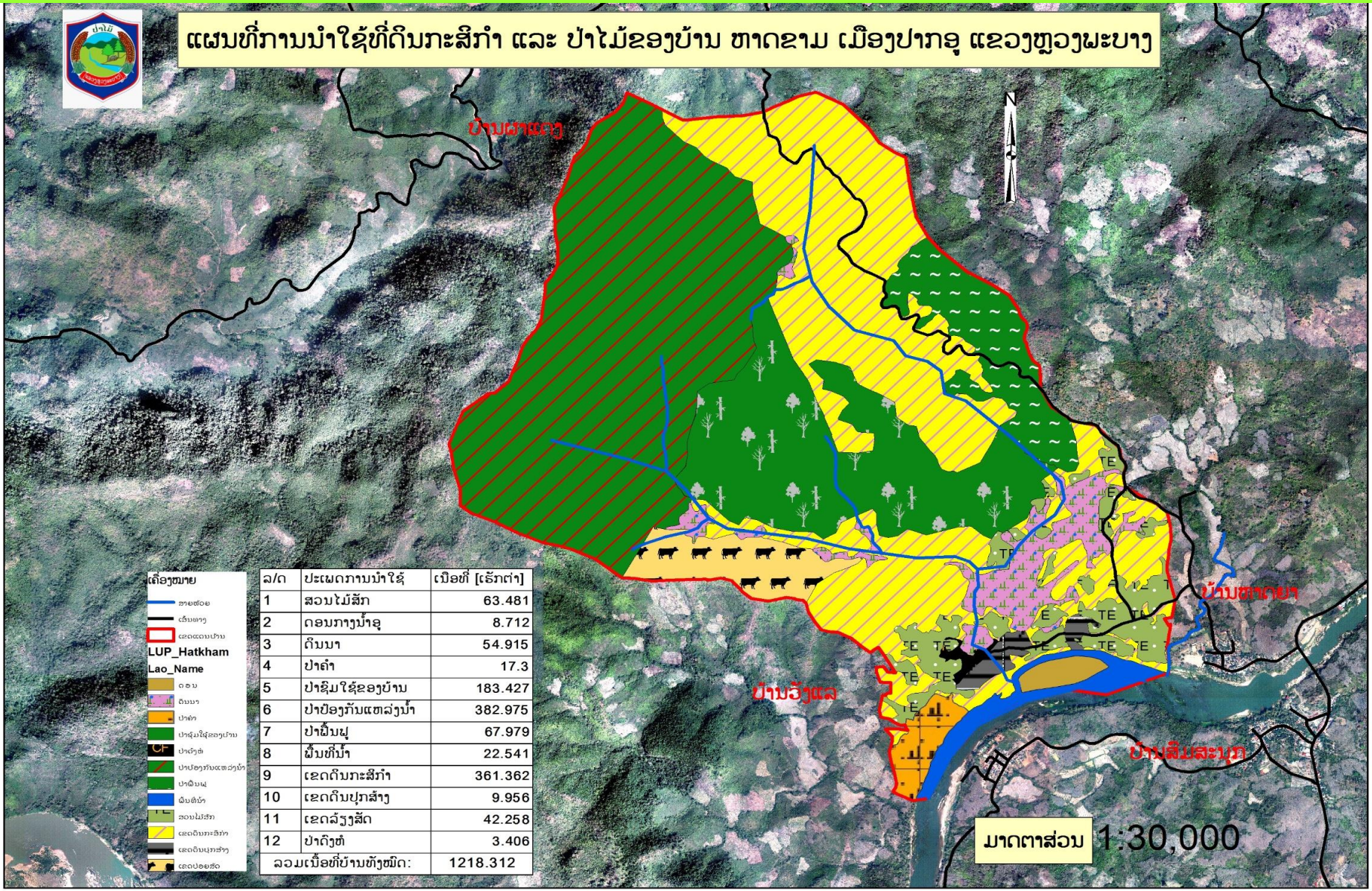
Village forest management planning implemented in Luangprabang province

7

Install signs and do the demarcation for reforestation

8

Land Use Planning Map of HadKham Village, Pak Ou District, Luang Prabang Province



