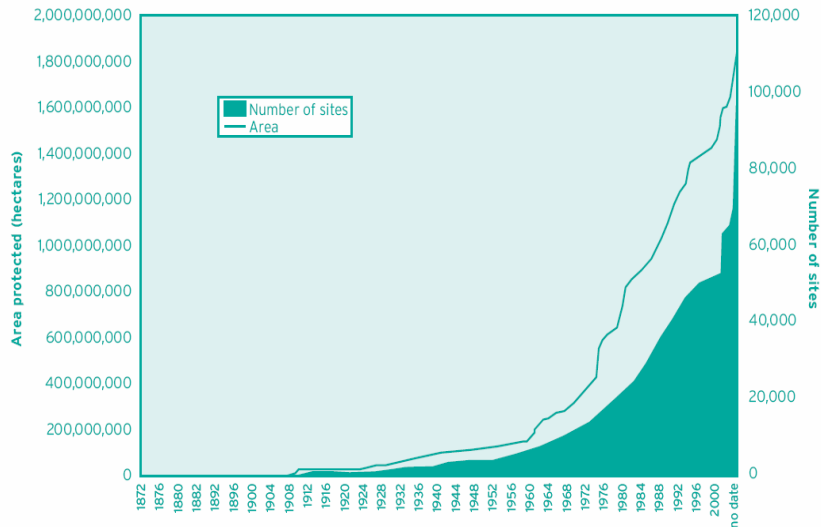


# INTEGRATING PROTECTED AREAS INTO WIDER LANDSCAPES, SEASCAPES AND SECTORAL PLANS AND STRATEGIES

Vilm, November 27 – December 1  
Jamison Ervin

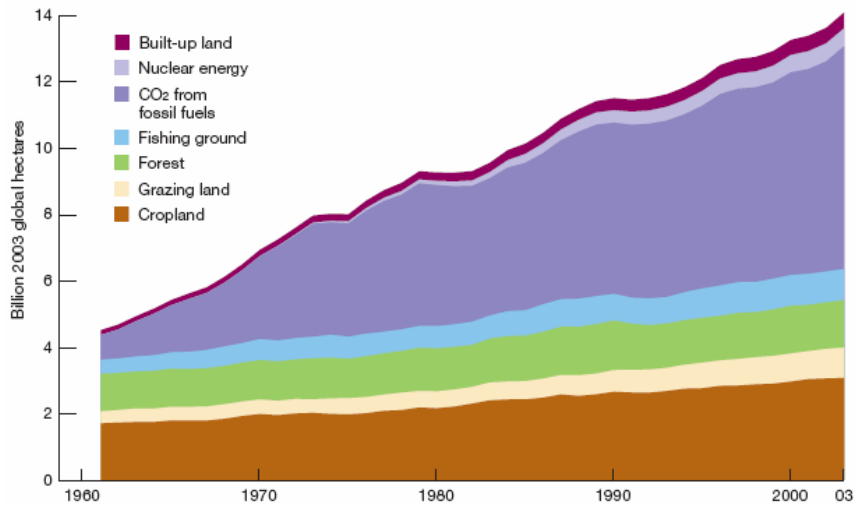
# WHY INTEGRATE PROTECTED AREAS?



- The growth of protected areas is a huge global conservation success
- More than 13% of earth's terrestrial surface is protected



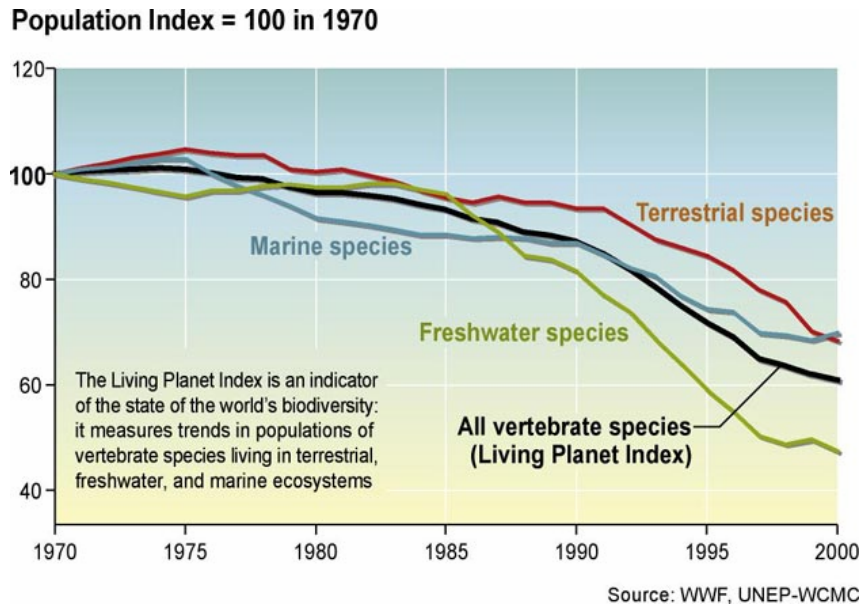
# WHY INTEGRATE PROTECTED AREAS?



- But the impact from human activities continues unabated
- Our human footprint extends over a huge percentage of the earth



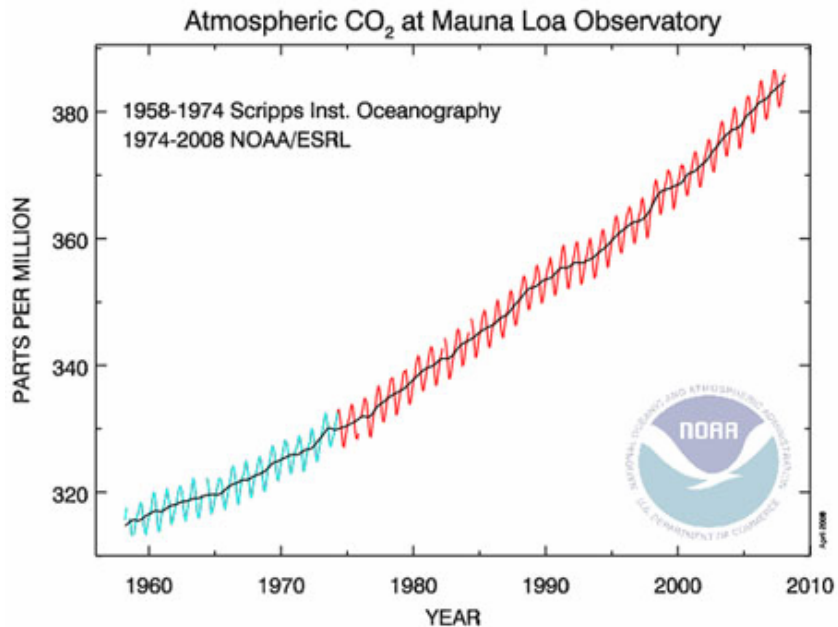
# WHY INTEGRATE PROTECTED AREAS?



- Despite the dramatic increase in protected areas, human impact outside of protected areas has led to unprecedented species declines

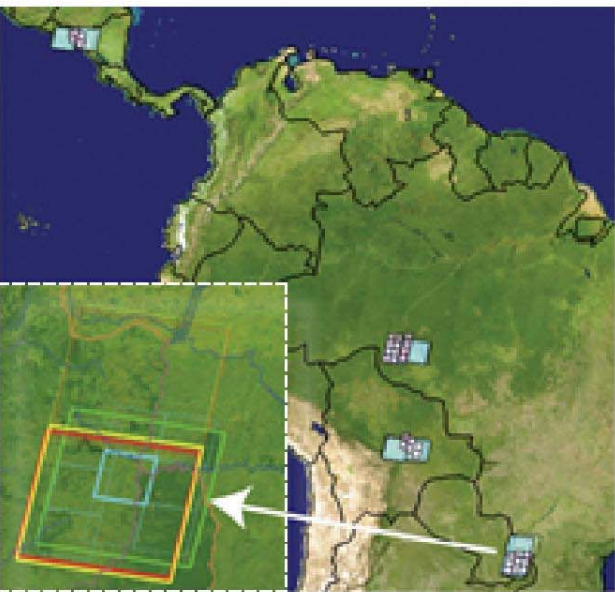


# WHY INTEGRATE PROTECTED AREAS?



- At the same time, increased CO<sub>2</sub> levels means climate change is having, and will continue to have, increasingly negative impacts on biodiversity

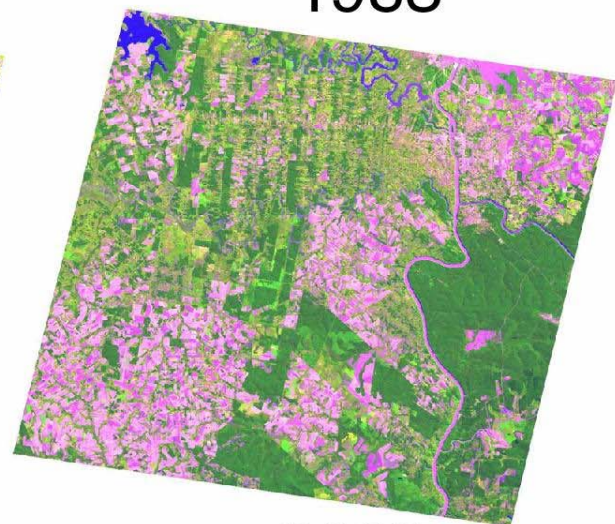




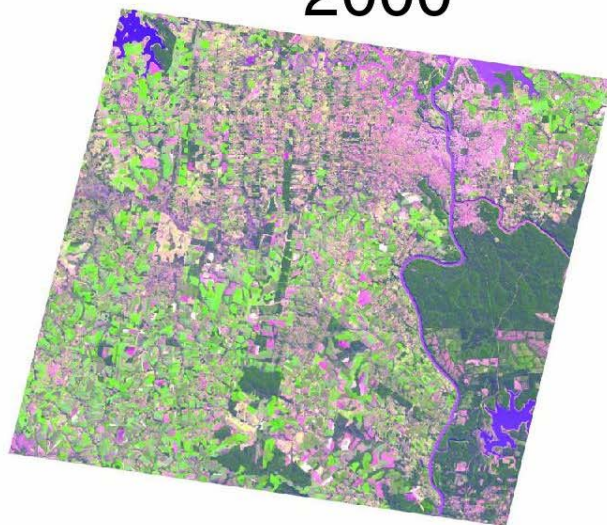
1979



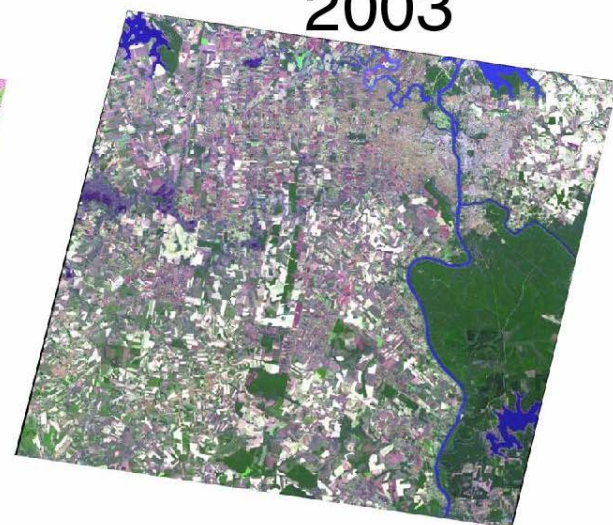
1983



2000



2003



# WHY INTEGRATE PROTECTED AREAS?

Because protected areas alone will not be enough to conserve biodiversity into the future



# BENEFITS OF PA INTEGRATION

- Help conserve species
- Help in climate change adaptation and resilience
- Manage ecological processes over large scales
- Help secure ecosystem services
- Tackle drivers and root causes of change
- Strengthen relationships with other sectors
- Build wider support for protected areas



# CBD POWPA TARGET 1.2

**Goal: To integrate protected areas into broader land- and seascapes and sectors so as to maintain ecological structure and function**

**Target:** By 2015, all protected areas and protected area systems are integrated into the wider land- and seascape, and relevant sectors, by applying the ecosystem approach and taking into account ecological connectivity and the concept, where appropriate, of ecological networks.

## **Suggested activities of the Parties**

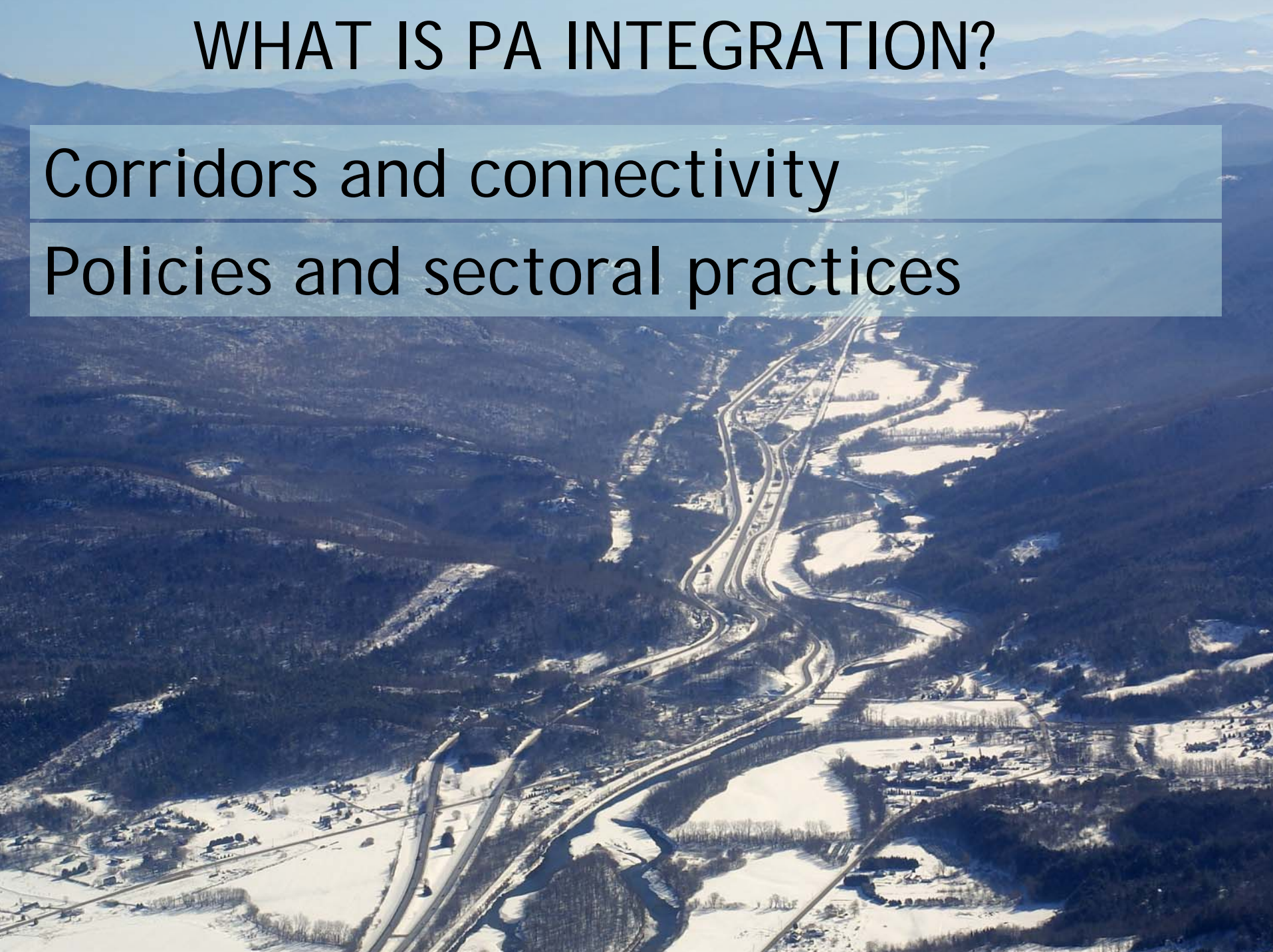
- 1.2.1. Evaluate national and sub-national experiences and **lessons learned**
- 1.2.2. Identify and implement **practical policy integration steps**
- 1.2.3. Establish and manage ecological **networks, corridors** and/or **buffer zones**
- 1.2.4. Develop tools of ecological connectivity, such as **ecological corridors**,
- 1.2.5. Rehabilitate and **restore** habitats and degraded ecosystems



