



Ecological Corridor Initiative of Protected Areas in Thailand

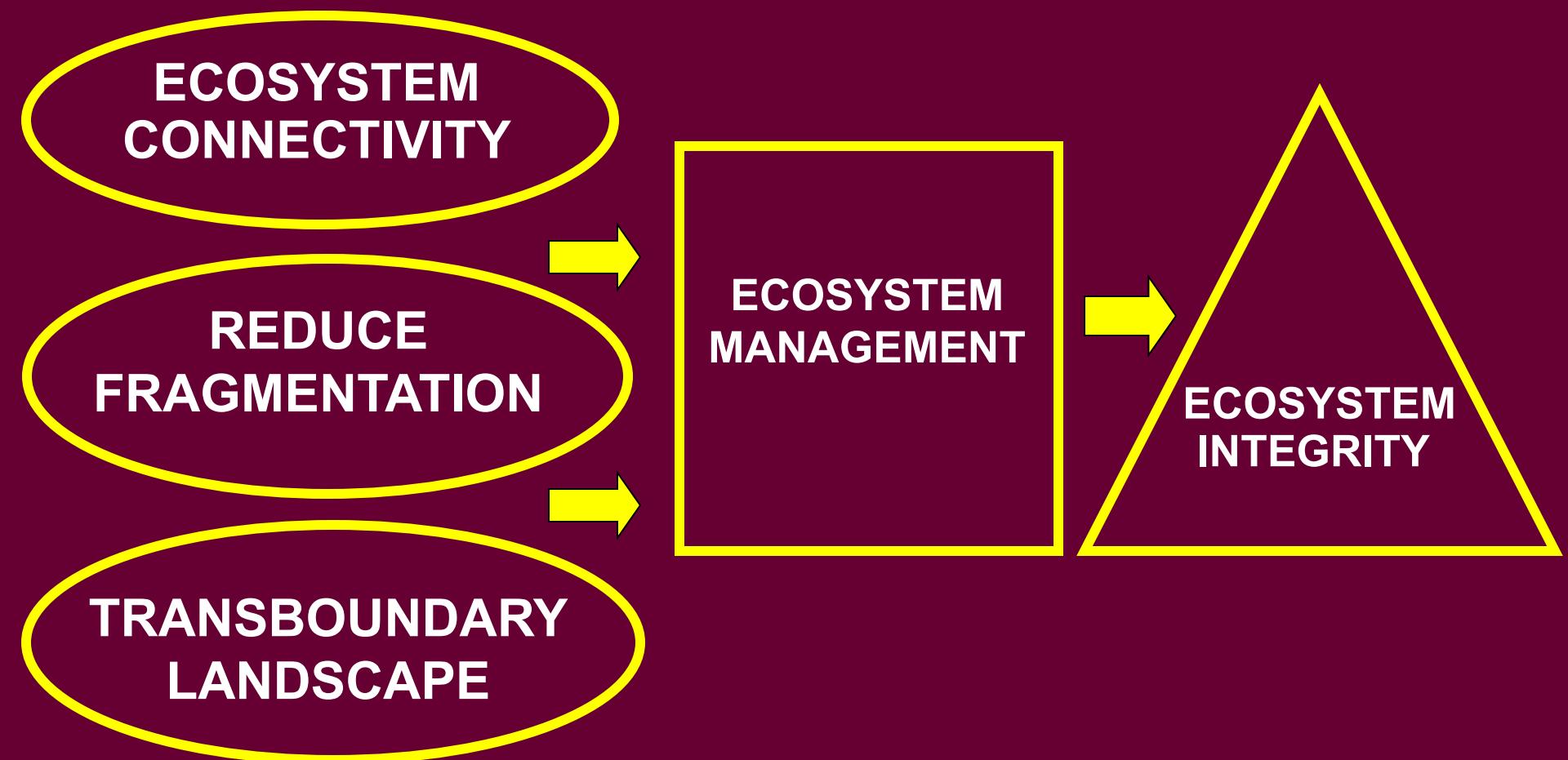
Dr. Songtam Suksawang

**Director, National Parks and Protected Areas Innovation Institute.
Expert for Forest and Wildlife Conservation.**

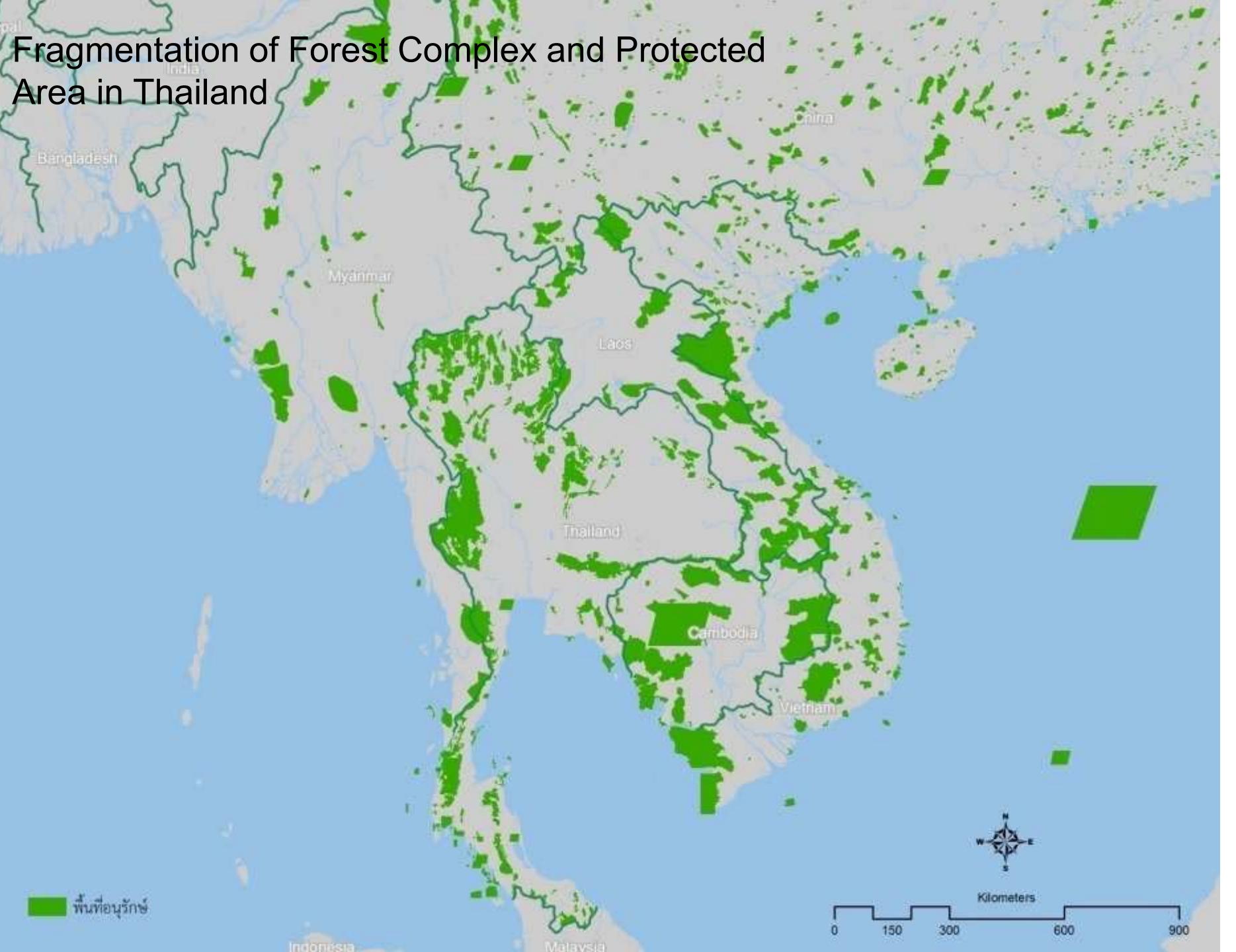
**Department of National parks , Wildlife and Plant Conservation
Ministry of Natural Resources and Environment of Thailand**



OBJECTIVES



Fragmentation of Forest Complex and Protected Area in Thailand



พื้นที่อนุรักษ์

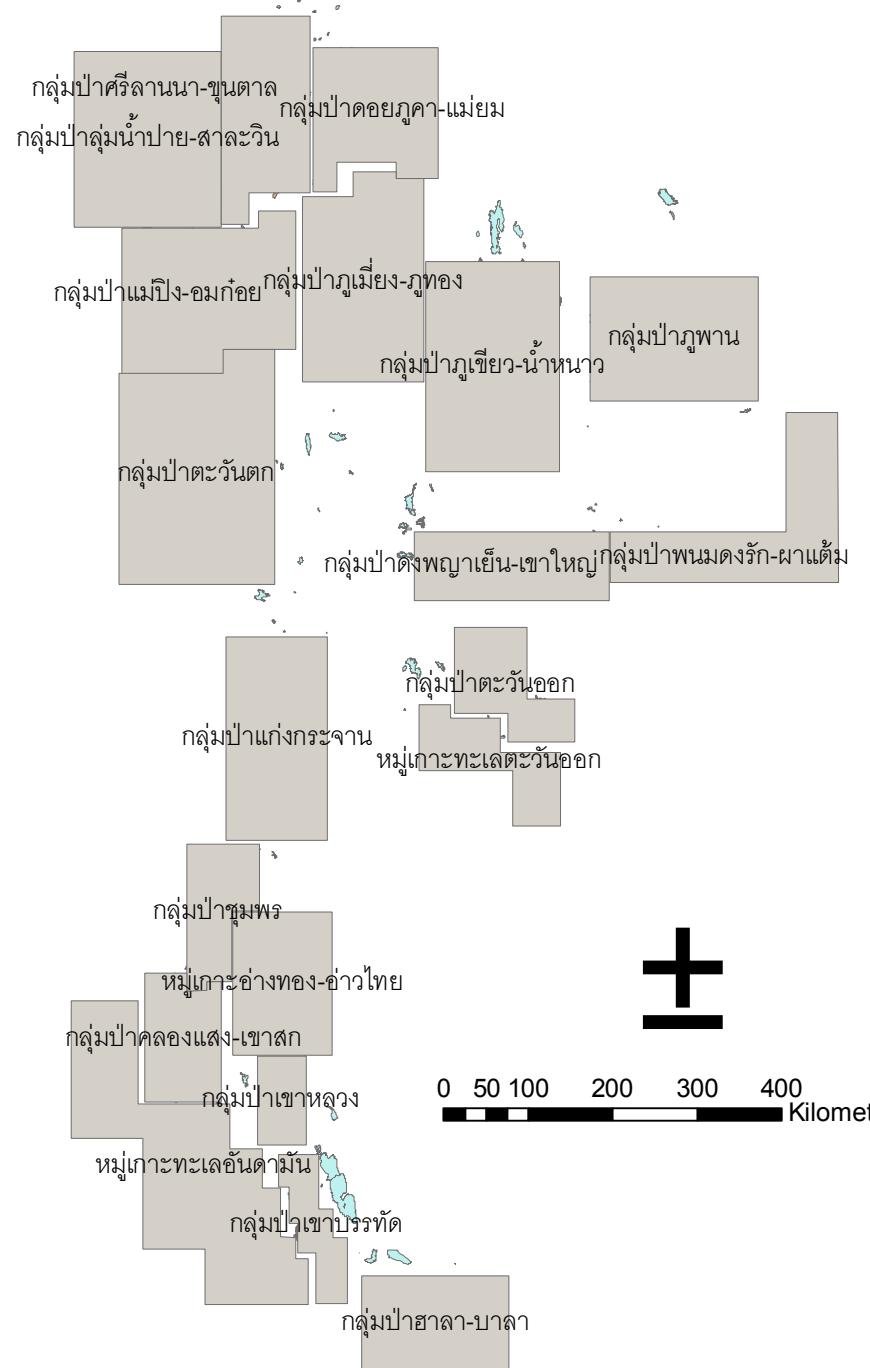
0 150 300 600 900
Kilometers

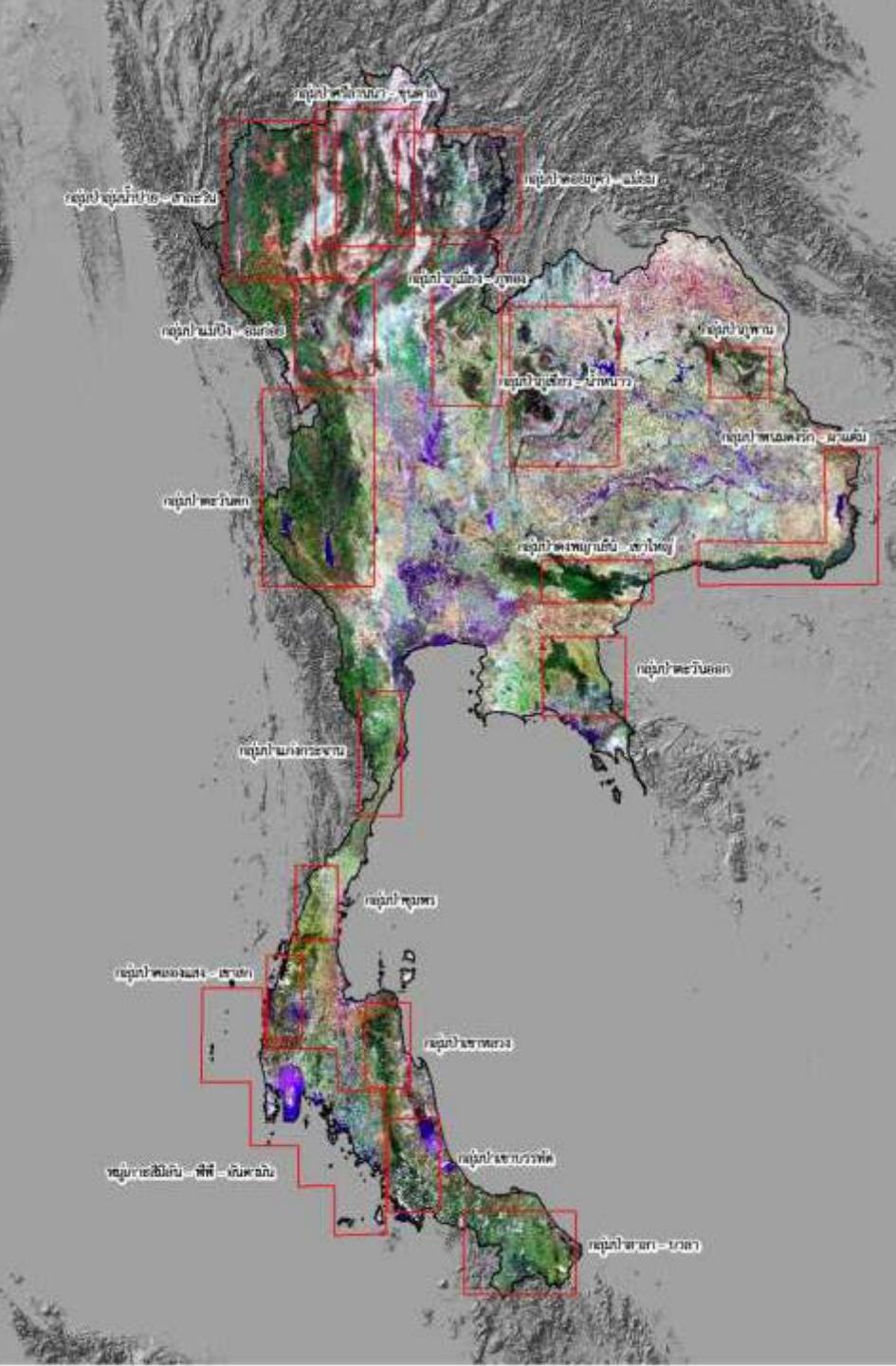
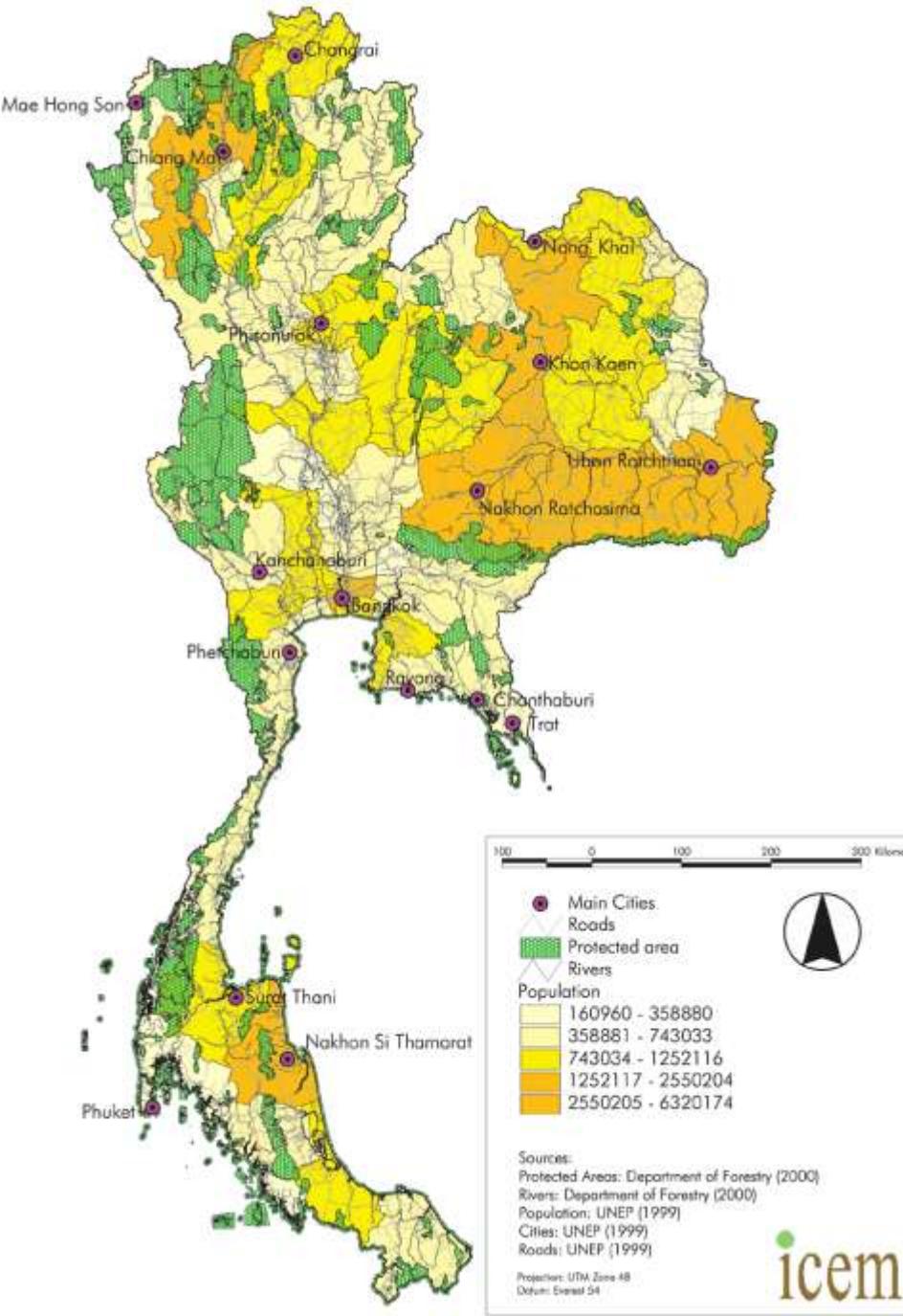
Forest fragmentation in Protected Area



