

# INTEGRATING PROTECTED AREAS INTO WIDER LANDSCAPES AND SEASCAPES : THAILAND



Anuwat Nateewathana



Myanmar

Laos

**Thailand**

Vietnam

Cambodia

Malaysia

# Protected Area in Thailand.

**148 National Parks**

**56 Wildlife Sanctuary**

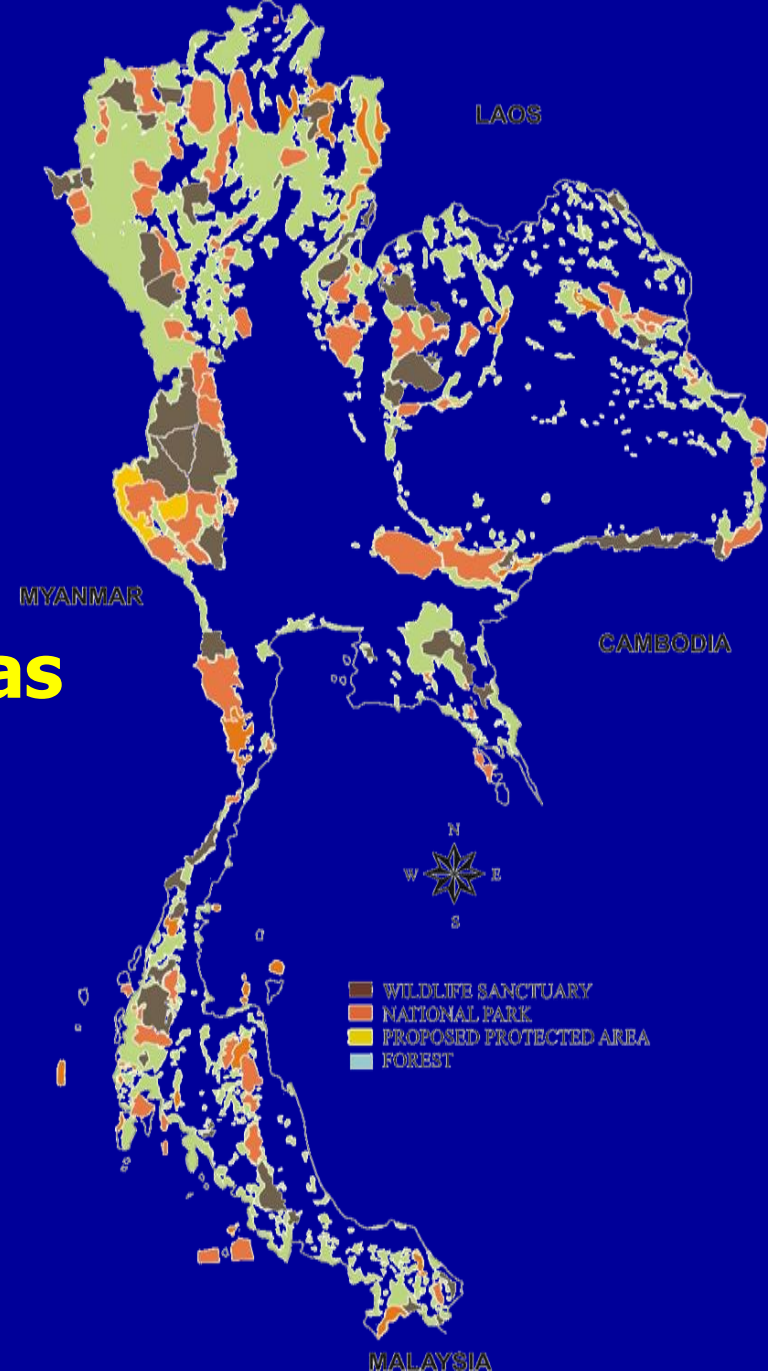
**54 Non-Hunting Area**

**74 Forest Parks**

**56 Marine Preservation Areas**

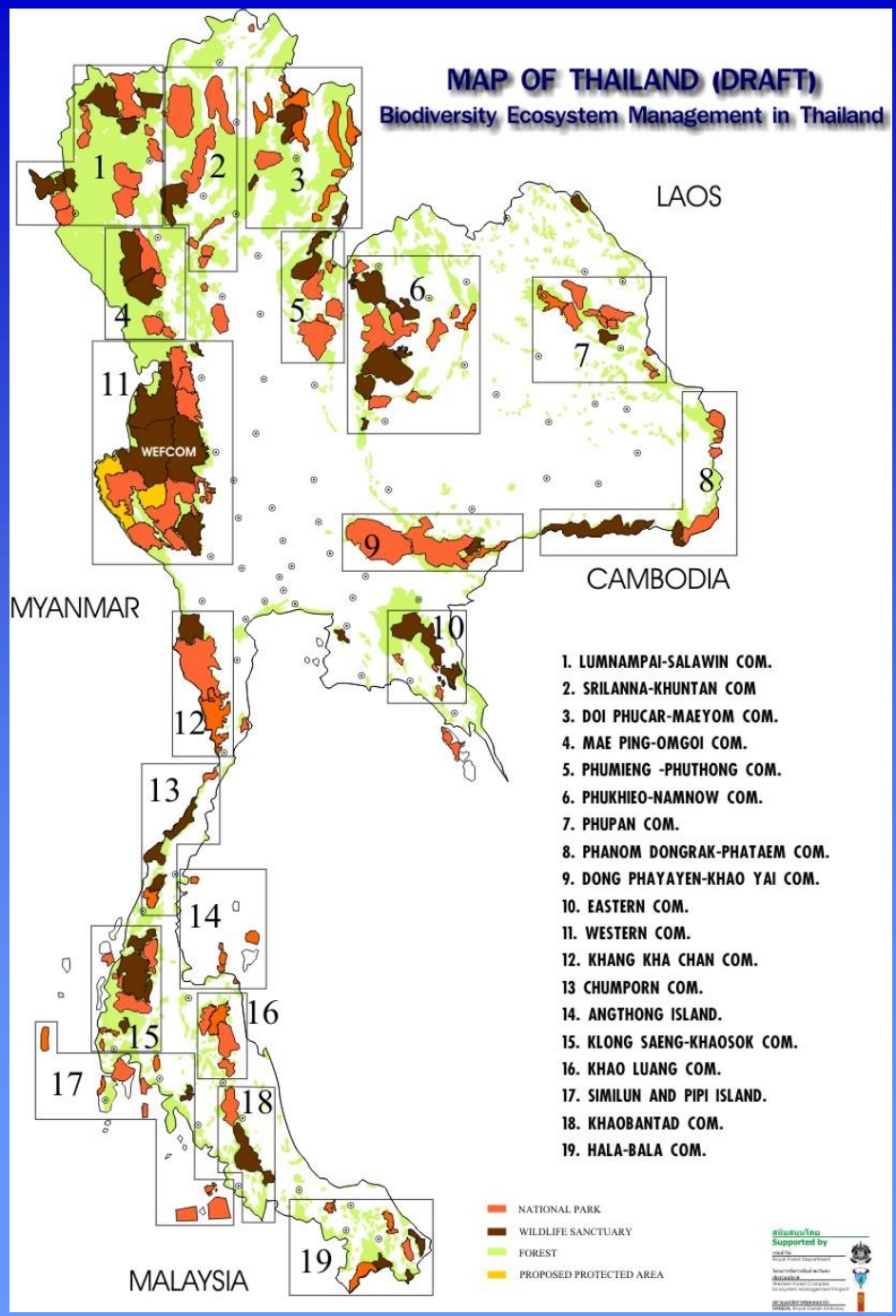
**9 Fisheries MPA**

**6 Environmental Protected Areas**

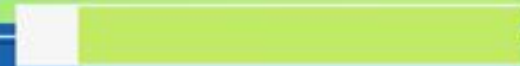




# Forest Complex And Protected Areas

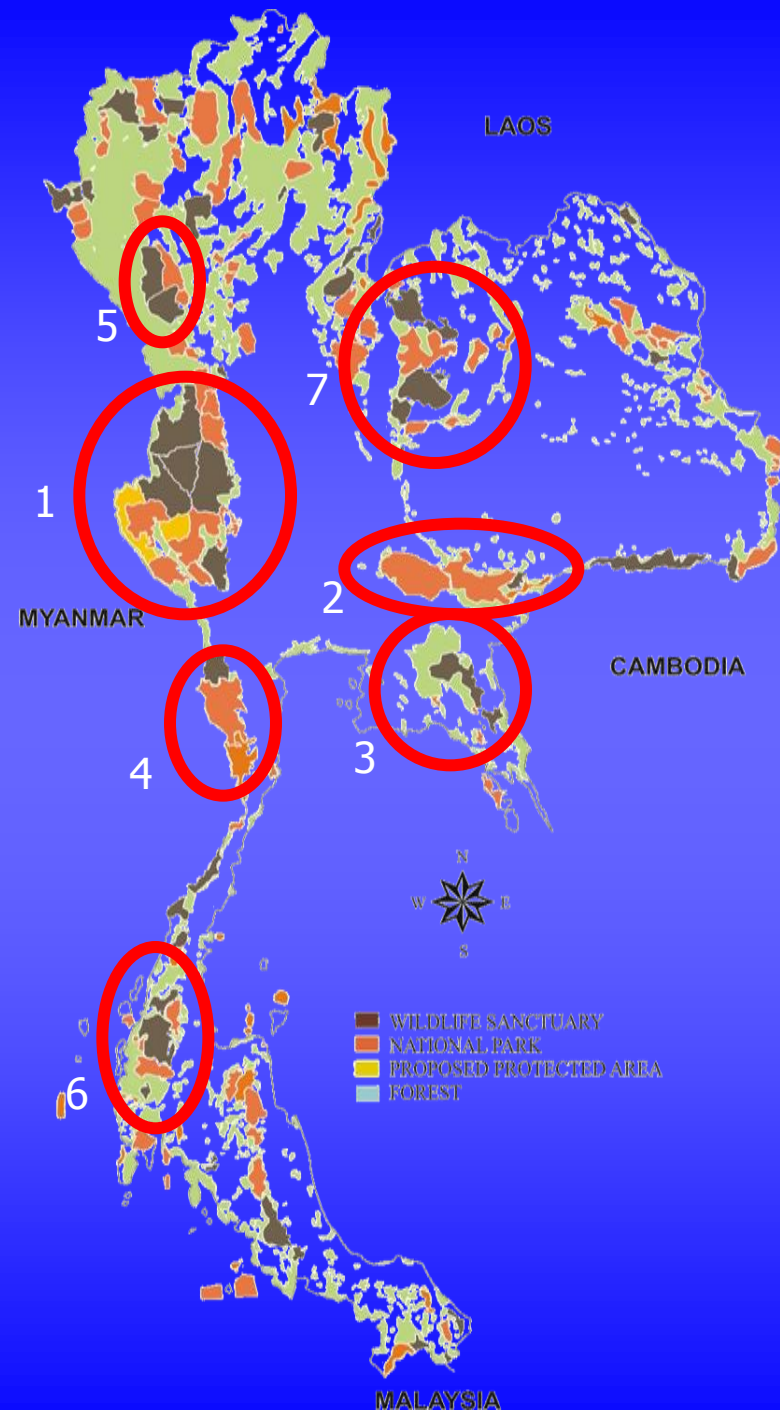


# Biodiversity Conservation Corridor In Thailand.



## Important Forest Complexes in Thailand

1. Western Forest Complex
2. Dongpayayen-Khao Yai Forest Complex
3. Eastern Forest Complex  
(corridor of 5 provinces)
4. Kang Kracharn Forest Complex
5. Mae Ping-Om Koi Forest Complex
6. Khao Sok-Klong Sang Forest Complex
7. Phu Khieo- Nam Now Forest Complex



# GMS Biodiversity Corridors Initiative



The Tenasserim Biodiversity Conservation  
Corridor Western Forest Complex -  
Kaeng Krachan Complex, Thailand

# Tenasserim Biodiversity Conservation Corridor

Western Forest Complex (WEFCOM)  
- Kaeng Krachan Forest Complex

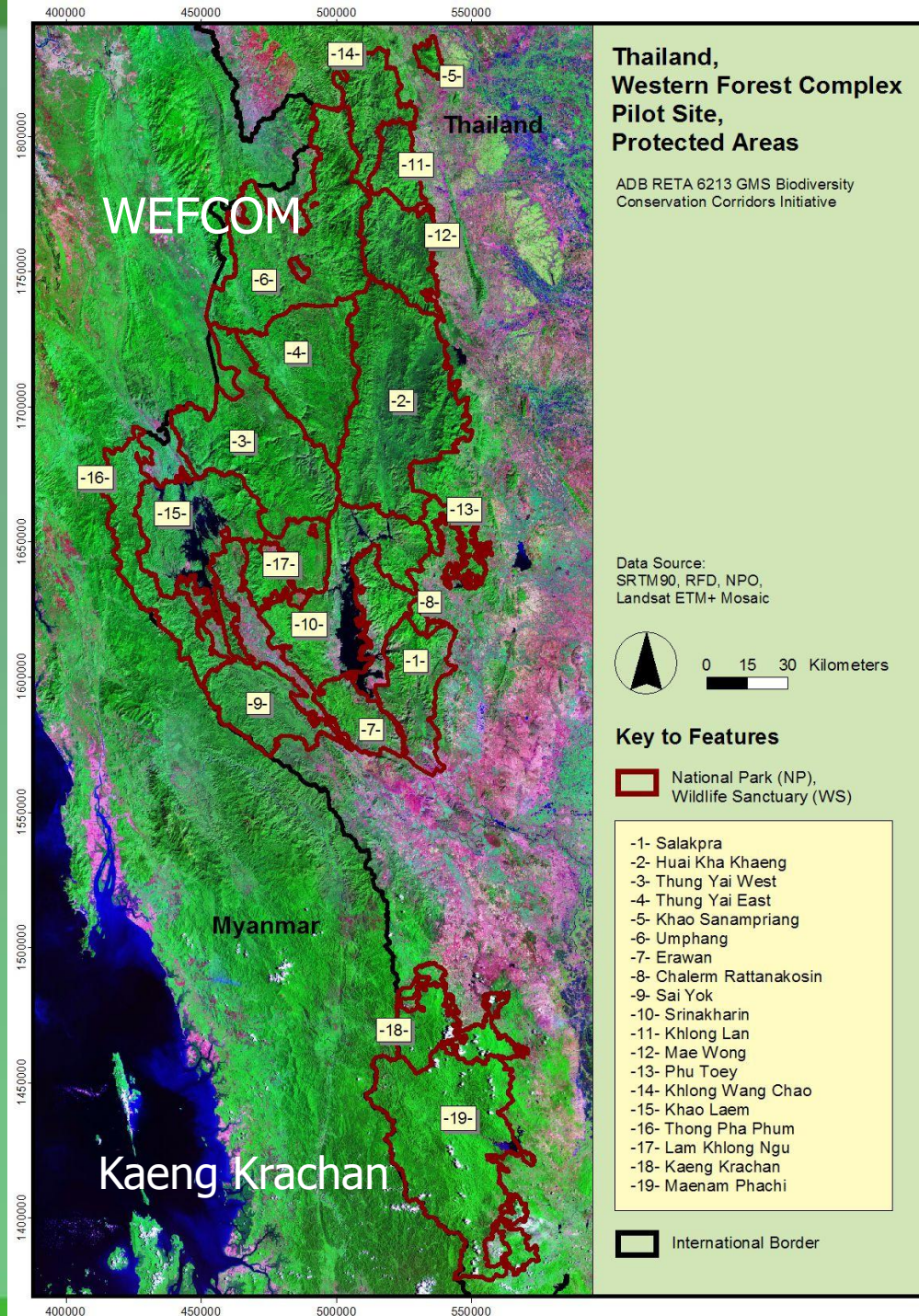
## WEFCOM

- 11 NPs & 6 WSs
- Area 19,000 km<sup>2</sup>, 6 provinces

## Kaeng Krachan

- 1 NP & 1 WS
- Area 3,404 km<sup>2</sup>, 3 provinces

High abundance forest cover (dark green)