# WHAT IS PA INTEGRATION?

Corridors and connectivity

Policies and sectoral practices

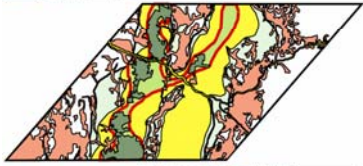
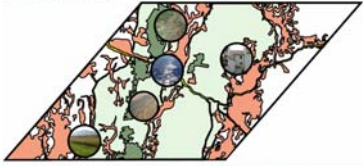
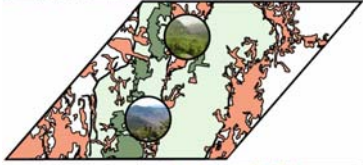
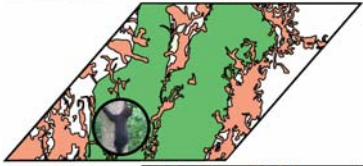


# BACKGROUND

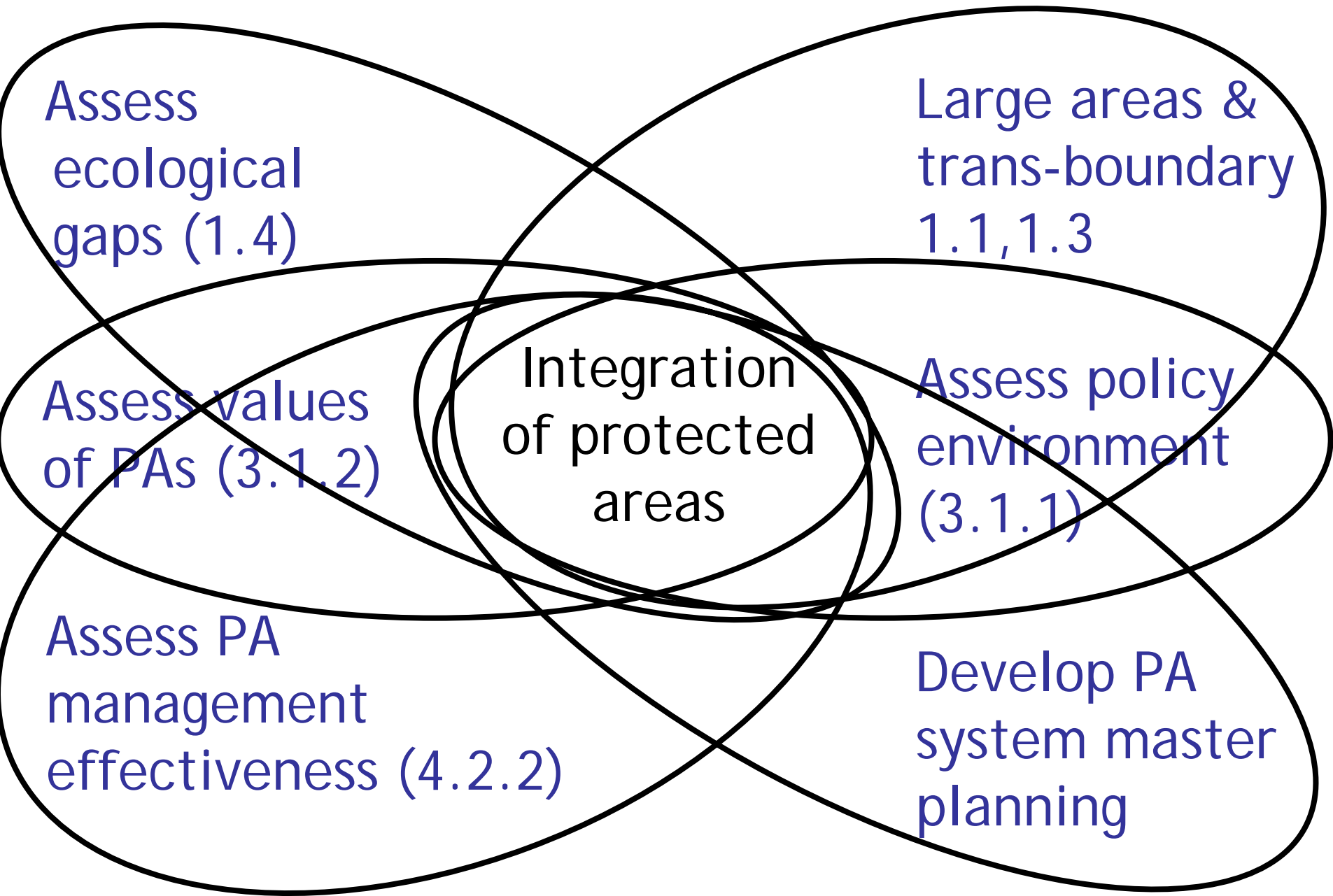


# STEPS IN PROTECTED AREA INTEGRATION

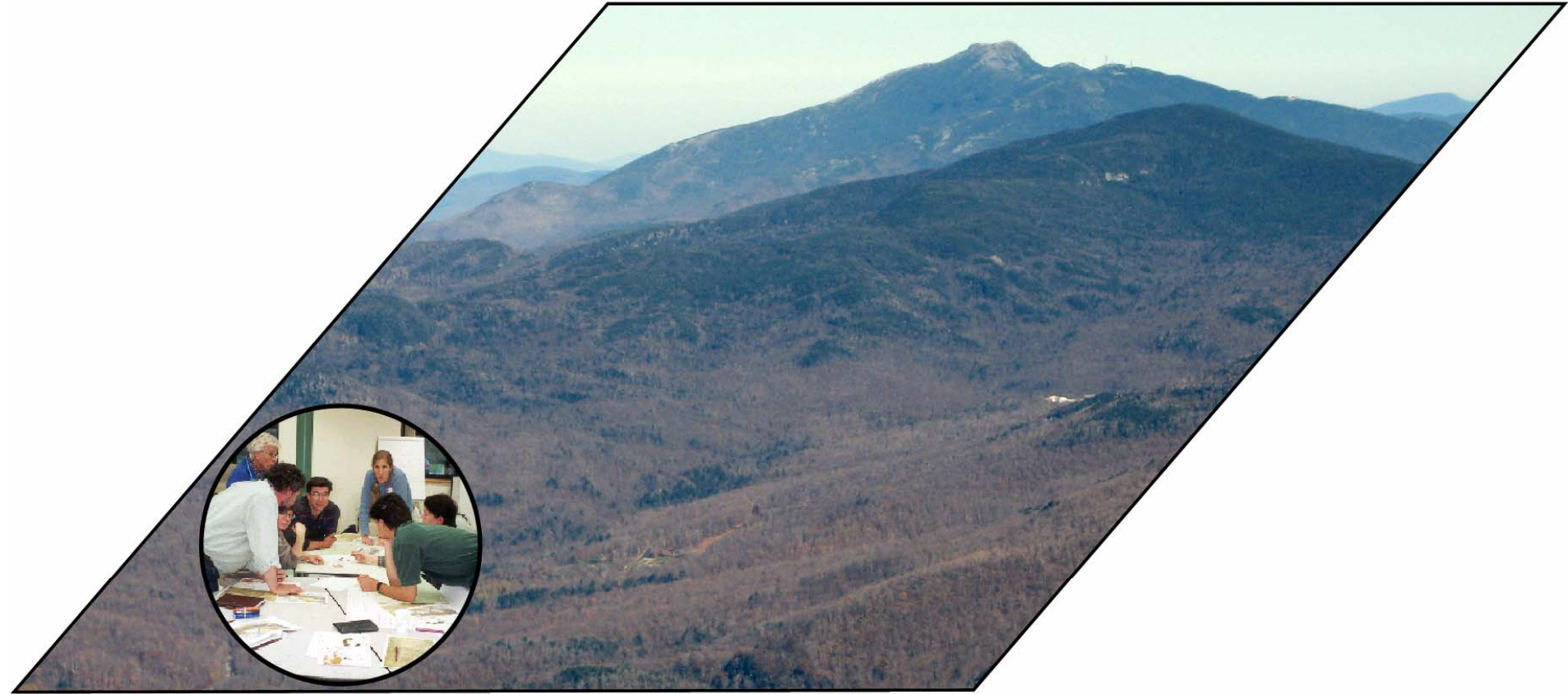
1. Getting started
2. Assessing the broader context
  - a) Ecological
  - b) Protection and conservation
  - c) Economic and socio-cultural
  - d) Policy and sectoral
  - e) Putting it all together
3. Developing strategies and actions
4. Implementing strategies
5. Monitoring and adapting



# RELATIONSHIP WITH OTHER PROCESSES



# STEP 1: GETTING STARTED



# Forming a core group



- FONAFIFO: Fondo nacional de financiamiento forestal
- COBODES: Proyecto de Conservación del Bosque y Desarrollo Sostenible
- SINAC: Sistema Nacional de Áreas de Conservación
- INBio: Instituto Nacional de la biodiversidad
- The Nature Conservancy (TNC)
- Conservation International
- CATIE: Central Agronómico Tropical de Investigación y Enseñanza
- SGP: Programa de Pequeñas Donaciones
- Minaet: Ministerio del Ambiente, Energía y Telecomunicaciones

# Core skills and knowledge needed:



- Land use planning
- Natural resource issues
- Conservation tools and methods
- Biological trends and patterns
- Economic and business trends
- Political dynamics
- Social and cultural aspects
- Strategic planning
- Communication



## Clarifying the mission:

- Summarizes what the initiative is about
- Describes the purpose of the initiative
- Describes the scope and scale of the initiative



# Clarifying the mission:

“Our goal is to maintain and sustain this region in a way that allows wilderness, wildlife, native plants, and natural processes to function as an interconnected web of life. This is as much for the benefit of future generations as it is for the land, the wildlife, and the people currently living in the region.”

Yellowstone to Yukon  
Conservation Initiative,  
2008.

# Developing a work plan



- Identify and prioritize the many tasks
- Identify who will be responsible for which tasks
- Set timelines and indicators
- Identify costs and budget sources
- Identify how decisions will be made

# DETERMINING THE SCALE

- Chittenden County Project -- 500 km<sup>2</sup>
- Terai Arc Ecoregion Project -- 12,500 km<sup>2</sup>
- Valdivian Corridor -- 46,000 km<sup>2</sup>
- Lithuanian Network -- 65,000 km<sup>2</sup>
- Mesoamerican Corridor -- 208,000 km<sup>2</sup>
- Yellowstone to Yukon -- 1,200,000 km<sup>2</sup>
- Coral Triangle Initiative -- 5,200,000 km<sup>2</sup>



# Forming effective partnerships - Elements of success



- A charismatic, visionary leader
- One or more government champions
- Clear vision and mission
- Local community support
- Agreement on work plan
- Early engagement of stakeholders
- Cohesive, integrated strategies
- Written MOU



# Forming effective partnerships - a memorandum of understanding



- Statement of purpose
- List of parties
- Main activities
- Timeline and termination
- Copyright and ownership
- Use of logo and name
- Dispute resolution
- Work plan



# Challenges

- Creating innovative partnerships
- Deciding how to decide
- Balancing partnerships, roles and responsibilities
- Inter-agency disagreements

# Enabling conditions

- Fostering a culture of civic participation
- Securing strong government commitment
- Demonstrated agency leadership

