

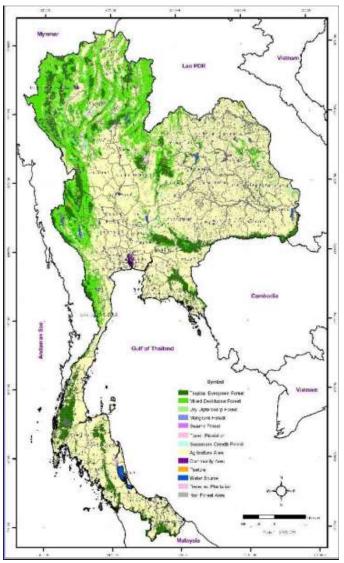
TRAT FOREST RESTORATION RESEARCH AND DEVELOPMENT, THAILAND

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Asia-Pacific Forestry Week AKECOP SIDE EVENT 15 Years of AKECOP: Experiences and Lessons Learned Date: February 24, 2016

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THAILAND: GENERAL INFORMATION



Country area: 514,000 sq.km

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LESSON LEARNED

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- Forest cover by policy: 40%
- Forest cover in 2007
 - **30.92** %
- Types of forest
 - Evergreen forest
 - Tropical evergreen f.
 - Dry evergreen f.
 - Mangrove forest
 - Swamp forest
 - Beach forest
 - Deciduous forest
 - Mixed deciduous f.
 - Dry dipterocarp f.
 - Pine-deciduous dipterocarp f.

TRAT PROVINCE



- Eastern most province
- Province area: 2,866 sq.km.
- Forest cover
 - in 2000: 33.2%
 - In 2009: 25.9%
 - In 2014: 31.4%
- TAFRTS
 - Established in 1994
- AKECOP
 - Joined in 2002



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CONTENTS

- Forest in the past ^b
 - Historical background

• Development of AKECOP research

- Stage I: Team building
- Stage II: Participatory Forest Restoration
- Stage III: Developmental Model

Conclusion

- Lessons learned 🖞
- Recommendation



Logging Ban in 1989

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HISTORICAL BACKGROUND OF THE RESEARCH STATION

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HISTORICAL BACK/ROUND

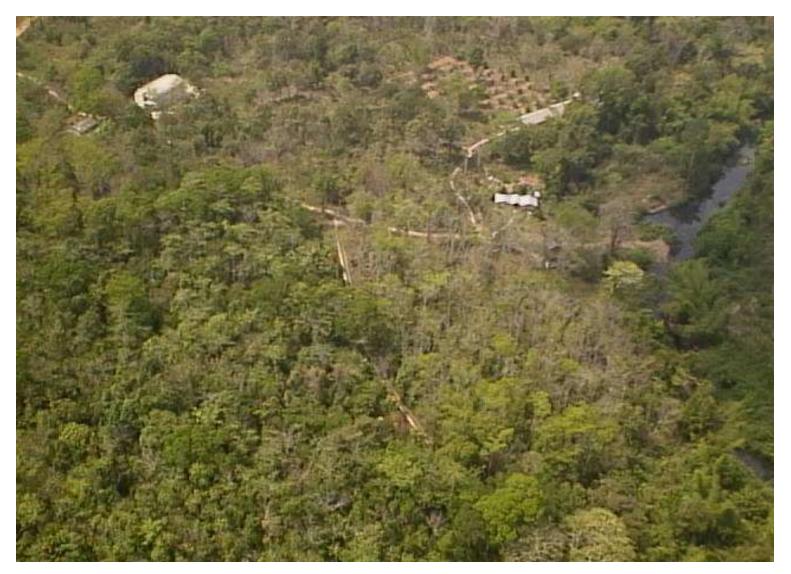
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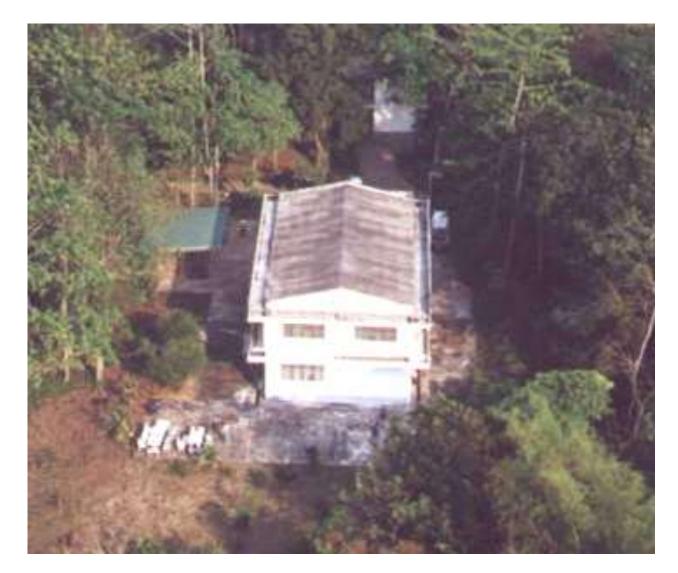
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1994: TRAT RESEARCH STATION