# Project Proposal

## Goals

To enhance the ecological integrity and facilitate landscape species movement between the WEFCOM and Kaeng Krachan Forest Complexes

## Objectives

1. Poverty alleviation through sustainable use of natural resources and development of livelihoods
2. Optimal land uses and harmonized land mgt. regimes
3. Restoration & maintenance of ecosystem connectivity
4. Capacity building in GOs and local communities
5. Sustainable financing mechanism

# Tenasserim – Western Forest Complex



## Western Forest Complex Corridor

ADB RETA 6213 GMS Biodiversity Conservation Corridors Initiative

Data Source: SRTM90, NPA, IUCN WDPA

## Protected areas

### Key to Features

- National Park (NP) or Wildlife Sanctuary (WS)
- International Border

### Provinces

- 1- Tak
- 2- Kamphaengphet
- 3- Nakhon Sawan
- 4- Uthaitani
- 5- Suphanburi
- 6- Kancharaburi
- 7- Ratchaburi
- 8- Petchaburi
- 9- Prajuab Khirikhan

### Nat. Parks & Wildl. Sanctuaries

- 1- Salakpra
- 2- Huai Kha Khaeng
- 3- Thung Yai West
- 4- Thung Yai East
- 5- Khao Sanampriang
- 6- Umphang
- 7- Erawan
- 8- Chalem Rattanakosin
- 9- Sai Yok
- 10- Srinakharin
- 11- Khlong Lan
- 12- Mae Wong
- 13- Phu Toey
- 14- Khlong Wang Chao
- 15- Khao Laem
- 16- Thong Pha Phum
- 17- Lam Khlong Ngu
- 18- Kaeng Krachan
- 19- Maenam Phachi

## Western Forest Complex Corridor: Land Cover

ADB RETA 6213 GMS Biodiversity Conservation Corridors Initiative

Data Source: SRTM90, NPA, IUCN WDPA



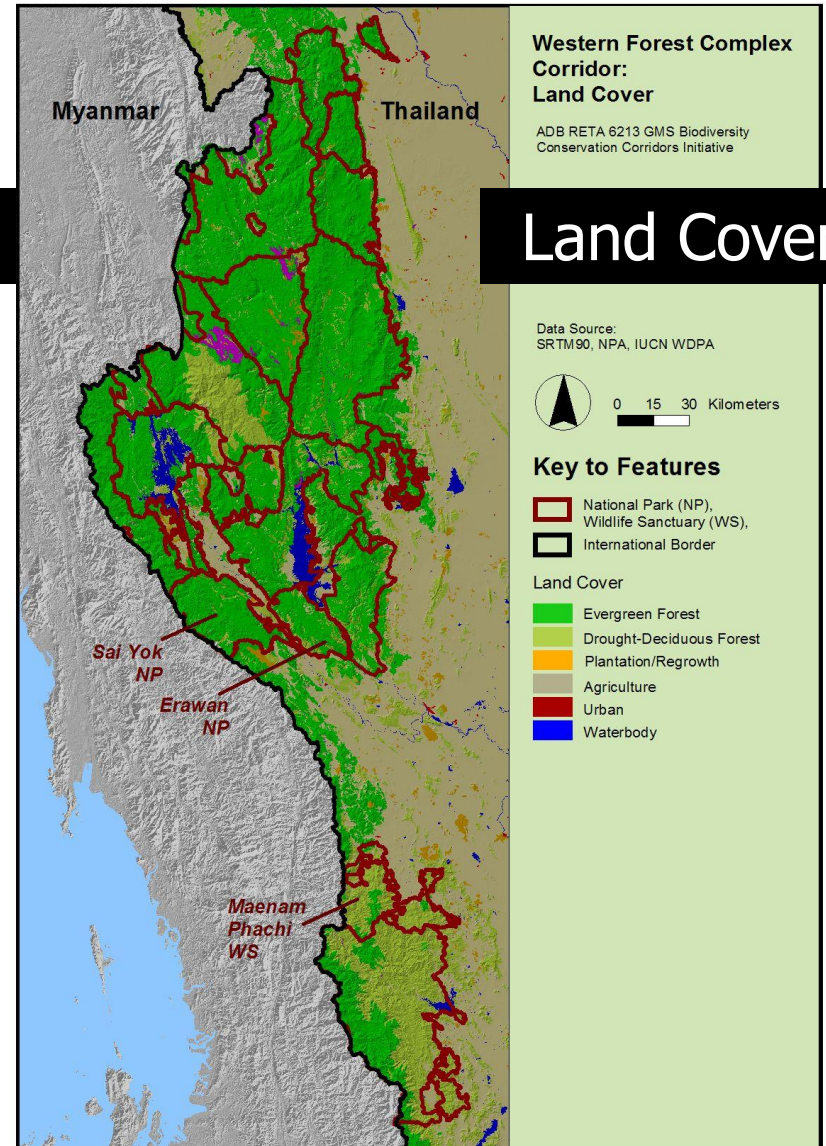
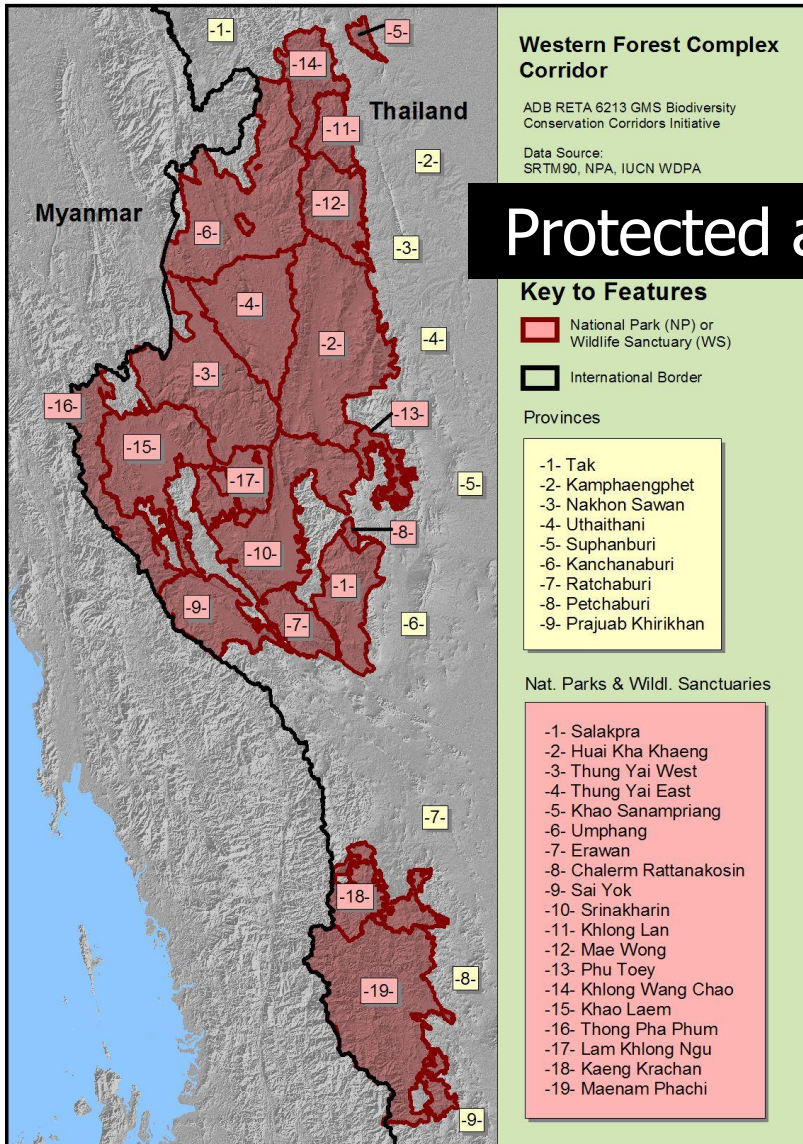
0 15 30 Kilometers

### Key to Features

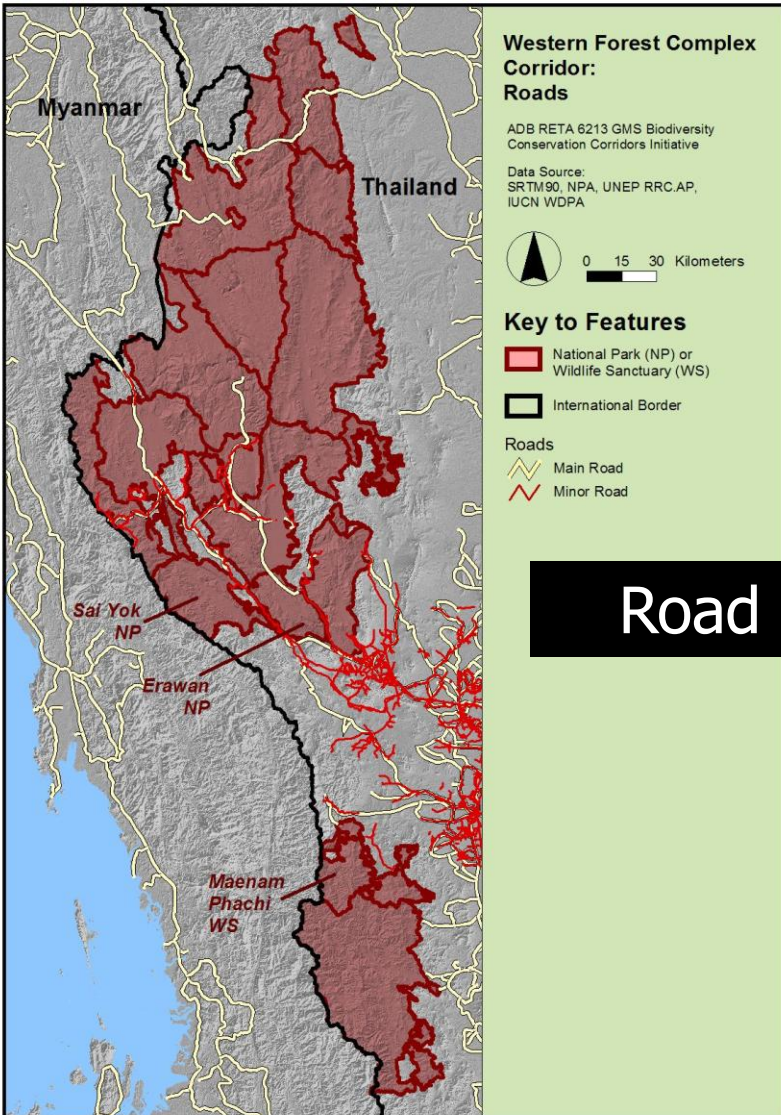
- National Park (NP), Wildlife Sanctuary (WS)
- International Border

### Land Cover

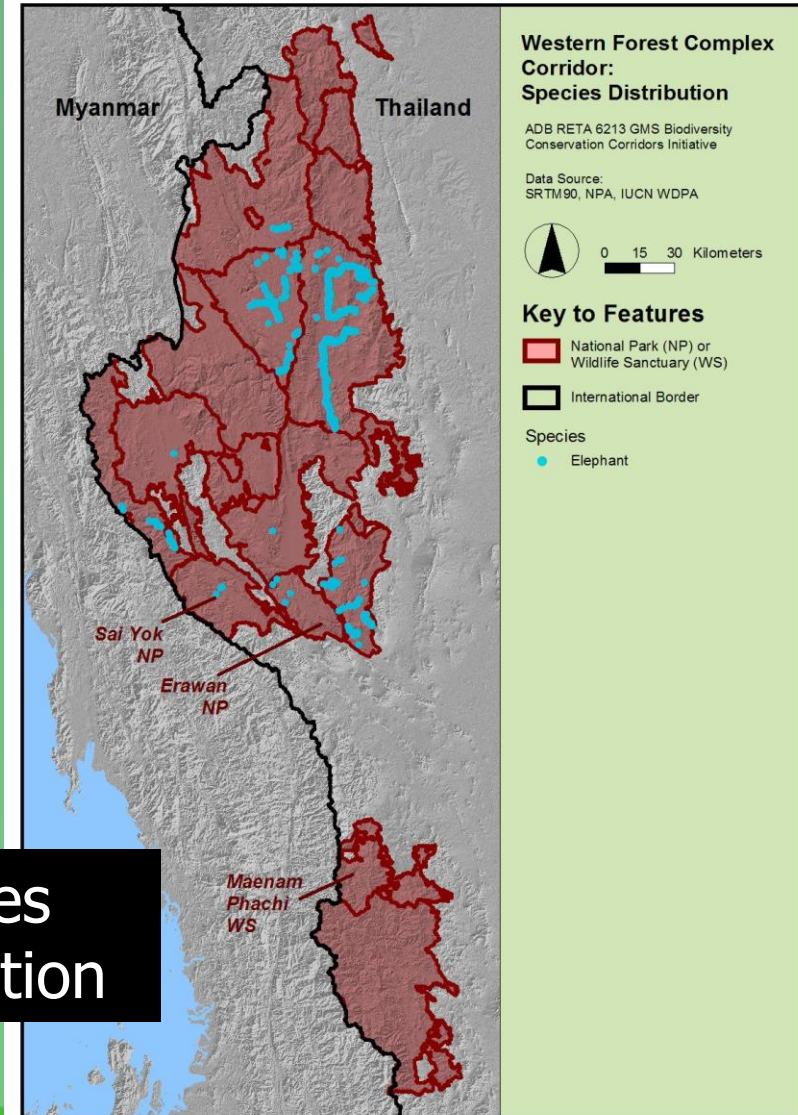
- Evergreen Forest
- Drought-Deciduous Forest
- Plantation/Regrowth
- Agriculture
- Urban
- Waterbody