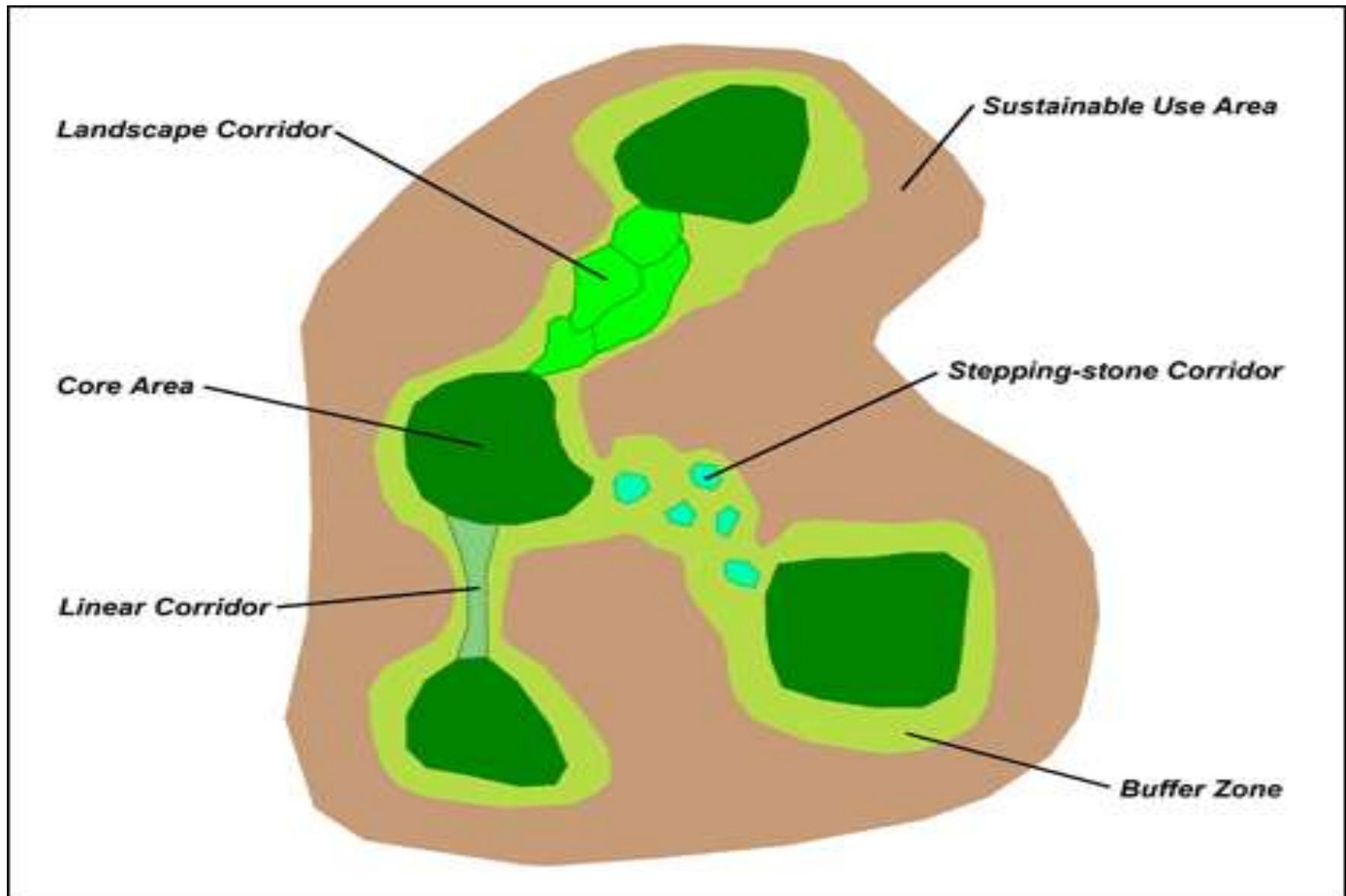
กลุ่มป่าของประเทศไทย

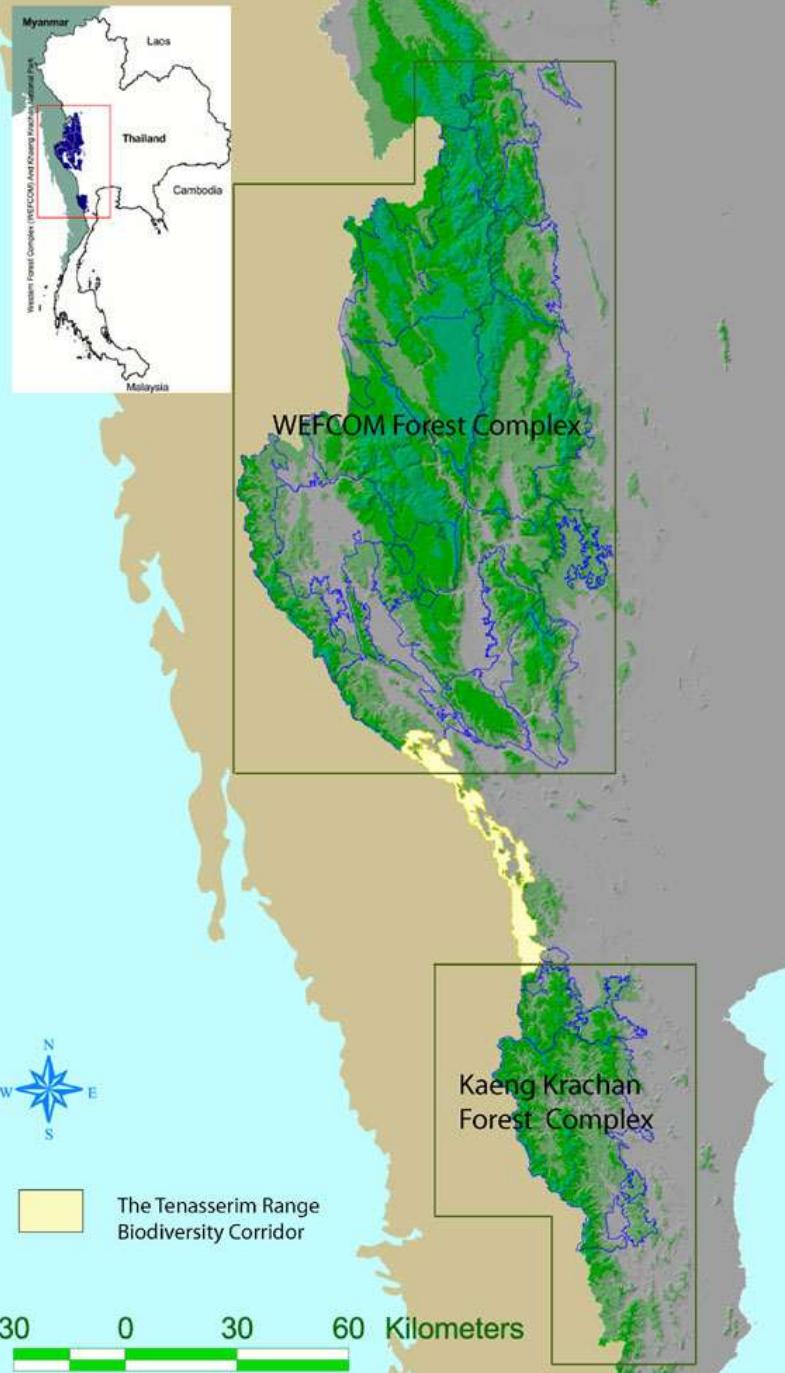
Thailand's Forest Complexes





Type of Ecological Corridor :





Tenasserim Biodiversity Conservation Corridor

Western Forest Complex (WEFCOM) Forest Complex

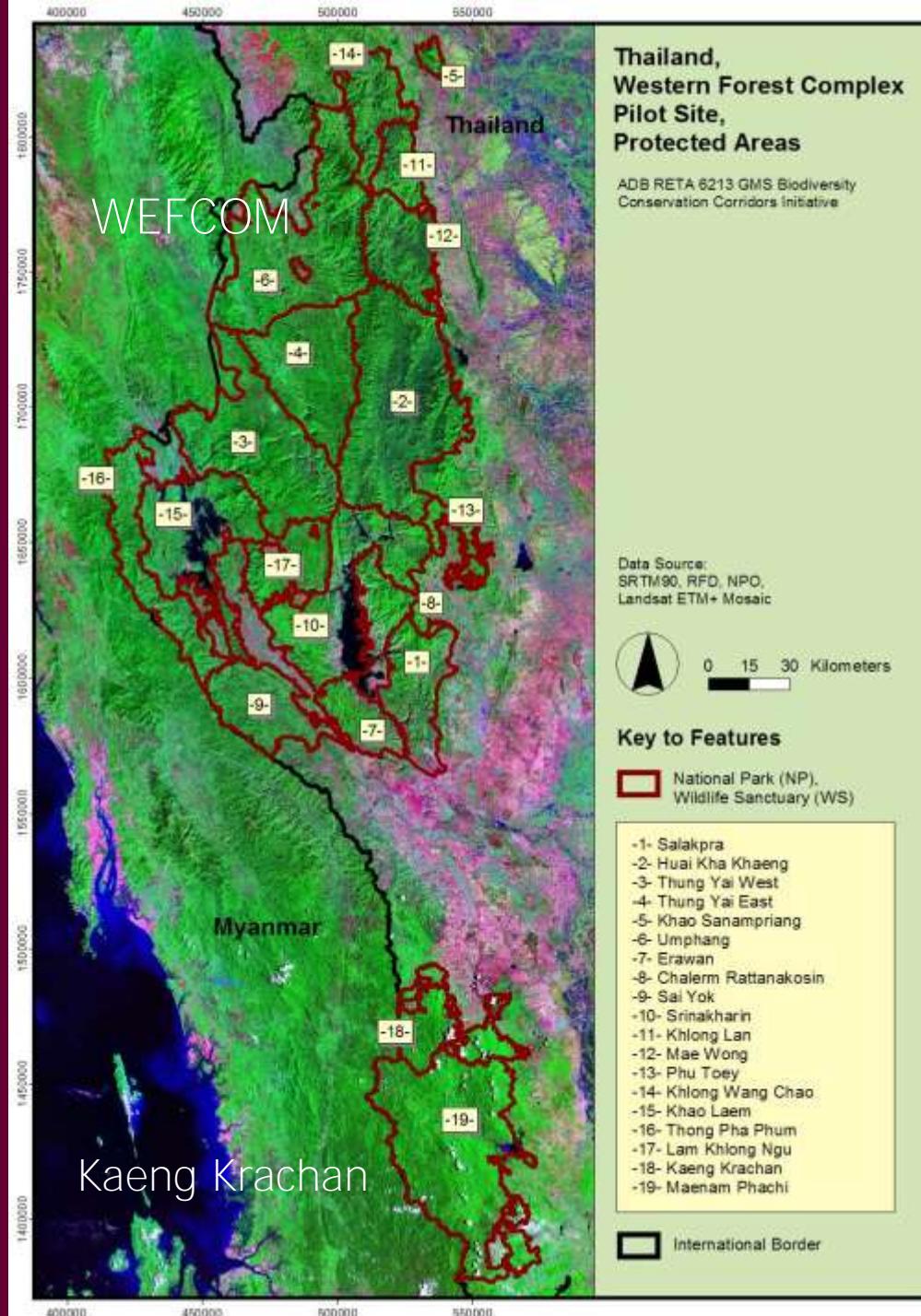
WEFCOM

- 11 NPs & 6 WSs
- Area 19,000 km², 6 provinces

Kaeng Krachan

- 3 NP & 1 WS
- Area 3,404 km², 3 provinces

High abundance forest cover (dark green)



Biodiversity Values

Ecoregions - WWF

- Kayah-Karen montane rain forests
- Tenasserim-South Thailand
Semi-evergreen rain forests



Major Habitat Type

- Tropical and subtropical moist broadleaf forest



Biological Distinctiveness

- Highest diversity of birds & mammals in Indo-Pacific Reg.
(Asian elephant & tiger)