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1	ສວນໄມ້ສັກ	63.481
2	ດອນກາງນ້ຳອຸ	8.712
3	ດິນນາ	54.915
4	ປ່າຄ້ຳ	17.3
5	ປ່າຊຸມໃຊ້ຂອງບ້ານ	183.427
6	ປ່າປ້ອງກັນແຫລ່ງນ້ຳ	382.975
7	ປ່າຟື້ນຟູ	67.979
8	ພື້ນທີ່ນ້ຳ	22.541
9	ເຂດດິນກະສິກຳ	361.362
10	ເຂດດິນປຸກສ້າງ	9.956
11	ເຂດລ້ຽງສັດ	42.258
12	ປ່າດົງຫໍ	3.406
ລວມເນື້ອທີ່ບ້ານທັ້ງໝົດ:		1218.312

Overview of Luangprabang Province

Luangprabang Province is located in the Northern part of Lao with total area of 1.6 M.ha, and forest covering approximately 65% of the province's total area.

(i) Production Forest: 147,000 ha (2 areas)

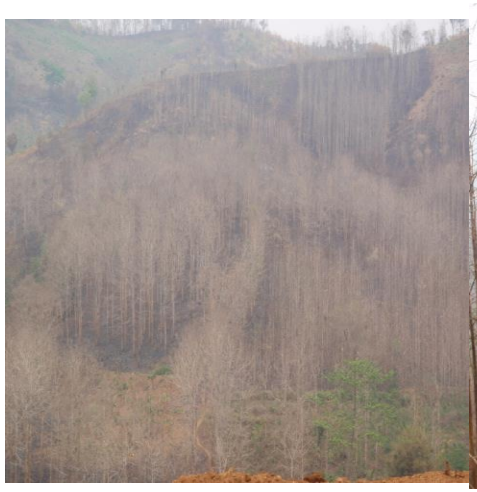
(ii) Conservation Forest/NBCA :160,819 ha (1 NBCA, 1 PCF, and 22 DCFs)

(iii) Protection Forest 47 areas :1.24 M ha(1 NPF, 1 PPF, and 12 DPFs)

Teak Forest Resources in LPB Province

Teak forest resources in LPB province is planted forest (monoculture) which almost all belong to private as smallholder growers within contexts of:

- ✓ Poor teak plantation management: low productivity, thinning from above, poor genetic stock
- ✓ No forest understory: susceptible to fire and erosion
- ✓ Teak plantation and wood sales not compliant with national laws
- ✓ Unfair trade, low prices, and lack of negotiation power