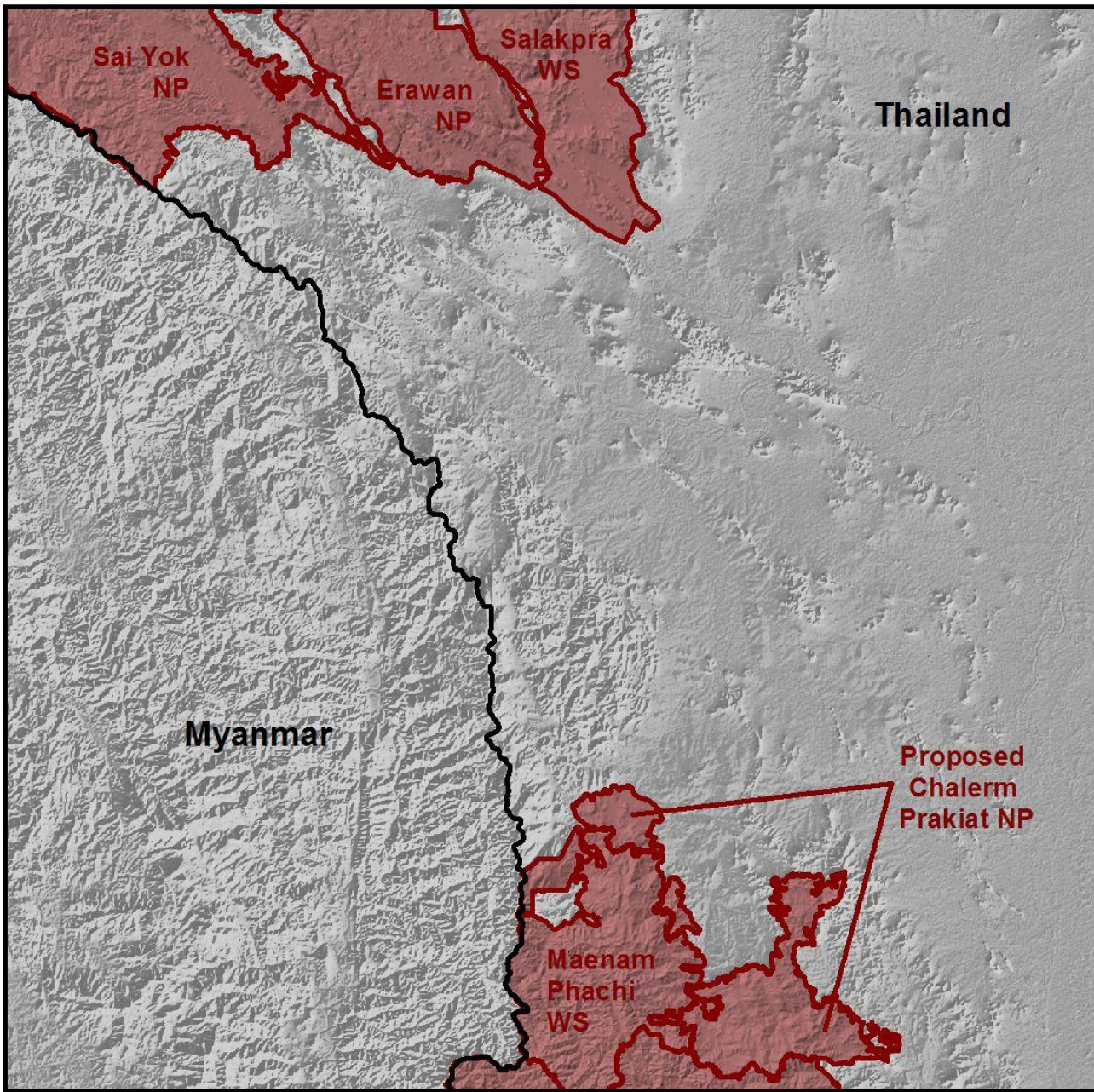
# Tenasserim – Western Forest Complex



Road



Species Distribution



## Western Forest Complex Corridor: Zones

ADB RETA 6213 GMS Biodiversity Conservation Corridors Initiative



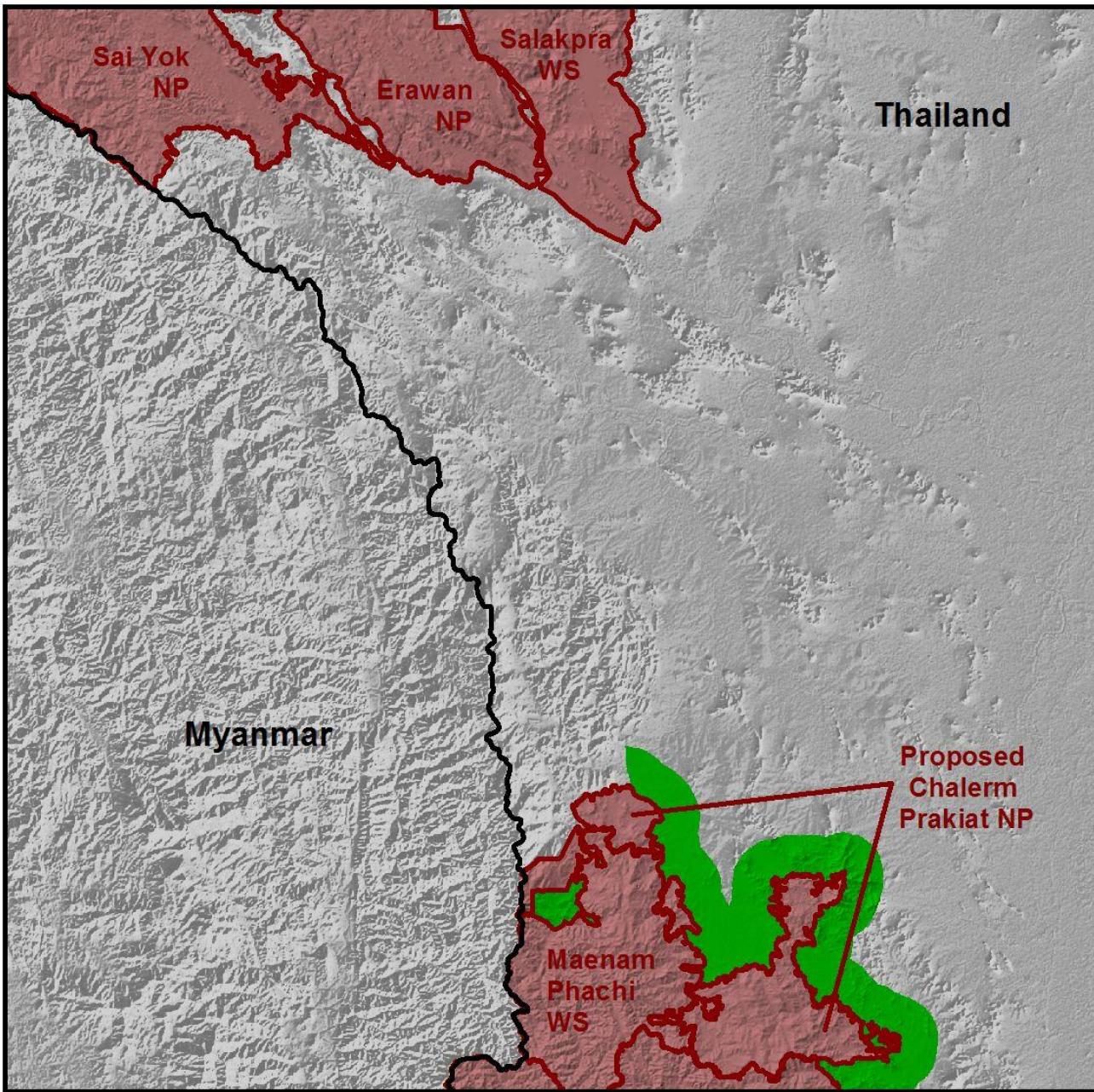
Data Source: SRTM90, NPA, IUCN WDPA



0 5 10 Kilometers

### Key to Features

-  International Border
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-  5km Corridor
-  10km Corridor
-  15km Corridor



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ADB RETA 6213 GMS Biodiversity Conservation Corridors Initiative