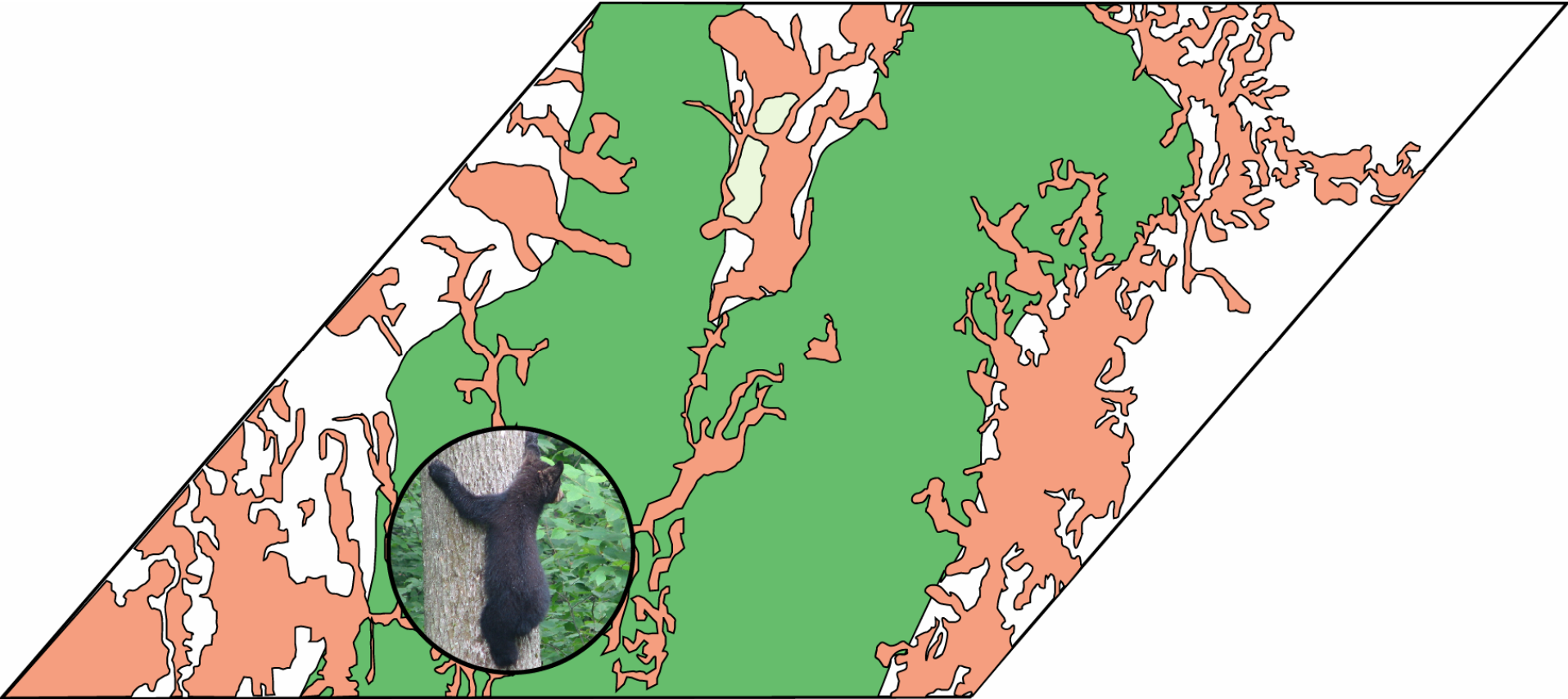


# 1. GETTING STARTED - Questions?

- Forming a core group
- Basic skills
- Mission statement
- Work plan and scale
- MoU/partners

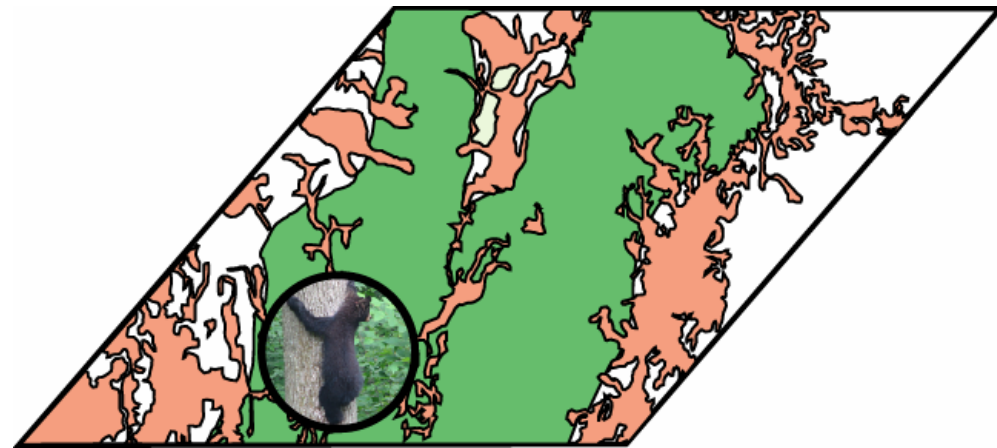


# STEP 2A: ASSESSING THE ECOLOGICAL CONTEXT



# STEP 2A: ASSESSING THE ECOLOGICAL CONTEXT

- Identify focal conservation targets
- Identify connectivity goals
- Assess viability, threats, connectivity
- Optimize network
- Identify barriers



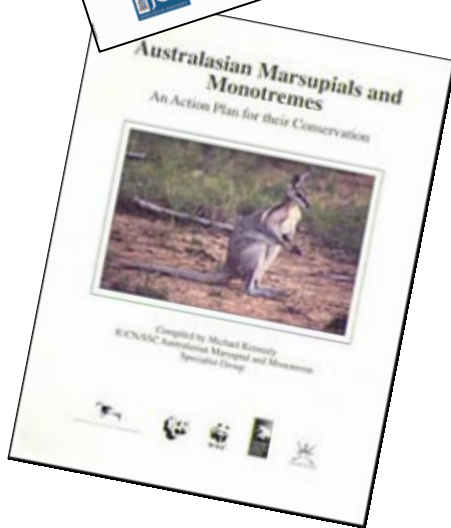
# 3 Examples of Approaches



Landscape species approach

Key biodiversity area approach

Vulnerable species approach



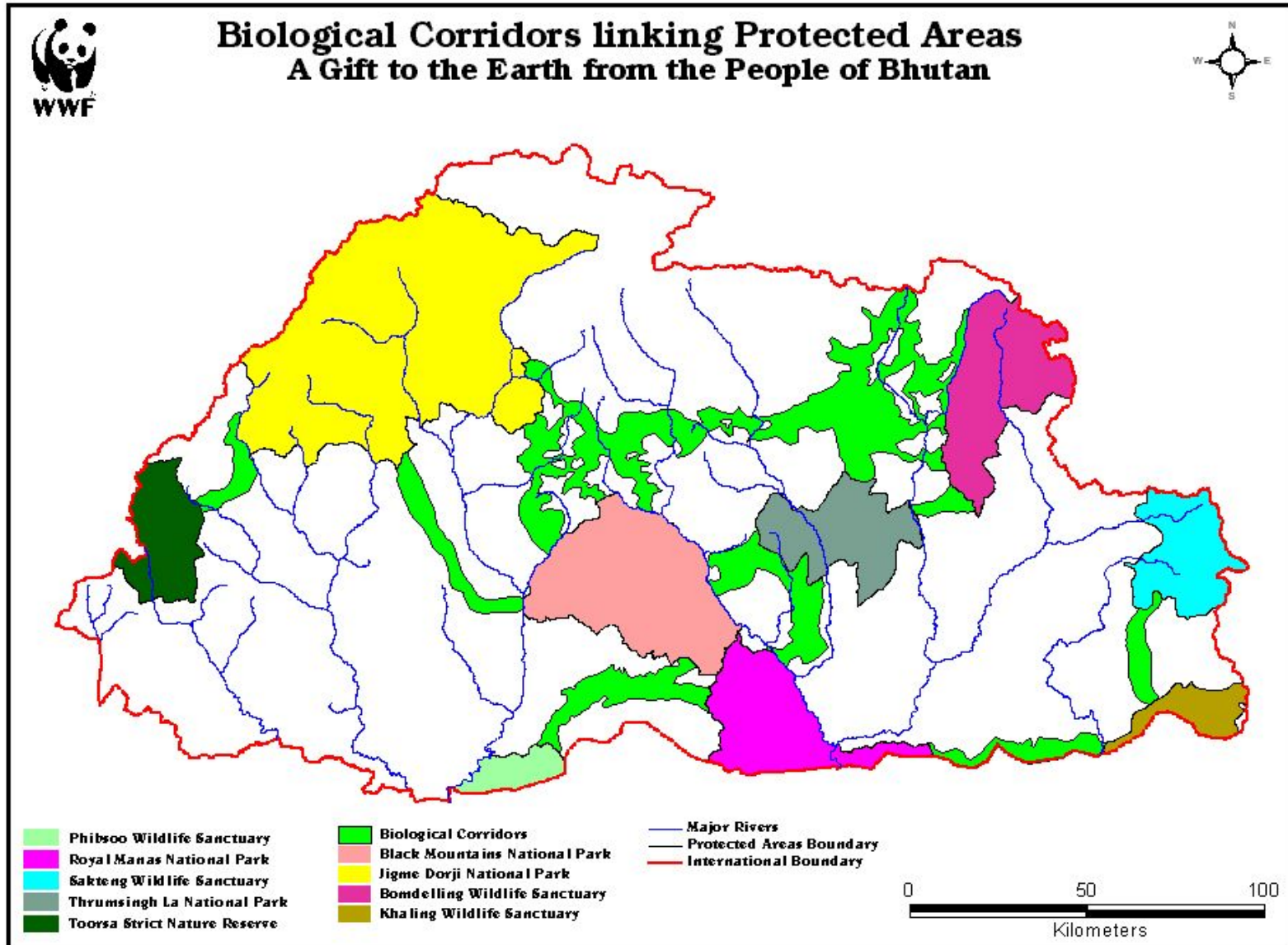
# Migratory paths: from Khram Island



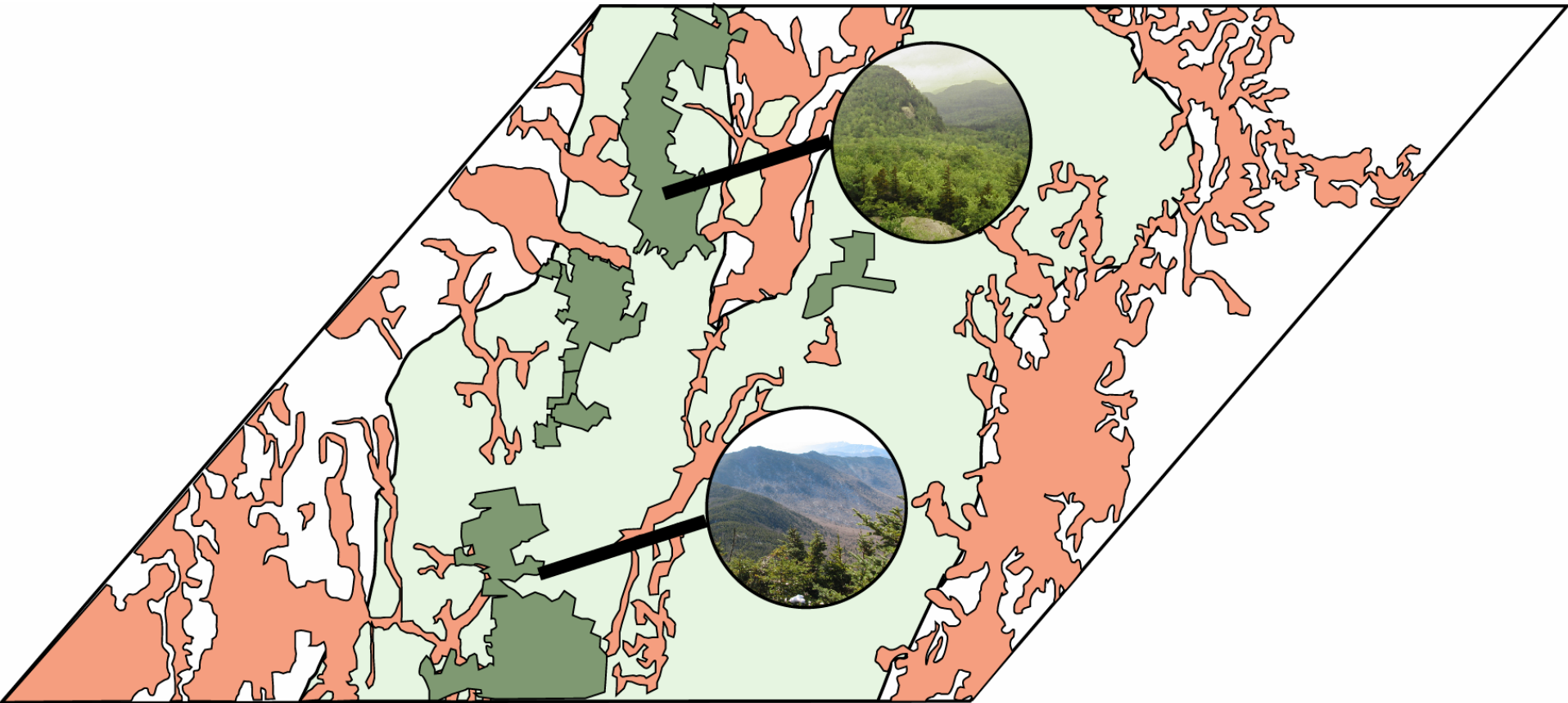
# Identifying priorities and optimal networks