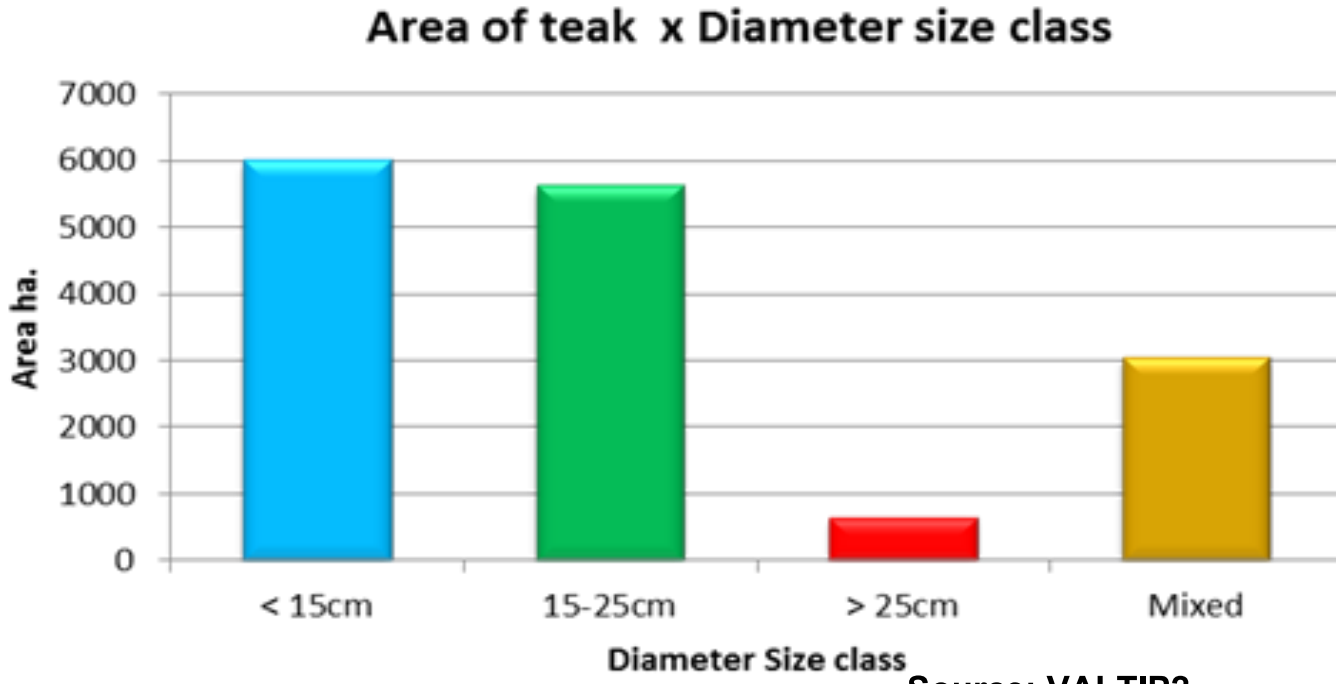
Teak Resources Context in LPB Province

✧ **Reported by DAFO**

- 27,481 ha (1986-2013)
- 29,000 ha (2017)

✧ RAFT3 Project >25,000 ha (2018)

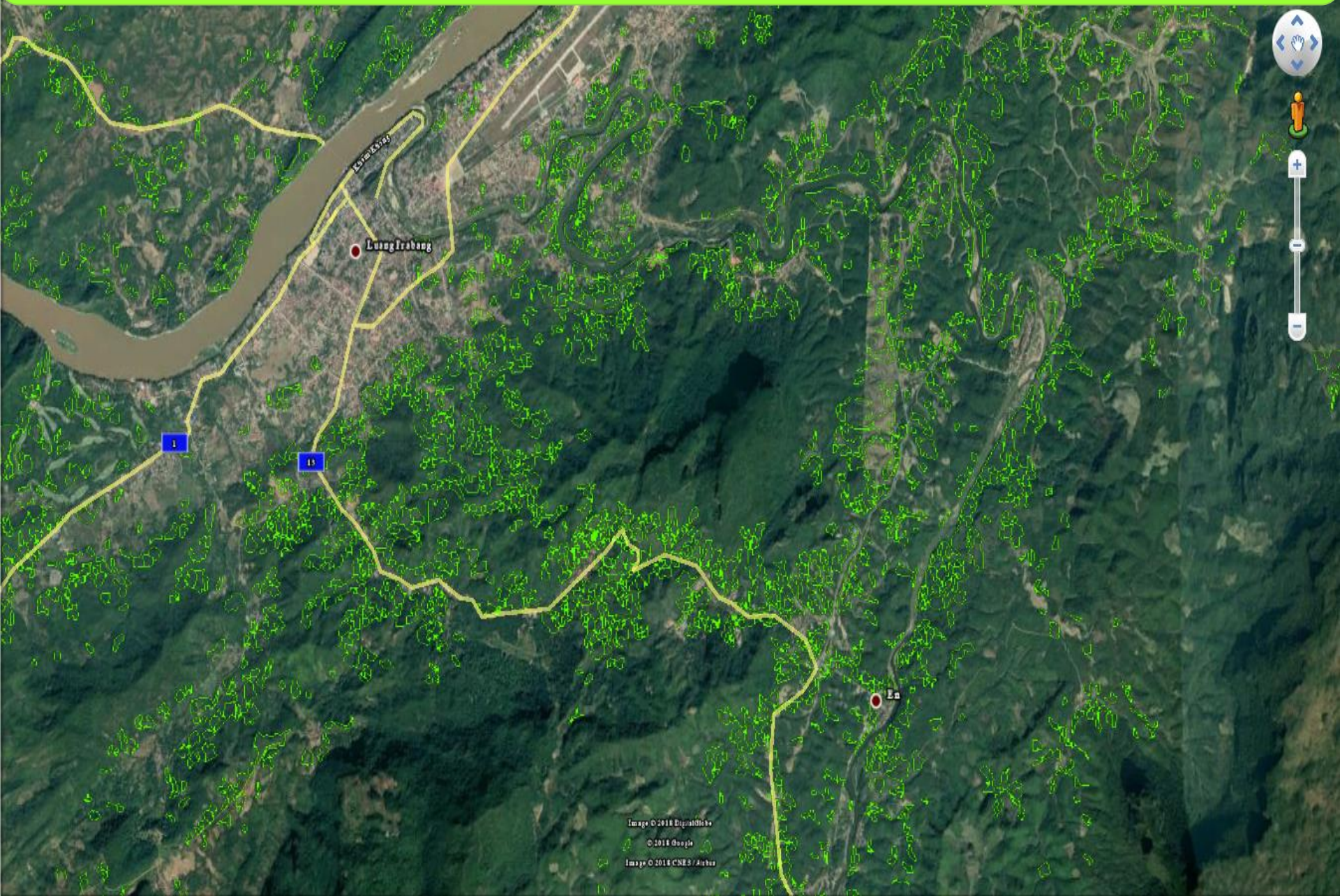
✧ **Research by VALTIP/ACIAR 18,170 ha (2018)**