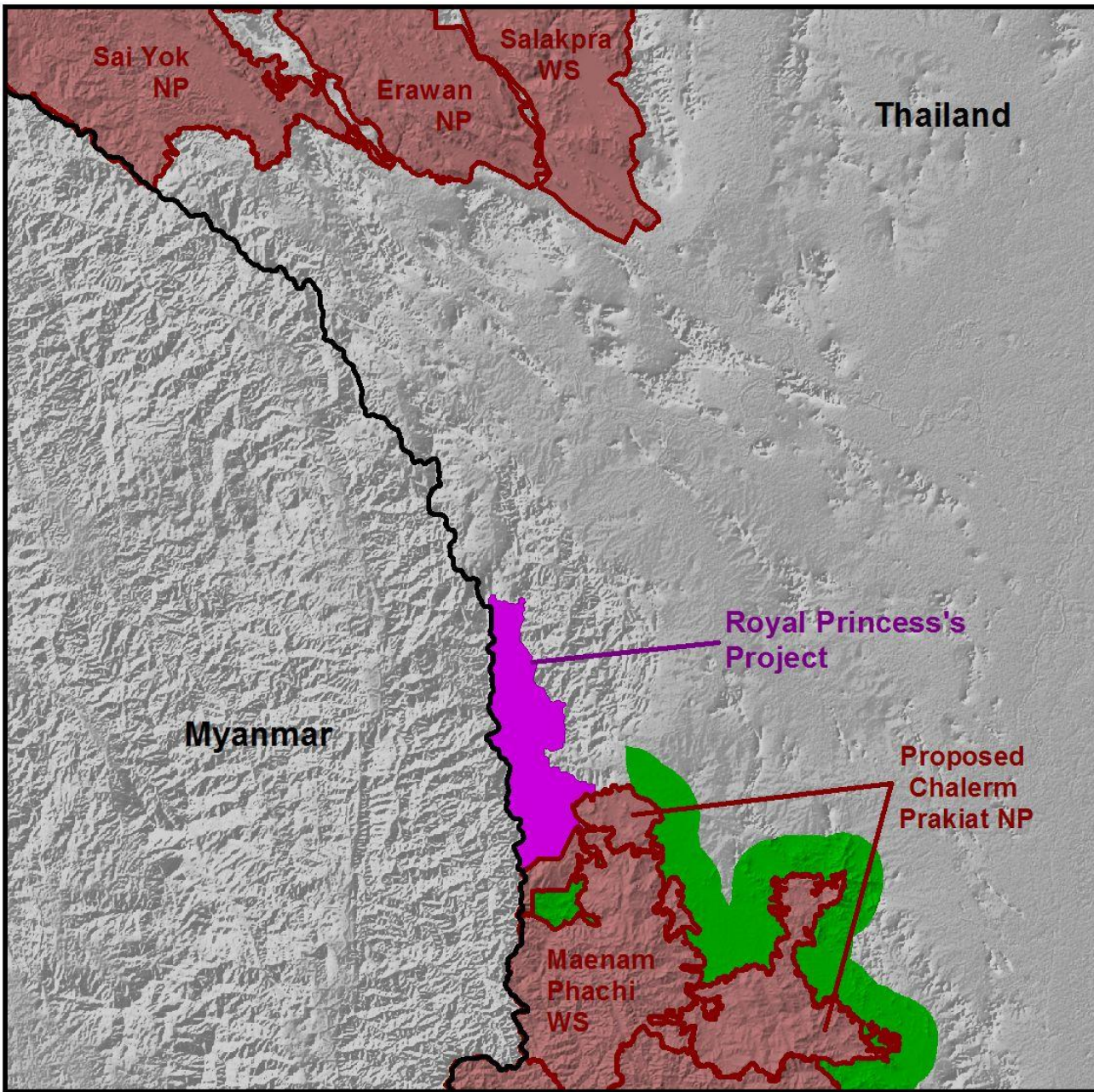
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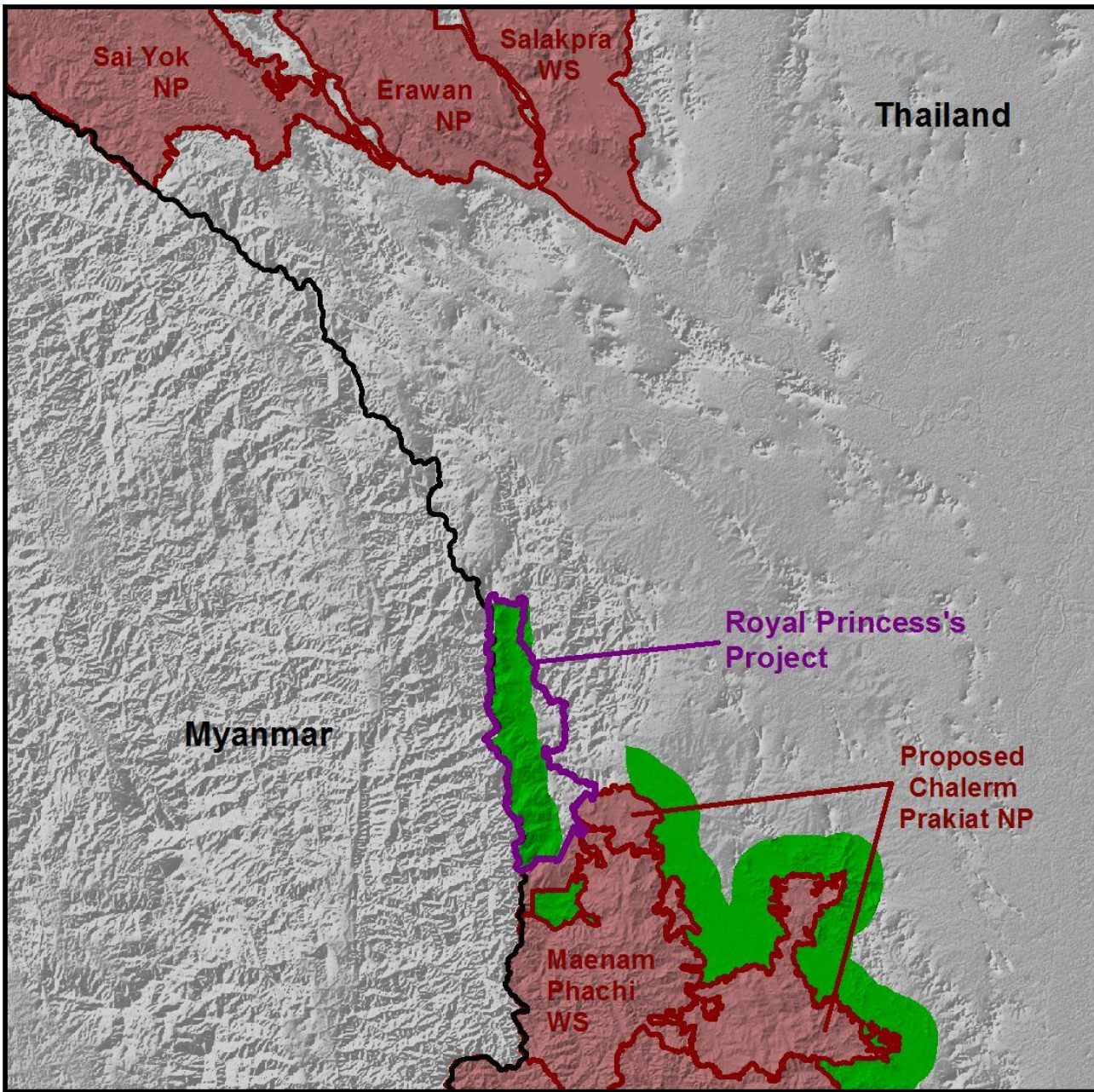
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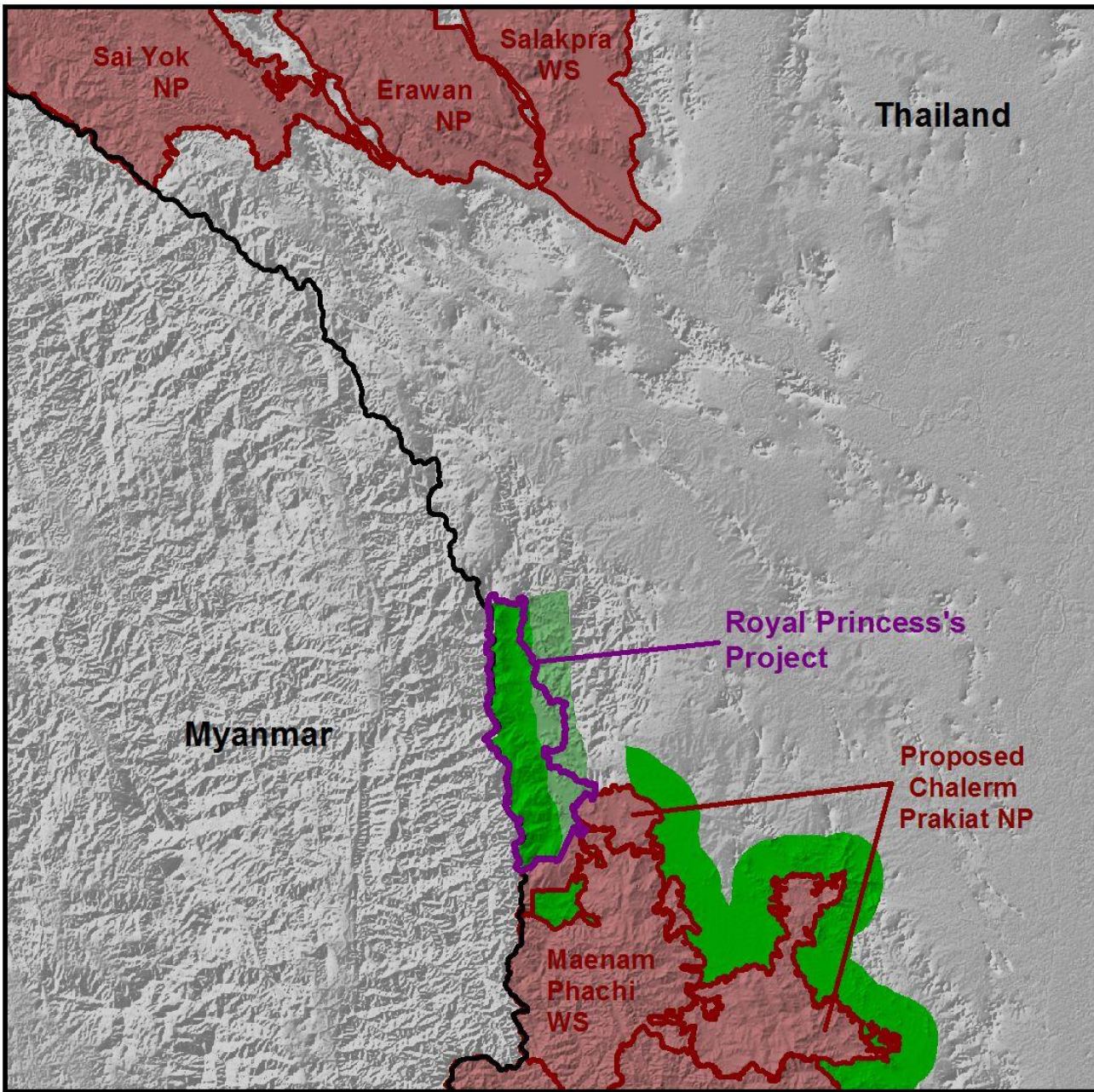
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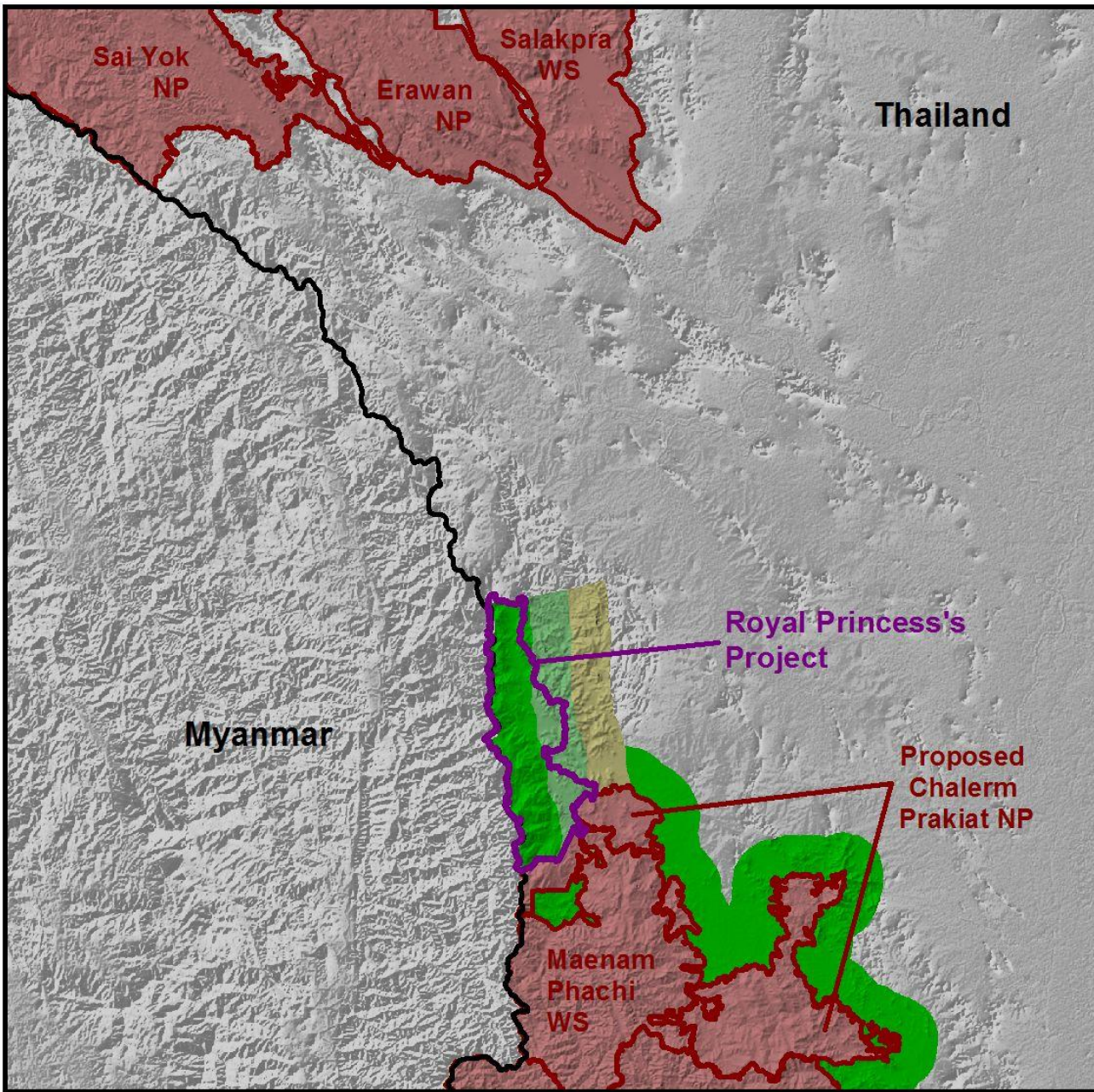
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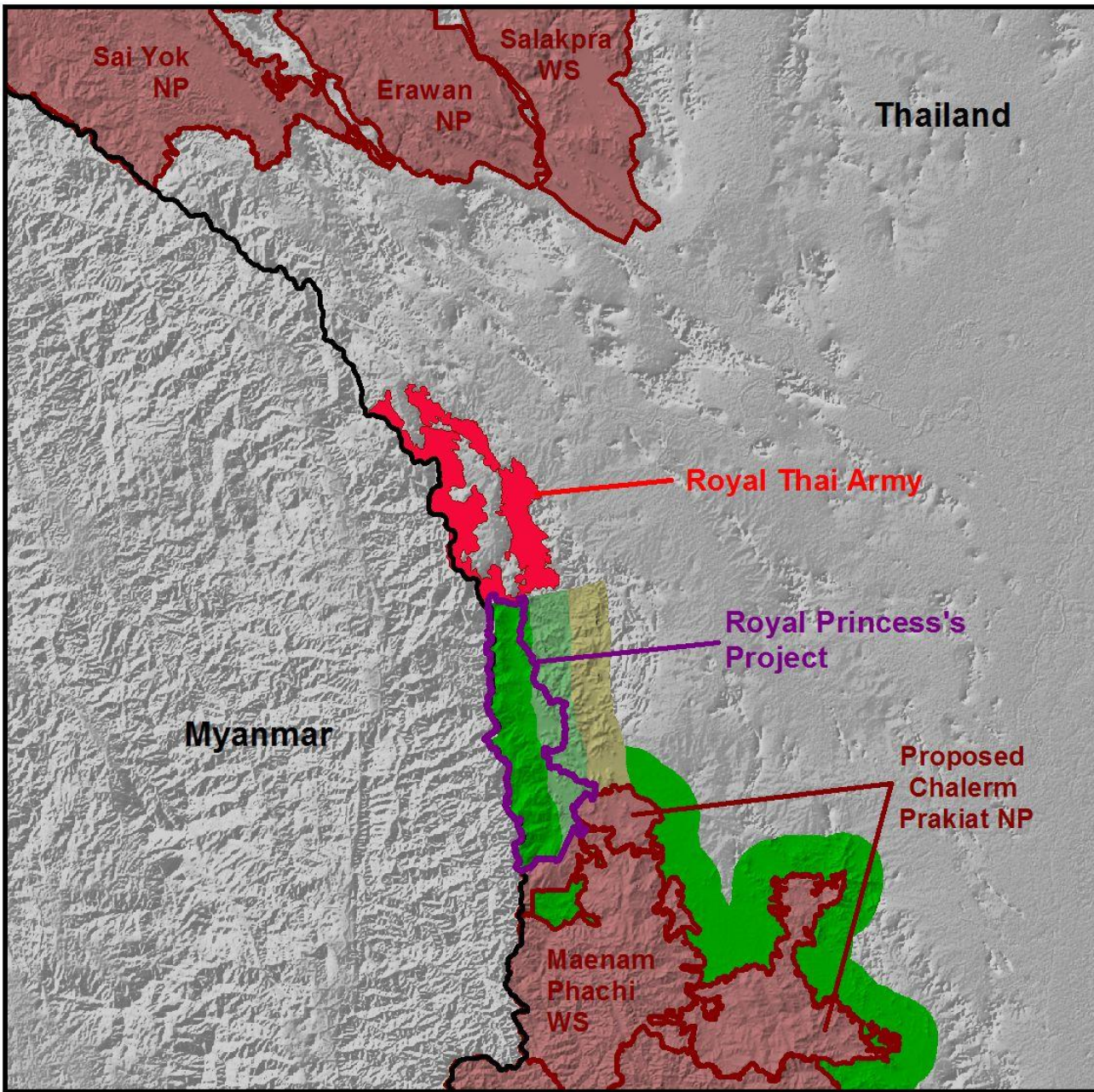
