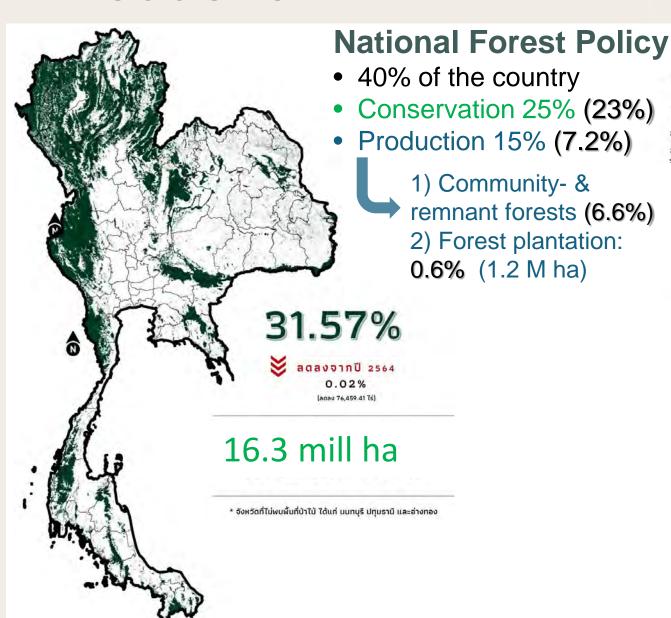
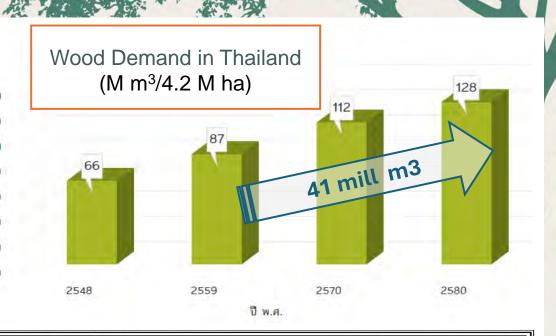


### Introduction







### Phase I Teak Project

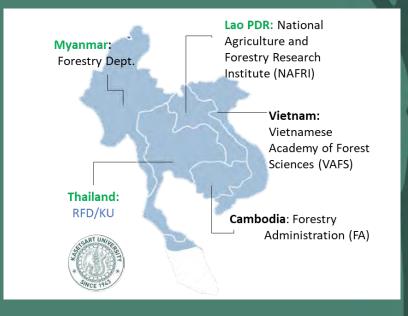




#### ITTC 54 Yokohama in 2018







Gerhard Dieterle, EX-ITTO ED (left); Matthias Schwoerer, BMEL-Germany (right)



ITTO Project: "Enhancing Conservation and Sustainable Management of Teak Forests and Legal and Sustainable Wood Supply Chains in the Greater Mekong Sub-region" (PP-A/54-331)