Source: VALTIP2

Teak Resources Context in LPB Province

Mapping by VALTIP2



Sustainable Teak Forest Management (STFM) in LPB

Luang Prabang Teak Program (LPTP) established in 2008 for the purposed of forest certification. LPTP is a partnership between teak farmers in LPB Province and the government of Laos with objectives:

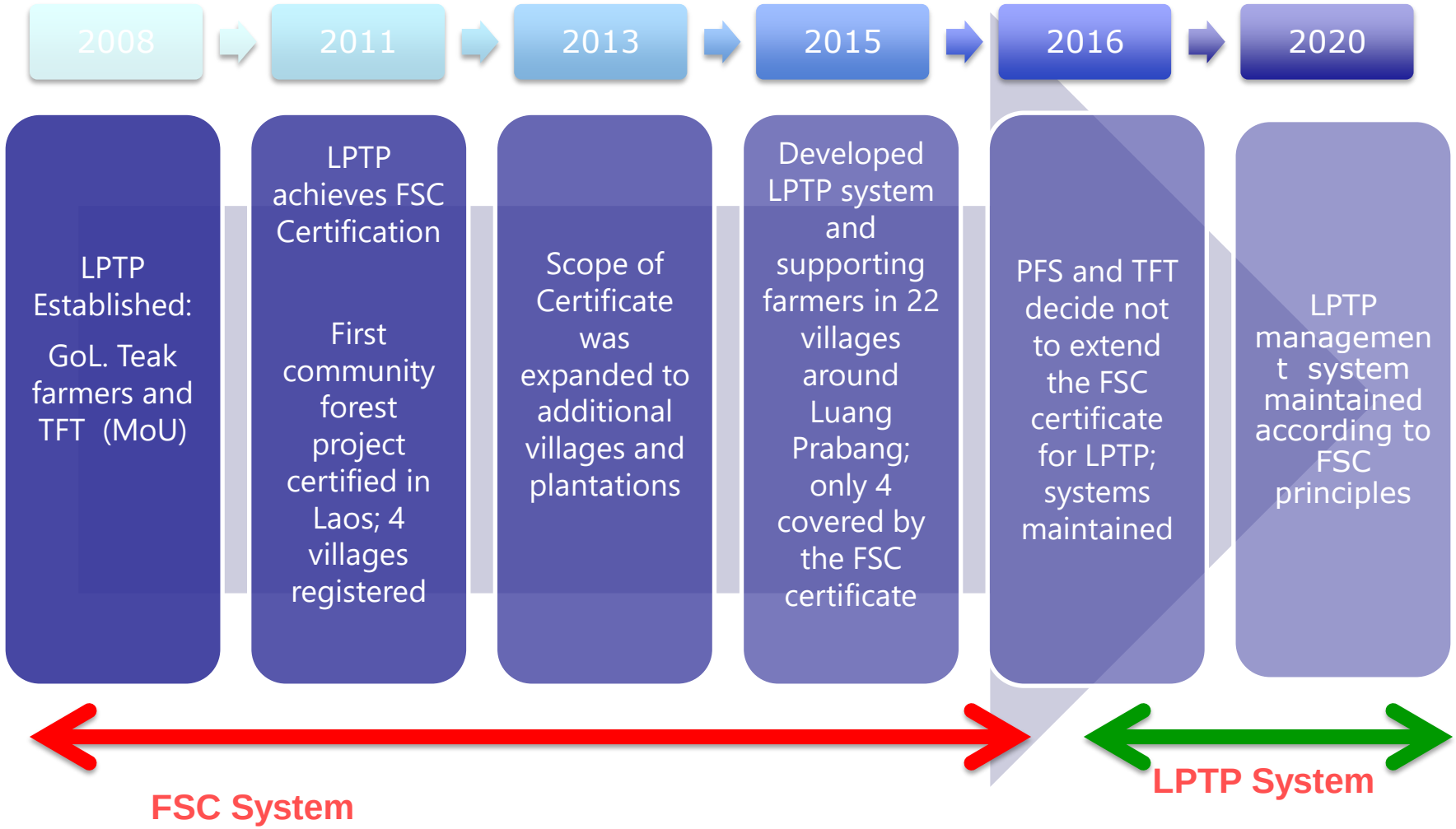
- ✓To improve ***the socio-economic benefits of smallholder teak farming*** in Luang Prabang (Market linkages, Capacity building, Farmer groups formation, productivity of plantations)
- ✓***Environmental responsibility*****:** Soil erosion prevented, Teak forest's understory enhanced, High conservation value forest management
- ✓***Supported FS goals***