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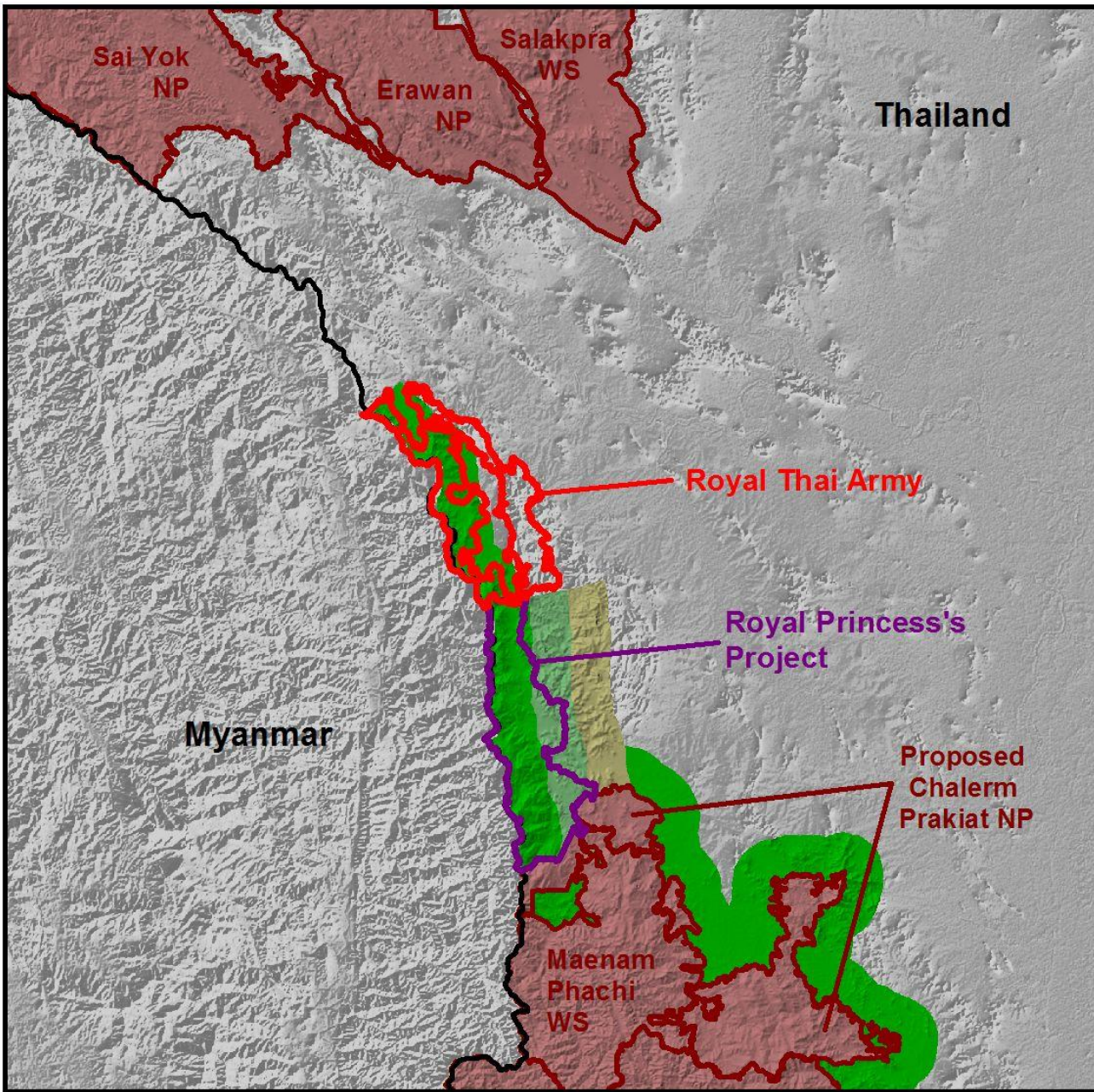
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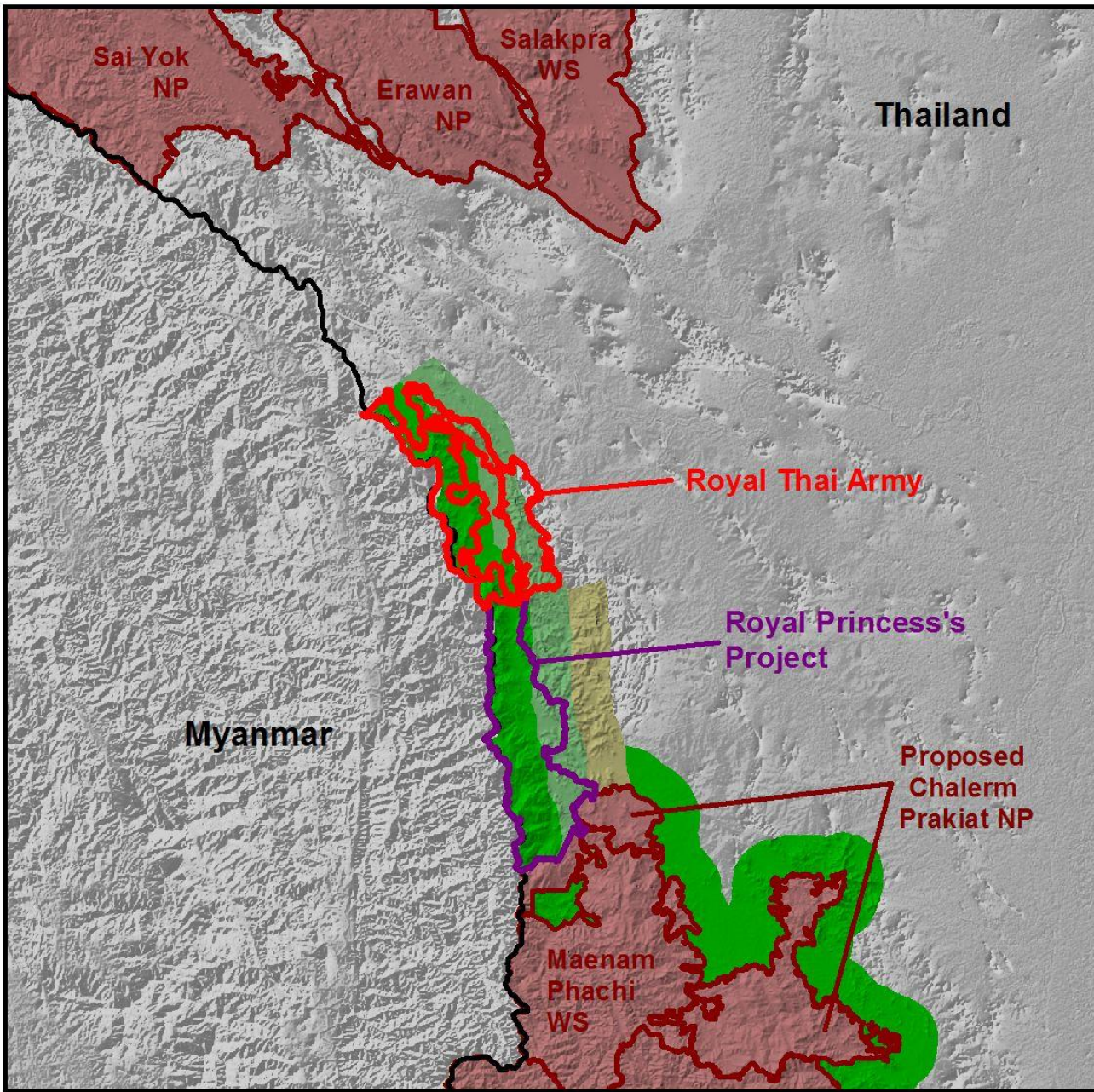
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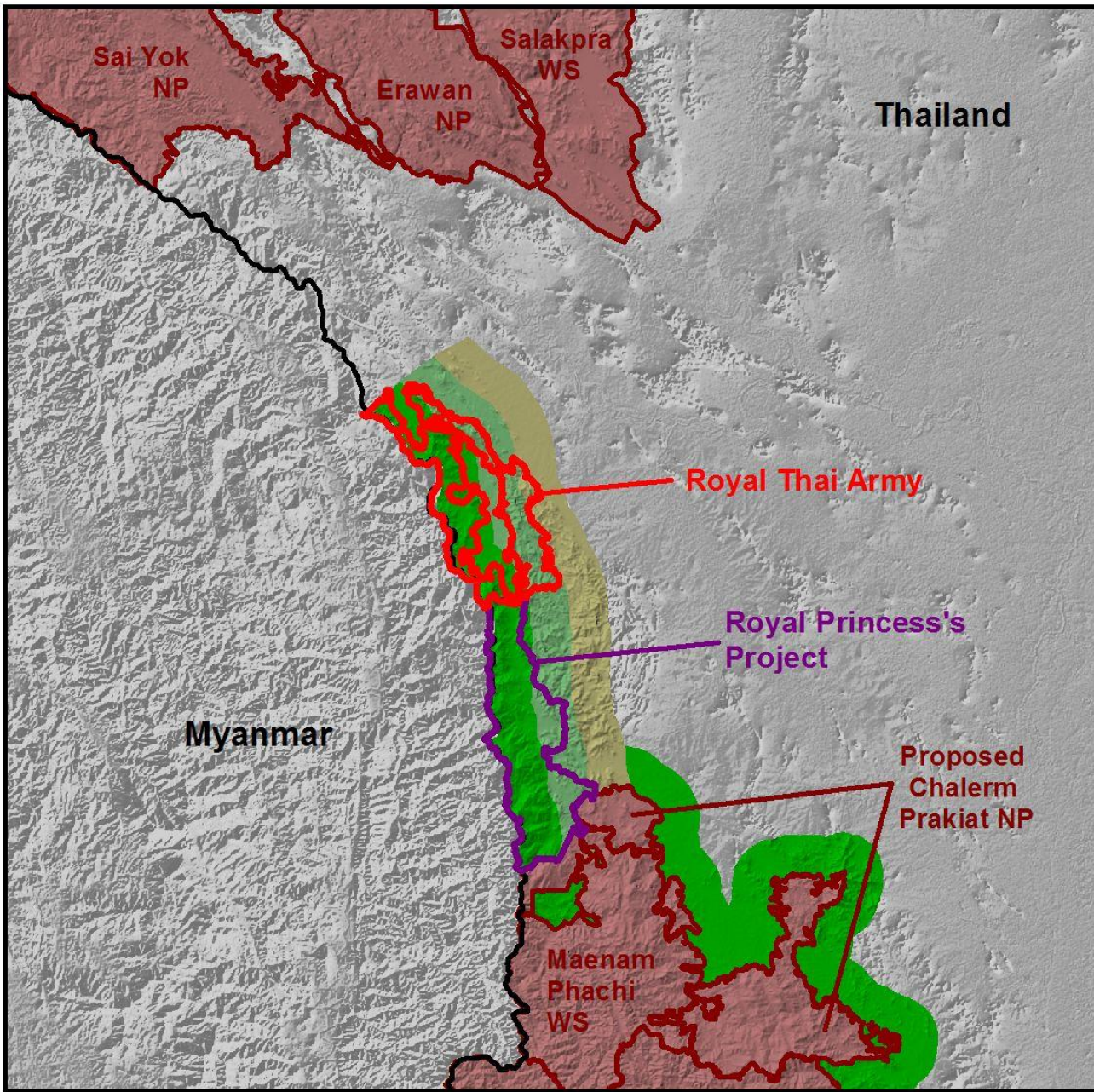
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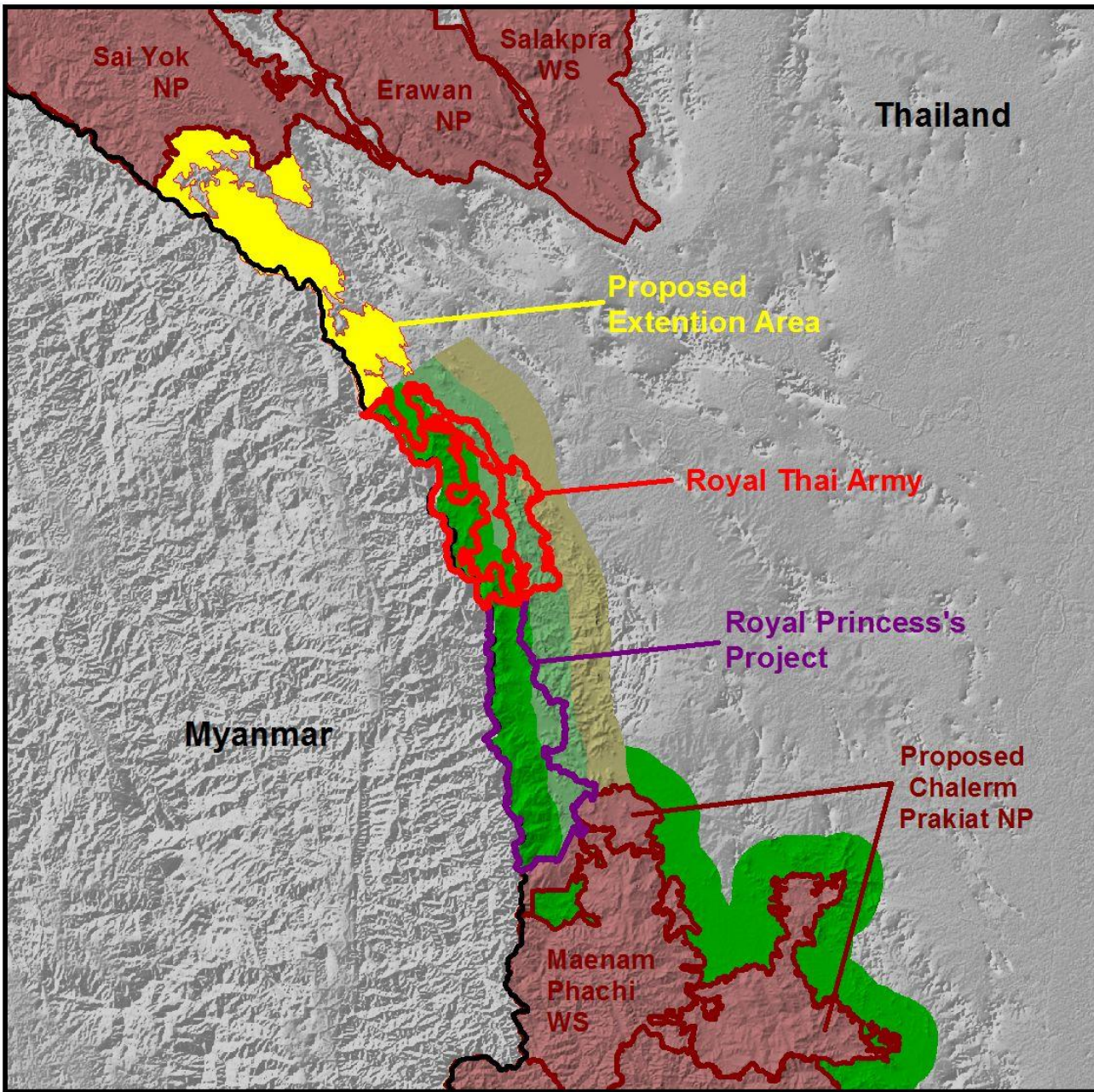
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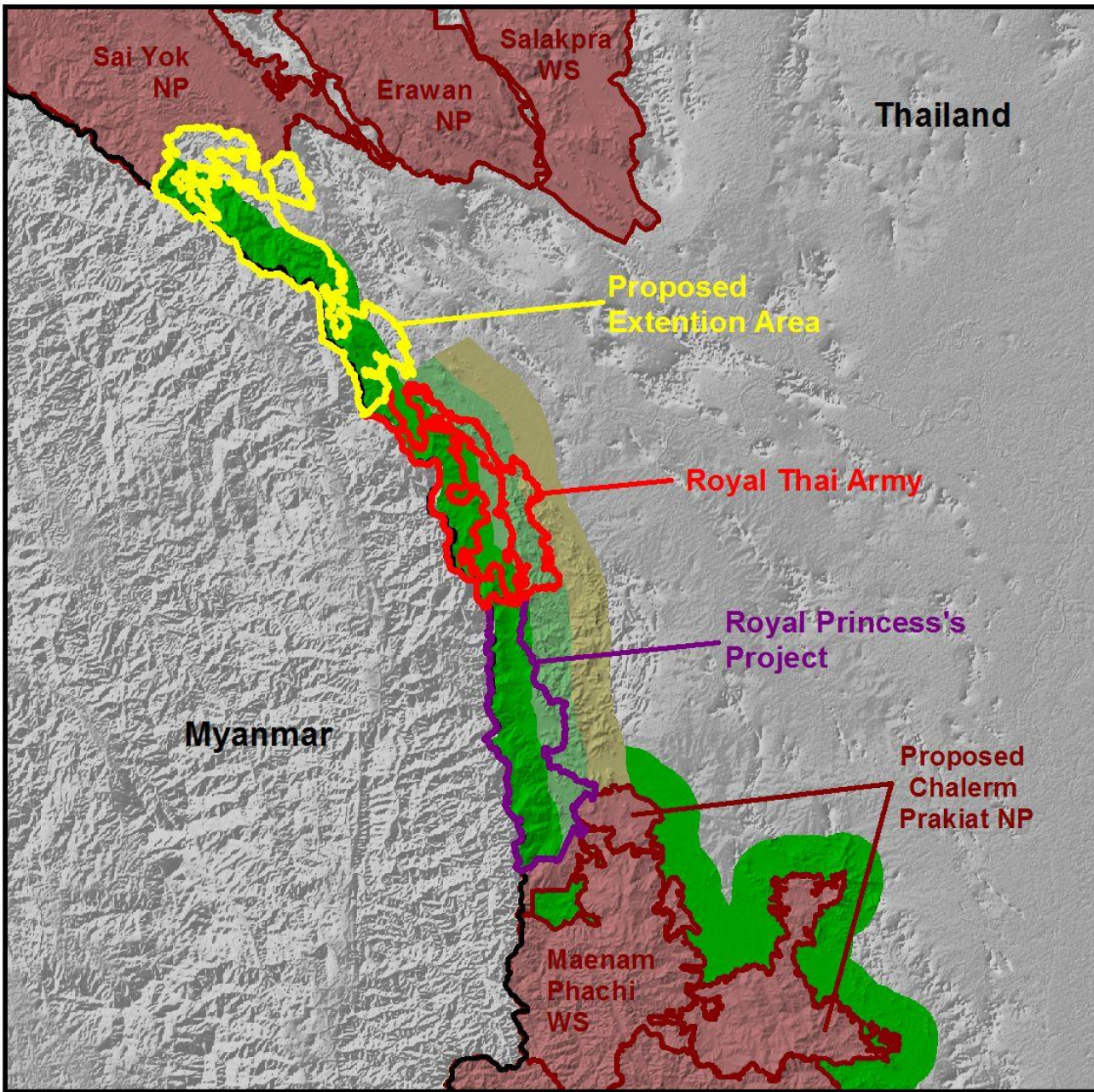