UNESCO World Heritage Site

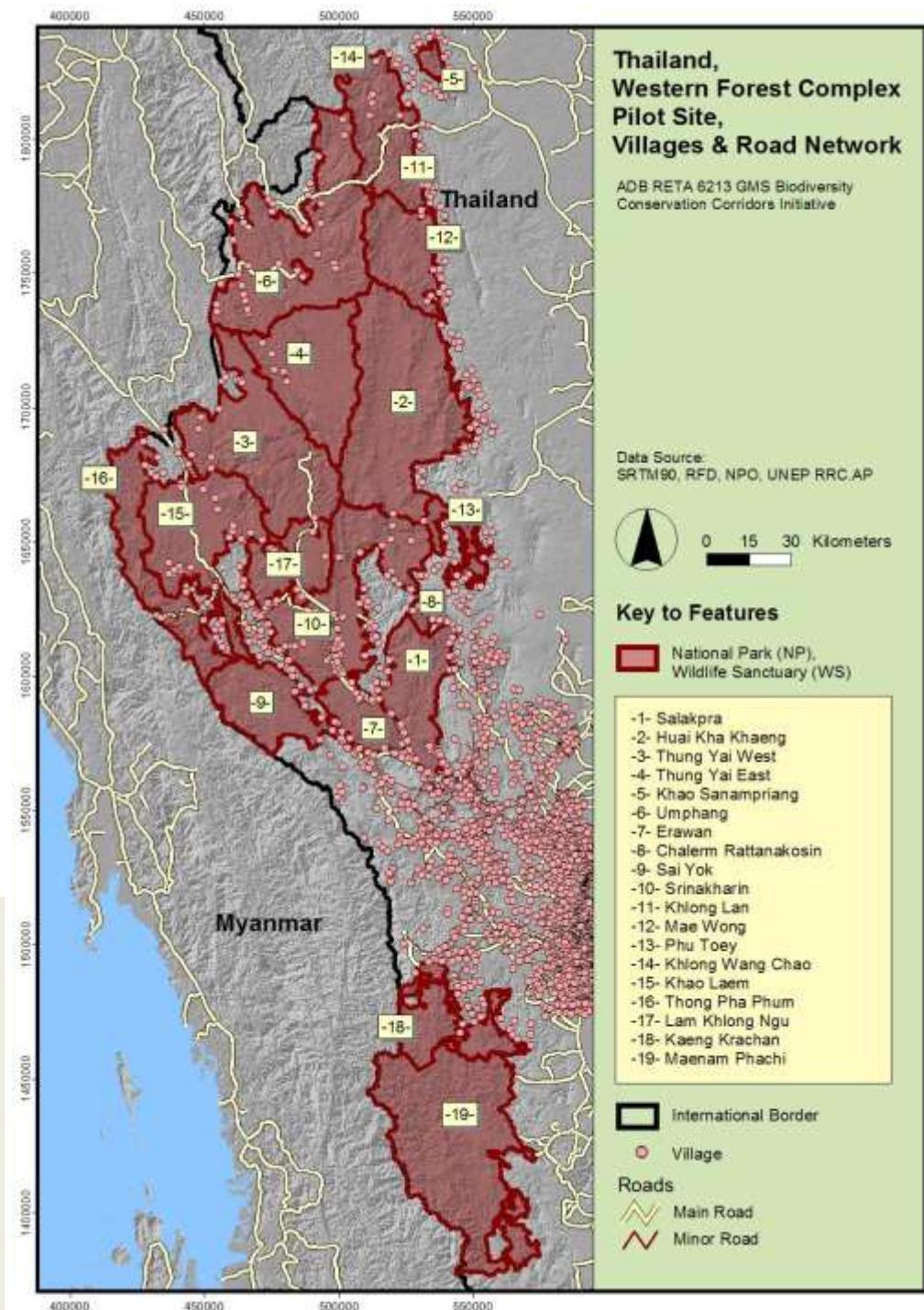
WEFCOM Area

- No. of villages: 215
enclaved communities: 112
- Total households: 14,512
- Total population : 69,000

Kaeng Krachan

Inside: 18 villages

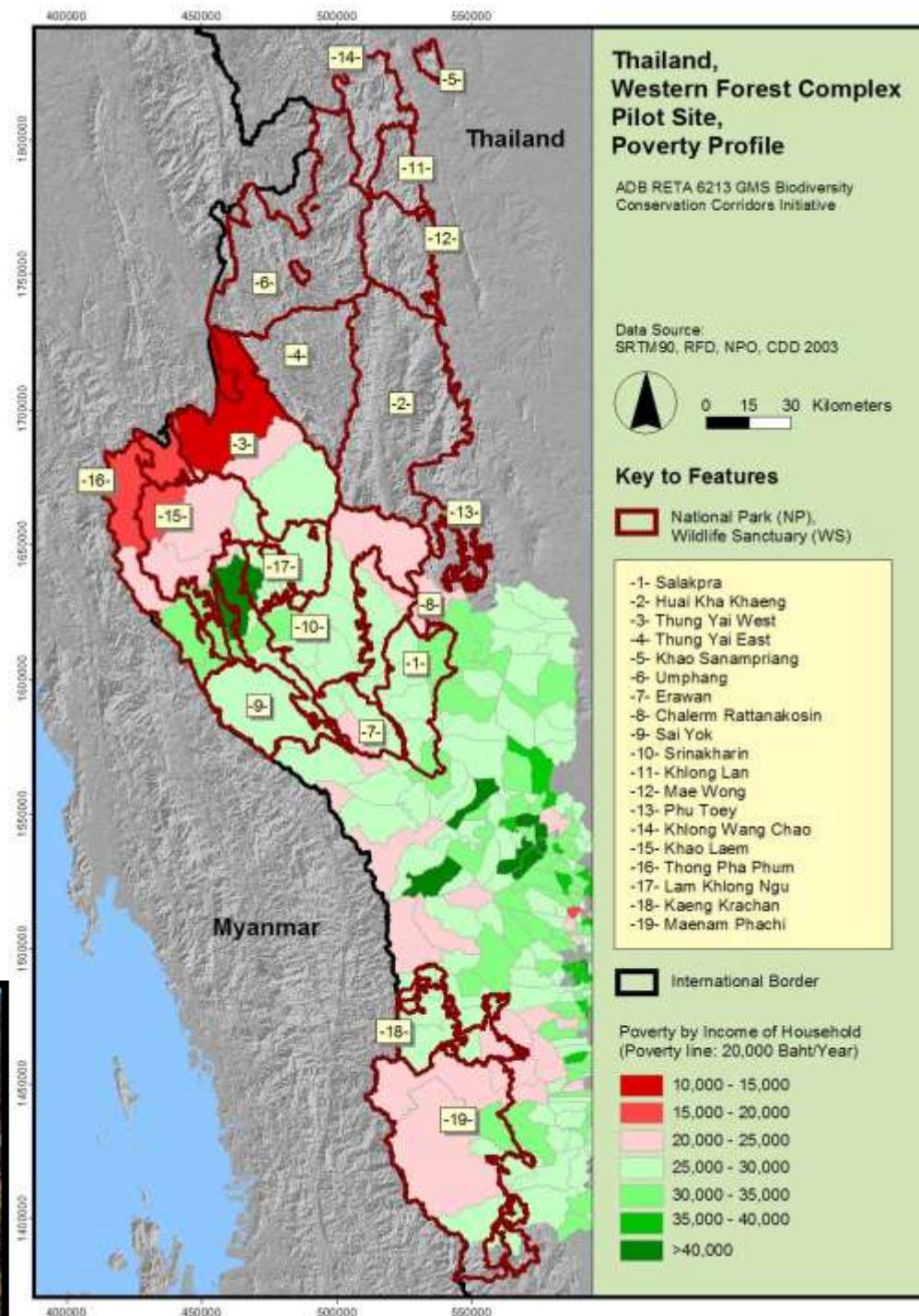
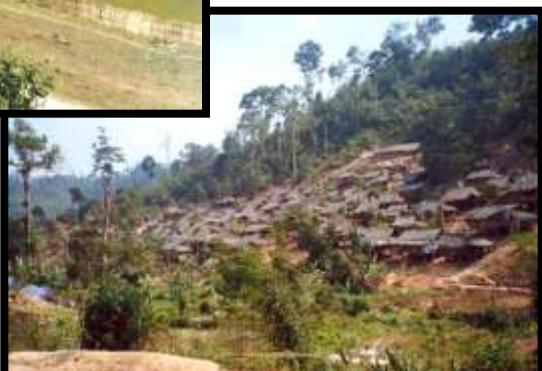
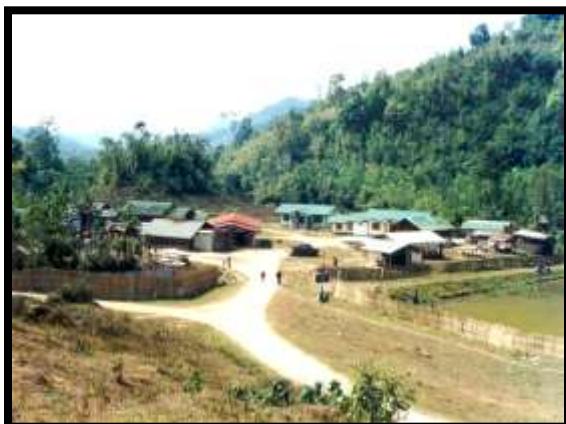
Buffer zone: 33 villages



TWFC: poverty incidence

8th NESDP (1997-2001)
<20,000 Baht or US\$ 500

9th NESDP (2002-2006)
<25,000 Baht or US\$ 625

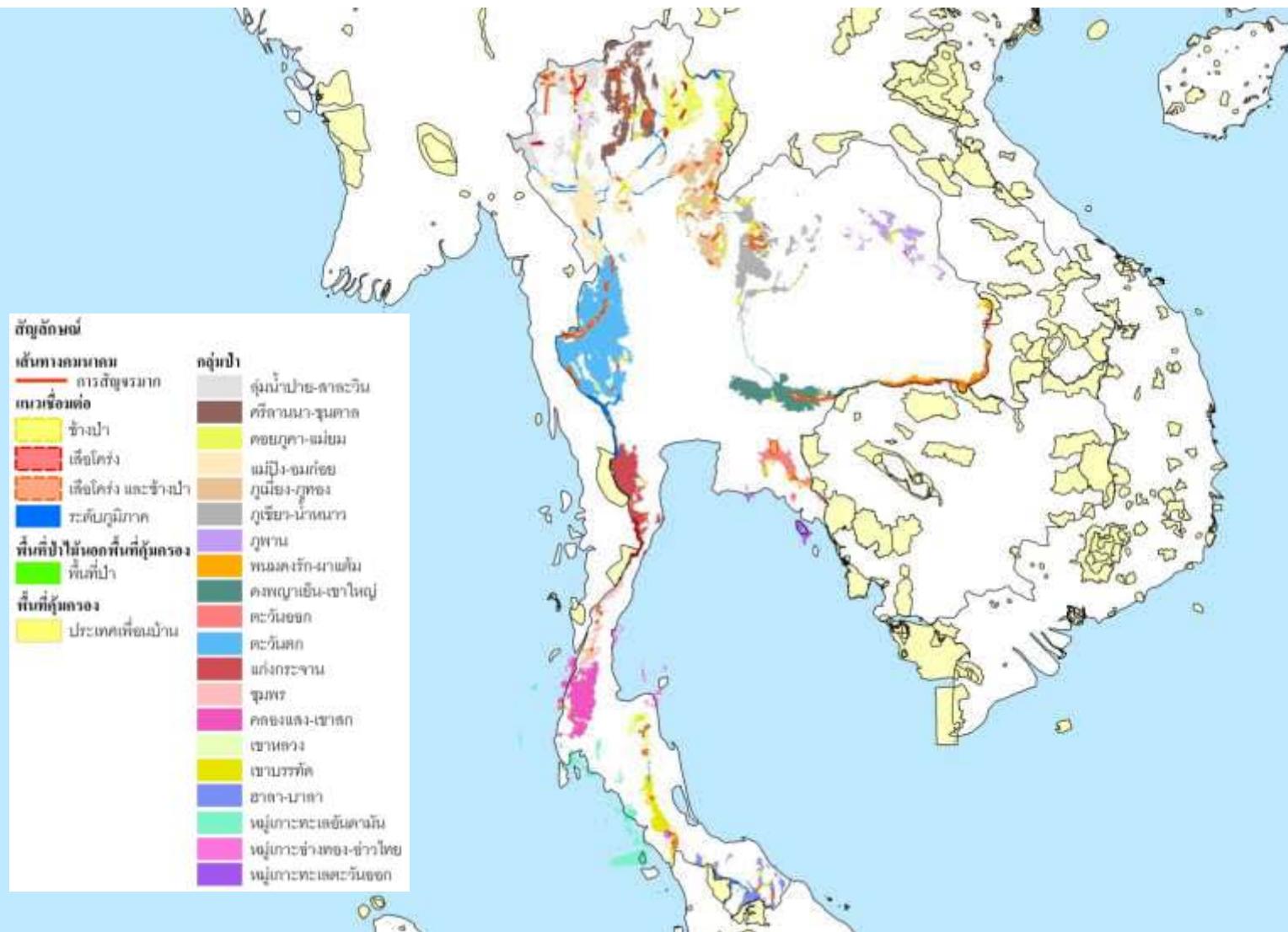


Threats

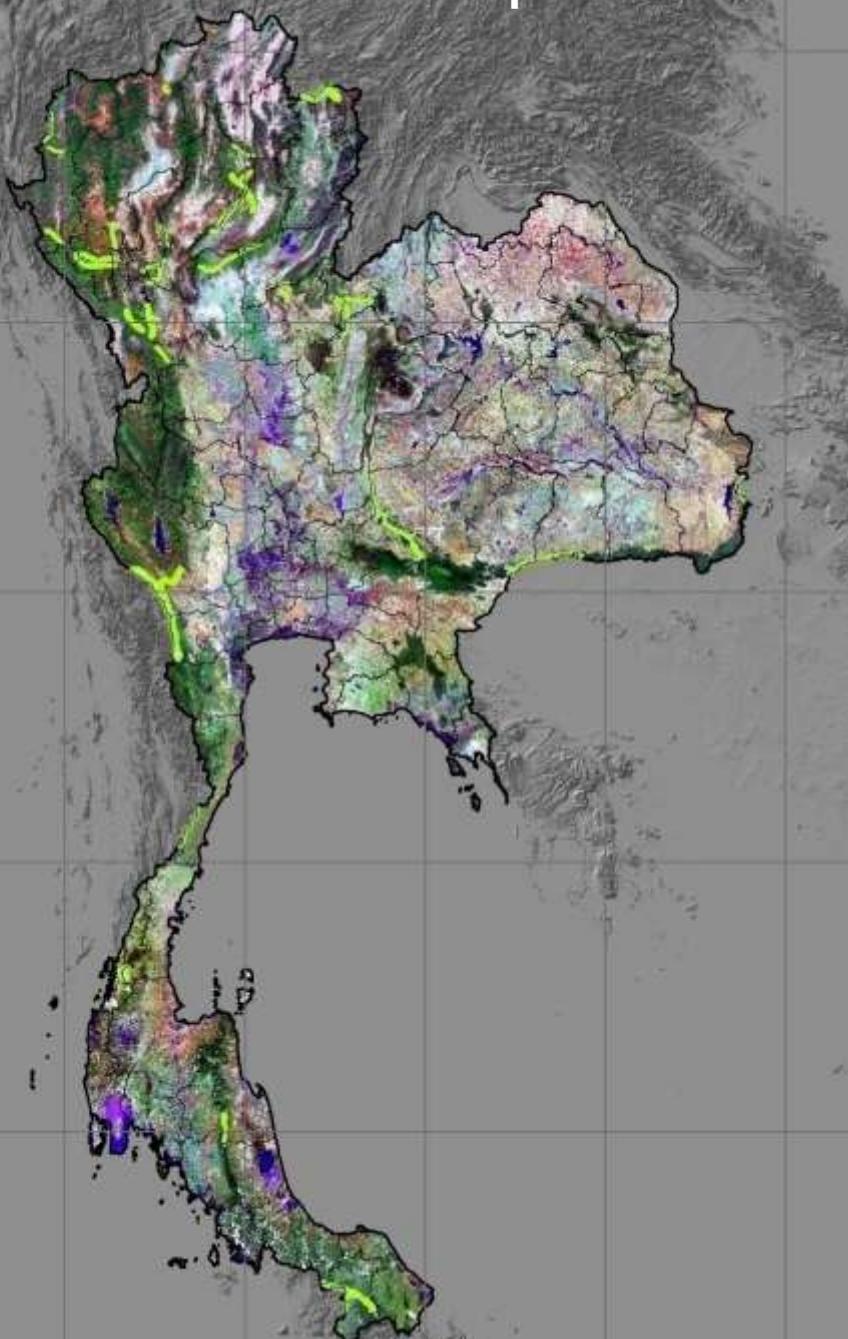
- Forest clearing and subsequent land encroachment;
- Small scale illegal logging;
- Influx of refugees and in-migration;
- Increasing settlement;
- Further fragmentation;
- Forest fires and repeated burning
- Commercial level and subsistence poaching