LPTP currently funding and technical support by Earthworm Foundation (formerly known as The Forest Trust) and ACIAR/VALTIP3 project.

STFM Supported by LPTP

- Provide trainings to teak farmers :SFM, teak markets, environmental management (established a SFM demonstration plot for each group)
- Teak Farmer Groups forming and networking
- Facilitate **Plantation Registration** Process (Certificate issued by DAFO & PAFO)
- Support and build the capacity of district authorities to administer teak registration
- Develop Forest Management Plans: thinning, pruning, harvesting
- Forest management monitoring
- Facilitate wood sales (marketing and sales support)
- Farmer capacity building: wood sales by volume instead of standing tree; increase sale value for timber

History of STFM Supported by LPTP



STFM in LPB Promoted by LPTP (Cont.)

LPTP activities and supporting:

- ✧ Established teak farmer group(TFG) in 5 districts, with 26 groups, 655 families as member, 1,019 plantation plots, total area of 731 hectares, and 2 value adding units as micro SMEs.
- ✧ All of 1,019 teak plantations have been registered with sustainable management plan for each.
- ✧ Capacity building for teak growers with training on:
  - ✓ Teak plantation management consider on environmental responsible (stop burn plantation to maintain natural vegetation understory, high valuable conservation plants species preserved, grow evergreen native plants along teak plantation boundaries and space within the plantation)
  - ✓ Timber supply or wood sell compliance with laws and regulations
  - ✓ Capacity building on value added for wood from plantation
  - ✓ Establish a network of teak grower link to market by selling timber and wood directly to woods producers

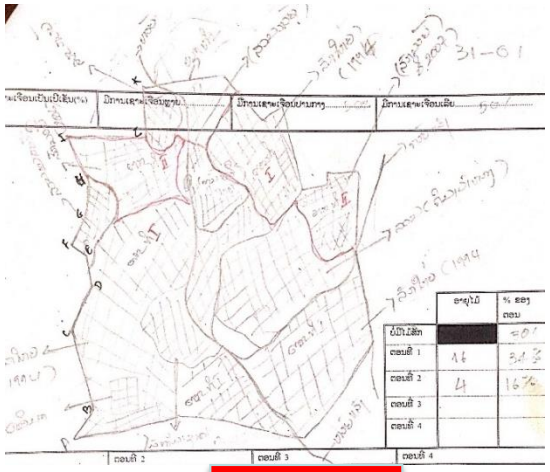
LPTP activities and supporting (Cont.)

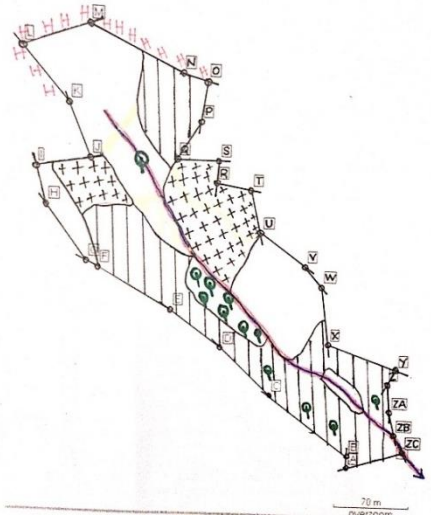
Pre-entry Assessment Implemented

Plantation Registration

According to regulation and law

Scratch map to identify boundary, natural/ remnant tree, stream, SMA, HCV, etc.





