



Enhancing Conservation and Sustainable Management of Teak Forests in Greater Mekong Sub-Region



Presented by
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International Tropical Timber Organization
(ITTO)



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Planted Forest**

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ITTO's mandate: Article 1 ITTA 2006:

Include.....a consultative forum for producing and consuming members.....the expansion, diversification, and structural improvement of the international tropical timber trade..... reforestation and other forest management activities.....processing of tropical timber in the producing countries.....research and development.....technology transfer.....support for development of national policies in sustainable utilization and conservation of tropical forests..... with special regard for ecological balance.....



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ITTO Biennial Work Program 2018-2019:

[Enhancing teak management in three regions \(LAC, AP and Africa\)](#)

.....promote sustainable teak development regionally and globally in plantation and natural teak forests is aimed at enhancing the contribution of sustainable teak management to the protection of tropical forests, as well as promoting legal and sustainable teak industry and trade.





SOME STARK FACTs:

The sustained production of teak logs from natural forests (29 mio ha) is decreasing due to overexploitation of existing stands, deforestation, conversion to other land-uses, and growing competition for environmental services.

Emerging valuable hardwood species that has been grown increasingly in planted forests in about 70 tropical countries

Planted teak forests according to various estimates cover between 4.35 to 6.89 million ha. Most of them were established with seeds of uncertain origin and quality

Old-growth high-quality stands natural teak forests (India, Lao, Myanmar, Thailand) VS quality of plantation teak forests



Illustration on expected revenues:

Table 3

Financial appraisal of a 100 ha teak plantation (25-yr rotation)

YEAR	EXPENDITURE (US\$)	REVENUE (US\$)	NET CASH FLOW (US\$)	CUMULATIVE CASH FLOW (US\$)
1	151,905.00		(151,905.00)	(151,905.00)
2	41,485.00		(41,485.00)	(193,390.00)
3	40,005.00		(40,005.00)	(233,395.00)
4	38,845.00		(38,845.00)	(272,240.00)
5	48,845.00		(48,845.00)	(321,085.00)
6	42,345.00		(42,345.00)	(363,430.00)
7	42,345.00		(42,345.00)	(405,775.00)
8	29,845.00		(29,845.00)	(435,620.00)
9	29,845.00		(29,845.00)	(465,465.00)
10	42,345.00	625,000.00	582,655.00	117,190.00
11	28,685.00		(28,685.00)	88,505.00
12	40,785.00		(40,785.00)	47,720.00
13	27,805.00		(27,805.00)	19,915.00
14	40,305.00		(40,305.00)	(20,390.00)
15	27,805.00	675,000.00	647,195.00	626,805.00
16	32,325.00		(32,325.00)	594,480.00
17	19,825.00		(19,825.00)	574,655.00
18	19,825.00		(19,825.00)	554,830.00
19	19,825.00		(19,825.00)	535,005.00
20	19,825.00	1,125,000.00	1,105,175.00	1,640,180.00
21	11,955.00		(11,955.00)	1,628,225.00
22	11,305.00		(11,305.00)	1,616,920.00
23	11,305.00		(11,305.00)	1,605,615.00
24	11,305.00		(11,305.00)	1,594,310.00
25	11,305.00	2,000,000.00	1,988,695.00	3,583,005.00
TOTAL	841,995.00	4,425,000.00	3,583,005.00	

IRR = 16%, NPV (10%) = US \$ 364,091

(Source: ITTO-IUFRO, 2017)



The Global TeakStudy

Analysis, Evaluation and Future Potential of Teak Resources
Editors: Walter Kollert, Michael Kleine

IUFRO World Series Volume 36





Title
Enhancing Conservation and Sustainable Management of Teak Forests and Legal and Sustainable Wood Supply Chains in the Greater Mekong Sub-region

Executing agency

ITTO-Secretariat

Collaborating agencies:



→ 36 months; EURO: 1 mio (committed by BMEL)

→ Contribute to Global Teak Support Program (GTSP)



Objective of the Project

To demonstrate legal and sustainable teak supply chains with the engagement of local communities, smallholders and government actors in the Greater Mekong Sub-region

Outputs

1: The conservation of teak genetic resources, sustainable management and use of natural teak forests and market accesses of teak from legal sources have been improved

2: Community-based and smallholders teak forest management and agroforestry systems have been strengthened with improved legal and sustainable supply chains

3: Regional and international collaboration, information sharing and knowledge management, networking, policy development and outreach on the sustainable management of teak forests, including sustainable use of teak genetic resources have been strengthened





Activities of Output 1 (genetic conservation, management, use and market access)

1.1 Establish demonstration plots for sustainable teak forest management systems and pilot silvicultural systems including coppicing as a regeneration method and teak agroforestry practices (e.g. bamboo management in natural teak forests) in on-farm teak growing for livelihoods of local communities and smallholders (Myanmar, Thailand).

1.2 Review and analyze opportunities for improved market accesses of teak wood and teak products from legal and sustainable sources in the five participating countries.

1.3 Conserve teak genetic variation through improved management of existing seed production areas, seed orchards, and provenance/progeny trials (, Lao PDR, Myanmar, Thailand).





Activities of Output 2 (community based and small holders management)

2.1 Support local communities and smallholders through establishment of demonstration plots and field training on the different subjects

2.2 Carry out a teak value chain analysis of smallholders to increase their access to markets by improved primary processing as well as capital and market information (Myanmar, Thailand, and Vietnam).

2.3 Facilitate the establishment of teak-based forest user groups for the sustainable use of teak forest resources and agroforestry (Myanmar).

2.4 Review and elaborate policy options to empower local communities and smallholders in planted teak and teak management, and agroforestry systems to support sustainable livelihood programs (Myanmar, Thailand).





Activities of Output 3 (regional and international collaboration)

3.1 Produce and disseminate outreach and training material on the conservation and sustainable management of teak forests and legal and sustainable supply chains

3.2 Plan and organize two regional teak workshops to facilitate policy dialogue, information sharing and knowledge management, stakeholder consultations and help expand regional cooperation on sustainable management of teak forests and legal and sustainable supply chains

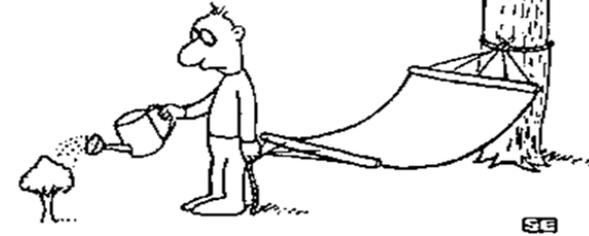
3.3 Support and facilitate teak networking in the Mekong Sub-region through ITTO's member countries and partner such as TEAKNET and other regional cooperation frameworks to promote the conservation and sustainable management of teak forest resources

3.4 Support sharing lessons of the Greater Mekong Sub-region in promoting sustainable teak forest management and legal and sustainable supply chains at the 4th World Teak Conference (2019 or 2020) in Ghana for improved global teak collaboration.





*Happiness grows
From a tree!*



Expected outcomes at the completion of the Activity

Enhanced capacities of governments, local communities and small holders in planning, conservation and management of teak forest resources

Improved quality and management of teak genetic resources

Demonstrated legal and sustainable teak supply chains which improve market access of teak products

Enhanced dialogue, information and knowledge exchange among participating countries on sustainable teak forest management, production and sustainable supply chain management, as well as sharing experiences with wider audiences globally through participation in different events/fora.



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