## Phase I Output/Outcome







#### Vientiane Times Business Phongsavanh

#### Forum building framework for teak value claims

issues

bi-monthly







### **TEAK IN MEKONG** FOR A SUSTAINABLE FUTURE



YONGYUT TRISURAT, HWAN-OK MA TETRA YANUARIADI, PROMODE KANT AND P.K. THULASIDAS Editors



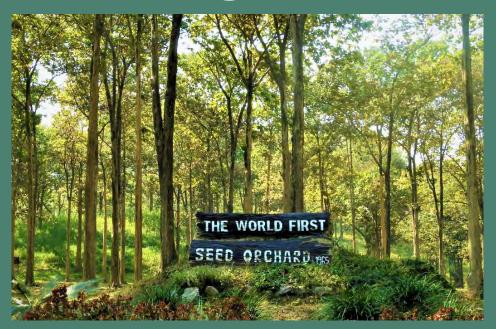








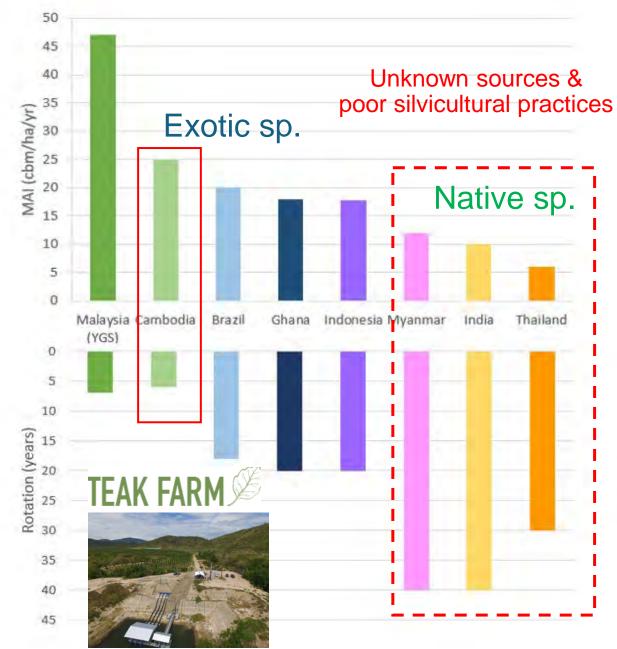
## **Challenges:**





#### Low productivity

THA's MAI  $\sim 5 \text{ m}^3/\text{ha/yr}$ 



### Challenges: Timber legality & high transaction costs

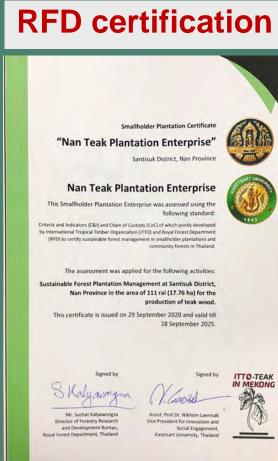




Cost for an international standard & informal fees?