1996: TRAT R.STATION



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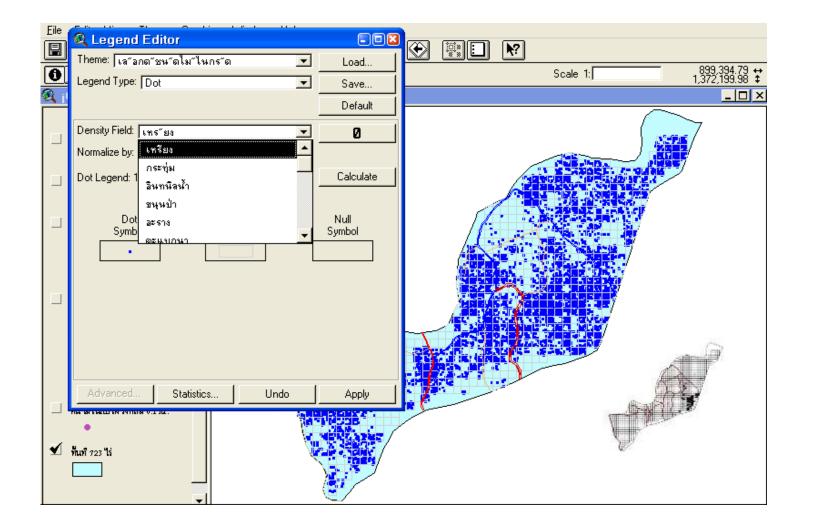
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GIS DATABASE INITIATIVE



Vegetation Map of ~ 144 tree species

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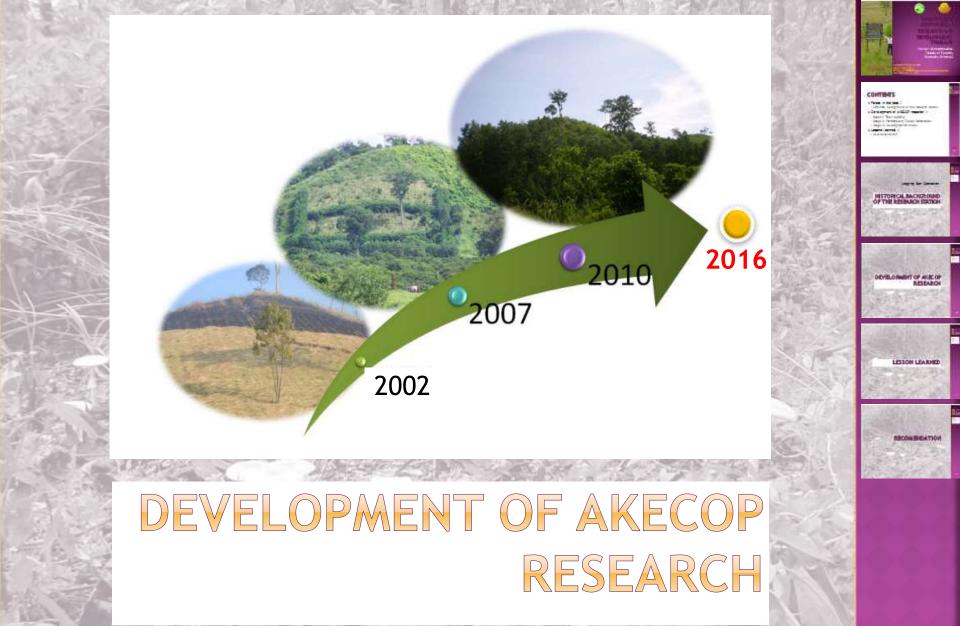
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Efficiency of Different AF Model in Soil, Nutrient and Water Conservation

Economic Evaluation on Direct and Indirect Benefit of AF Resources Processing Technology of Agricultural Products Channeling from HH to CL

Development of Wood Utilization from Agroforestry Systems Structural Improvement OI Secondary Porest