Thailand Inner Biodiversity Corridor



Corridor between forest complex

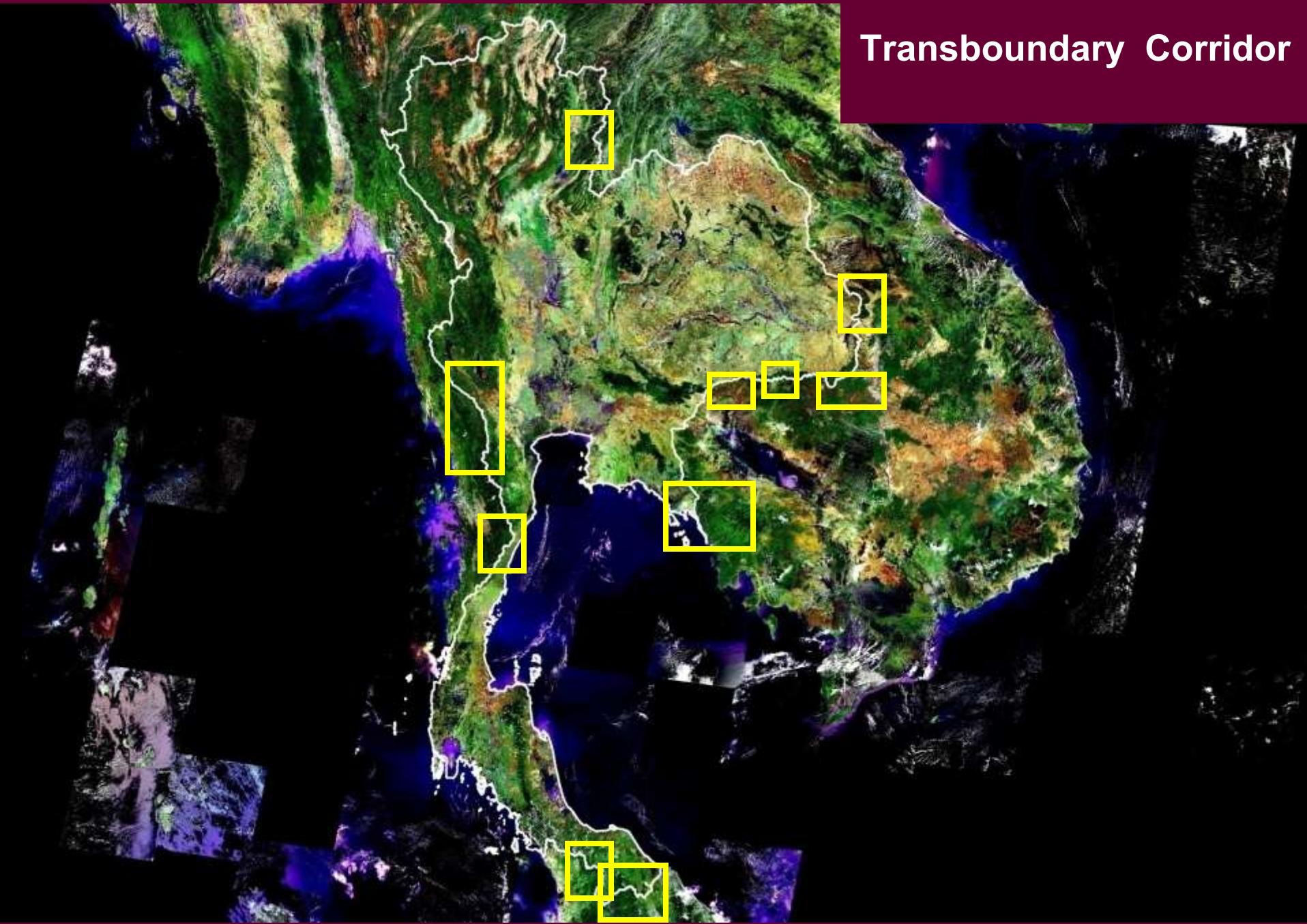


Tiger corridors

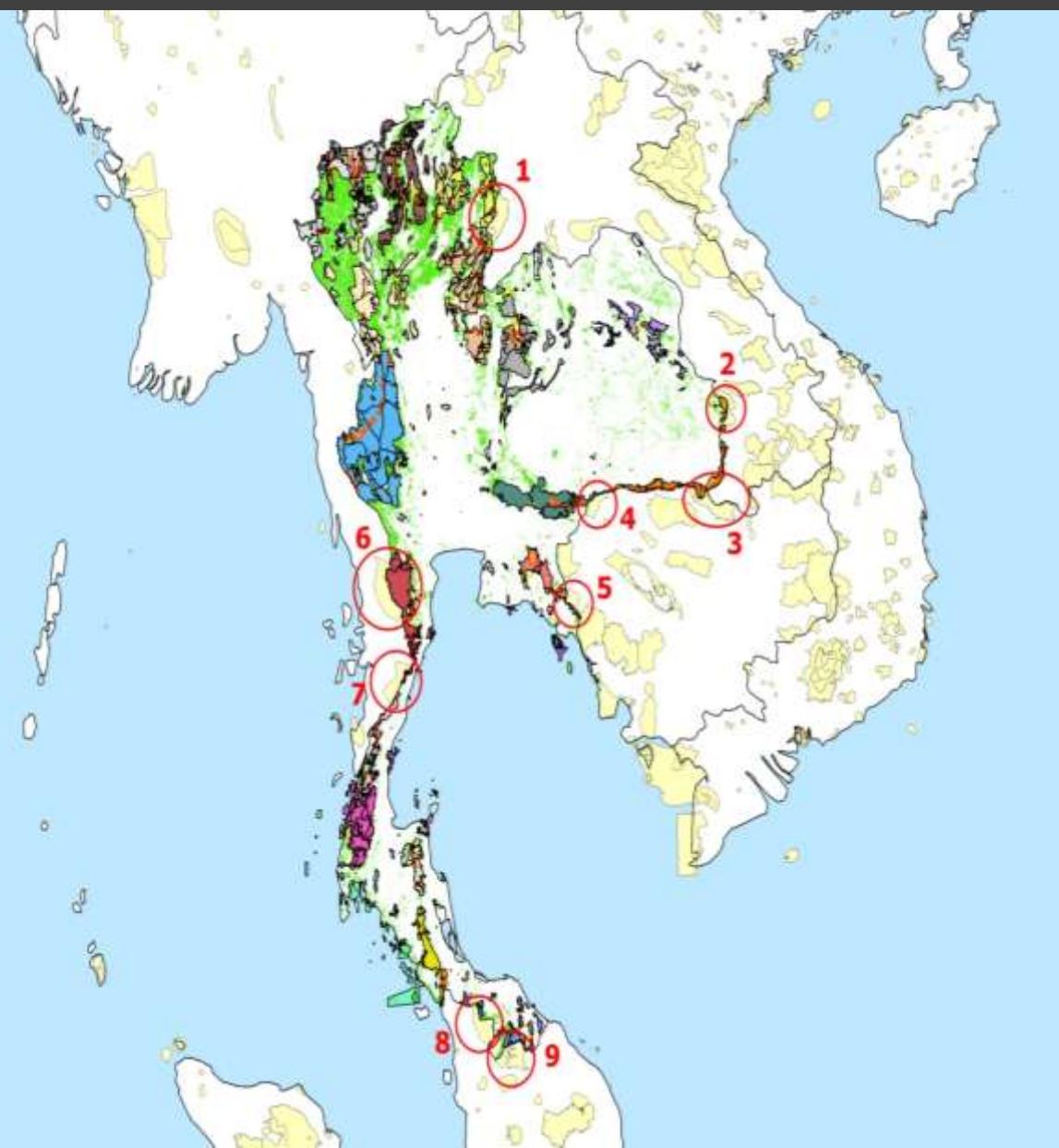


www.flickr.com

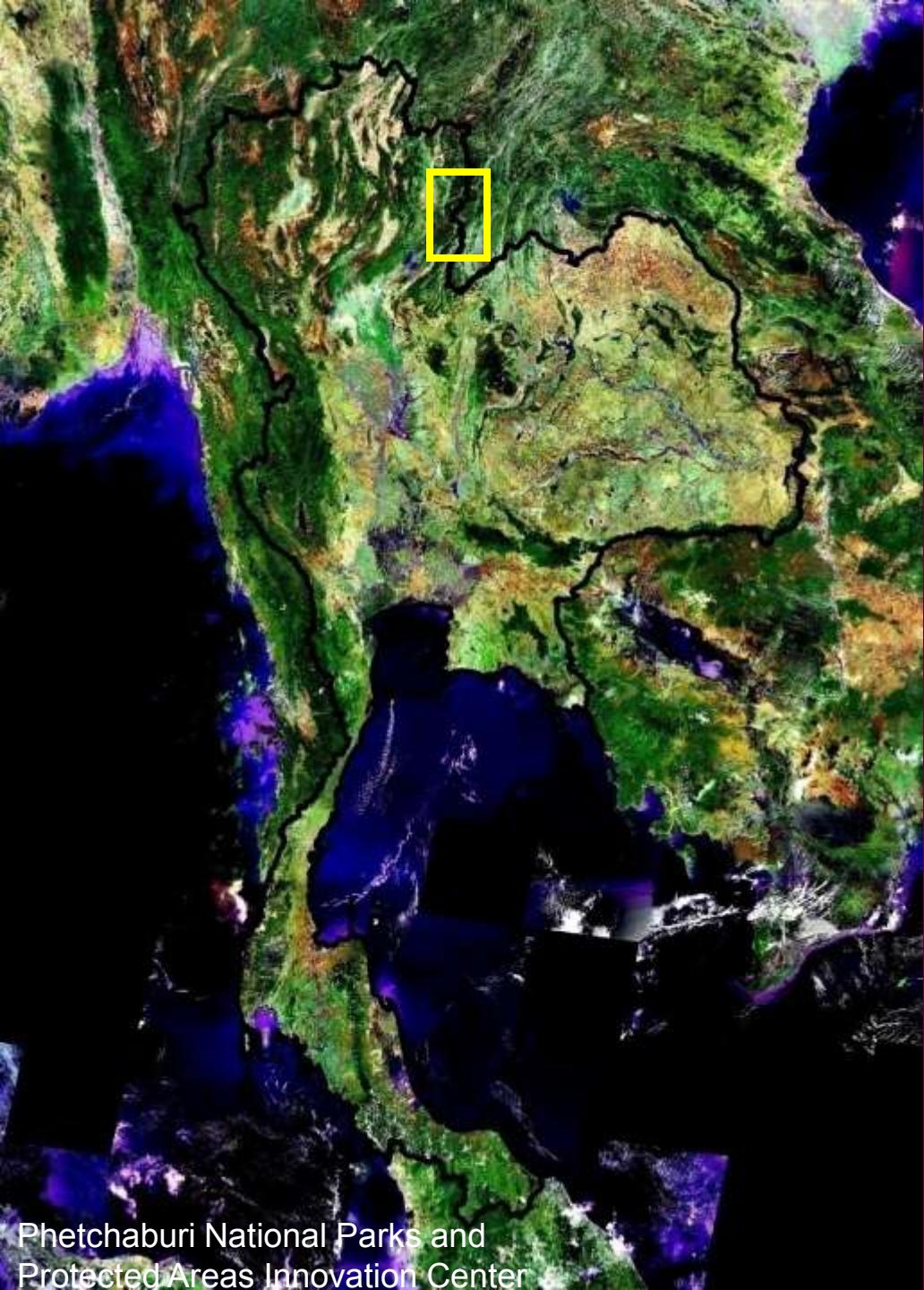
Transboundary Corridor



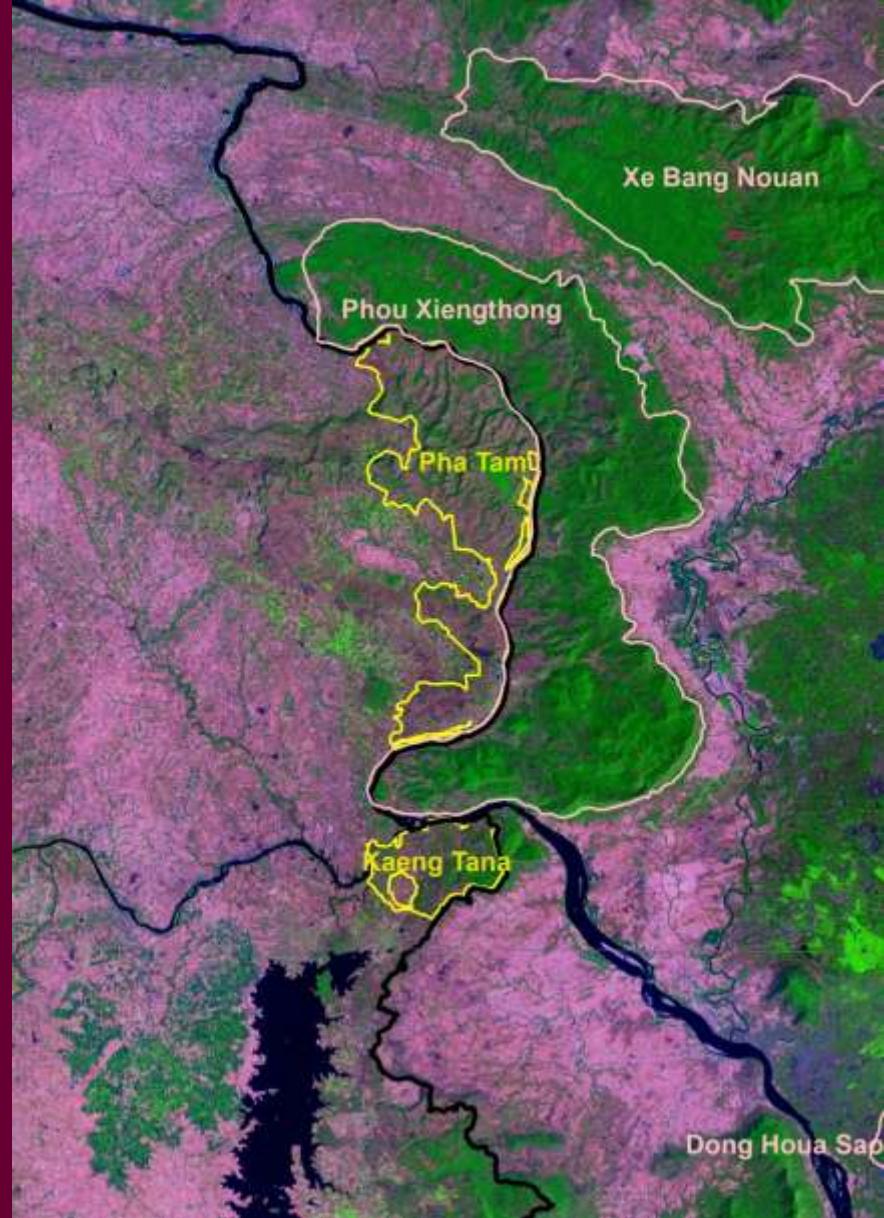
Transboundary PA of THAILAND and ASEAN



1. Nam Phoui National Biodiversity Conservation Area, Lao
2. Phou Xieng Thong National Biodiversity Conservation Area, Lao
3. Preah Vihear Protected Forest, Cambodia
4. Banteay Chhmar Protected Landscape, Cambodia
5. Samlaut Multiple Use Management Area, Cambodia
6. Tanintharyi National Park, Myanmar
7. Lenya National Park, Myanmar
8. Ulu Muda Wildlife Reserve, Malaysia
9. Belum Wildlife Reserve, Malaysia