# Creating corridors



# STEP 2B: ASSESSING THE PROTECTION AND CONSERVATION STATUS

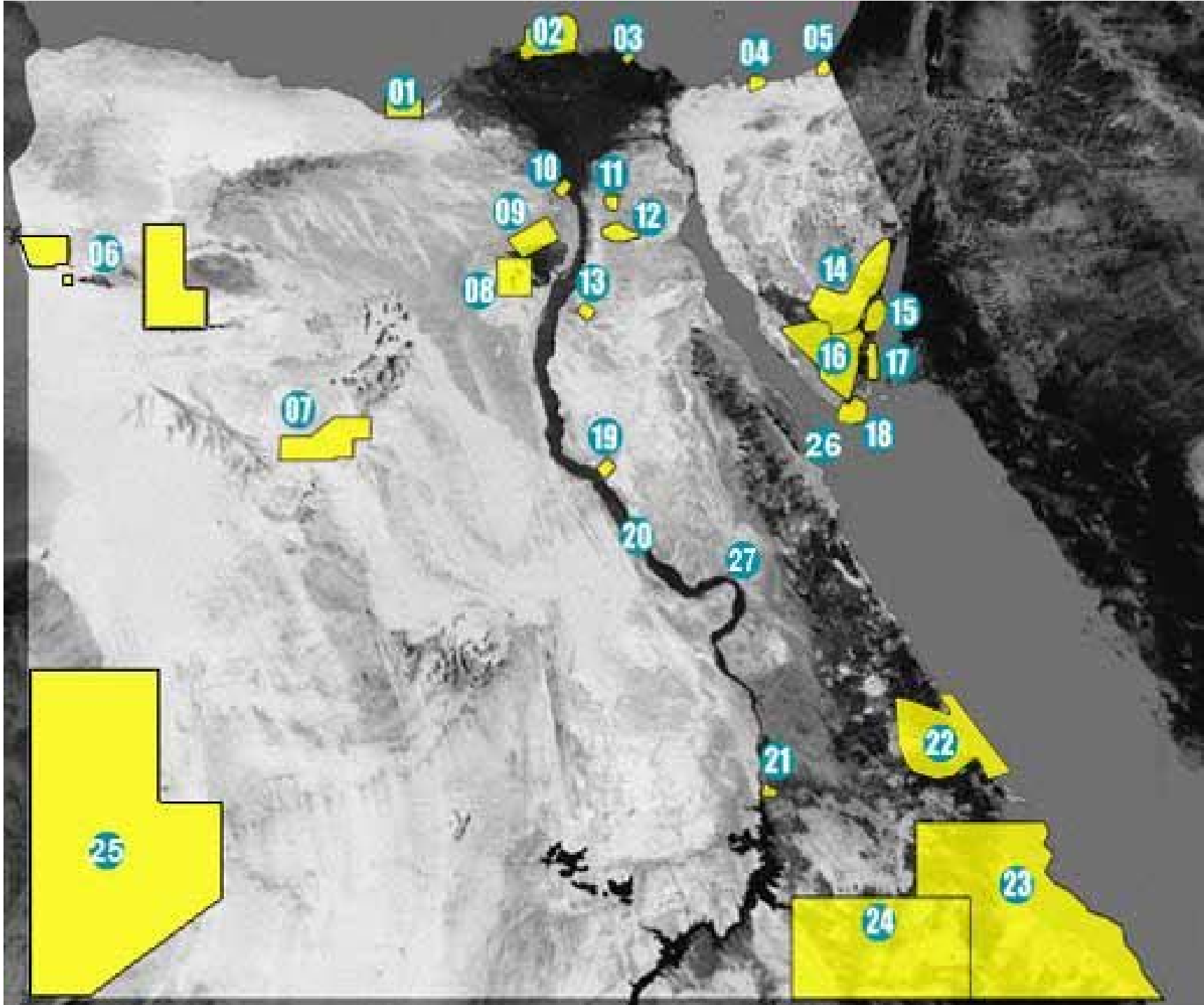


# STEP 2B: ASSESSING PROTECTION AND CONSERVATION STATUS

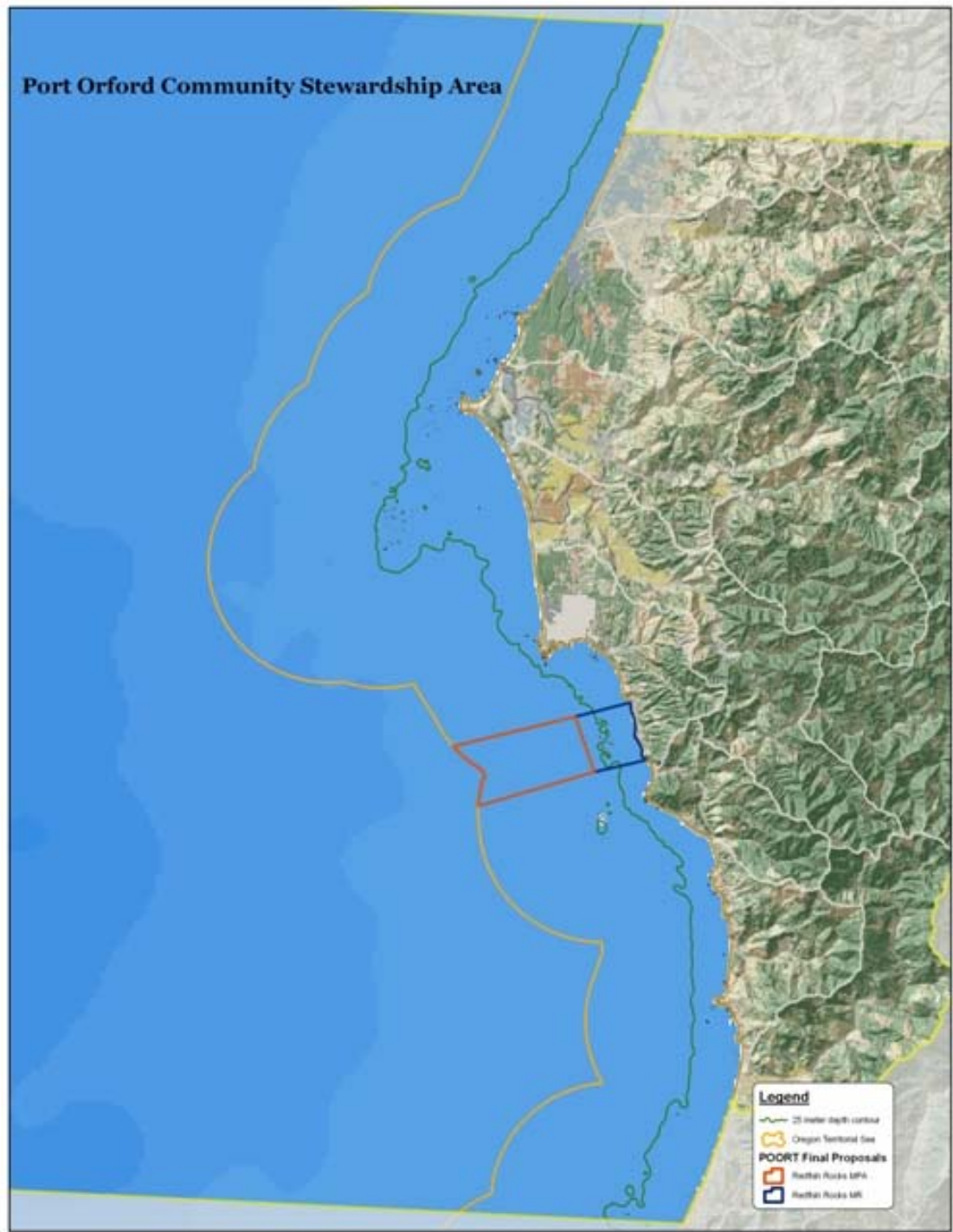


- Assess coverage, status and effectiveness of protected areas
- Assess other conserved areas
- Identify protection gaps, constraints and opportunities





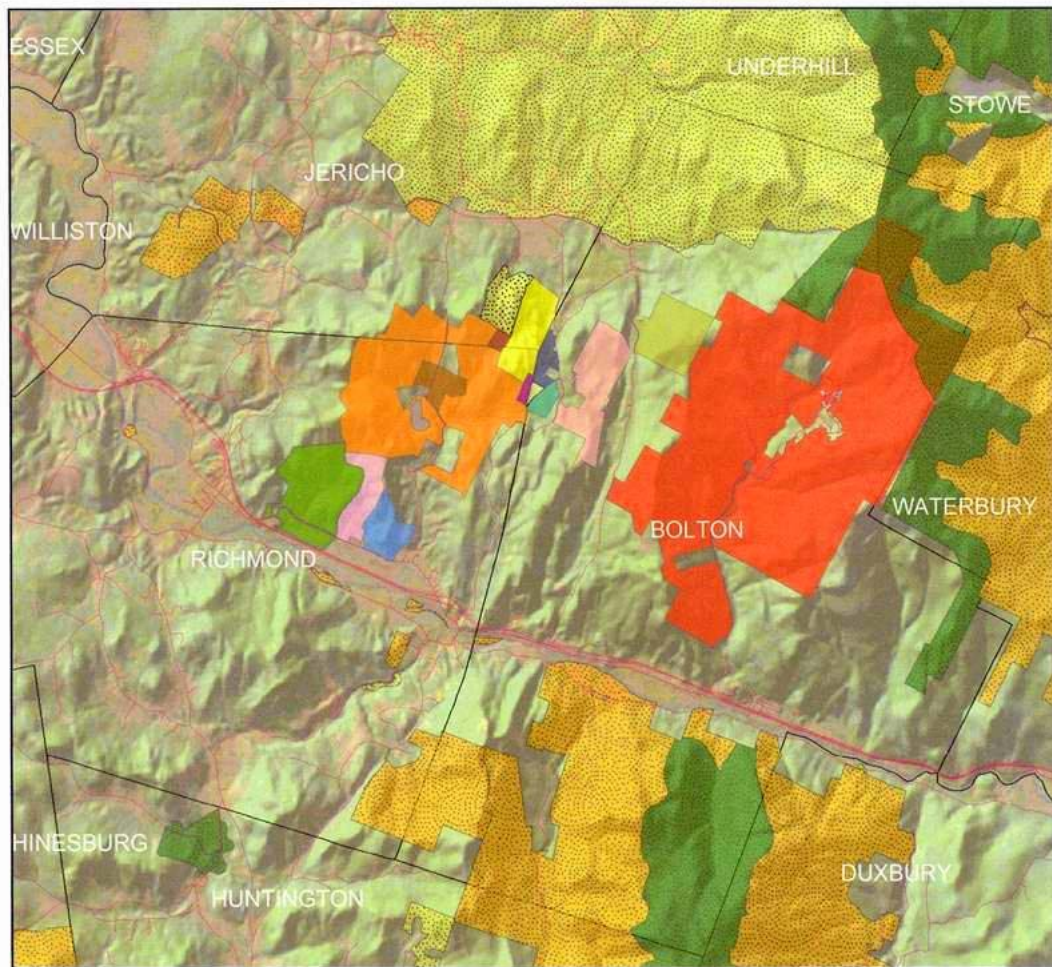
# Port Orford Community Stewardship Area



**Legend**

- 25 meter depth contour
- Oregon Territorial Sea
- POORT Final Proposals**
- Reddish Rocks LPA
- Reddish Rocks ML

# A matrix of different protected areas



Private easements

Town forests

Recreation lands

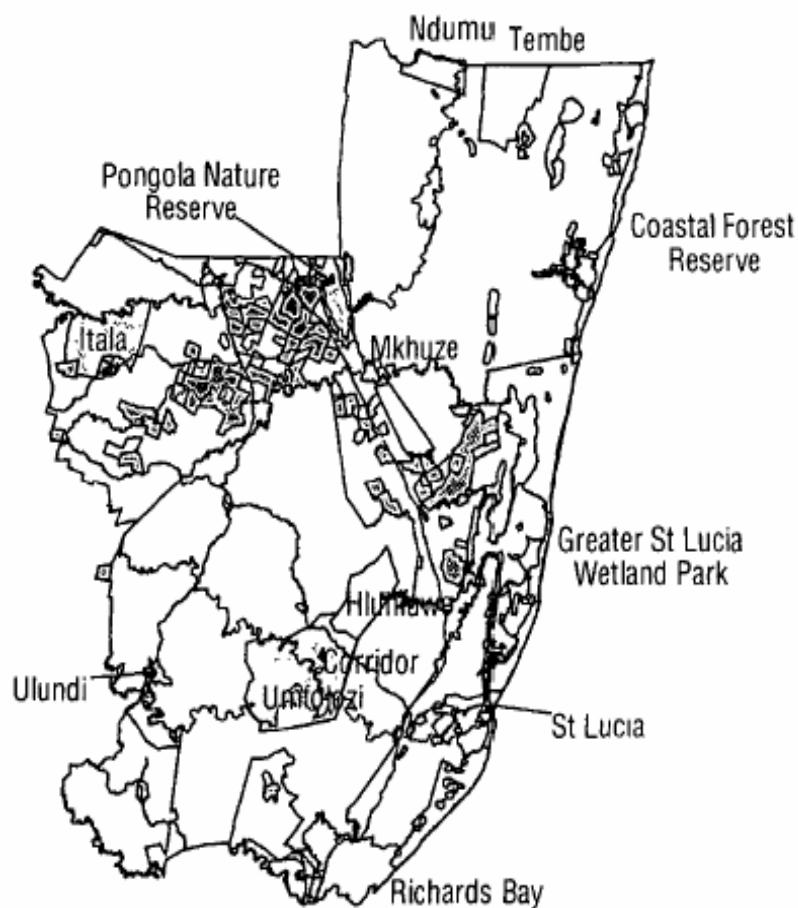
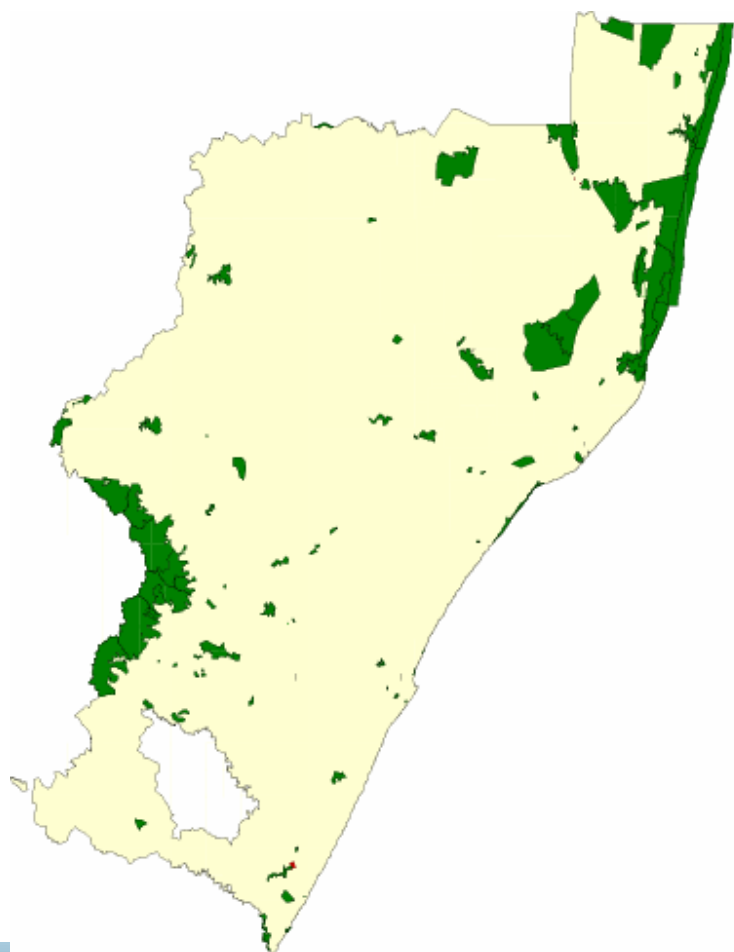
Military reserves