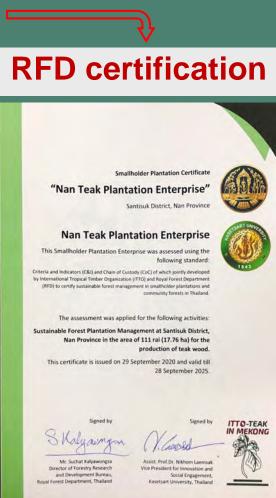
C&I





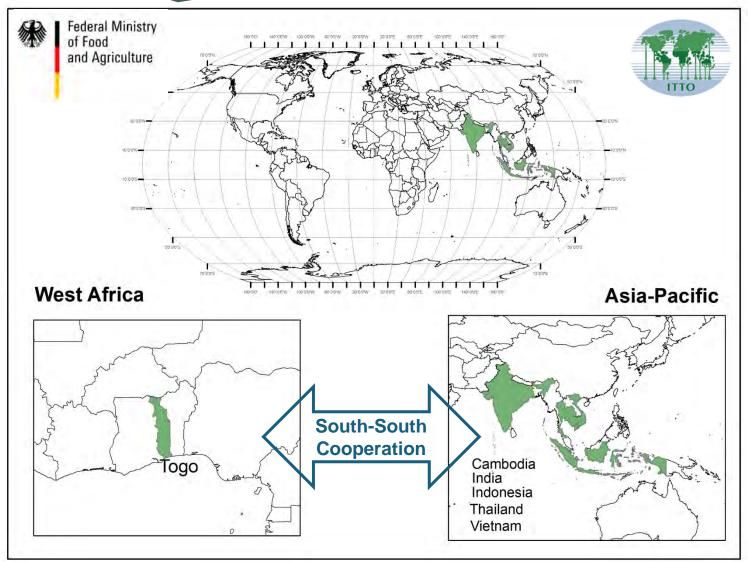






ITTO/RFD

### ITTO-BMEL Project Phase II

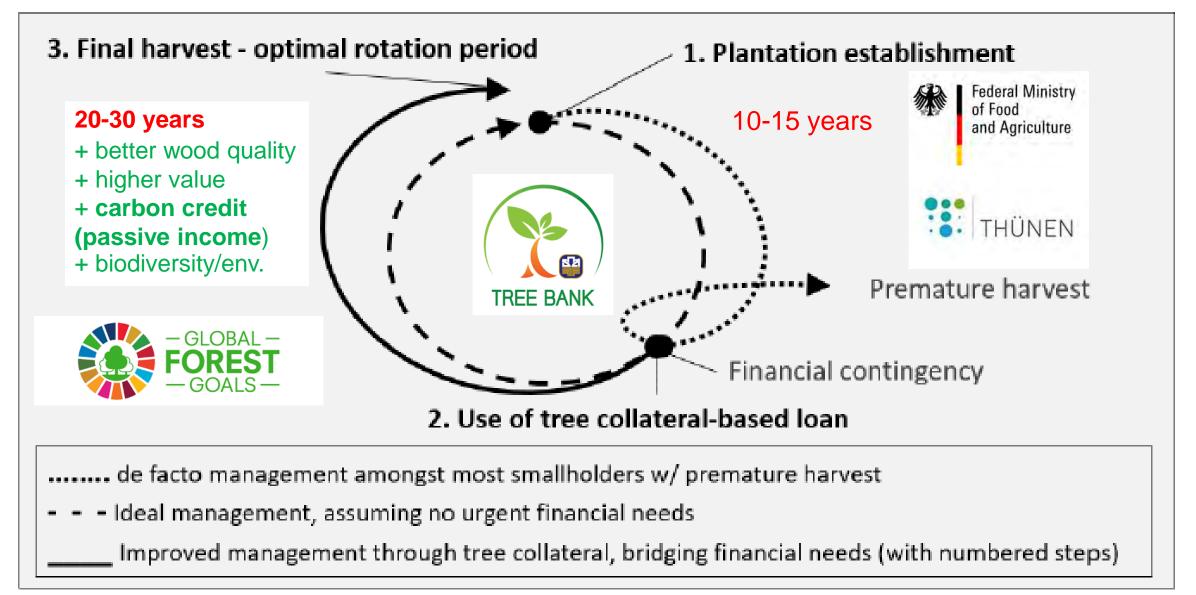




#### **Specific Objectives**

- To improve the production of highquality timber from teak and other valuable species plantations established by smallholders and communities;
- To improve livelihoods and social and environmental outcomes through better silviculture practices, financial schemes (long rotations) and access to voluntary carbon markets, etc.

## **Opportunity: Tree Collateral Schemes**



### **Economic Analysis**

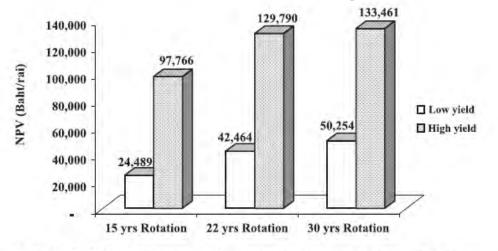
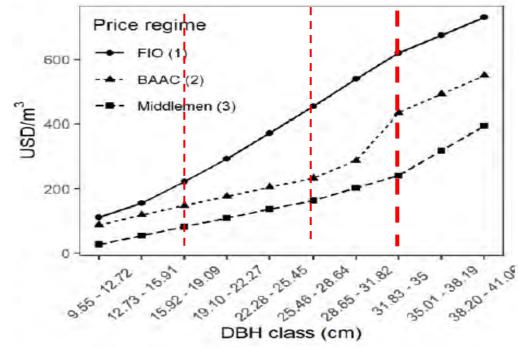


Fig. 6. NPV diagram of comparison rotation of teak plantation in case of FIO prices and high cost