Transboundary Thailand- LaoPDR

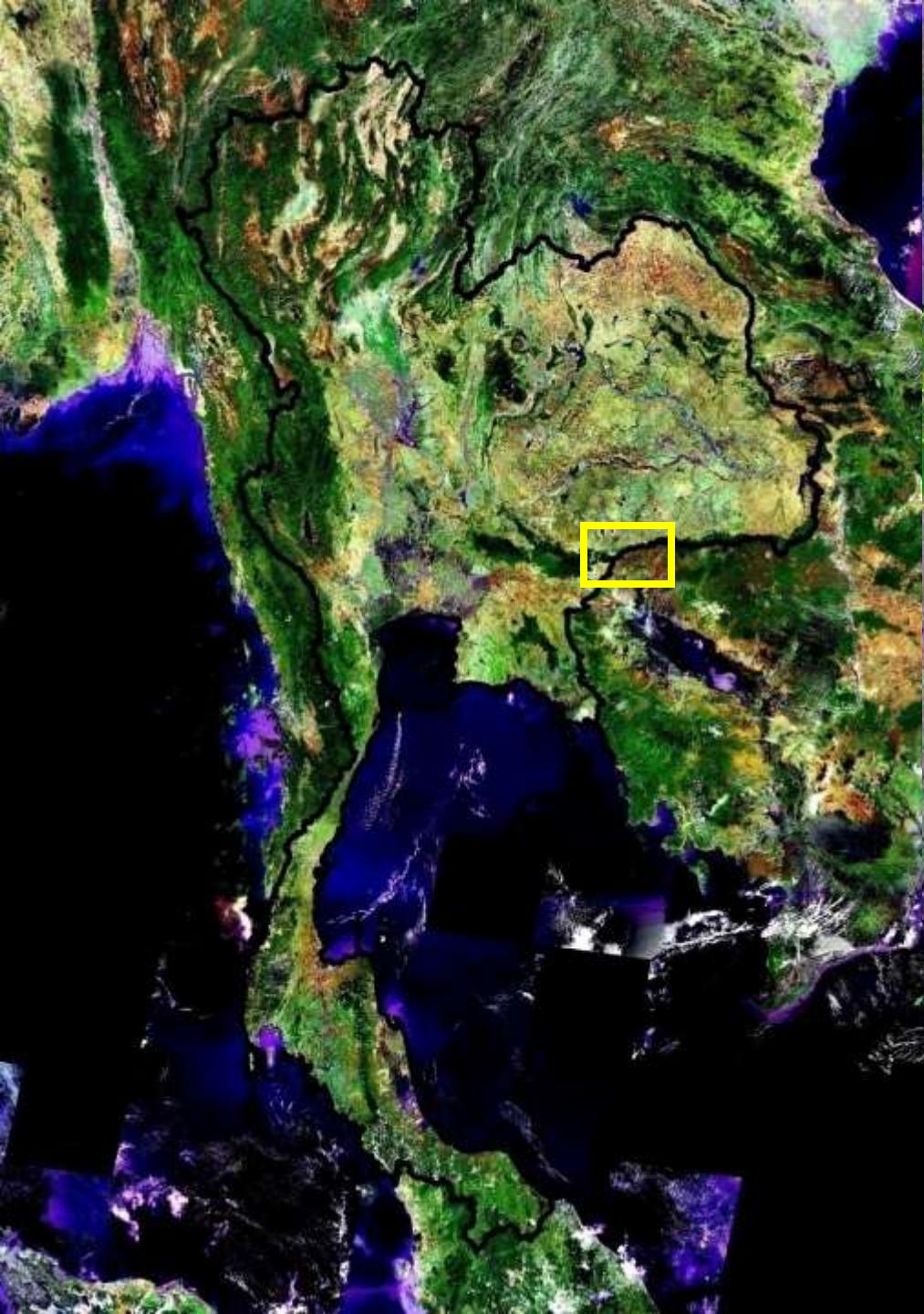


Transboundary Thailand-Cambodia-LaoPDR: Emerald Triangle



Transboundary Thailand -Cambodia

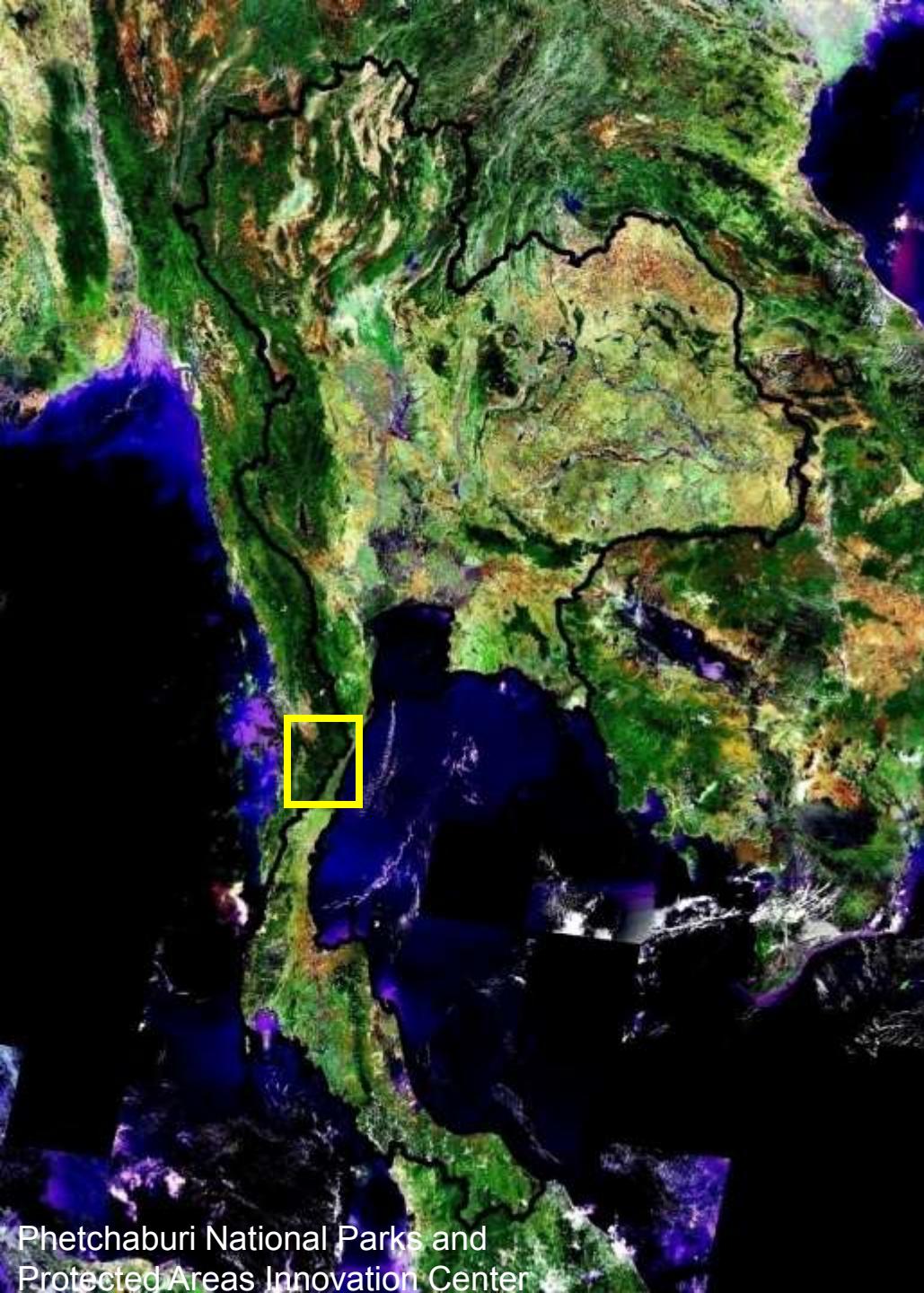




Transboundary Thailand-Cambodia



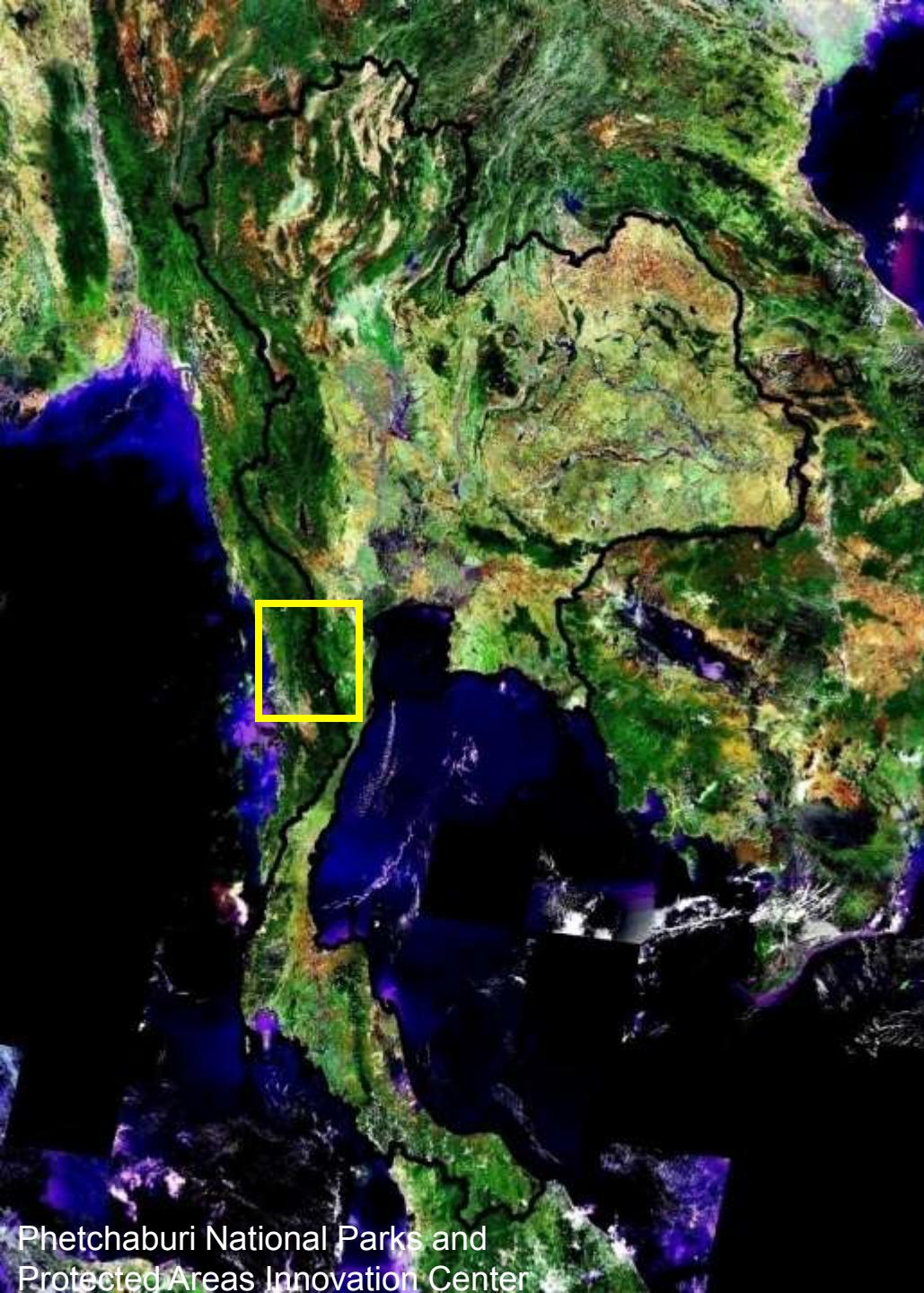
Transboundary Thailand- Cambodia



Phetchaburi National Parks and
Protected Areas Innovation Center



Transboundary Thailand-Mynemar



Phetchaburi National Parks and
Protected Areas Innovation Center



Transboundary Thailand- Mynemar



Transboundary Thailand-Malaysia

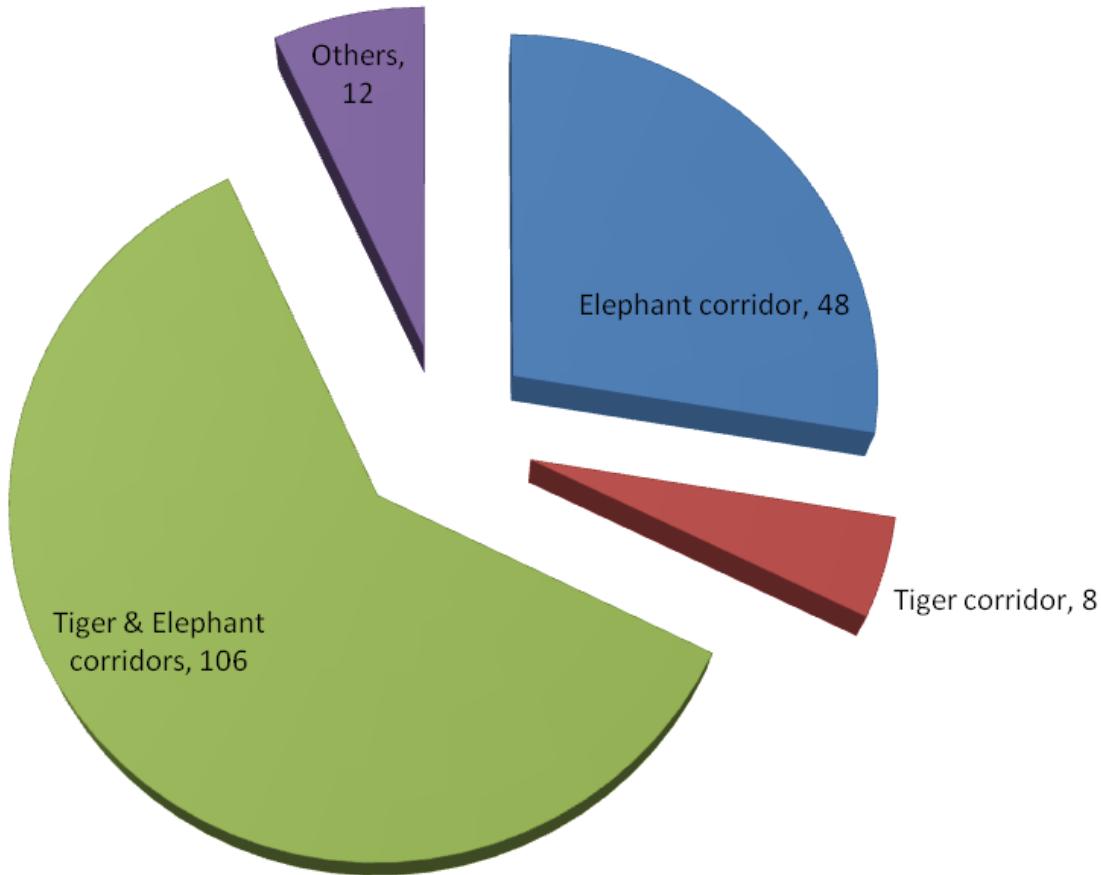
Ecological Corridor in Thailand

1. Internal Corridor of 17 forest complexes = 174