Private hunting  
reserves

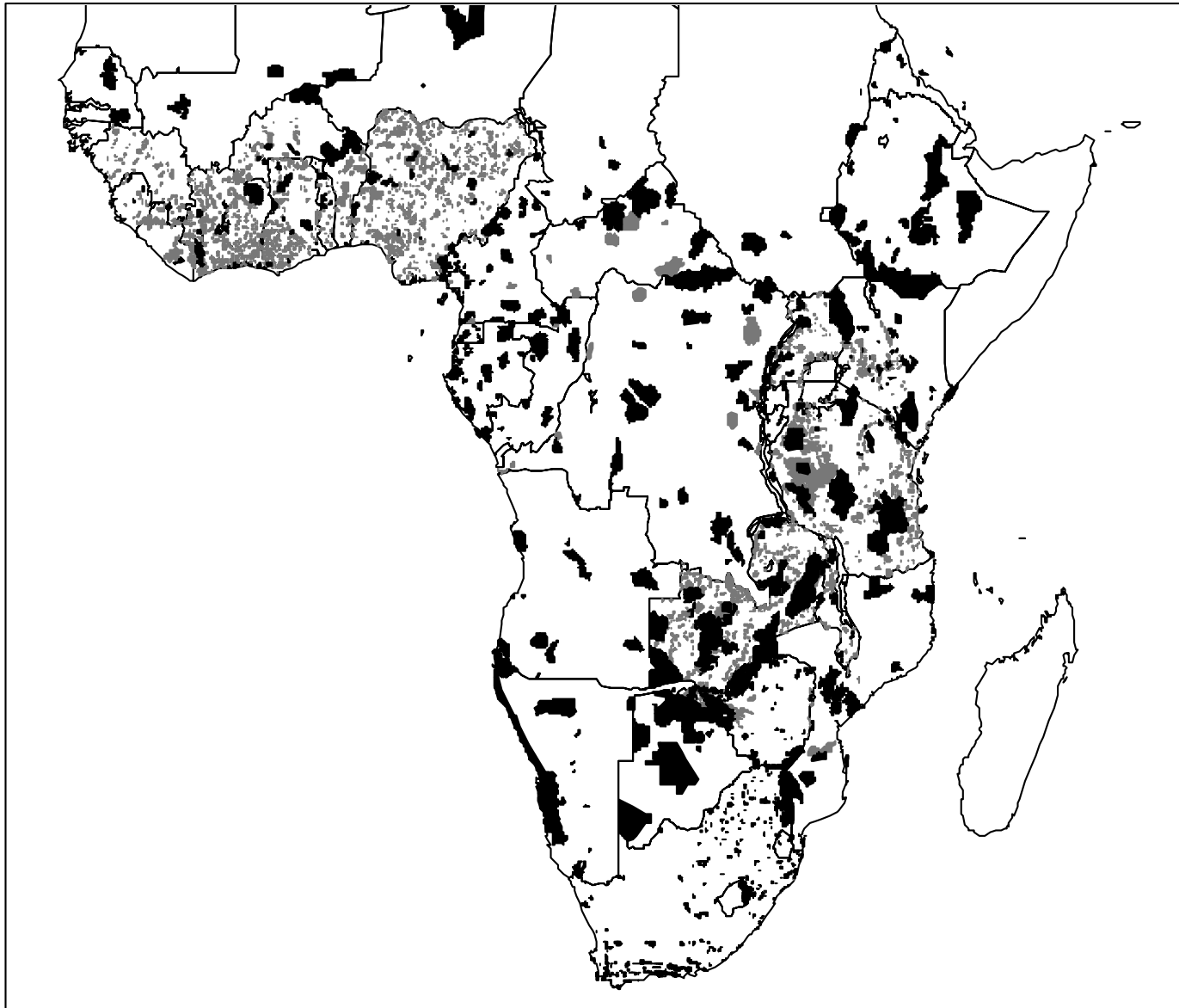
Wildlife  
management areas



# Protected areas and other conserved areas



# Protected areas and forest reserves



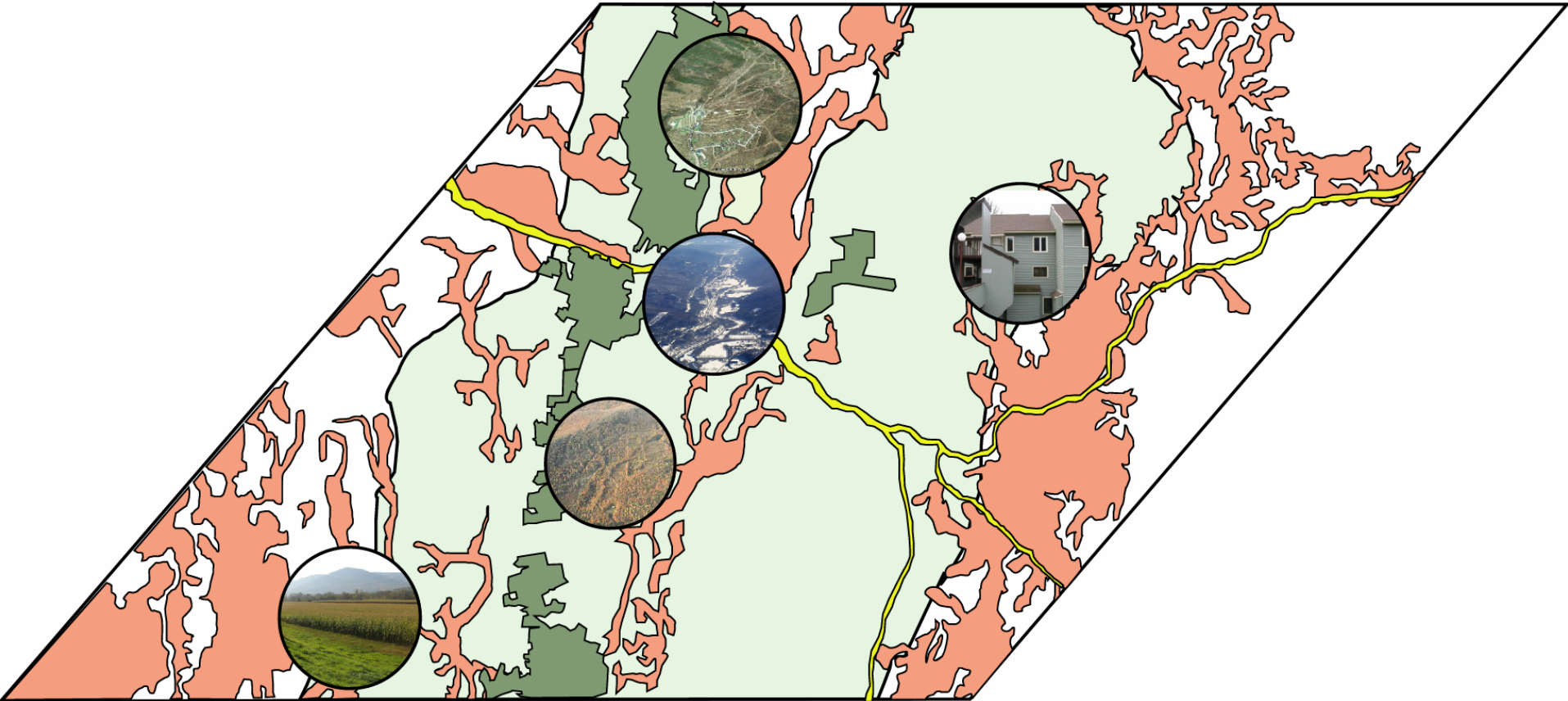
# Assessing protected area management effectiveness



- How well are key connectivity areas managed?
- How ecologically intact are key connectivity areas?
- Are biodiversity corridors functioning?



# STEP 2C: ASSESSING THE ECONOMIC AND SOCIO-CULTURAL CONTEXT



# Assess economic and socio-cultural context



Population patterns and trends

Cultural values, norms

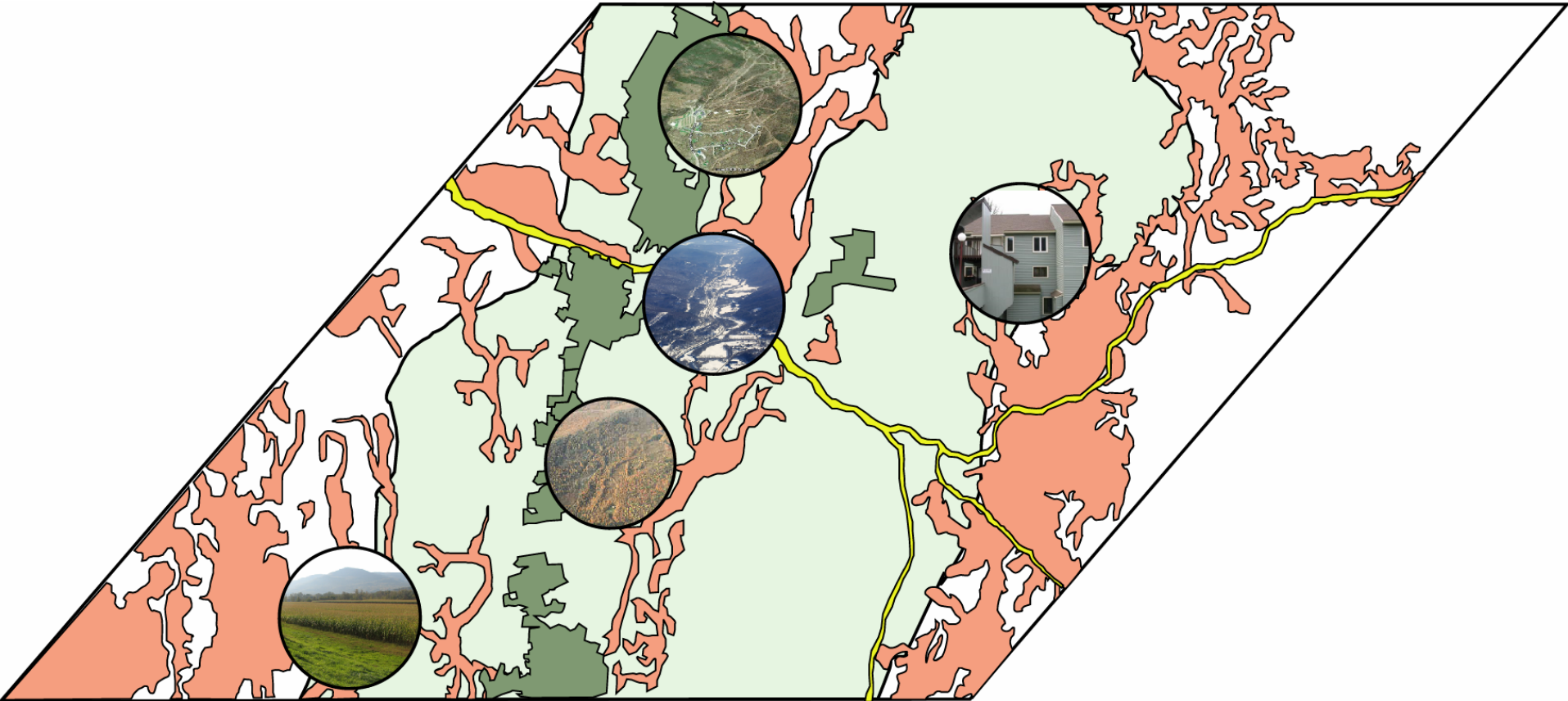
Market constraints and opportunities

# Assess economic and socio-cultural context



- Who are the main players in each industry?
- What are the future plans for resource use?
- How will land and resource prices affect opportunities?
- What are the main land tenure patterns?
- Which areas provide key ecosystem services?
- What is the size and distribution of the population? How is this likely to change?
- What are the main livelihood sources?
- What are community attitudes toward conservation?