#### Teak **B/C** ratio HSI- 1.5-11.5 LSI- 1.1-8.0

**NPV (10%)** HSI 3,800 USD

LSI 2,000 USD



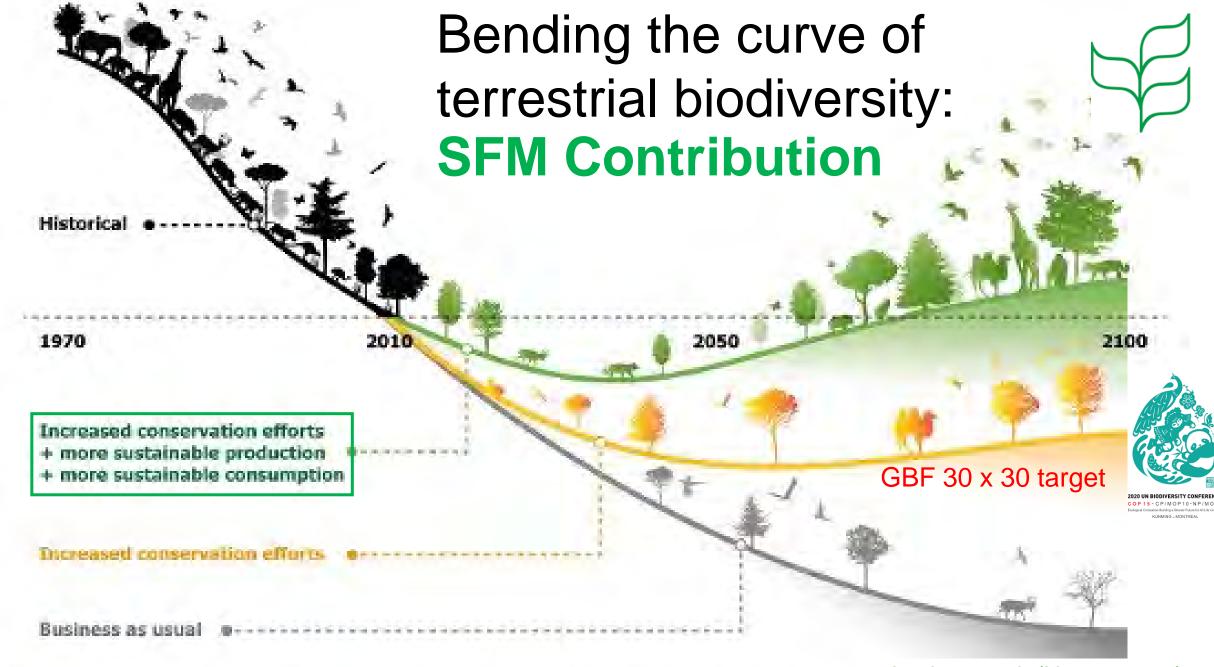




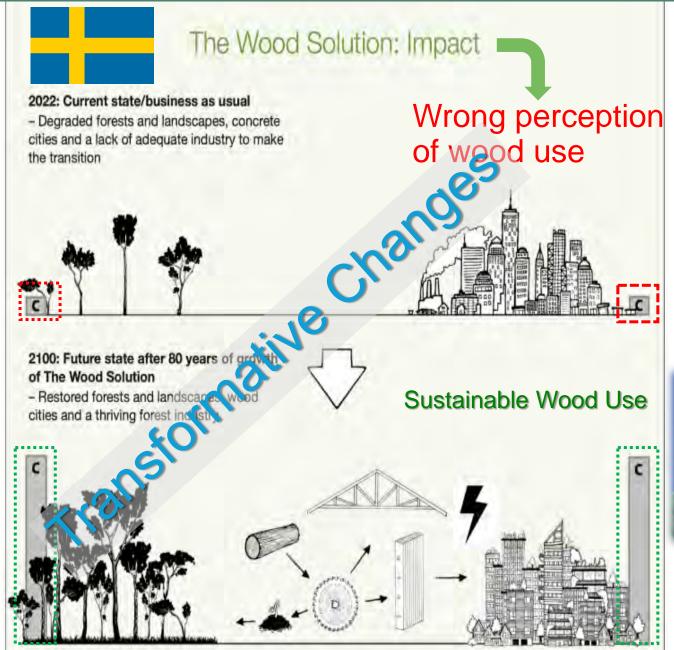
Rubber B/C 1.14 NPV 240 USD

Maize B/C 1.01 **NPV 297 USD** 





Leclere et al. (Nature 2020)





#### ITTO Executive Director Sheam Satkuru

Over time carbon stocks are built up in parallel: absorbed in the trees and soils of the

regenerating landscapes and stored in the structures of the expanding cities.