0 5 10 Kilometers

A horizontal scale bar with markings at 0, 5, and 10 kilometers.

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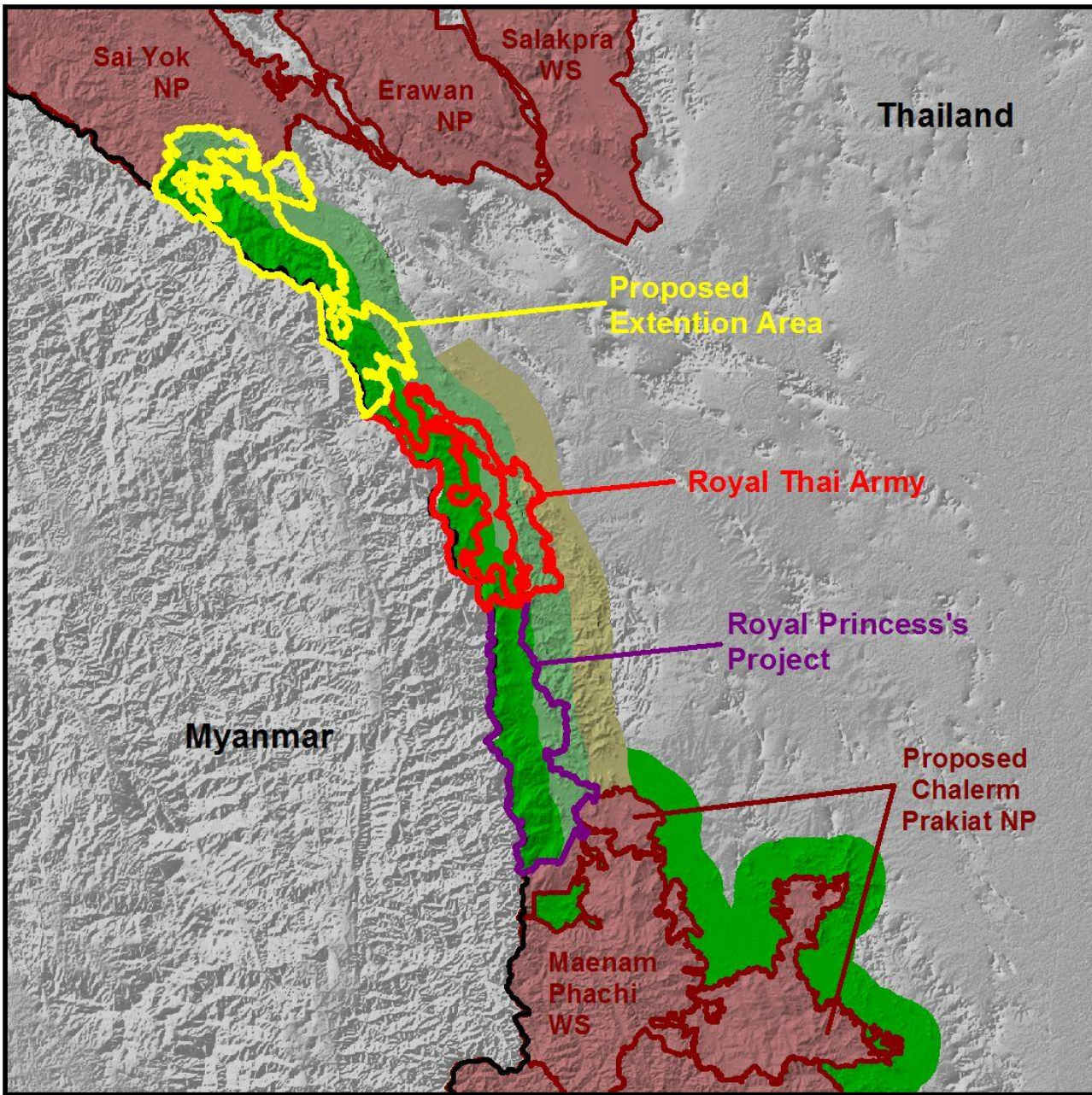
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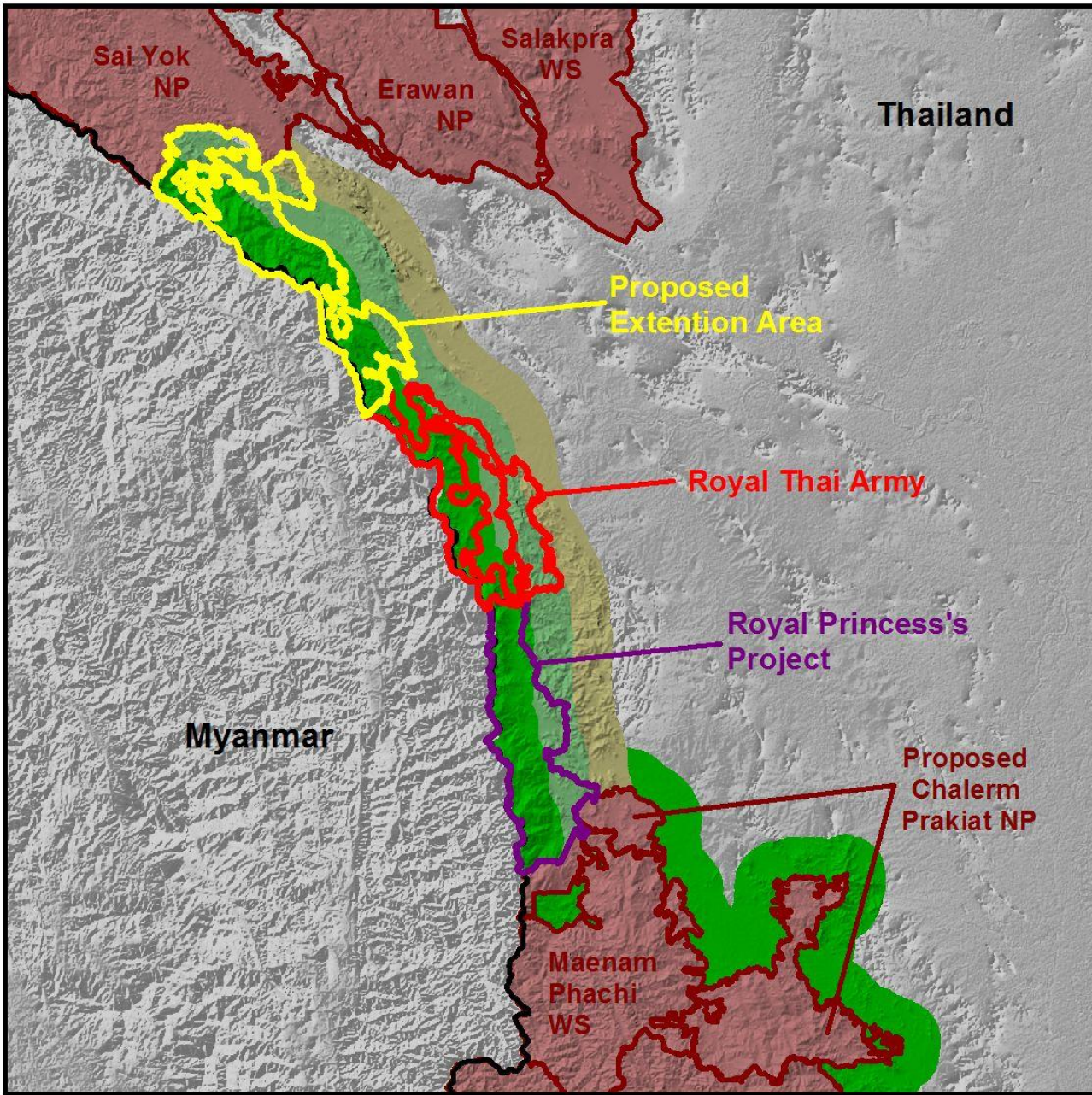
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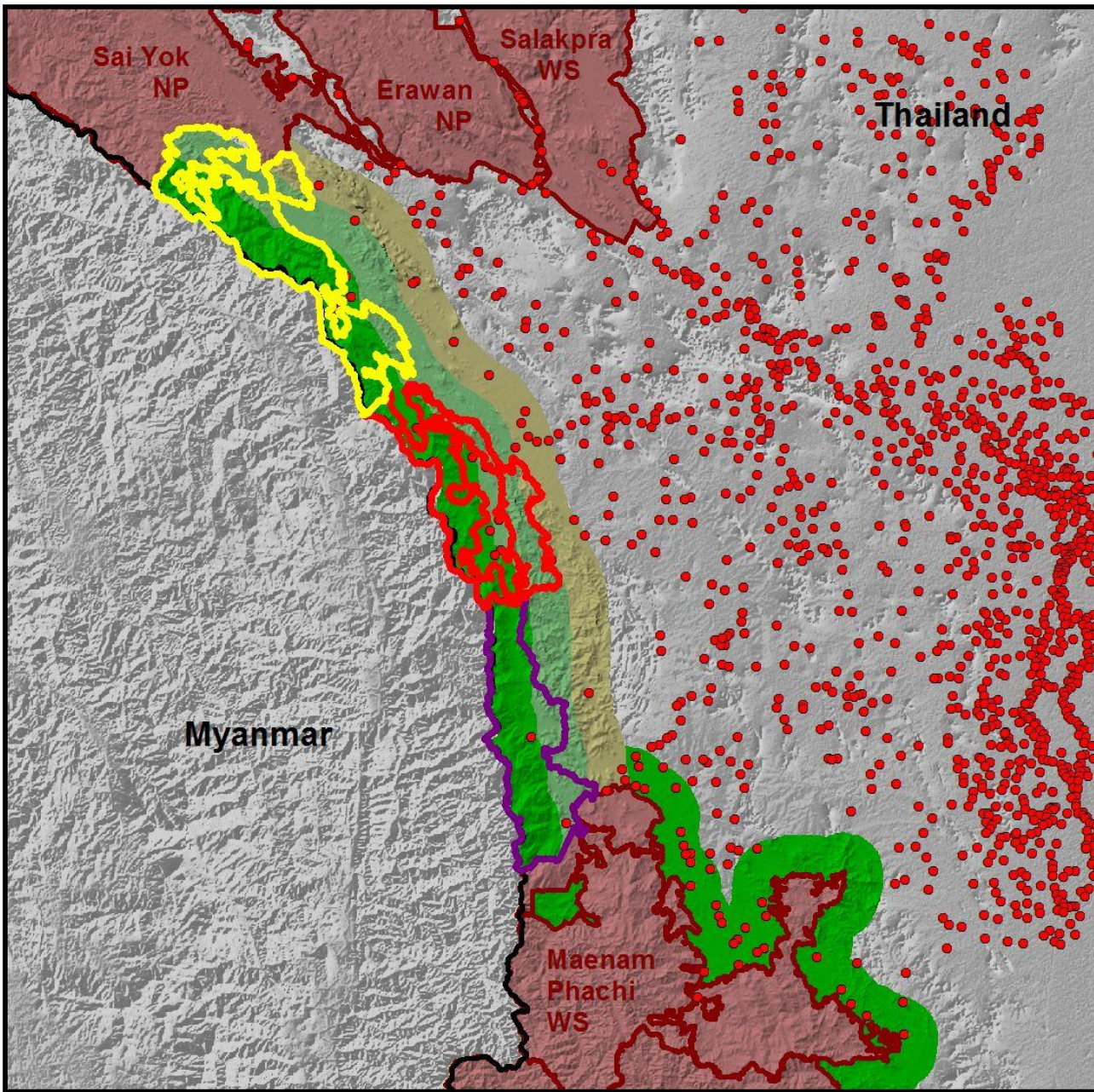
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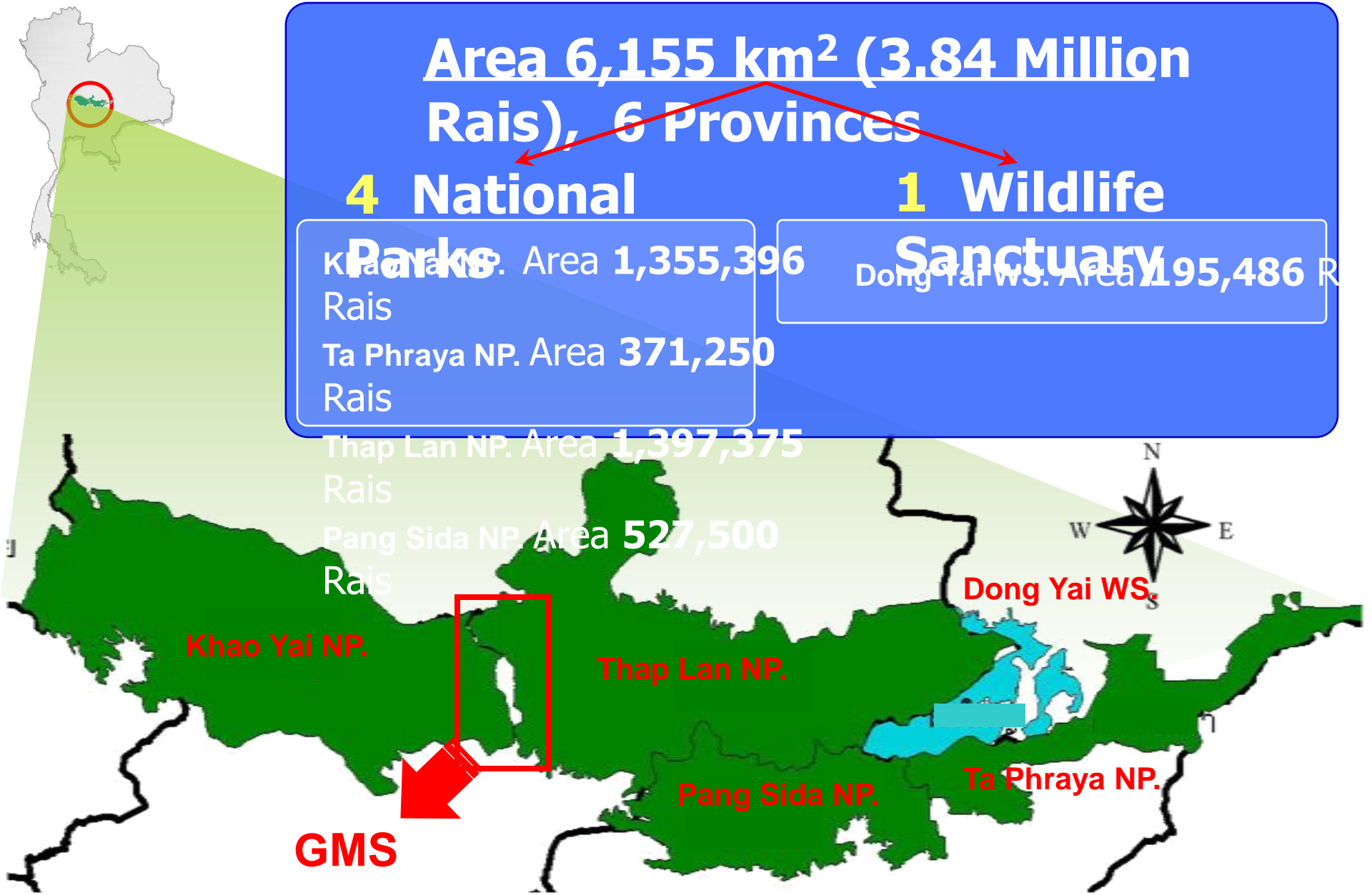