# STEP 2D: ASSESSING NATURAL RESOURCE SECTORS AND POLICIES



# Assess natural resource sectors, policies



Land use planning

Agriculture

Waste management

Transportation

Grazing

Invasive species policies

Energy

Forestry

Legal environment

Tourism

Agroforestry

Climate change policies

Wildlife policies

Fisheries

Intersectoral coordination

# Assessing the policy environment in The Bahamas – tourism and protected areas

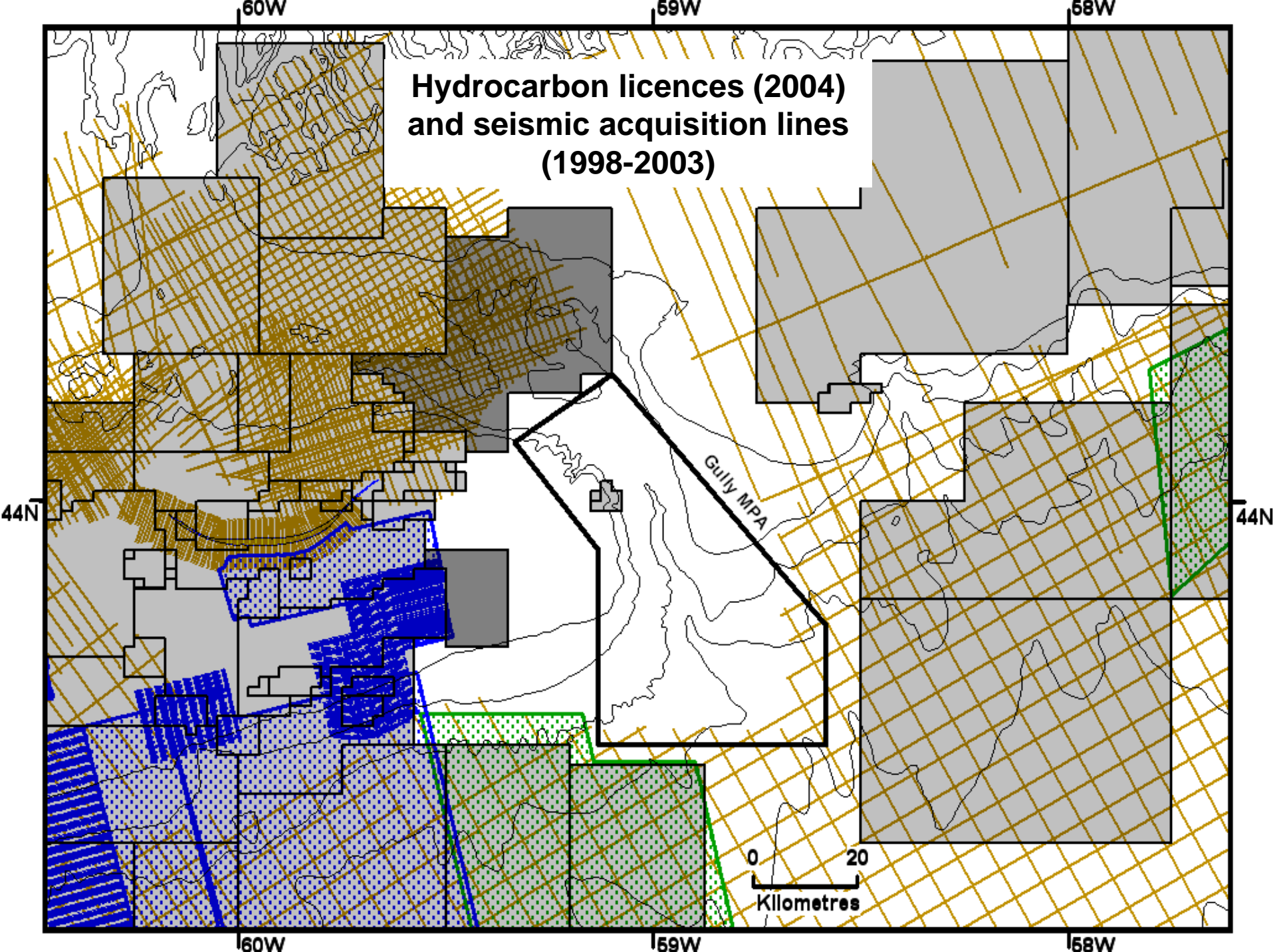




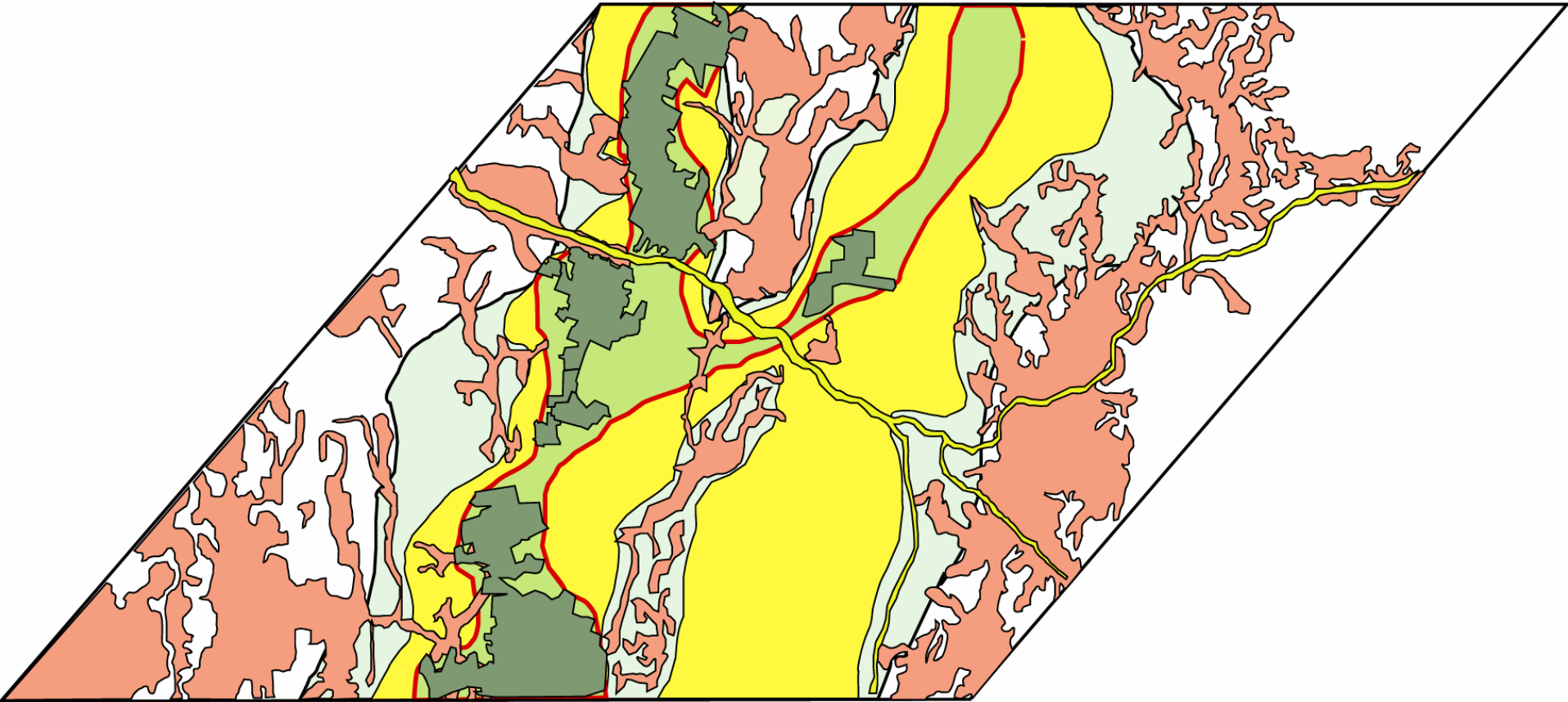
## **The Gully MPA**

**Largest submarine canyon in eastern North America**

**Hydrocarbon licences (2004)  
and seismic acquisition lines  
(1998-2003)**

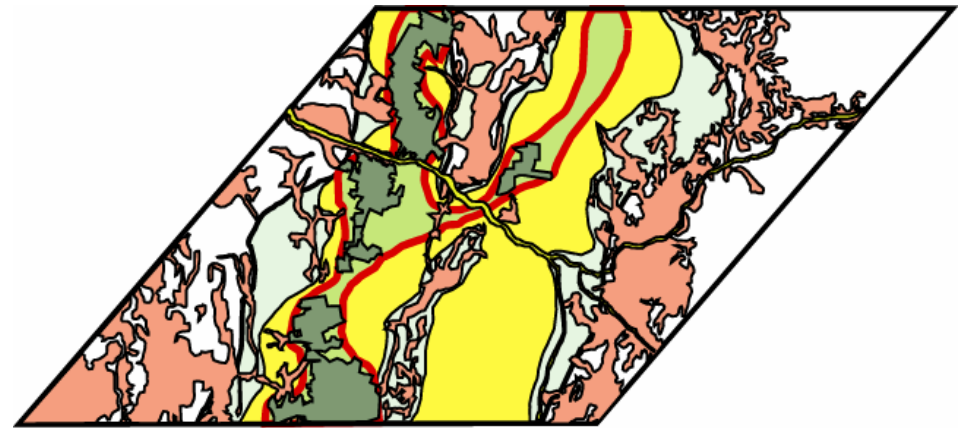


# STEP 2E: PUTTING IT ALL TOGETHER

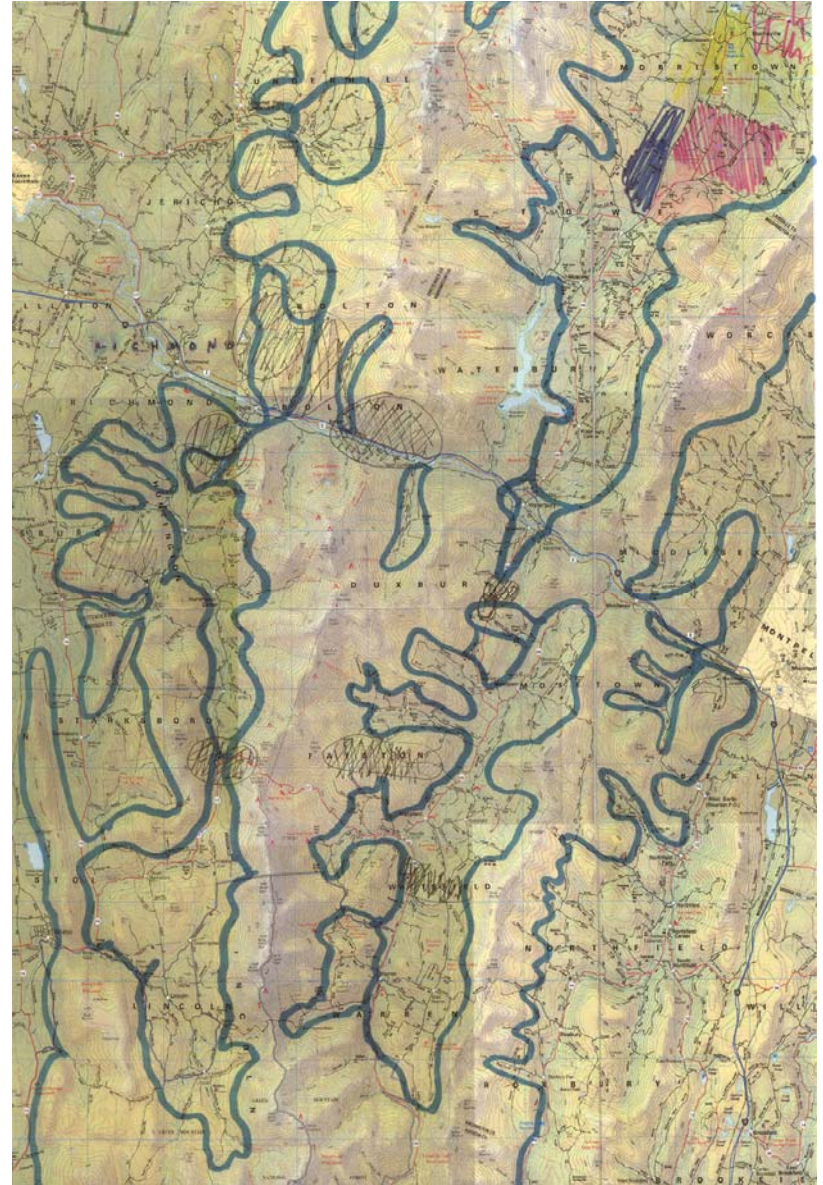


# STEP 2E: PUTTING IT ALL TOGETHER

- Identify where connectivity gaps align with opportunities and constraints
- Identify where policies align with opportunities and constraints
- Design the network



# STEP 2E: PUTTING IT ALL TOGETHER



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**COSTA RICA**

**MINISTERIO DEL AMBIENTE Y ENERGÍA  
SISTEMA NACIONAL DE ÁREAS  
DE CONSERVACIÓN  
PROGRAMA NACIONAL  
CORREDOR BIOLÓGICO**



**MAPA DE GEOGRAFÍAS  
CANJE DEUDA  
CR - EUA Y  
CONECTIVIDAD**

- UBICACIÓN DE GEOGRAFÍAS
- ÁREAS SILVESTRES PROTEGIDAS
- CONECTIVIDAD GEOGRAFÍA DE TALAMANCA Y GEOGRAFÍA OSA
- PARTE DE GEOGRAFÍA TALAMANCA (CORRECCION DE DIBUJO)
- AMPLIACIÓN DE GEOGRAFÍA TALAMANCA
- CORREDORES BIOLÓGICOS

- 1 ACUIFEROS (ACTo)
- 2 COLORADO-TORTUGUERO (ACTo)
- 3 CHOROTEGA (ACT)
- 4 OSA (ACOSA)
- 5 PASO DE LA DANTA (ACOSA) (ACLA-P) (ACOPAC)
- 6 AGUIRRE (ACOPAC)
- 7 PIRRIS (ACOPAC)
- 8 SANTOS (ACOPAC)
- 9 PLAYA HERMOSA (ACOPAC)
- 10 PAJARO CAMPANA (ACOPAC) (ACA-T)
- 11 ESCAZÚ-LAPAS (ACOPAC)
- 12 OSREO (ACOPAC)
- 13 FUENTES DE VIDA (ACLA-P)
- 14 FILA LANGUSIANA (ACLA-P)
- 15 RIO CAÑAS (ACLA-P)
- 16 ALEXANDER SKUTCH (ACLA-P)
- 17 EL QUETZAL-TRES COLINAS (ACLA-P)
- 18 MOIN-TORTUGUERO (ACLA-C)
- 19 TALAMANCA-CARIBE (ACLA-C)
- 20 VOLCANICA CENTRAL - TALAMANCA (ACCVC) (ACLA-C)
- 21 CORDILLERA A CORDILLERA (ACLA-C)
- 22 MOROCOCHAS (ACG)
- 23 COBRI SURAC (ACCVC)
- 24 PASO DE LAS NUBES (ACCVC) (ACA-HN)
- 25 MONTES DEL AGUACATE (ACCVC)
- 26 FILA ZAPOTAL (ACA-T)
- 27 ARENAL-TENORIO (ACA-T)
- 28 MIRAVALLS-SANTA ROSA (ACA-T)
- 29 MIRAVALLS-RINCÓN DE LA VIEJA (ACA-T)
- 30 RINCON - BARBU DAL (ACA-T)
- 31 TENORIO - MIRAVALLS (ACA-T)
- 32 FILA NAMBIRAL (ACA-T)
- 33 LAS CAMELIAS (ACA-HN)
- 34 RUTA LOS MALEKUS-MEDIO QUESO (ACA-HN) (ACA-T)
- 35 SAN JUAN LA SELVA (ACA-HN) (ACCVC)

ACG - Área de Conservación Guacacaste  
 ACT - Área de Conservación Tempisque  
 ACT-T - Área de Conservación Arenal-Tempisque  
 ACA-HN - Área de Conservación Arenal-Huasteca Norte  
 ACCVC - Área de Conservación Volcánica Central  
 ACCVC - Área de Conservación Cordillera Volcánica Central  
 ACTo - Área de Conservación Tortuguero  
 ACLA-C - Área de Conservación La Amistad-Caribe  
 ACLA-P - Área de Conservación La Amistad-Pacífico  
 ACOSA - Área de Conservación Osa

PN - Parques Nacionales  
 RB - Reservas Biológicas  
 RNA - Reservas Naturales Absolutas  
 RF - Reservas Forestales  
 RVS - Refugio Nacional de Vida Silvestre  
 ZP - Zonas Protectoras  
 HN - Humedales  
 MN - Monumento Nacional