2. Forest Complex Corridor = 33
3. Transboundary Corridor = 13

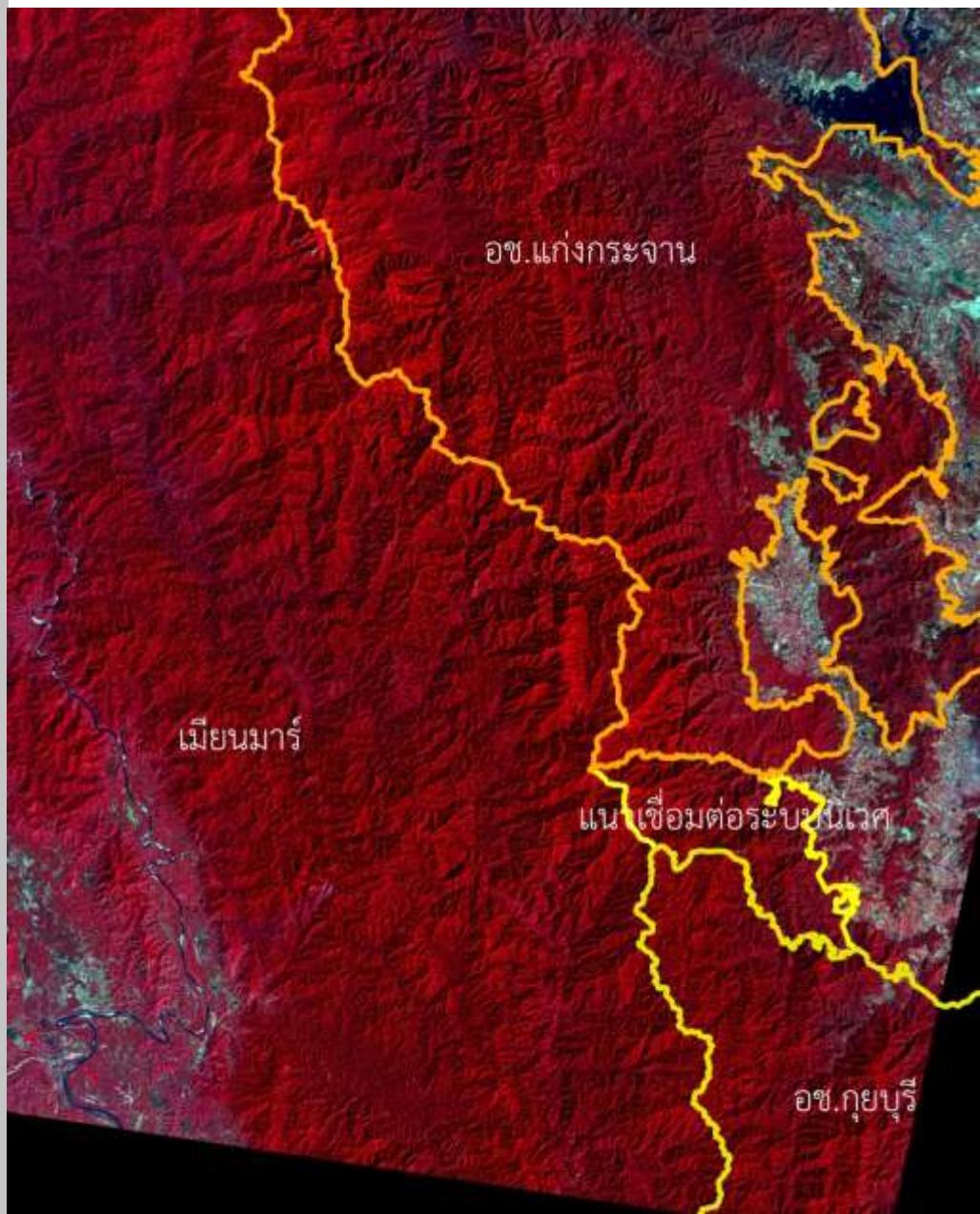
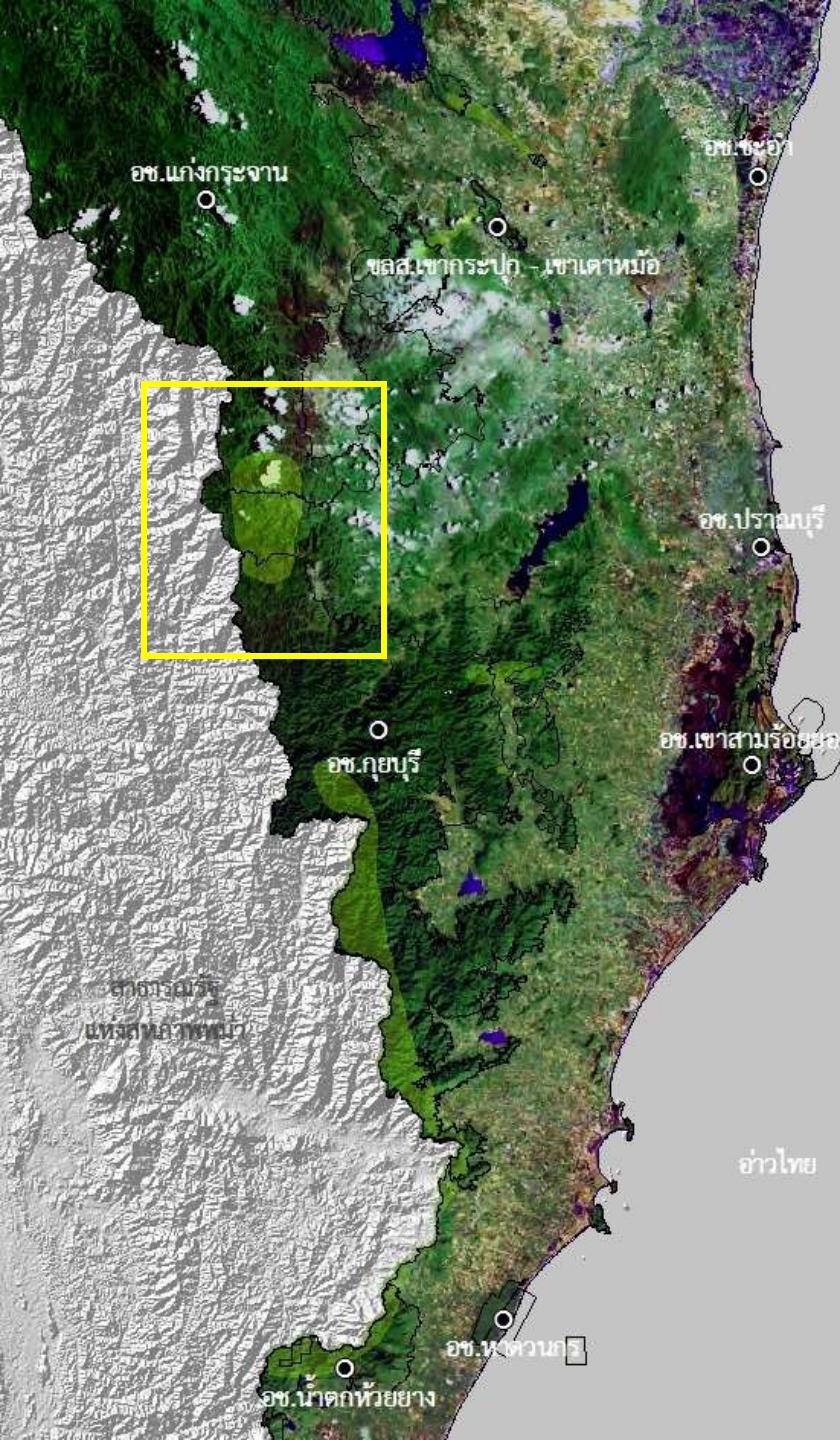


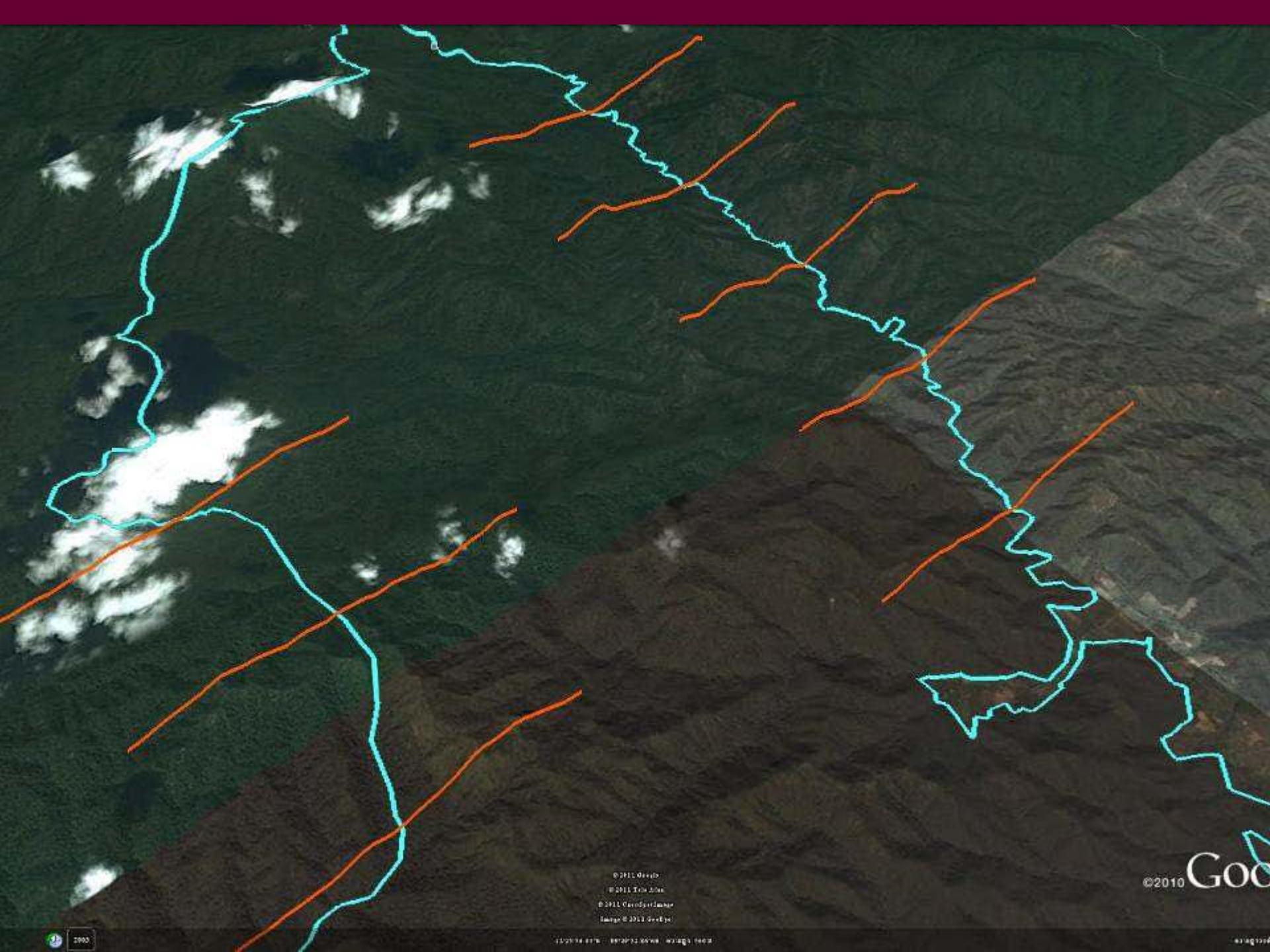
Coalition for
Sonoran Desert
Protection

Wildlife Corridor 17 Forest Complexes : 174



Kangkrachan Forest Complex





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**All of mammal tracks in Kangkrachan and
Kuiburi National Park**

**Khaoyai
National Park**

**Thaplan
National Park**

บ้านวังขอนแดง

บ้านทับ Klan

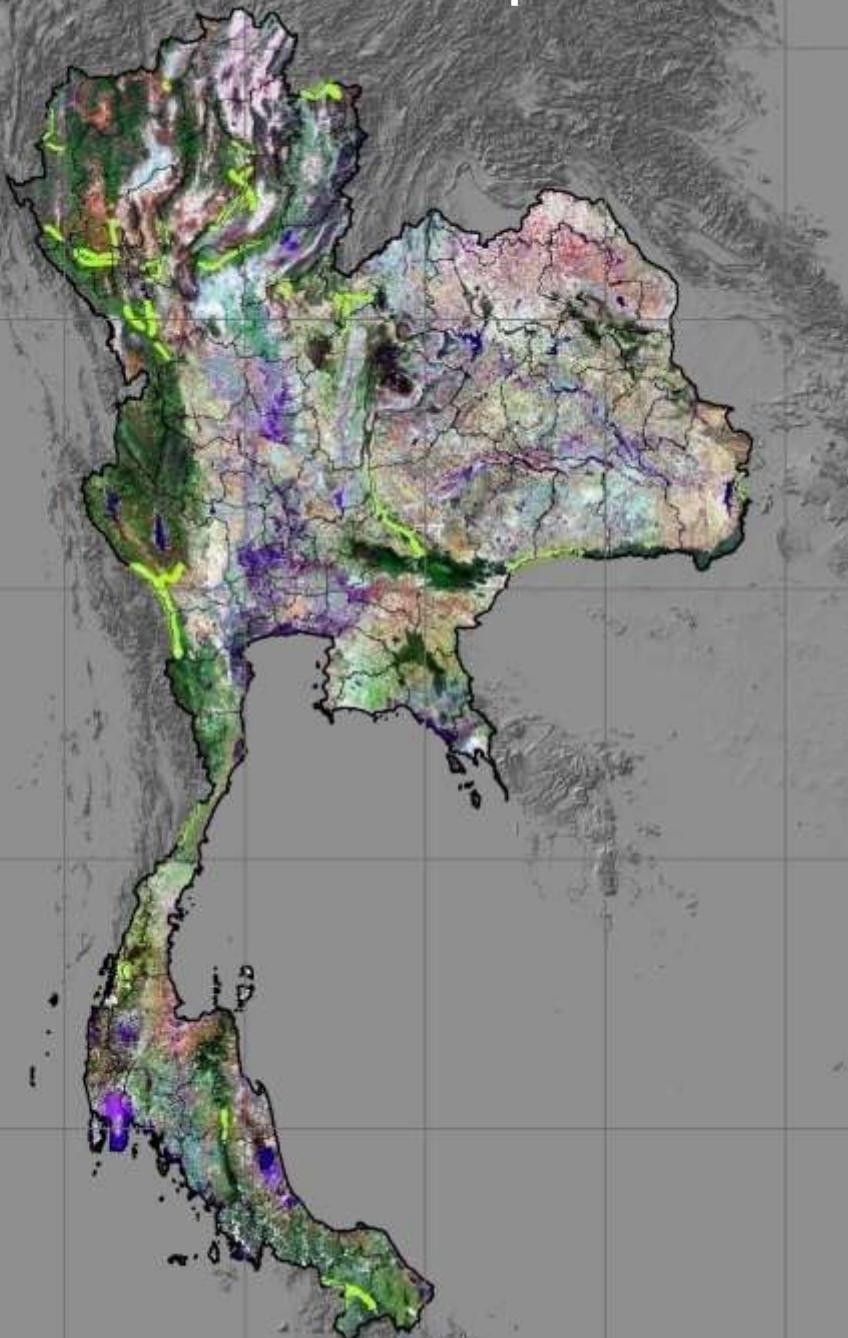
ทางสุราษฎร์ธานีหมายเลข 304

บ้านห้วยแม่ก



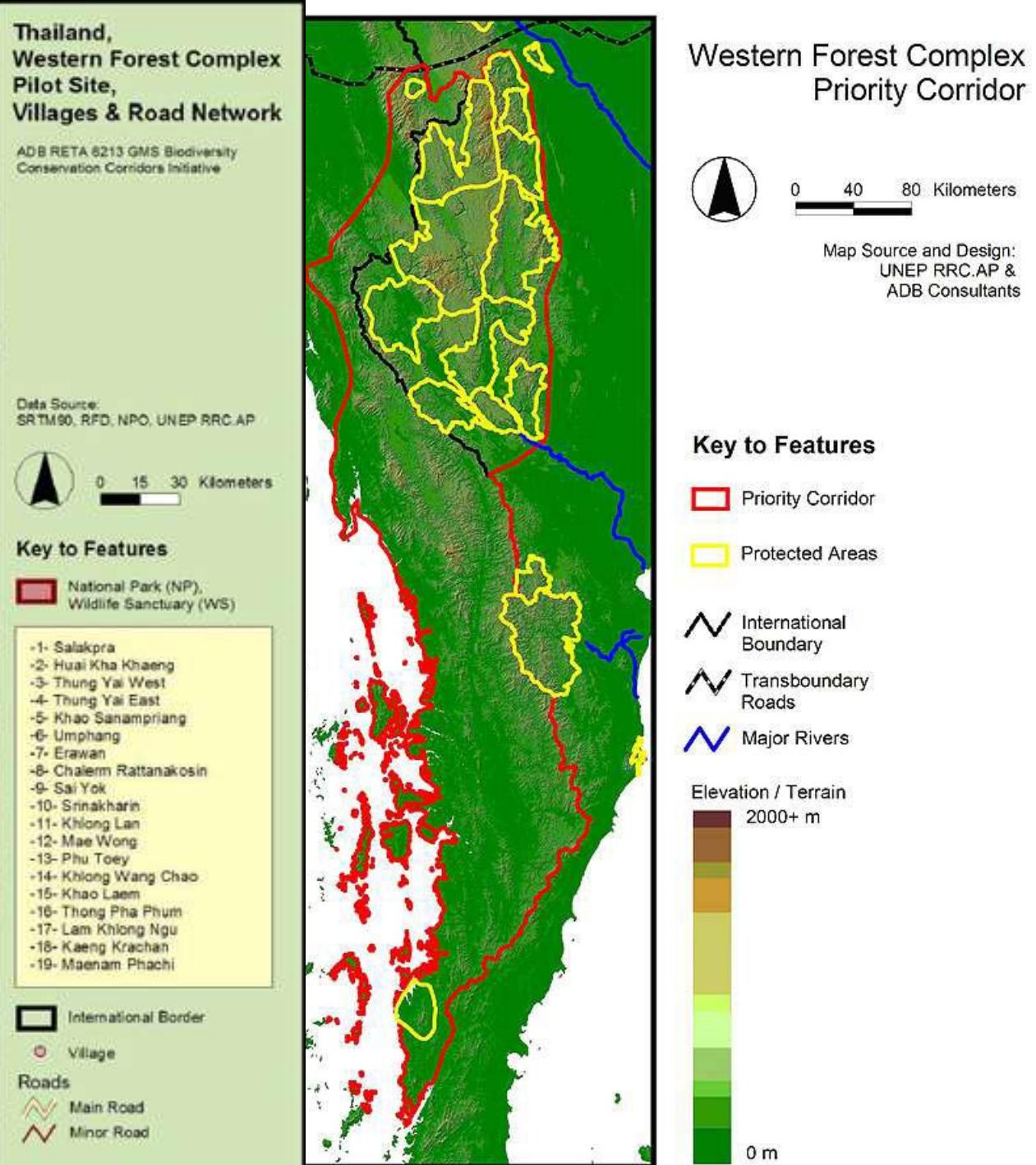
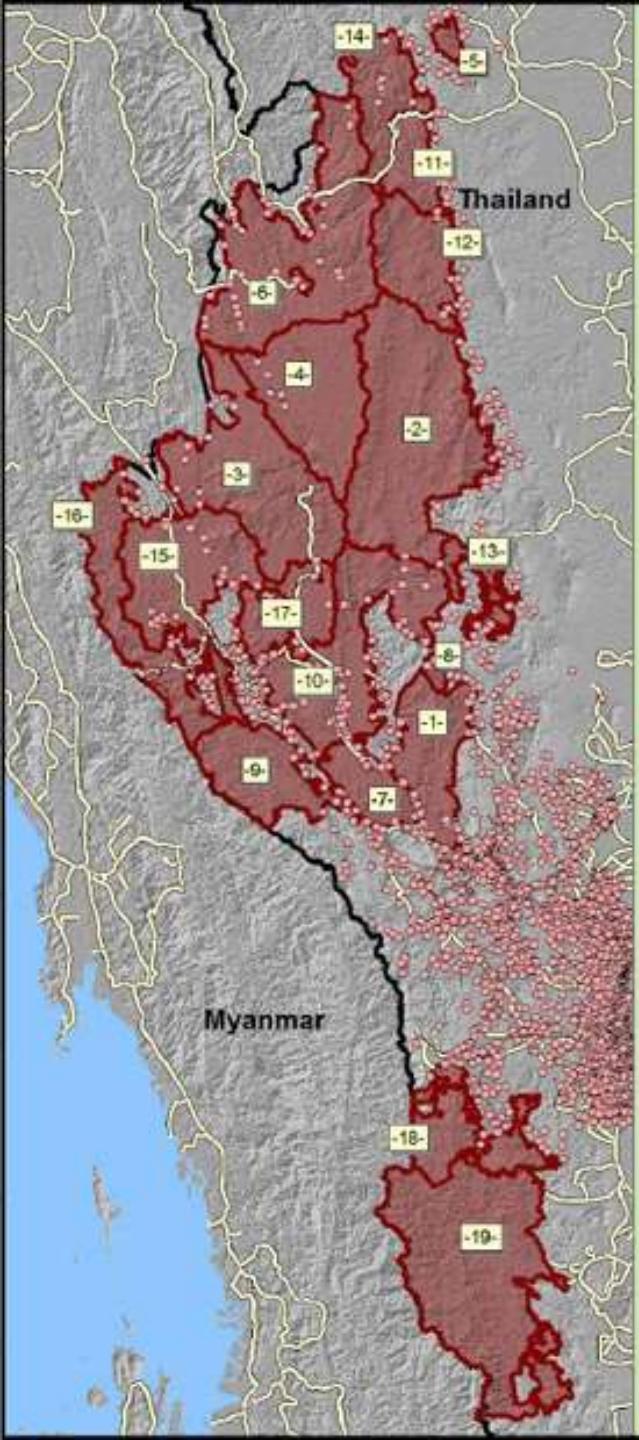