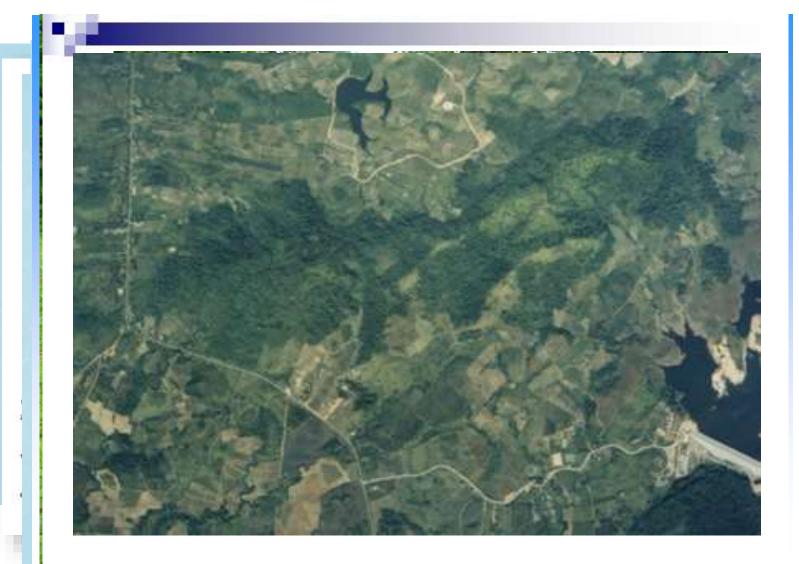


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HISTORY/TIMELINE

| | | | Surrey Statistics |
|-----------------------------|---|--|--|
| 2015 | Regional Research | Conference Meeting | CONTINUES Normal Particular Normal Particular - Search Sector 2 (NEC) New York - Sector 2 (NEC) New Yor |
| 2014IV 2013 2012 | Development Model of Forest Restoration Project through Collaborative Research | Training 2015:1M 2014:1M 2013:1M 2012:1C | HETTORICAL BACKGROUP |
| 2011 | | 2044 214 | A Contraction |
| 2010 _{III} 2009 | Restoration of degraded terrestrial forest and mangrove forest ecosystem in Thailand | 2011:3V 2010:1G 2009:1G1ST 2008:1G | LESSON LEARNED |
| 2008 | | | RECONSIDERTION |
| 2007 2006 | Silvicultural Management for Restoration of Logged-Over Area and Agroforestry Development through Collaborative Efforts | 2007: 2006: 2005: | |
| 2005 2004 | Assessment on Agroforestry Species for Regeneration of Degraded Forest Land and Increasing Biodiversity in Huairang- Klongpeed Watershed, Trat province, Thailand | 2004: 1C 1S | |
| 2003 2002 | AKECOP is a collaborative project between ASEAN member countries and the Republic of Korea established since 2000. | 2003: 1C 1S | 12 ע |

STAGE I: BUILDING TEAM



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LESSON LEARNED

STAGE II PARTICIPATORY FOREST RESTORATION

Youth training on bio-resources conservation







STAGE II PARTICIPATORY FOREST RESTORATION



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Figure 7. Planting day activity on June 28th, 2008.

| Species | Allometric equations 2 R | сонтвитя |
|-----------------------|--|--|
| Rhizophora apiculata | ASEAN-KOREA Environmental Cooperation Unit | Dense support of the dense benerative support tension support tension Manufacture |
| | Litter production and decomposition were determined from sampling using | INSTORIC OF THE RE |
| | litter traps and litter decomposition bags. Nutrients in litter were analyzed. The results | 28.09 |
| | are summarized in Tables 1-8 below. | DEVELOR |
| Rhizophora mucronata | Table 1 Species density by size (trees, saplings and seedlings) based on sample plot data | |
| | Table 2 Relative density, frequency and dominance plus important value index based on sample plot data | LE |
| | Table 3 Measured data for trees saplings and seedlings based on sample plot data | 19458 |
| | Table 4 Biomass by component based on sample plot data | |
| | Table 5 Increment by component based on sample plot data | 125.55 |
| Excoecaria agallocha | Table 6 Periodic seasonal litterfall based on sample plot data | |
| | Table 7 Nutrient status of seasonal litter fall based on sample plot data | |
| | Table 8 Seasonal decomposition rate based on sample plot data | K |
| | L0gW11.079265+0.575519(L0gD 11) | |
| Bruguiera cylindrical | 2 0.9905 | |

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STAGE III DEVELOPMENTAL MODEL



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STAGE III DEVELOPMENTAL MODEL