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ສັນຕິພາບ ເອກະລາດ ປະຊາທິປະໄຕ ເອກະພາບ ວັດທະນະຖາວອນ

ກະຊວງກະສິກຳ ແລະ ປ່າໄມ້
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ເລກທີ່ 727 /ຫກປມ.ປອ
ລົງວັນທີ່ 26/7/2017

ໃບທະບຽນສວນປຸກ
(ສຳລັບເນື້ອທີ່ 5 ເຮັກຕາລົງມາ)

- ອີງຕາມກົດໝາຍວ່າດ້ວຍປ່າໄມ້ ສະບັບເລກທີ່ 06/ ສພຊ ລົງວັນທີ່ 24 /12/ 2007;
- ອີງຕາມຄຳສັ່ງແນະນຳຂອງລັດຖະມົນຕີກ່ຽວກັບການຂຶ້ນທະບຽນສວນປຸກ, ສະບັບເລກທີ່ 1849/ກປ ລົງວັນທີ່ 07/10/1999;
- ອີງຕາມຄຳສັ່ງແນະນຳຂອງລັດຖະມົນຕີ ສະບັບເລກທີ່ 0115/ກປ.03, ລົງວັນທີ່21/06/2003
- ອີງຕາມການສະເໜີຂອງເຈົ້າຂອງສວນປຸກ ຄັ້ງວັນທີ່ : 20/05/2017
- ອີງຕາມການວັດແທກສວນປຸກໄມ້ສັກຕົວຈິງ ຄັ້ງວັນທີ່ : 24/05/2017 ທີ່ບ້ານ : ຖິ່ນຈະເລີນ ເມືອງ: ປາກອຸ ແຂວງ: ຫຼວງພະບາງ

ຫ້ອງການກະສິກຳ ແລະ ປ່າໄມ້ ເມືອງ ປາກອຸ ໄດ້ອອກໃບທະບຽນສວນປຸກໄມ້ສັກໃຫ້ແກ່ :

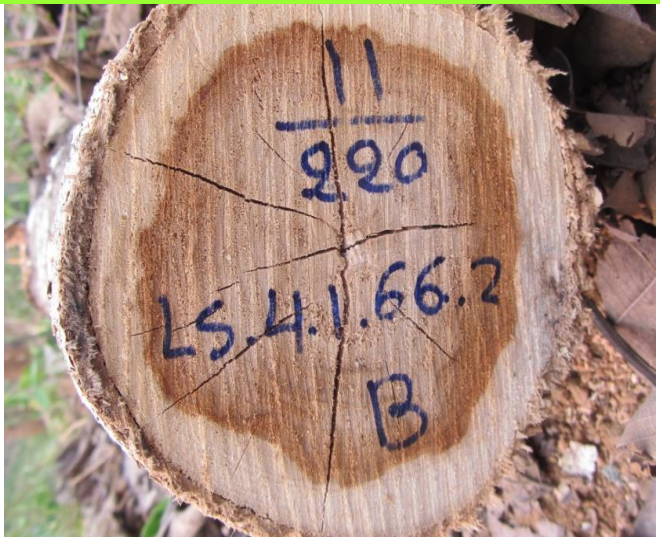
- ທ້າວ ຄຳຕັນ ປຣະສິດທິ — ສັນຊາດ: ລາວ — ຊົ່ເມຍ: ນາງ ບົວຂຽວ
- ປະຈຸບັນຢູ່ບ້ານ : ຖິ່ນຈະເລີນ — ເມືອງ: ປາກອຸ — ແຂວງ: ຫຼວງພະບາງ
- ເຊິ່ງເປັນເຈົ້າຂອງສວນປຸກໄມ້: ໄມ້ສັກ — ຕັ້ງຢູ່ບ້ານ: ຖິ່ນຈະເລີນ — ເມືອງ: ປາກອຸ ແຂວງ : ຫຼວງພະບາງ — ເນື້ອທີ່: 0,238 ເຮັກຕາ.
- ປີ ປຸກ: 1992 — ຊະນິດພັນໄມ້: ພັນພື້ນເມືອງ
- ມີຂອບເຂດແດນດັ່ງນີ້:
  - ທິດເໜືອຕິດກັບ: ສວນໄມ້ໃຫ້ໝາກຂອງ ທ້າວ ພຸນສະຫວັນ
  - ທິດໃຕ້ຕິດກັບ: ສວນໄມ້ສັກຂອງ ທ້າວ ອ່ອນສີ
  - ທິດຕາເວັນອອກຕິດກັບ: ສວນໄມ້ໃຫ້ໝາກຂອງ ທ້າວ ພຸນສະຫວັນ ແລະ ສວນນາງ ອ່ອນສີ
  - ທິດຕາເວັນຕົກຕິດກັບ: ສວນຂອງ ທ້າວ ບຸນໄຣມ ແລະ ສວນ ທ້າວ ຫຸມເພັງ