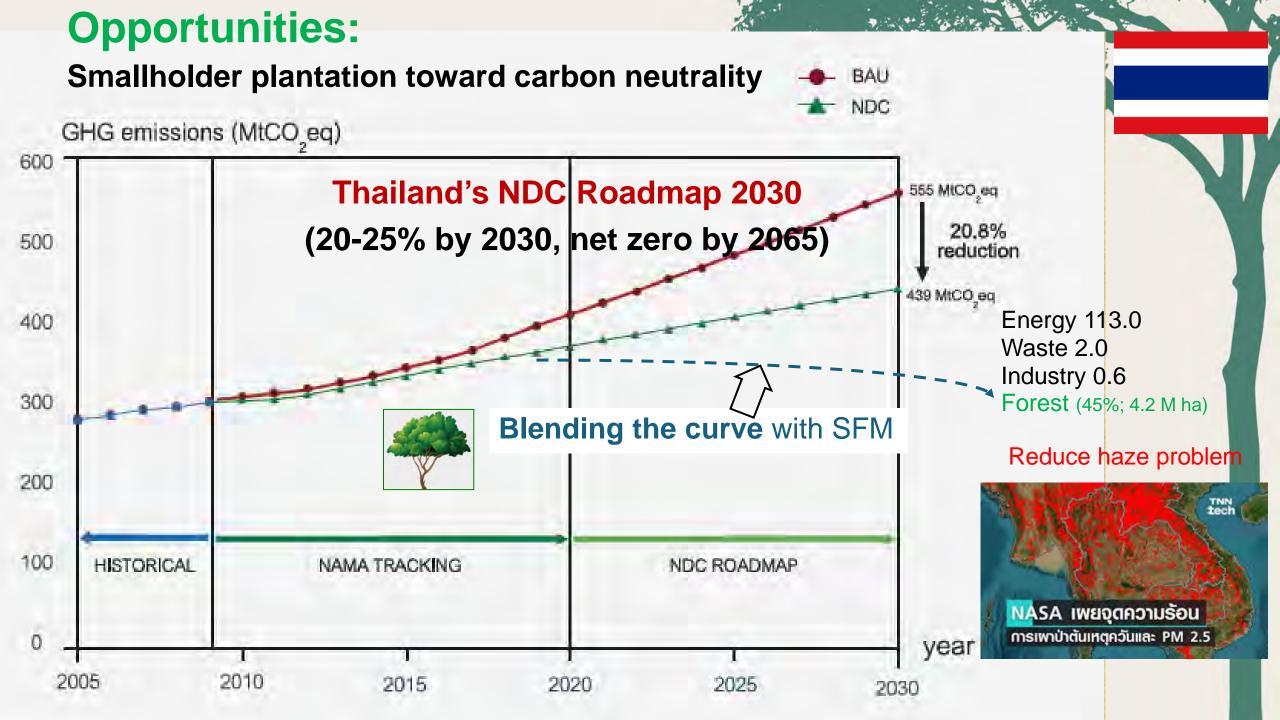
"...harvesting timber sustainably is not deforestation...".

29th session of the Asia-Pacific Forestry Com. 2022

"We know that the construction sector can even be turned from a carbon source into a sink, if organic building materials like wood and smart technologies like Al are applies"



Ursula Von Der Leyen
President of the EU Com.
State of the Union Address,
September 16, 2020



## **On-going activities**











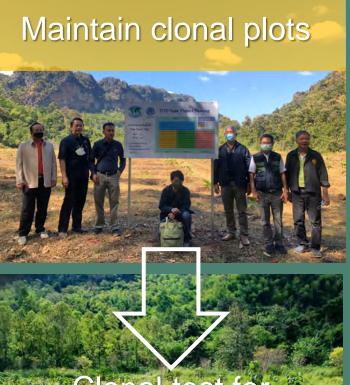
**Yongyut Trisurat**, Kasetsart University, Thailand



59th ITTO Council Meeting 13-17 November 2023 @Pattaya

# Fields & Training













## Way Forward

#### **High-quality timber**

- Micro-finance (land- and tree collateral schemes)
- Optimize rotation & diversify markets
- Good quality materials & silvicultural practices

#### Carbon neutrality & net zero

- Perception of SWU/SFM
- High-value products from modern design
- Carbon credit/ESG framework
- Embedded forest plantation into NDC
- Target areas: marginal and vulnerable lands (30-40%), smallholder and commercial plantations (inter-cropping)









### Conclusions









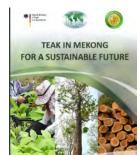


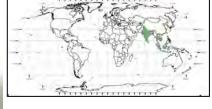






Teak phase I 2019-2022





**Teak Phase II** (2023-2026) South-South Cooperation

**Knowledge sharing** (LK and modern practices)

- Legal supply chains of smallholder plantation
- Production of high-quality timber
- Financial scheme/ carbon credit
- Knowledge sharing & networking

