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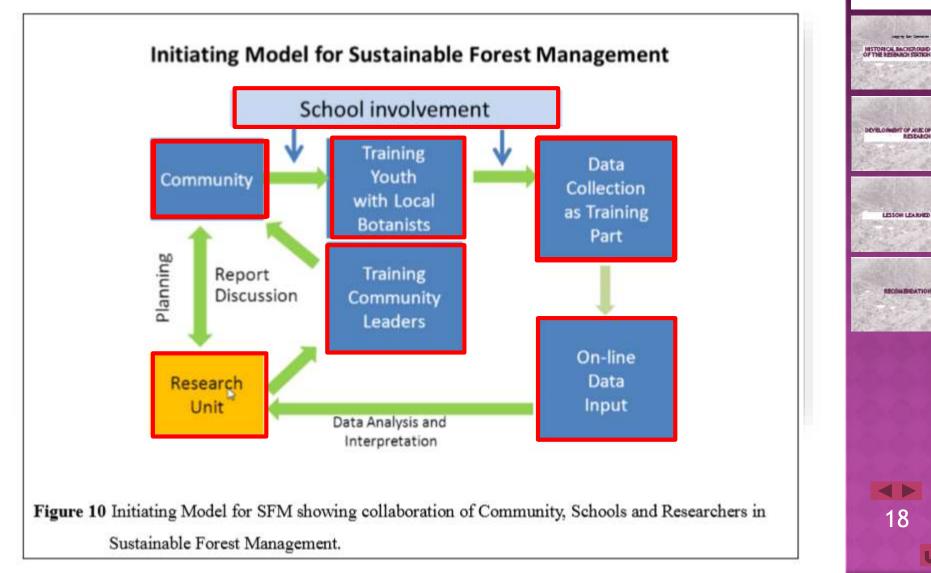
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STAGE III DEVELOPMENTAL MODEL



Figure 15 Presentation of structural characteristics of the community forest and silvicultural implications to the community forest committees.

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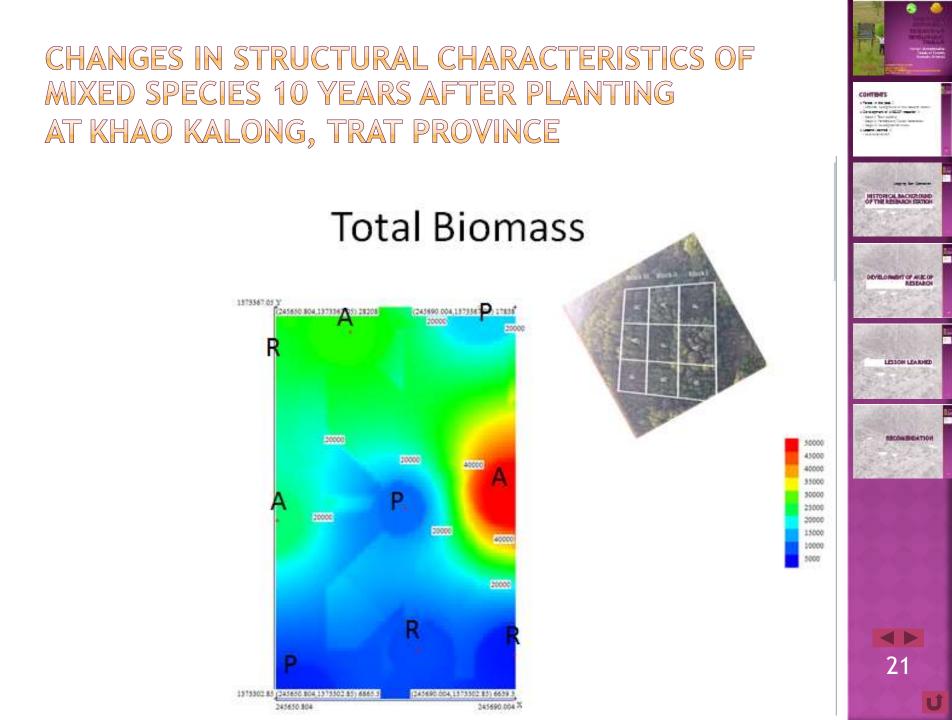
LESSON LEARNED

RECOMBERATION

CONTINUING

- Monitoring forest dynamics at Khao Kalong site
- Conducting more training to improve the developmental model





LESSON LEARNED

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LESSONS LEARNED

- Forest restoration is not just planting trees, but also community involvement, knowledge and maintenance, and on-going benefit.
- Local people like to be involved and consulted, but it is hard for them to understand the scientific complexity.
- 3. The right people to involve are not necessarily those who will get the direct benefits.
- Keep expanding the number of people involved each year and maintain participants' (community and researchers) interest through regular coordinated activities.

LESSON LEARNING

LESSONS LEARNED

- Start community involvement with schools, but build up slowly to get long term success.
- The results and activities should be expanded to other areas to maximize ongoing benefit.
- Must adapt project expectations over time because forest is dynamic and changes with time.



LESSONS LEARNED

- 8. Research output must be readily available and generate policy input.
- 9. Monitoring and research results must be regularly entered into a central, wellmaintained database so the information can be more widely used.
- Successful forestry requires long-term commitment and handover including the administration.



CONCLUSION

- 15 years of AKECOP has been a worthwhile and rewarding experience.
- For the future, cooperation must be continued.





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