OCEANO PACIFICO

NICARAGUA

MAR CARIBE

PANAMÁ



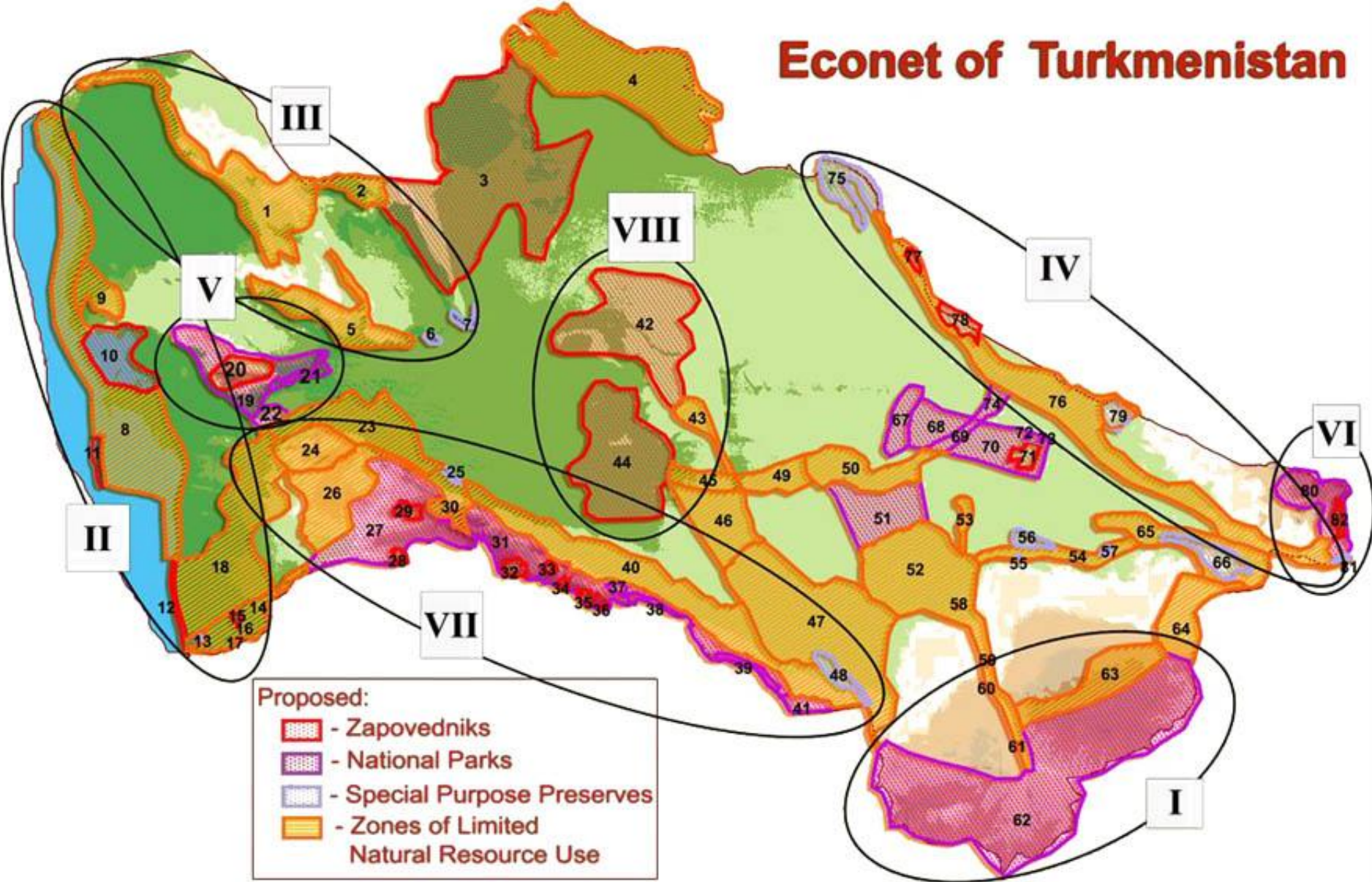
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Proyección:  
 Costa Rica Transversal de Mercator (CRTM 05)  
 Fuente: Mapa de Corredores Biológicos 2003 y Áreas de Conservación  
 Elaborado: Roberto Mora Palacios  
 AGOSTO 2008  
 Escala 1:1.733.984.000



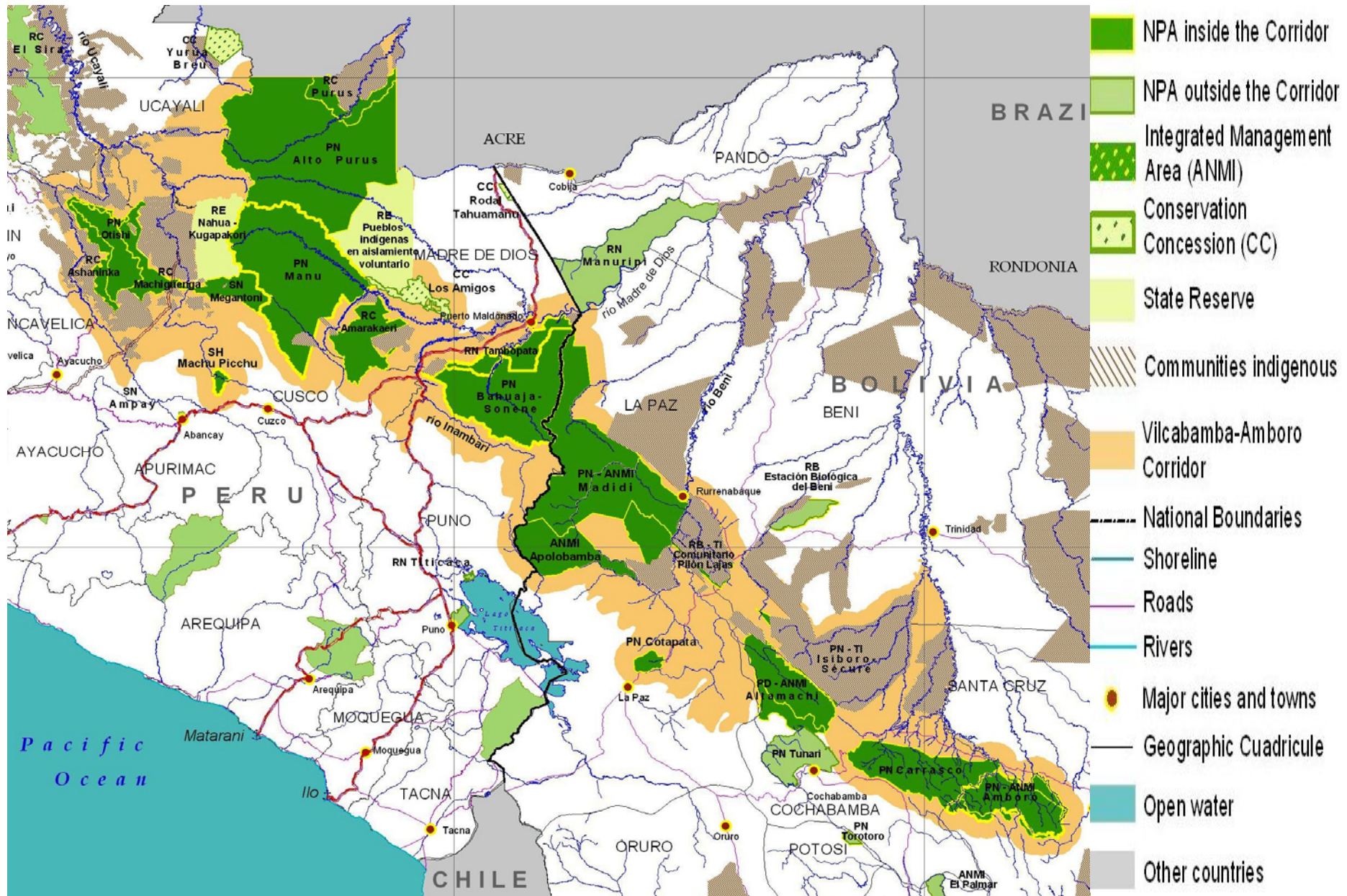
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# Econet of Turkmenistan



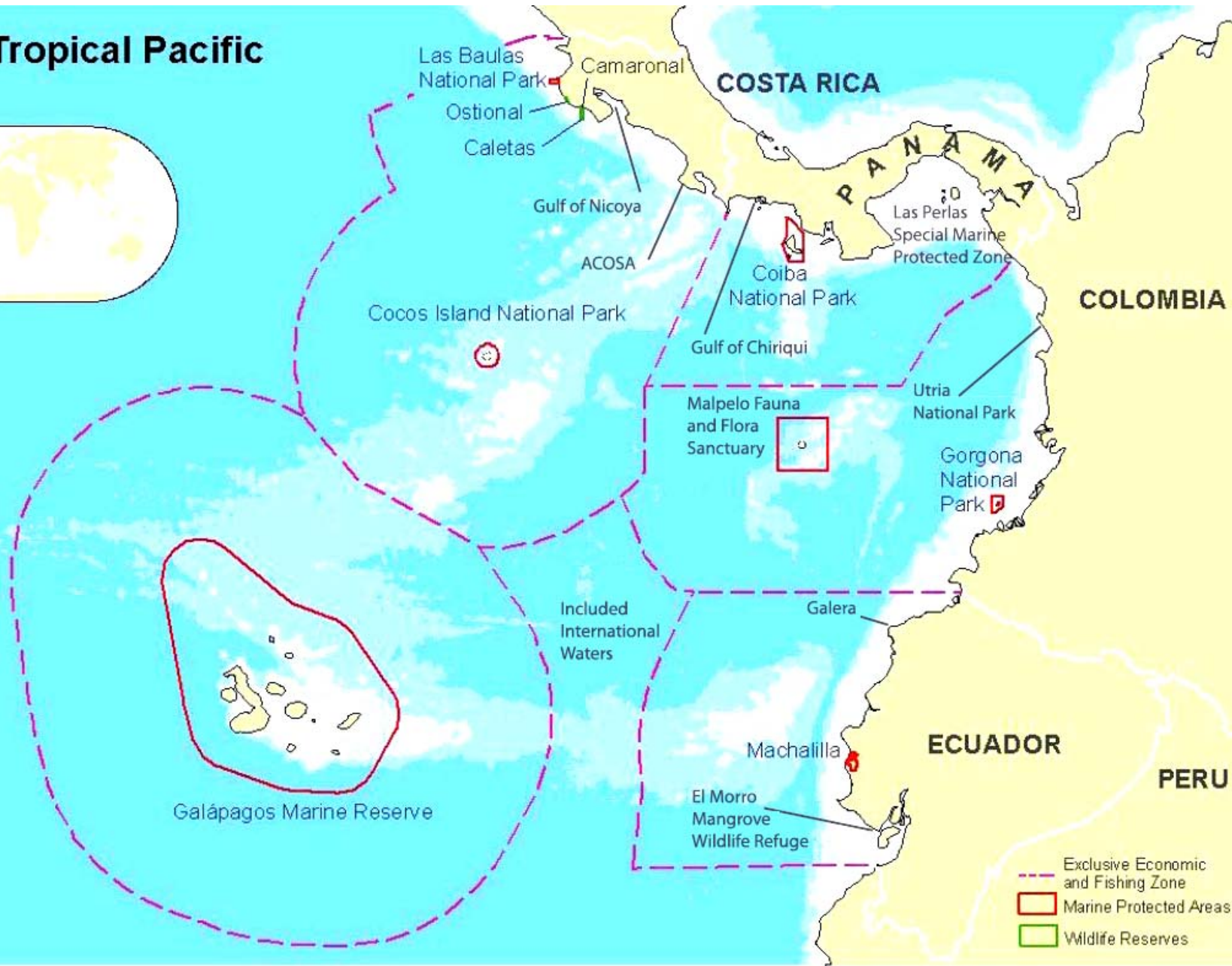
- Proposed:
-  - Zapovedniks
  -  - National Parks
  -  - Special Purpose Preserves
  -  - Zones of Limited Natural Resource Use

# Vilcabamba Amboro Conservation Corridor



# Eastern Tropical Pacific Seascape

## Eastern Tropical Pacific Seascape



# Challenges

- Securing sufficient data
- Limiting the number of biodiversity features
- Setting goals, assessing viability
- Difficulty on agreeing upon scenarios

# Enabling conditions

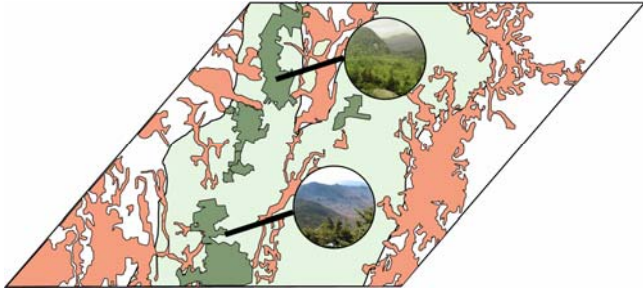
- Solid GIS capacity
- Expertise in optimization software
- Diversity of participants



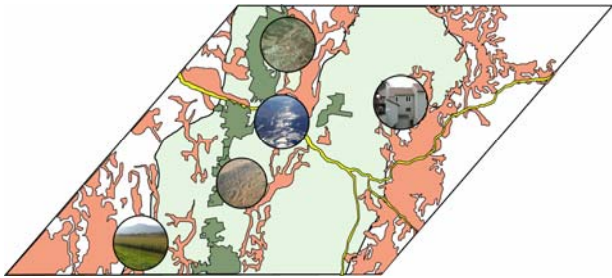
# STEP 2: ASSESSING CONTEXT - Questions?