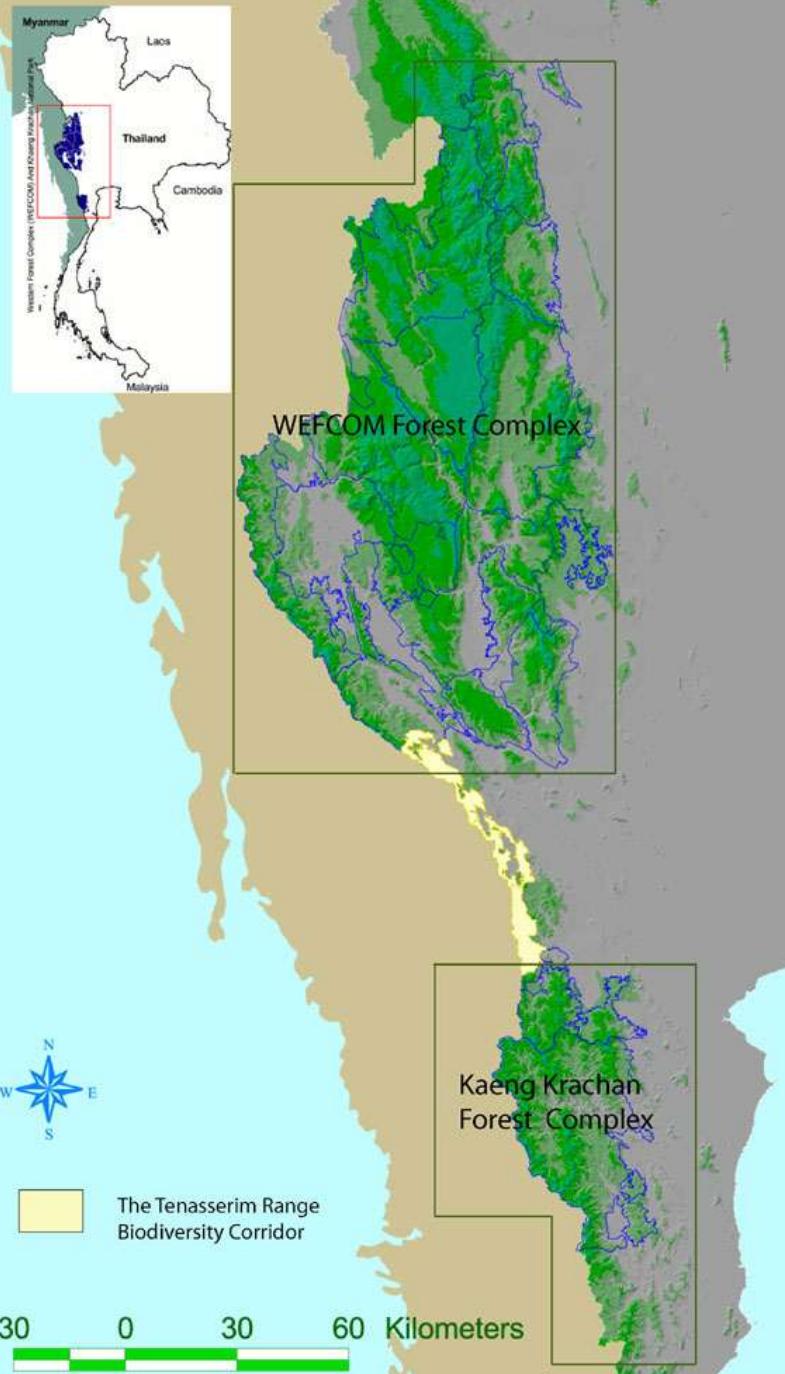
Corridor between forest complex



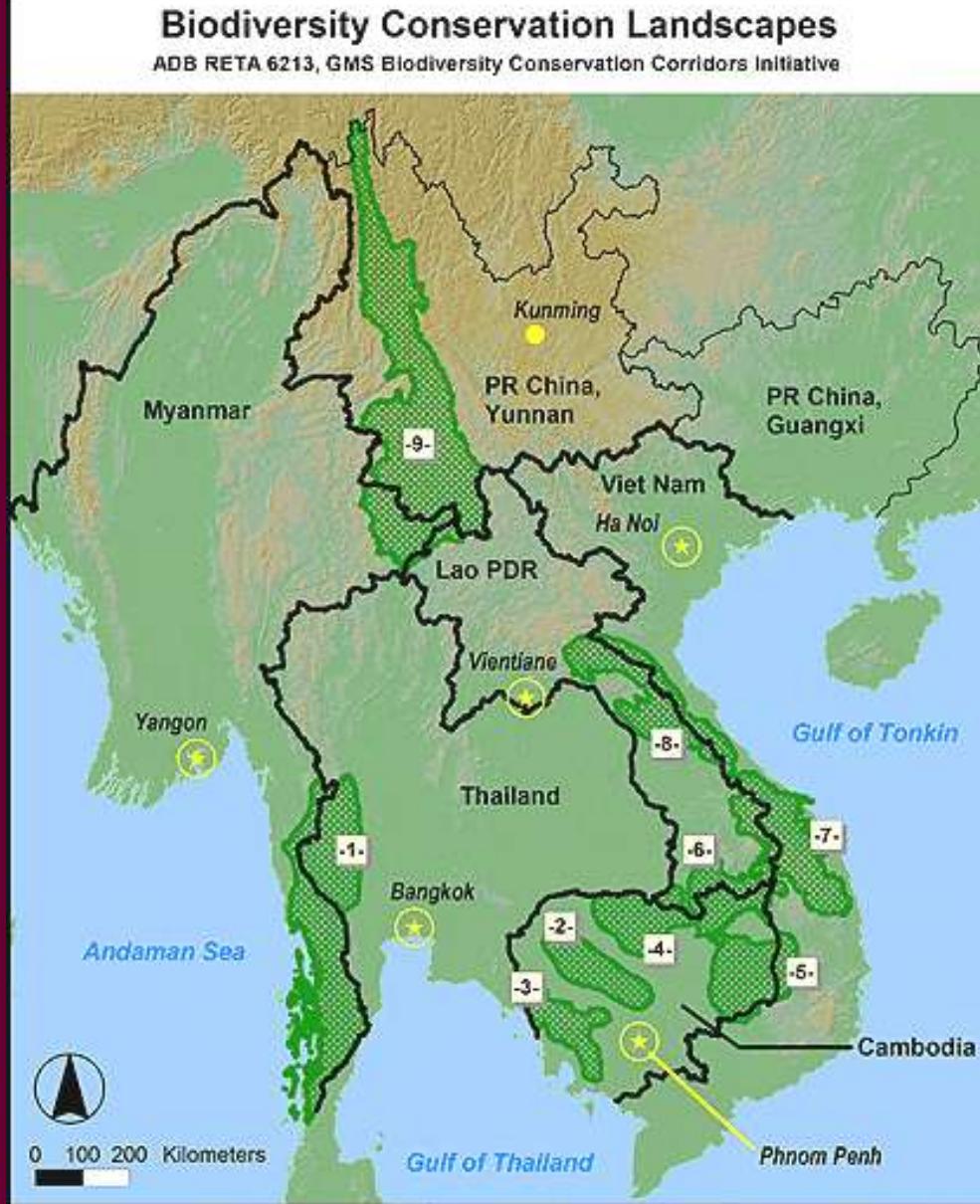
Tiger corridors



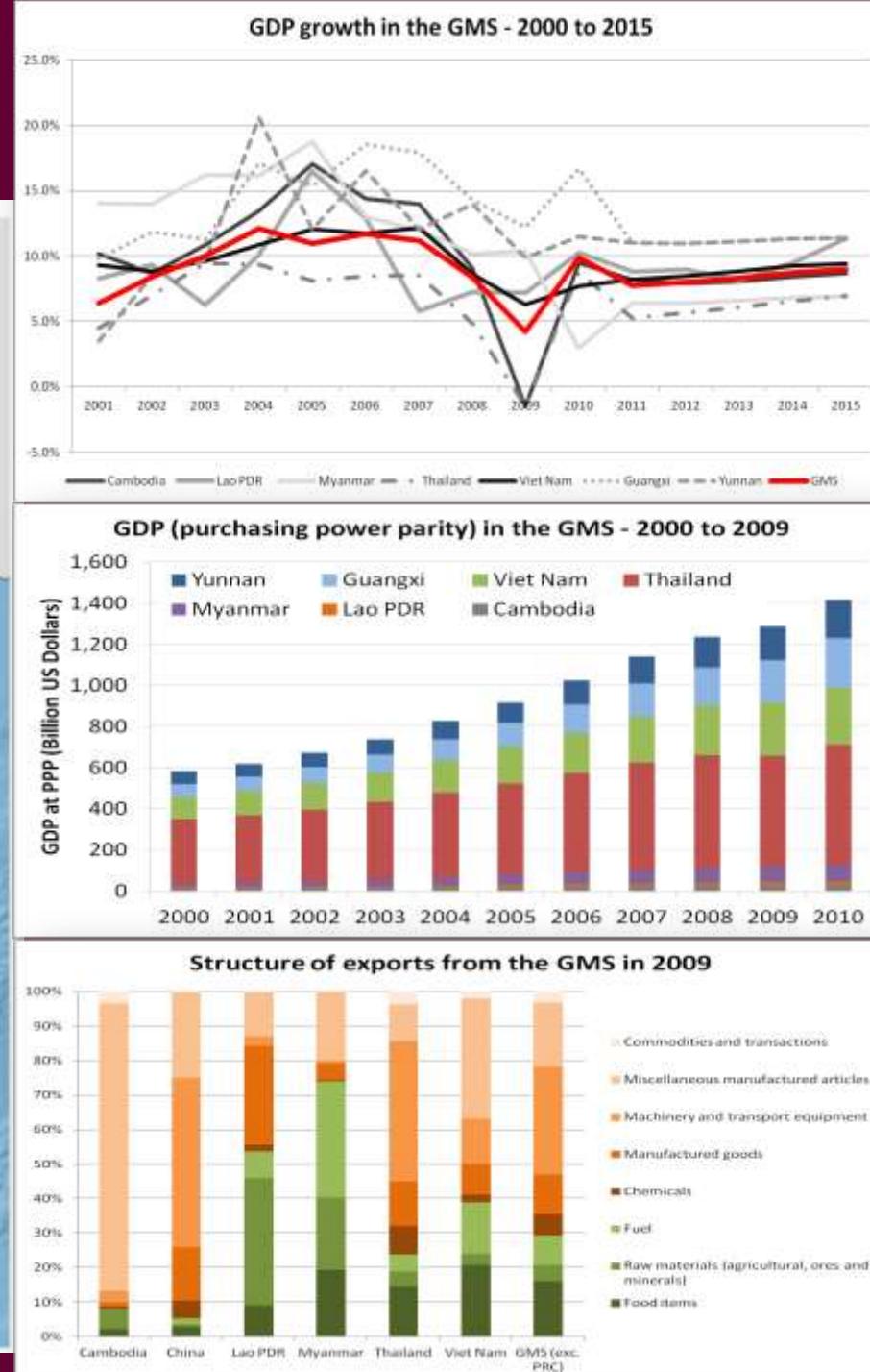
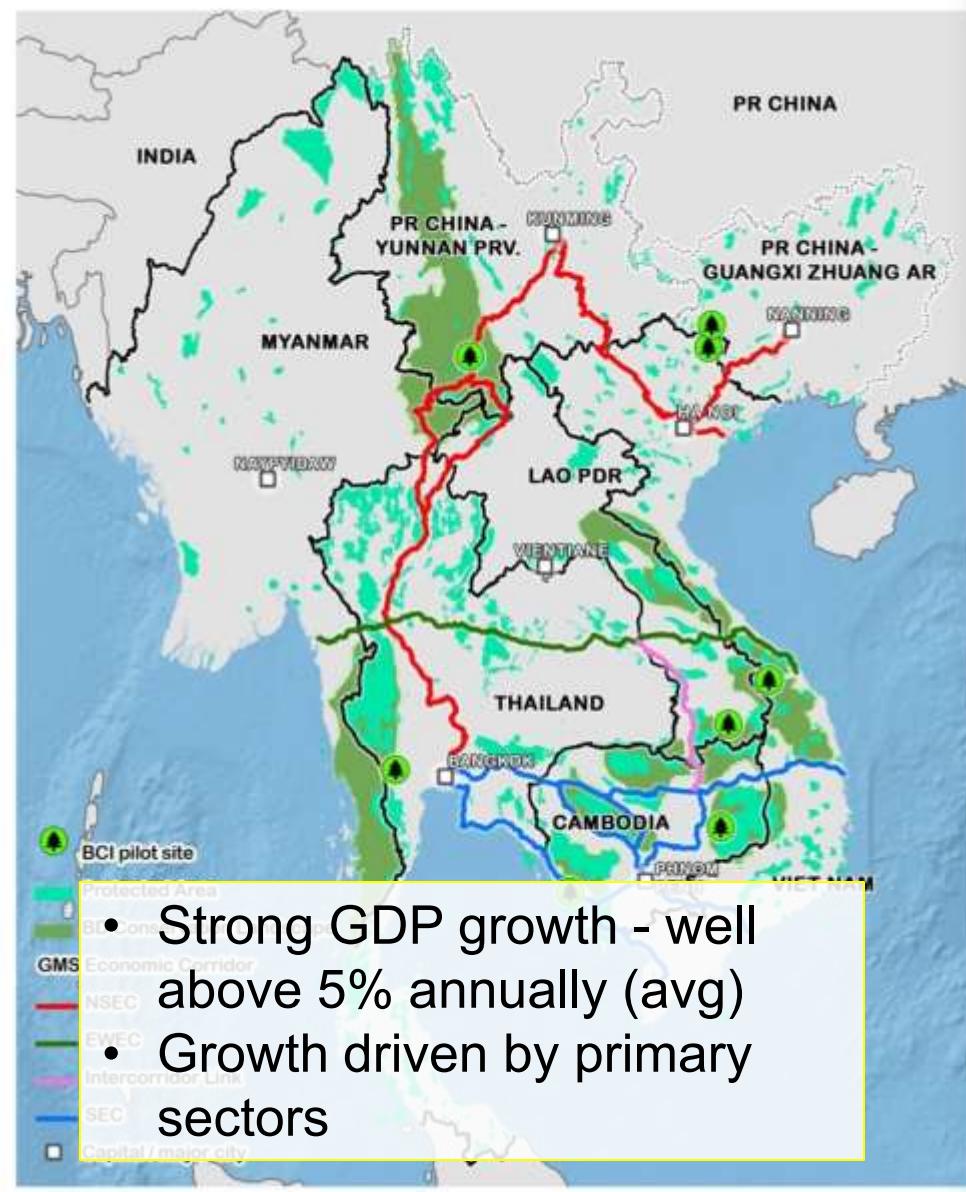