ທະບຽນສວນປຸກສະບັບນີ້ ມີຜົນສັກສິດນັບແຕ່ມື້ລົງລາຍເຊັນເປັນຕົ້ນໄປ.

ຫົວໜ້າຫ້ອງການກະສິກຳ ແລະ ປ່າໄມ້ເມືອງ

ສົນອນ ສະເຫຼີມສັກ

LPTP activities and supporting (Cont.)



Value adding support and wood supply from thinning

LPTP activities and supporting (Cont.)

Plantation registration

Plantation certificate hand over

Timber supply training

Teak farmer group leaders workshop on timbers supply networking

LPTP activities and supporting (Cont.)

Value Adding and Market Networking Supported

LPTP activities and supporting (Cont.)

Training on Pruning Practice @ the demonstration plot

Collaborated with IGESE-JISE supported sustainable teak plantation

Seeds collection (1st)

Seedling production and growing test

Prefectural nursery (5,860 seedlings)

Office nursery (345 seedlings)

Collaborated with IGESE-JISE supported sustainable teak plantation (cont.)

Mai Kor seedling produce experiment

LPTP activities and supporting (Cont.)

FSC Wood Sales Supported

Year	Item	Cost (USD)	Volume Sold (m3)	Net Income (USD)
2011	Main audit	7,203	20.6	2,309
2012	1st surveillance audit	4,432	159.3	13,774
2013	2nd surveillance audit	4,879	106.7	8,194
2014	3rd surveillance audit	6,284	27.3	6,416
2015	4th surveillance audit	3,083	-	-
TOTAL	Audit Cost	**25,879**	**313.8**	**30,692**

- The 2016 AAC for LPTP villages is 2530 m^3.

Impact of LPTP Supported

Teak growers networking under LPTP System

No	District Name	No. of Villages	No. of TFG members	No. of lots	Area (ha)
1	Lunag Prabang	11	317	496	394.93
2	Xieng ngeun	1	32	74	61.648
3	Phonsay	3	34	51	50.097
4	Paksaeng	5	111	199	93.28
5	Pak Ou	6	166	234	178.61
	Total	25	628	980	720.2817

Impact of LPTP Supported

Forest Certification, SMEs & Transaction Costs

26

Farmer Groups Established
-Four villages experienced under FSC

5

Years of FSC FM Certification experience
2011-2016

2

Small Farmer Enterprises
-Ban Kokngiew & Ban Xieng Lom
-Square logs and teak furniture – value adding

33%

Reduction in Transaction Costs
- 37% to 4%

Impact of LPTP Supported

Improved Forest Management

655

Individual Forest Management Plans:
-Siliviculture (genetics, thinning, pruning)
-Special management areas + Conservation

100

Plantations monitored each year

26

Forest management trainings completed across all villages

Impact of LPTP: Shorting the Value Chain

Before "Middle Man" Scenario: Selling standing trees locally

After "Village Incorporated" Scenario : Selling round logs at roadside

Next "TFG, LPTP cooperate with Local trader" Scenario: Selling standing tree with fare by volume to trader

Impact of LPTP: Shorting the Value Chain

Challenges

- Lack of SME and Micro-SME supported as well as smallholders value adding;
- Growers do not an incentive to follow forest management plans;
- Policies interpreting in different ways
  - Branding and SME & Micro-SME producers barrier;
- Plantation register and transection cost still high;
- Unfair trade
- Unsustainable of resources due to export logs allowed;
- Lack of research on Agro-forestry in case of existing teak resources (old plantation that 10 years up)
- Poor genetic stock
- Lack of financial support

Opportunities

- New MOU with EF
- Collaboration with IGESE-JISE
- ACIAR support
- More support from ITTO???

Kob Jai