













Management of the Emerald Triangle Protected Forests Complex to Promote Cooperation for Trans-boundary Biodiversity Conservation between Thailand, Cambodia and Laos

ITTO-CBD-Birdlife International Side Event UN CBD COP 13

Cancun, Mexico, 8 December 2016









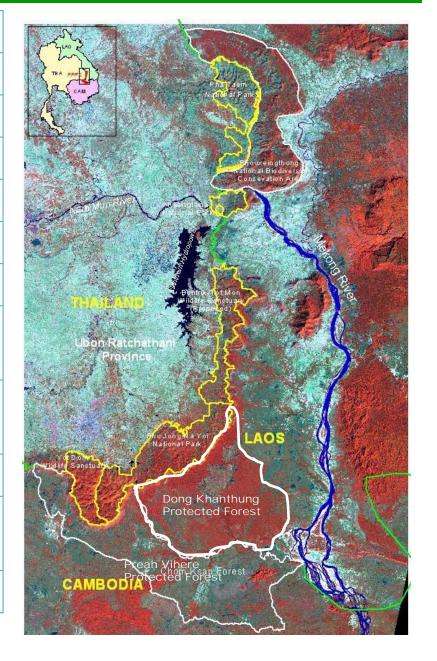
Cambodia and Thailand Project Teams

ITTO TBCA Projects

Case	Locations of Projects	Area of Influence
1	Borneo - Malaysia and Indonesia	2.4 MM ha
2	Emerald Triangle Complex – Thailand, Cambodia and Laos	0.65 MM ha
3	Kabo-Ndoki Region - Congo	1.3 MM ha
4	Mengamé-Minkébé Gorilla Sanctuary - Cameroon & Gabon	0.13MM ha
5	Cordillera del Condor – Ecuador & Peru	2.4 MM ha
6	Tambopata-Madidi Protected Area – Peru and Bolivia	4.2 MM ha
	Total	11.3 MM ha

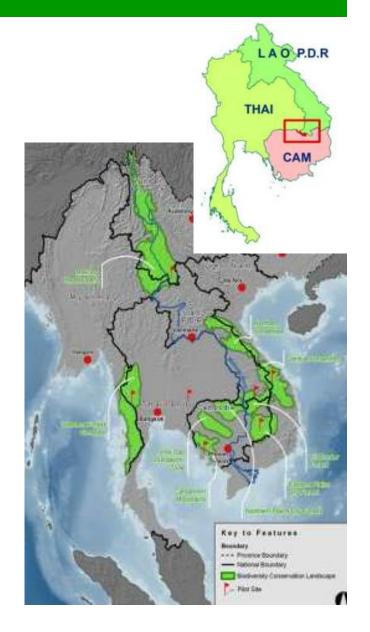
The Emerald Triangle Protected Forests Complex

Component	Area (sq. km)
Pha Taem NP	353
Kaeng Tana NP	84
Phu Jong-Na Yoi NP	697
Yot Dom WS	235
Buntrarik-Yot Mon WS	365
Sub-total	1,734
Phou Xieng Thong NBCA	1,200
Dong Khanthung Protected Forest	1,700
Sub-total	2,900
Preah Vihear Protected Forest	1,900
Total	6,534



The Emerald Triangle Protected Forests Complex

- The largest remaining, extensive intact block of a unique landscape of global importance for biodiversity conservation and climate change mitigation and adaptation.
- One of the most important Biodiversity Conservation Corridors of the Greater Mekong Sub-region.
- The last refuge for populations of more than 50 wildlife species on the IUCN Red List, including ten species which are listed as Critically Endangered.