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-  10km Corridor
-  15km Corridor
-  Village

# Dong Phrayayen-Khao Yai Forest Complex



# Khao Yai – Thap Lan Ecological Connectivity Corridor



# Show The Road

## Num. 304



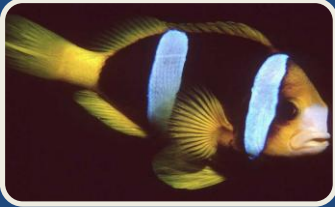








# or Participative Management of Prote



Integrated Natural Resources &  
Environmental Management Planning



Ecosystem Approach



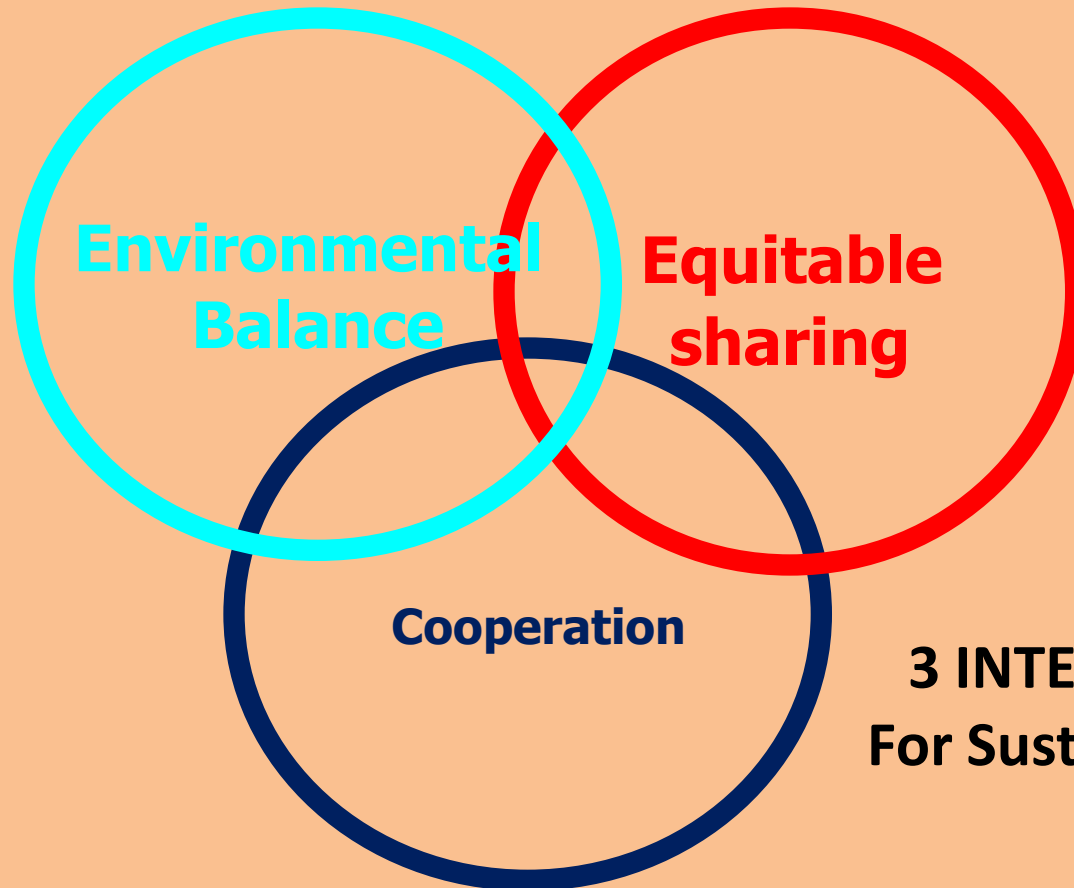
Spatial Information Based Decision  
Making