Transboundary Corridor in GMS

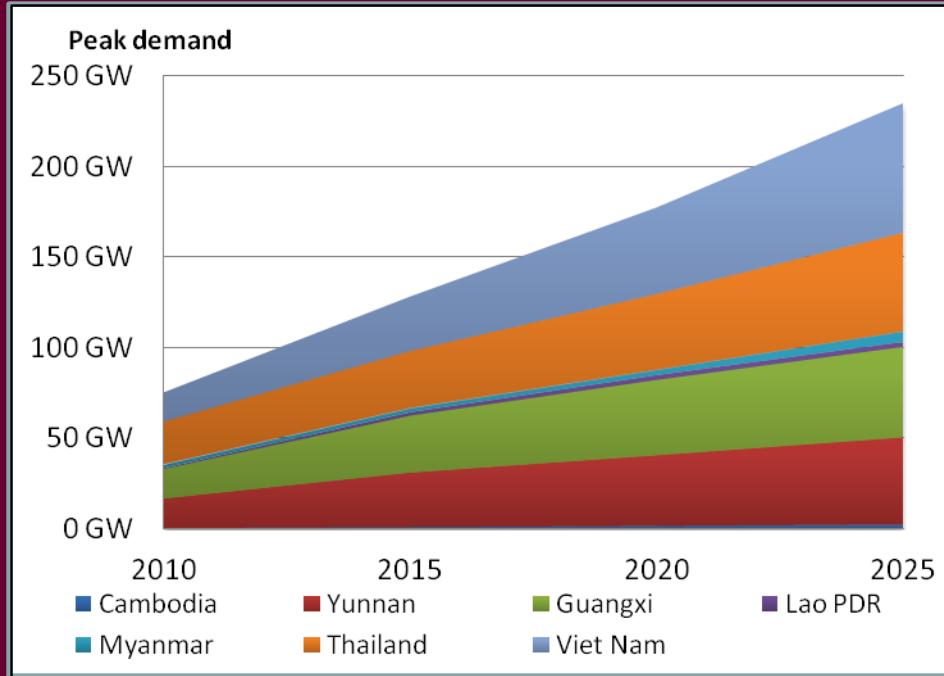
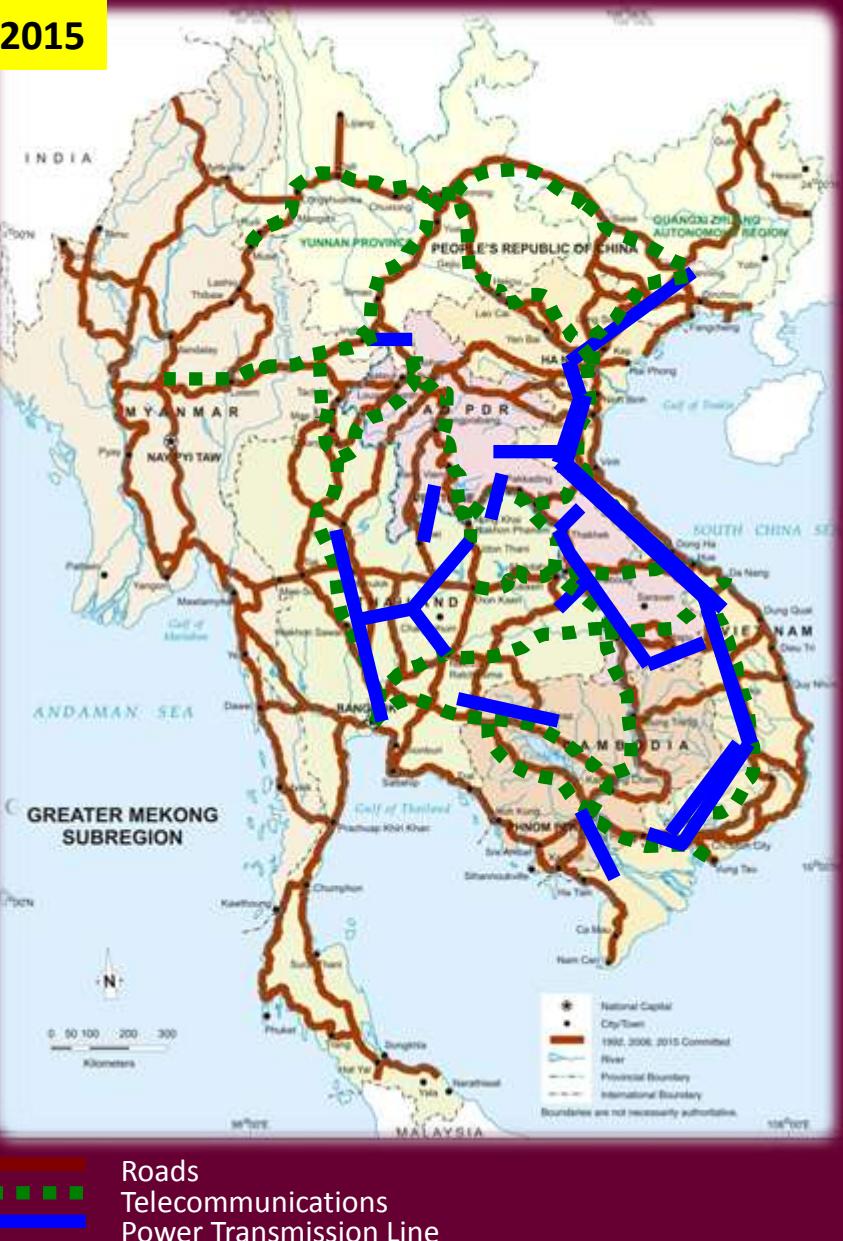


GMS since the 90's – A period of prosperity

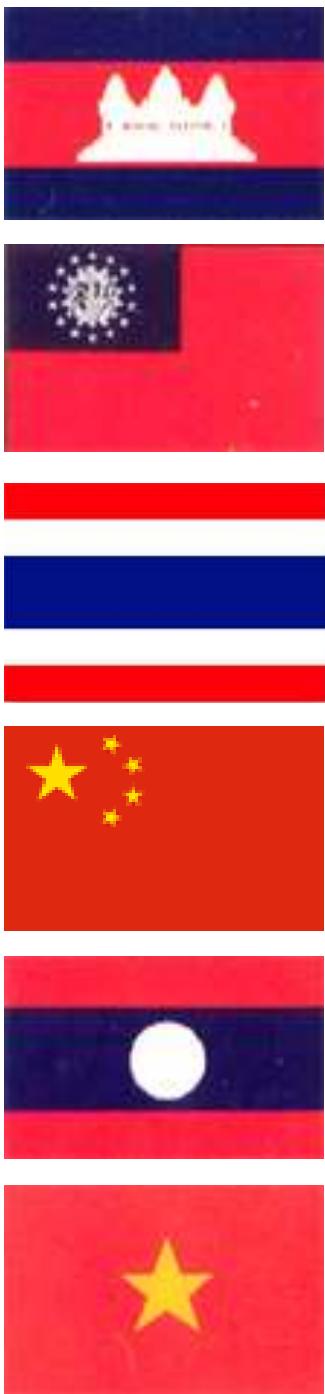
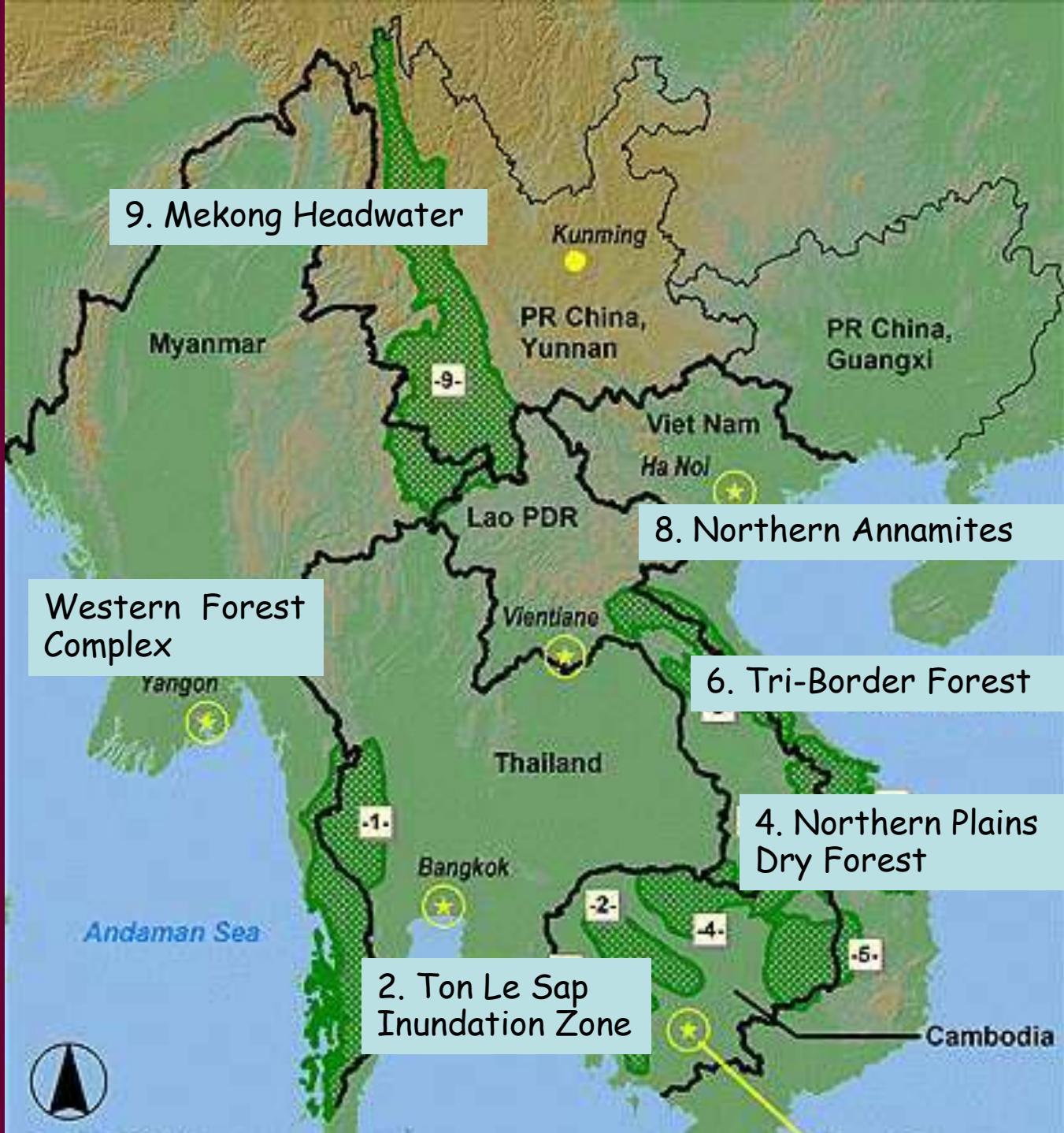


GMS in the coming decade –prosperity likely to continue

2015



- Growth expected to continue underpinned by increased investment in infrastructure, industrial and urban development
- Pressure on natural resources will continue to increase



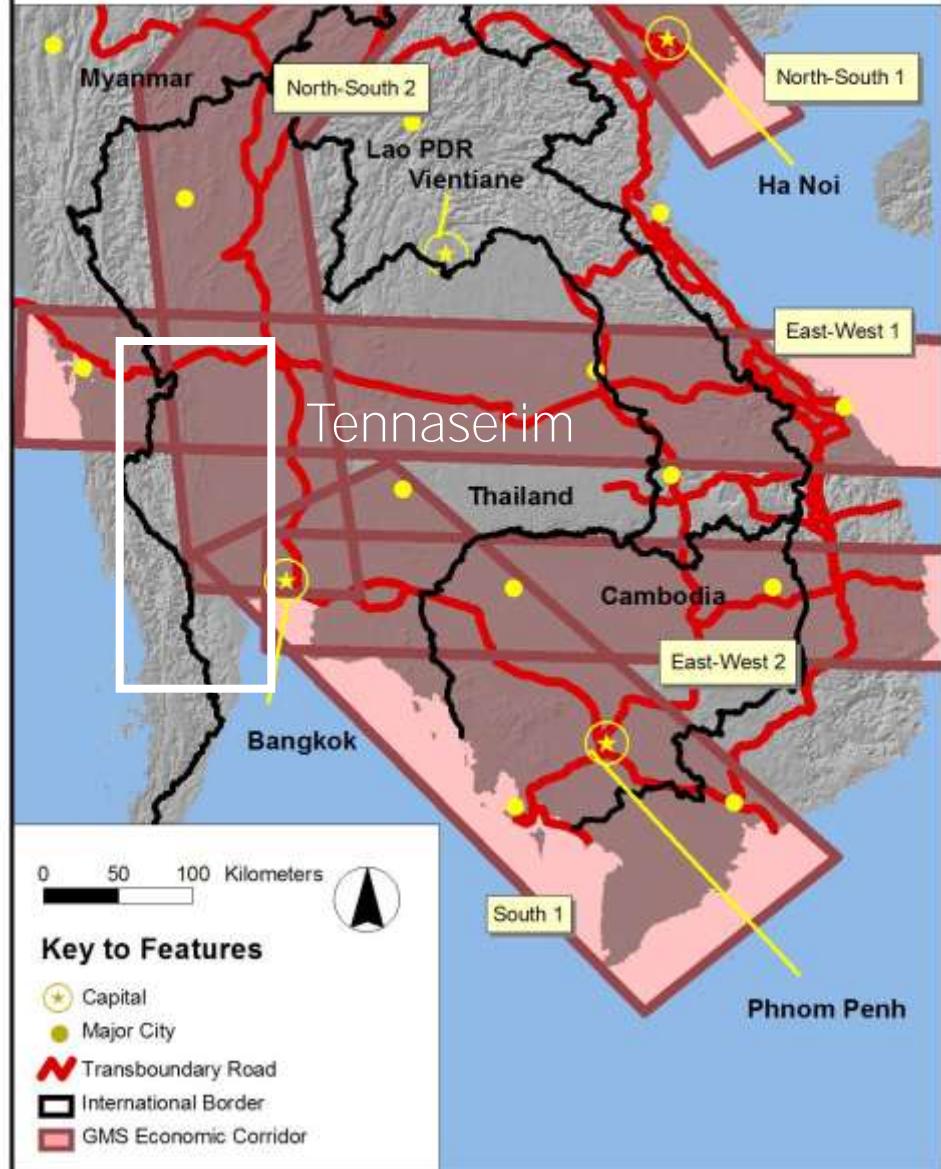
Criteria for Selection

- GMS economic corridors
- Reducing ecosystem fragmentation
- International BD importance
- High poverty incidence
- Having potential for transboundary PAs
- Institutional (state and non-state)

Thailand: GMS EC & Transboundary Roads

ADB RETA 6213 GMS Biodiversity Conservation Corridors Initiative

Data Source:
GTOPO30 & ADB



SUCCESSIONAL FACTOR

CDM (**C**leaning **D**evelopment **M**echanism)

- TREE BANK
- REDD++
- Carbon Offset
- ABS - **A**ccess to **B**io-diversity **R**esources
and Benefit **S**haring
- CSR

TAKE HOME MESSAGE

- Ecosystems and Connectivity and Biodiversity
- Local Livelihoods and Poverty Reduction
in Biodiversity Corridors
- Climate change and Biodiversity Corridors
- Sustainable Financing and Biodiversity Corridors