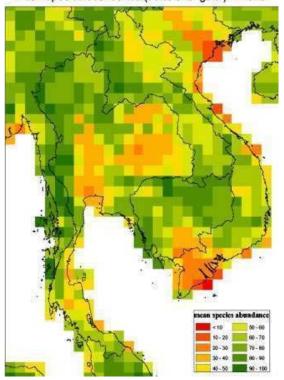


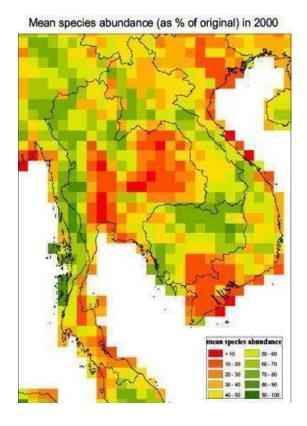
Wildlife Distributions in Heterogeneous Landscapes

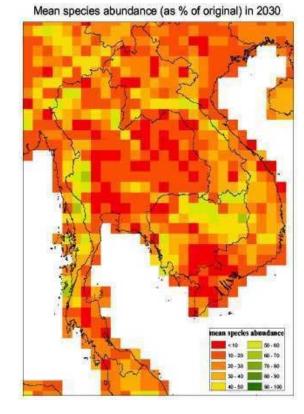


Trend of Species Abundance in Greater Mekong Sub-Region

Mean species abundance (as % of original) in 1970







Source: Ben ten Brink "BCI Measuring and Modelling Biodiversity;" 2006.







Iconic Wildlife Species

Species which formerly occurred in the PVPF, but apparently no longer occur there:

- Asian Two-horned Rhinoceros Dicerorhinus sumatrensis,
- Lesser One-horned Rhinoceros Rhinoceros sondaicus (last observed in Cambodia in 1930s),
- Kouprey Bos sauveli (last confirmed observation in Preah Vihear in 1964),
- Wild Water Buffalo Bubalus bubalis (last confirmed observation in Preah Vihear in 1964),
- Indochinese Tiger Panthera tigris (last confirmed observation in Preah Vihear in 2003), and
- Asiatic Black Bear Ursus thibetanus and Large-antlered Muntjac Megamuntiacus