Public Participation



# Integrated Natural Resources & Environmental Management Planning



**3 INTEGRATED PRINCIPLES  
For Sustainable Development**

**Economic security**

**Good society**

**Wise use Natural resources**

**Environmental Balance**

**Public need**

**Government Policy**

**Resources capacity**

**Equitable sharing**

**Government Sector**

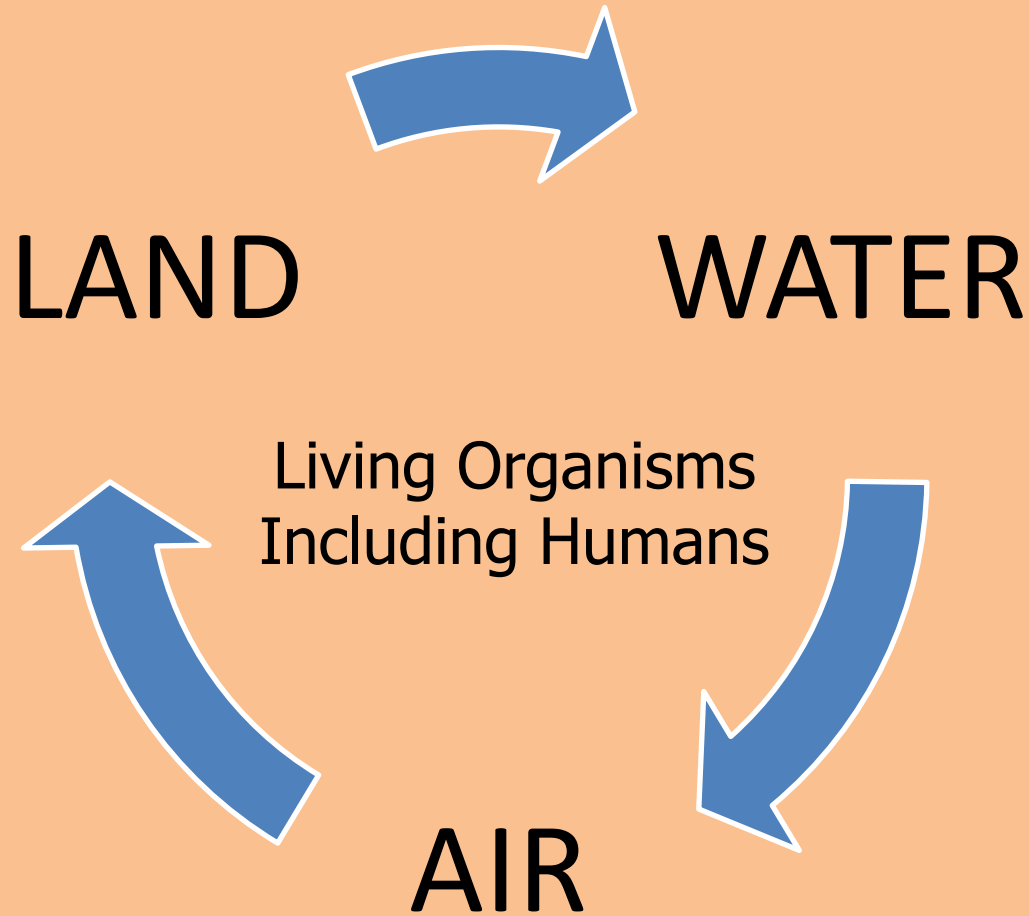
**Private Sector**

**Public Sector**

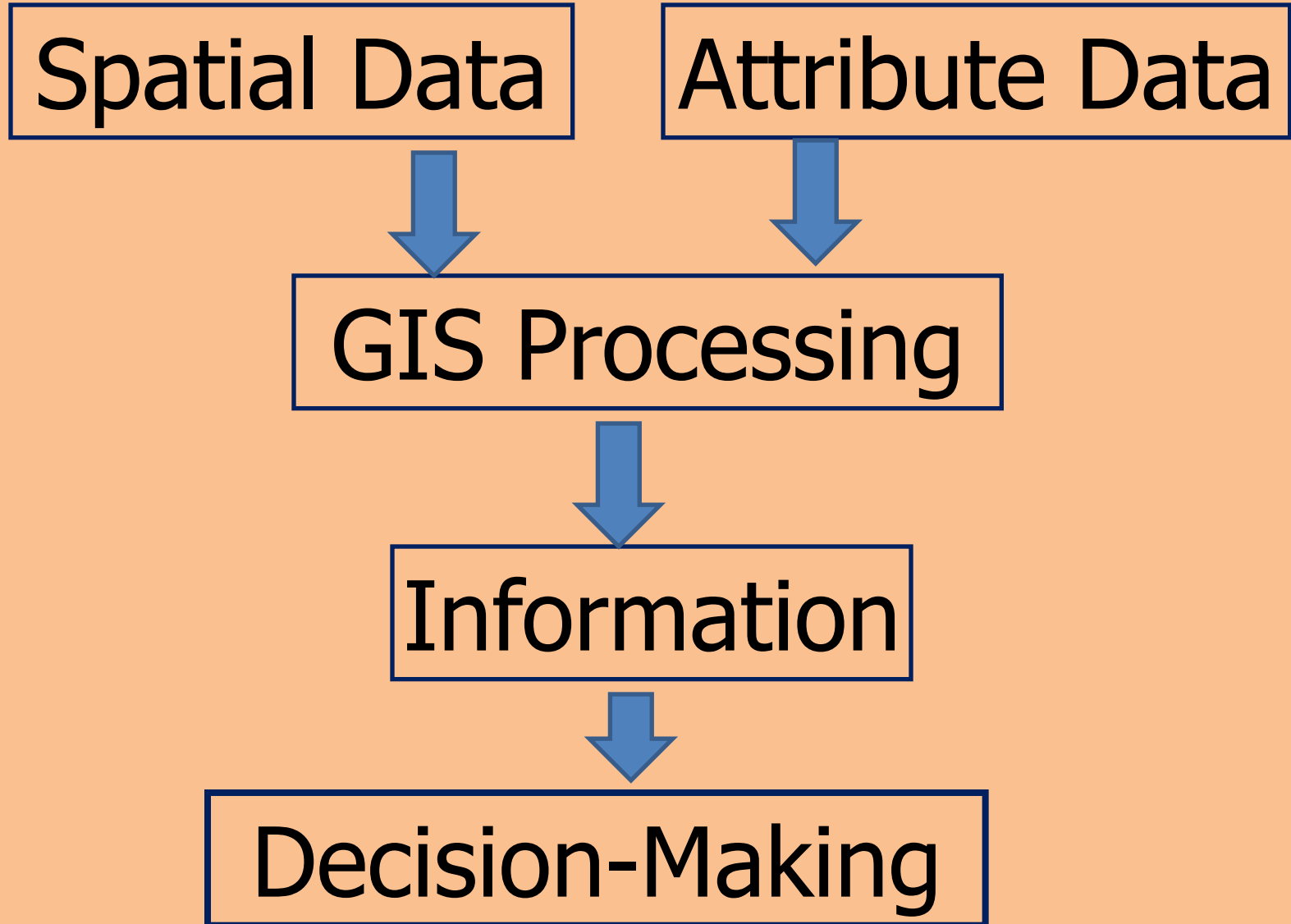
**Cooperation**

**Sustainable  
Development**

# Ecosystem Approach

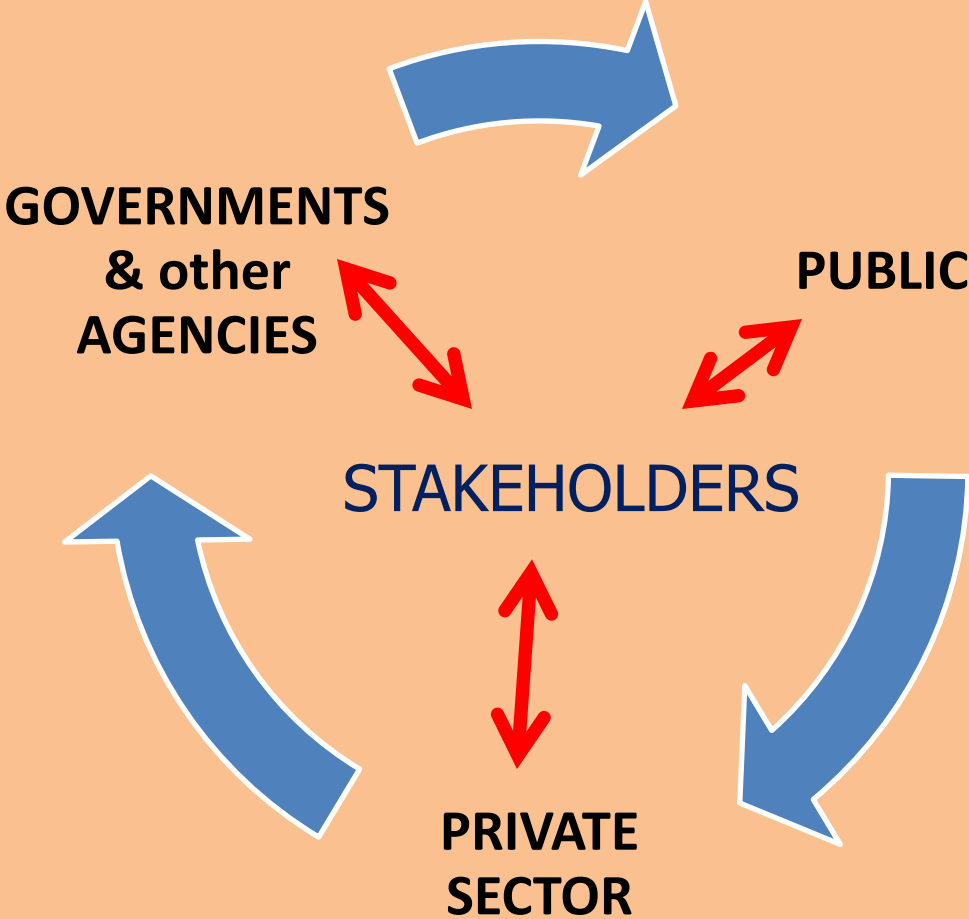


## Spatial Information Based Decision Making





# Public Participation





# TOOLS FOR INTEGRATING PROCESS

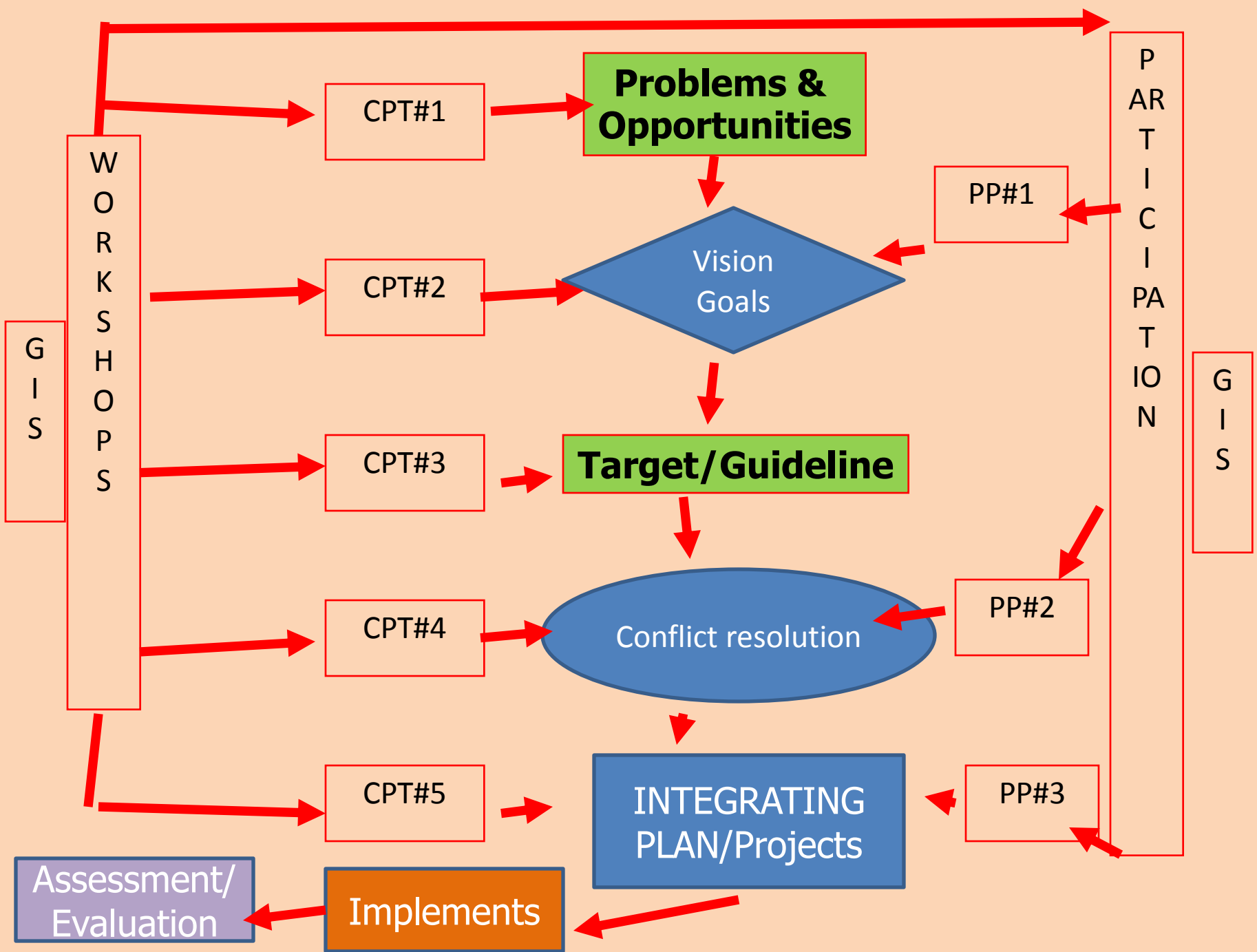


Core Planning Team :CPT

Public Participation : PP

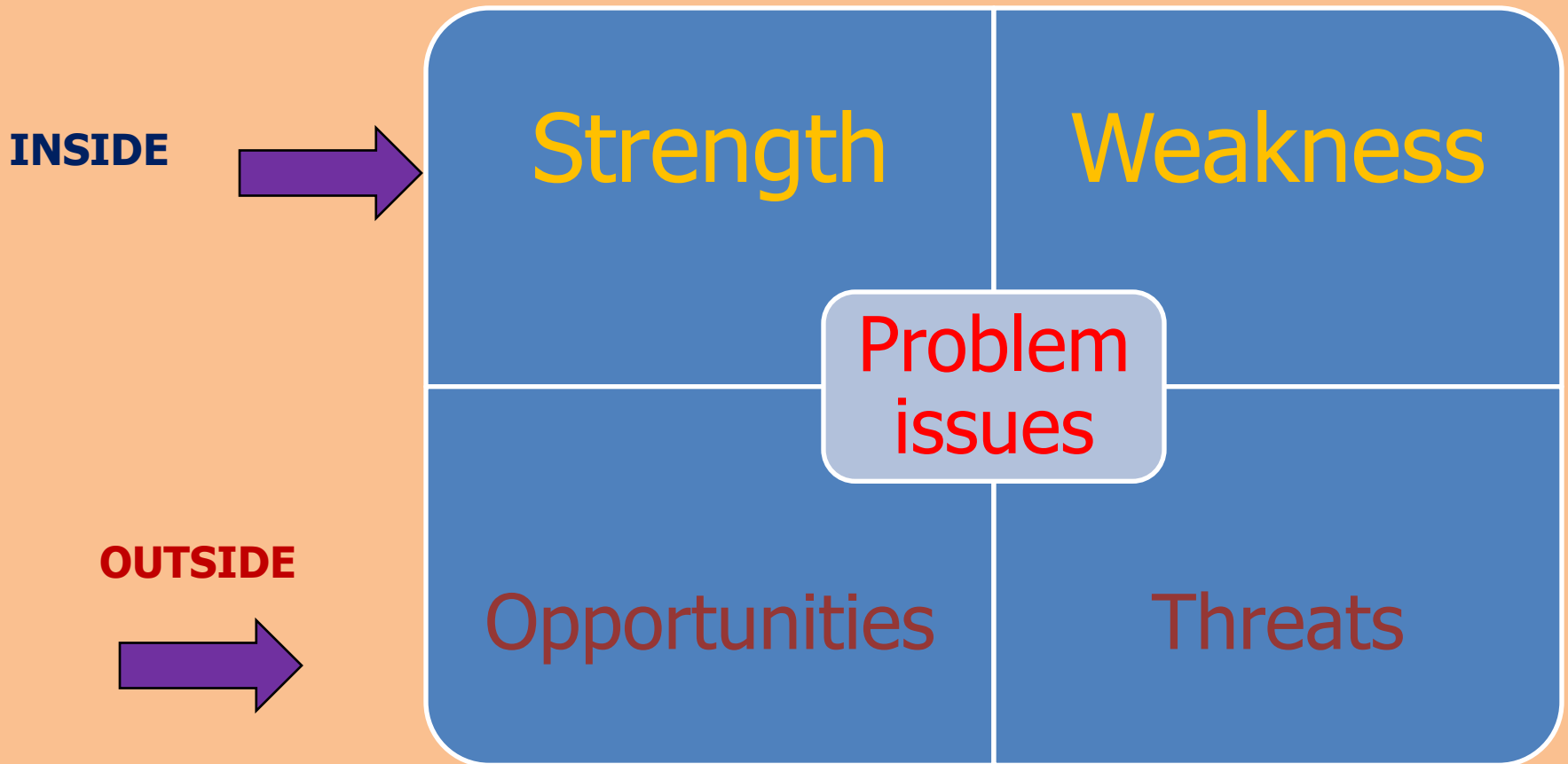
Spatial Information Based Decision  
Making

Workshops: CPT & PP





# SWOT Analysis



TOP DOWN

Problem issues



Vision



Goal



Target



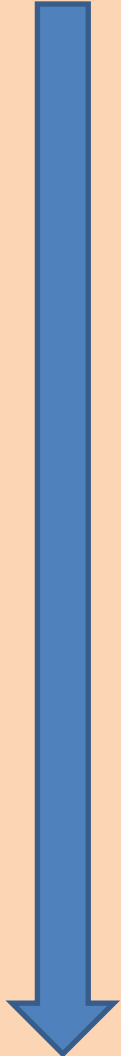
Management Guideline



Programs/projects



BOTTOM UP



# TRANSBOUNDARY PROTECTED AREAS



Network of ASEAN MCPA s

# Migratory paths: from Khram Island



Thailand

Cambodia

Vietnam

Malaysia

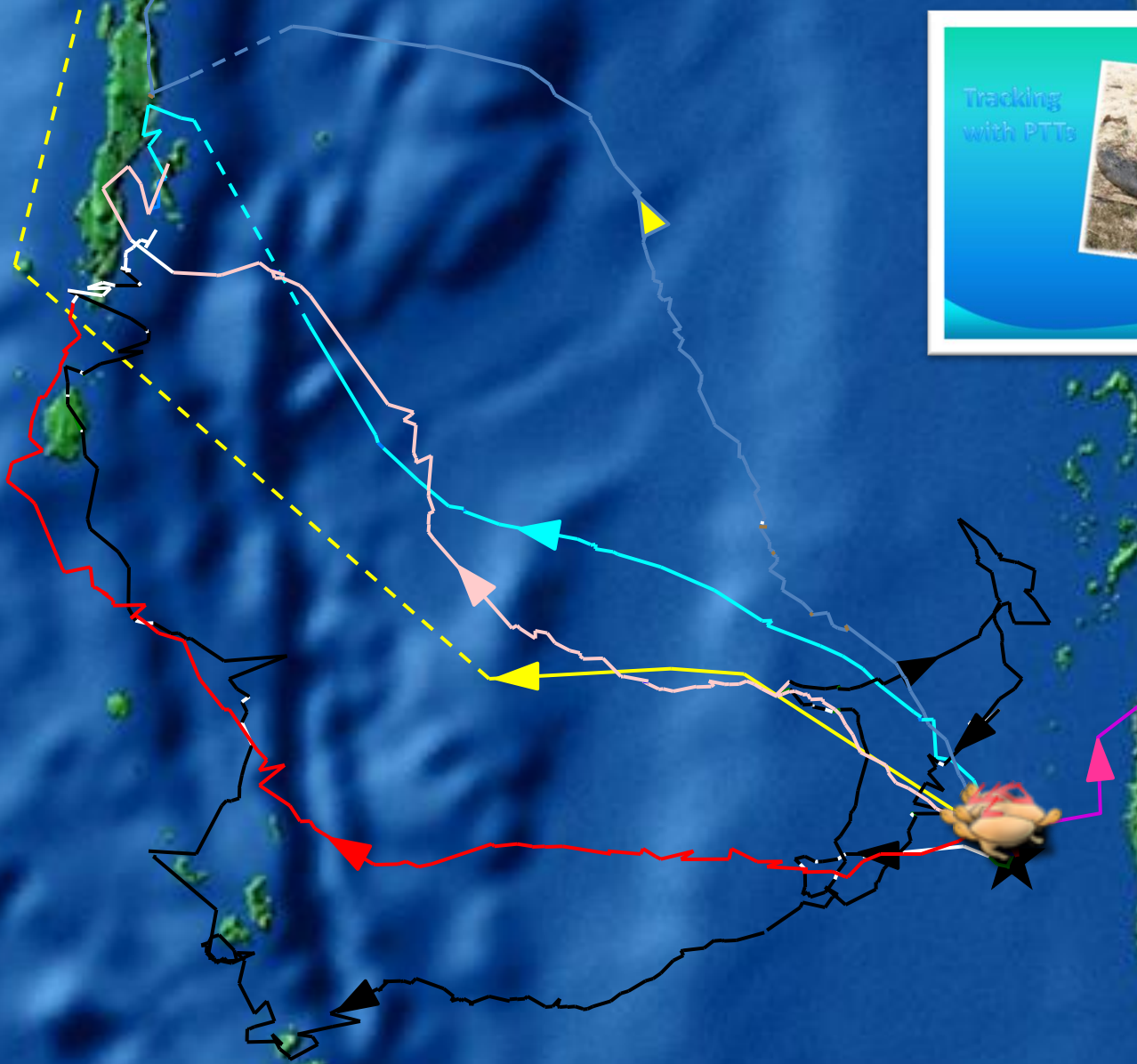
Indonesia

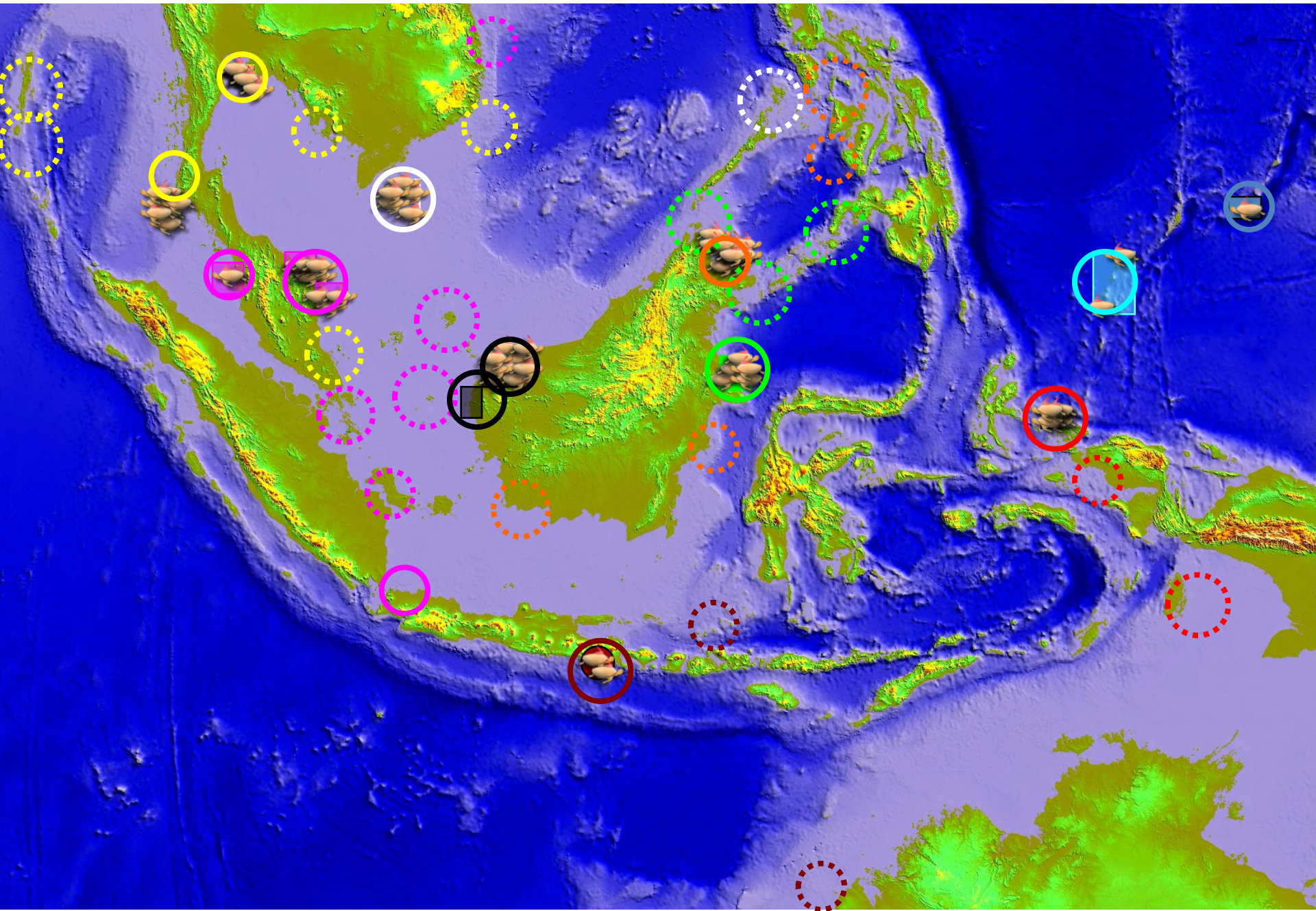
# Migratory paths: from Huyong Island

Andaman Island



Thailand





THANK YOU