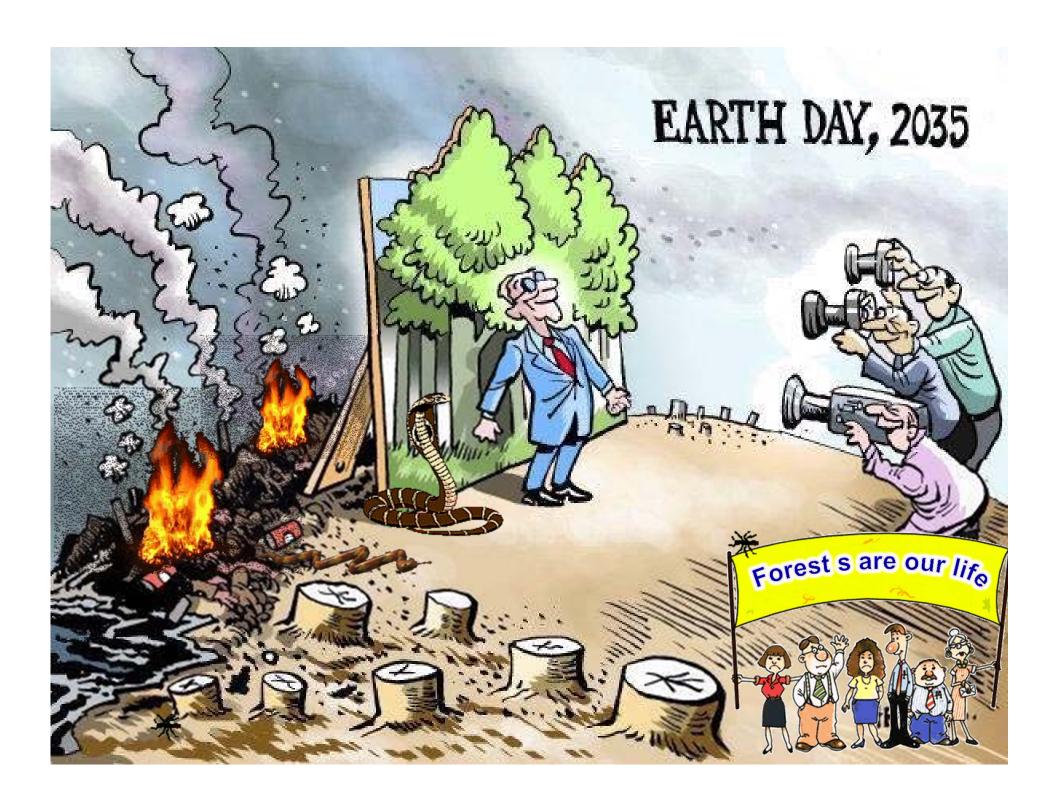












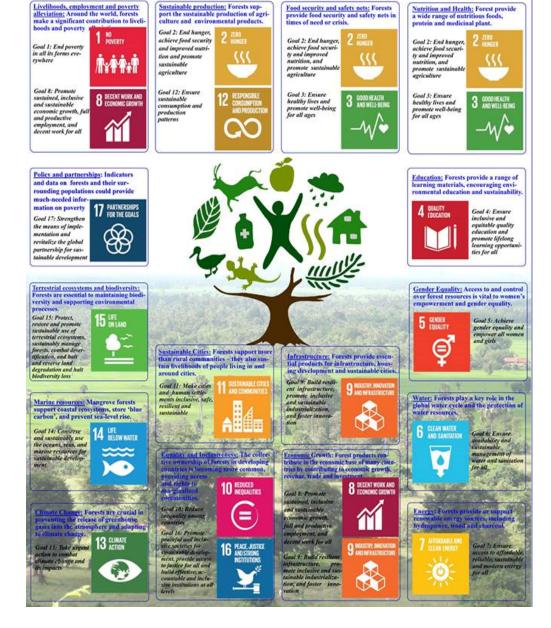
The Emerald Triangle Protected Forests Complex Project

Phase I 2001-04	- "Soft cooperation" - To initiate management planning process in a framework of Trans Boundary Conservation Areas (TBCAs).	Thailand (Cambodia)	US \$629,624 Japan Switzerland USA
Phase II 2008-10	 Establish Common Vision as a collaborative management framework and improve community livelihoods. To enhance protection measures and monitoring of biological resources of TBCAs through involvement of relevant stakeholders and local communities. 	Thailand & Cambodia	US \$688,205 Japan Switzerland USA
Phase III 2012-16	 Joint wildlife monitoring research and on-the-job training. To strengthen the protection of trans-boundary habitats of protected wide-ranging species in the Emerald Triangle. 	Thailand, Cambodia & Lao PDR	US \$2,051,000 Japan under collaborative initiative of ITTO, CBD, & JICA at CBD COP 10, Nagoya, 2010.

Better Informed Decisions in Protection of Trans-boundary Biodiversity Resources

Outputs of Phase III Sustainable Development Goals 2030

Forest Ecosystems provide food, clean water and energy, as well as various other benefits, and are essential for human well-being. It must be recognized that the provision of these goods and services ultimately depends on the ecological processes of well-functioning forest ecosystems.



Outputs of Phase III Aichi Biodiversity Targets

Project Outputs

Aichi Targets

- I. Management plans incorporating research results on wide-ranging species and ecological processes are established and implemented.
- II. Capacity of multi-stakeholders in biodiversity conservation and monitoring is strengthened.
- III. Local communities are empowered to implement activities linking livelihoods improvement.

Target 5: By 2020, the rate of loss of all natural habitats, including forests, is at least halved.

Target 7: By 2020, forests are managed sustainably,%.

Target 11: By 2020, 17 per cent of terrestrial ... areas ..., are conserved through well connected systems of protected areas.

Target 15: By 2020, restoration of 15 per cent of degraded ecosystems.



Capacity Building GIS Mapping

TETFC

- Introduction to GIS, Map Reading and GPS
- GIS Modeling for Forest Land Use
- Species distribution modeling

Wildlife Surveys: making effective use of guide books, camera traps, interviews







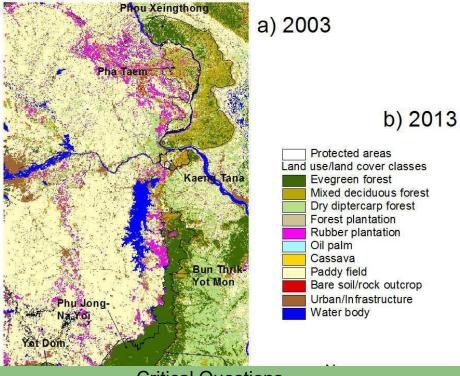


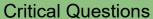


LAND USE/LAND COVER









- •What are key drivers and future land use patterns?
- •Where are good habitats for landscape species in the ETFC?
- •What does landscape ecology contribute to trans-boundary habitats and the conservation of biodiversity (CBD Aichi 2020 Targets)?



Raising Awareness and Improving Livelihoods





Food Bank Nursery



Painting Competion
Home Stay



Bamboo Plants Handicrafts



Law Enforcement in Cambodia











National Arbor Day in Cambodia

Demonstration of ETFC partnership with His Majesty the King

His Majesty the King of Cambodia provides a Royal audience to the Forestry Administration and reviews the Management Plan of the Preah Vihear Protected Forest.









Training on GIS and land use planning mapping for Preah Vihear Forestry Administration Cantonment officers.







Delegates from Thailand, Cambodia and Lao PDR planting rosewood at the project headquarters of the Preah Vihear Forestry Administration Cantonment.









Capacity Building on GIS applications.







Connecting the puzzle

- Challenges for forest biodiversity conservation include: poverty; political commitment; governance; legal frameworks, institutions; and human and financial resources.
- Sound land use policy and security of tenure of gazetted forests are crucial for ensuring biodiversity conservation; Conservation, protection and production forests must be set aside in forest landscapes.
- Landscape-based ecosystem management of protected areas is increasing to support biodiversity corridors to landscape management (IPSI, UNEP-IEMP GMS initiative, ADB GMS Environment Program, HoB ...).
- Conservation can benefit communities, but efforts must be sustained and lead to self-reliance; Poverty may be alleviated through integrated forest biodiversity conservation and development activities that consider livelihood improvement to be high priority.
- Investment incentives (public and private) in natural capital to foster economic viability,
 with people centered/socially acceptable quality of ecosystem integrity.







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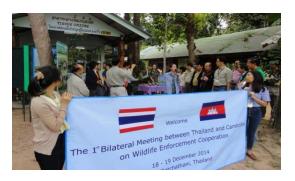
'Common Vision'



"By 2025, Cambodia, Laos and Thailand will have established a common cooperative framework for the conservation and sustainable management of the ETFC of the GMS in order to strengthen the protection of the trans-boundary habitats of wide-ranging wildlife species and will endeavor to maintain the viability and ecological integrity of the forest ecosystems and increase its land use and climate change adaptation capability to transform the ETFC into an international symbol of TBCAs."







Cooperation Continuum and Sustainability in the Emerald Triangle

- Technical cooperation has been enhanced, but sustainability remains a challenge.
- ☐ Showcase under the CBD/ITTO collaborative initiative at CBD COP 13.



- **✓** Joint ITTO proposal
- ✓ Information Sharing
 - **✓** Coordinated Implementation

- ✓ Management plans are compatible.
- ✓ Governance mechanisms are established;
- **✓** Bilateral or Trilateral Cooperation Agreements

✓ Joint management planning and implementation

Border Disputes





Trans-boundary Conservation Cooperation Continuum

Unilateral Actions

Coordination

Advanced Cooperation

Full Cooperation



Acknowledgements

























Thank You!