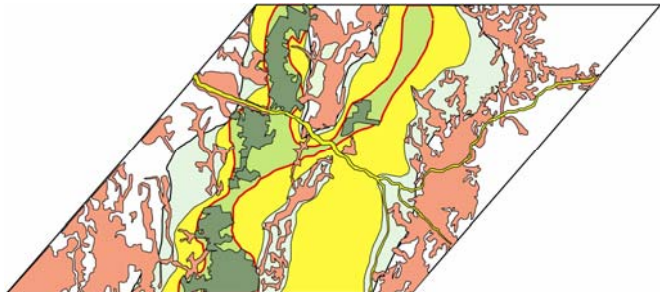
- Assessing ecological context



- Assessing protection & conservation context



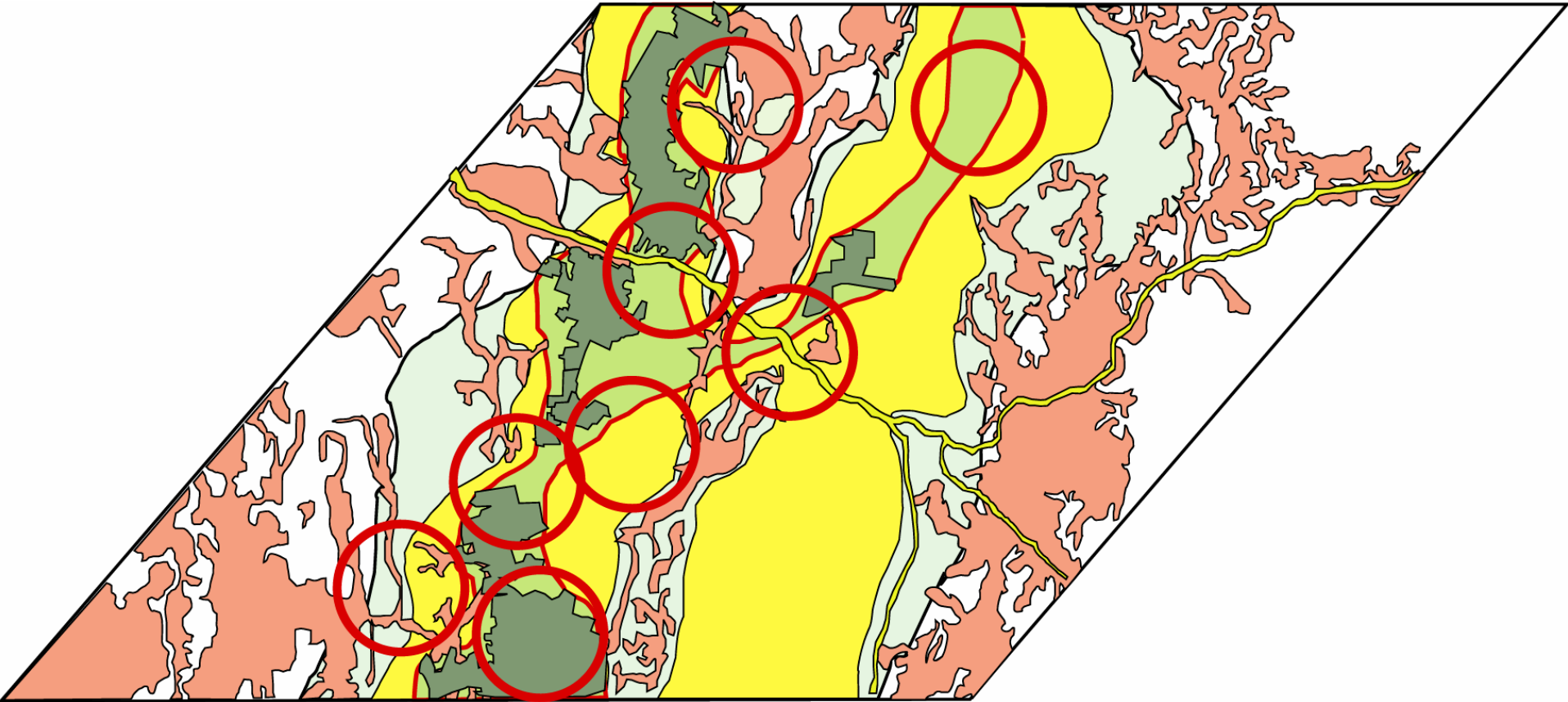
- Assessing socio-cultural context



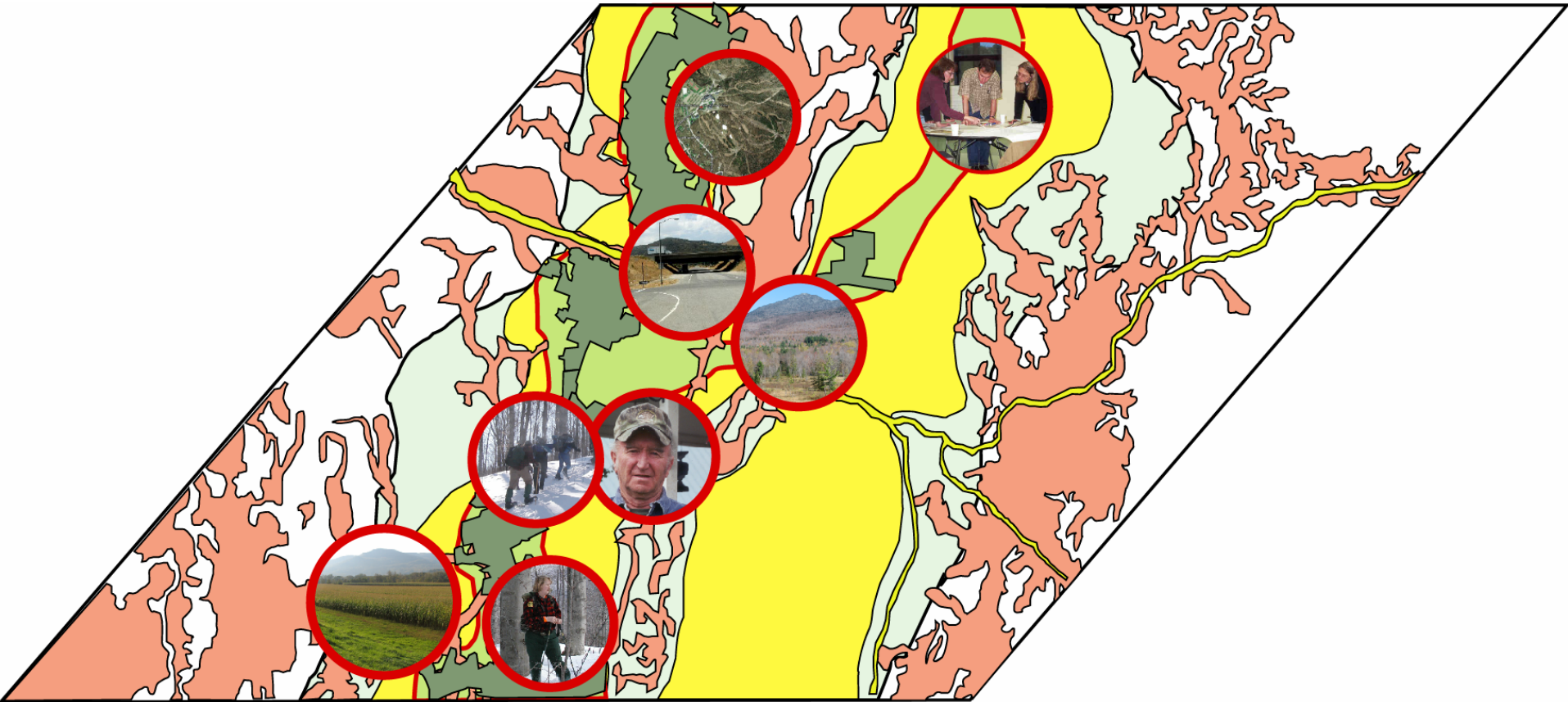
- Assessing political context

- Putting it all together

# STEP 3: DEVELOPING, PRIORITIZING AND IMPLEMENTING STRATEGIES

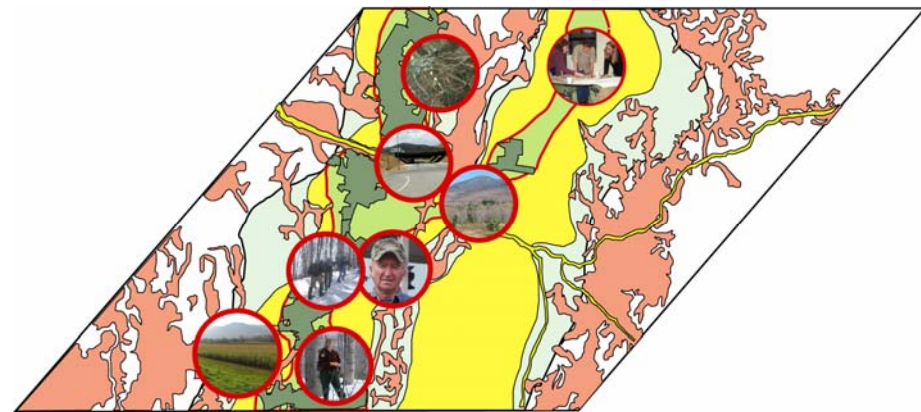


# STEP 3: IMPLEMENTING STRATEGIES



# STEP 3: DEVELOPING PRIORITIZING AND IMPLEMENTING STRATEGIES

- Protection status
- Management practices
- Laws and policies
- Incentives and markets
- Sectoral practices
- Enabling environment
- Physical environment

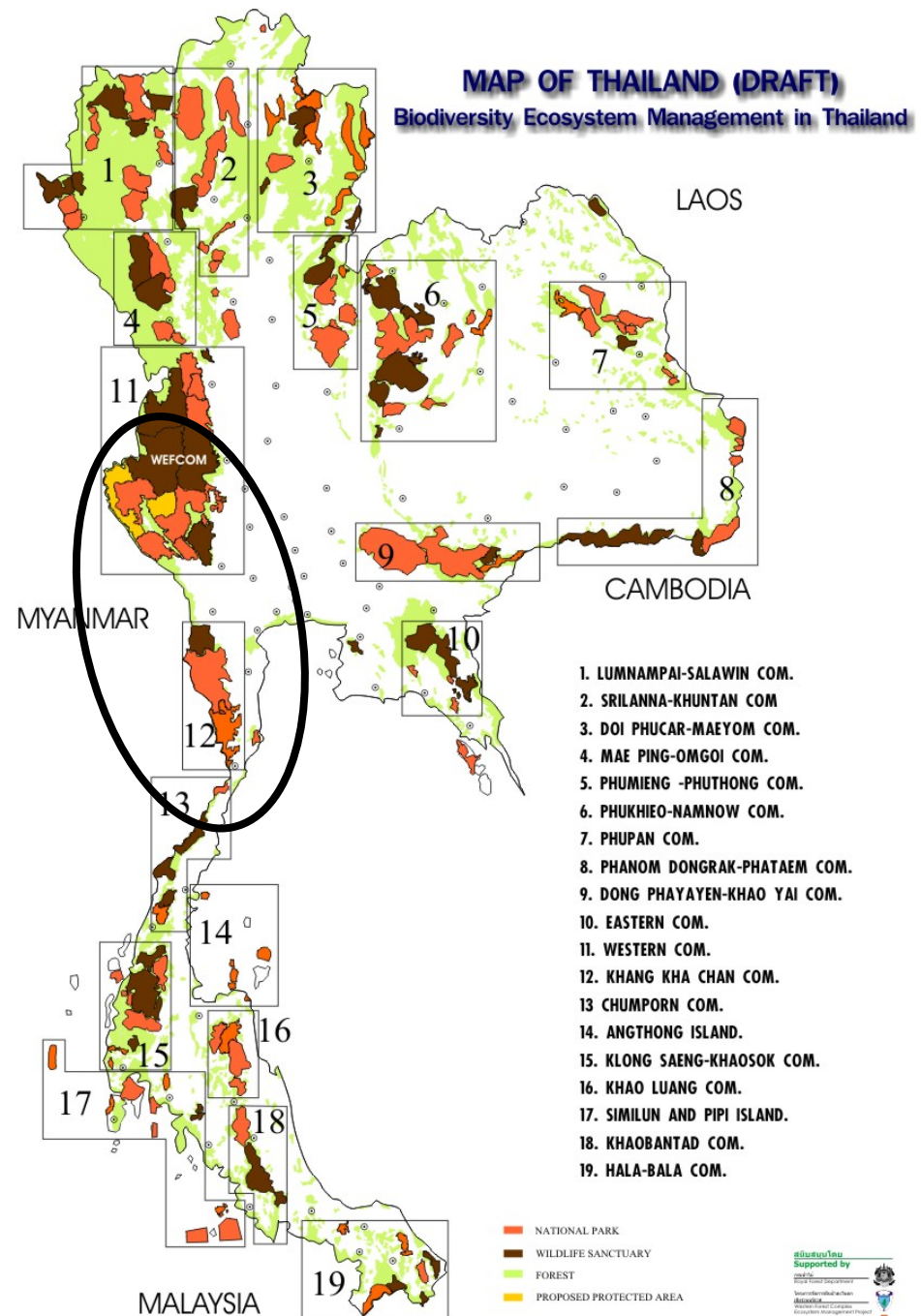


# Screening and prioritizing strategies

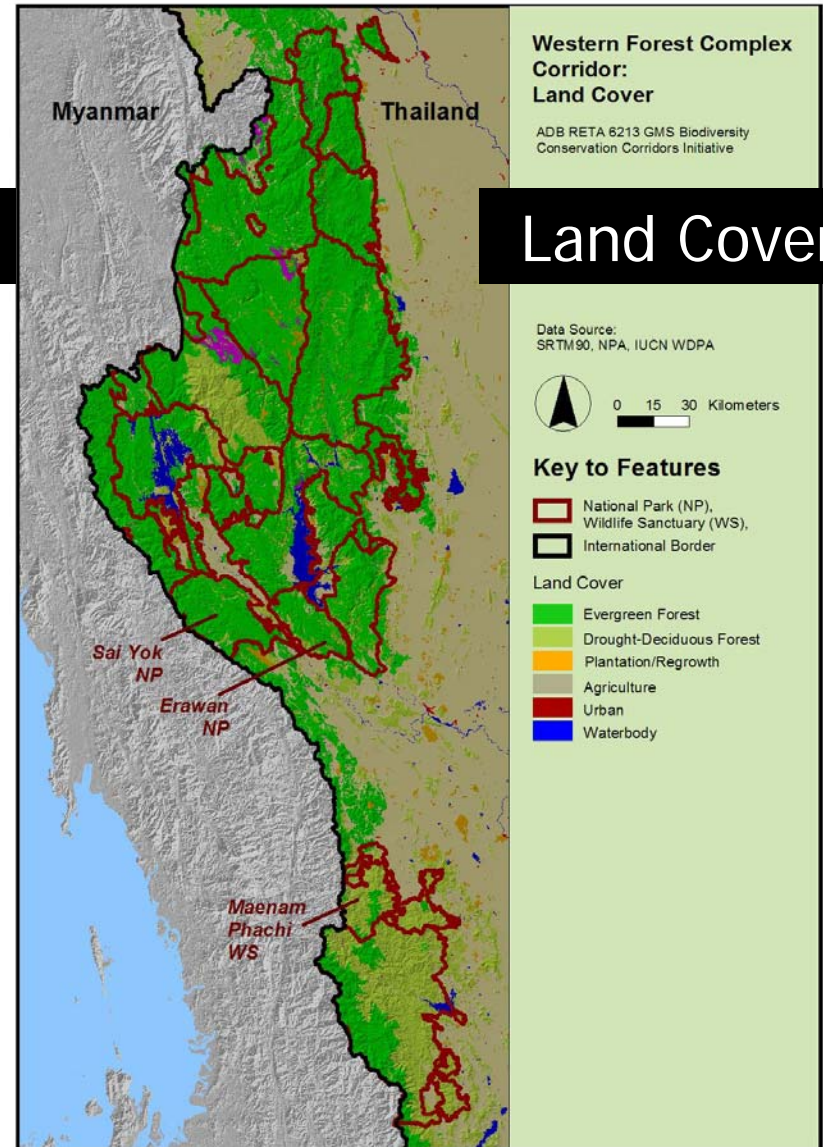
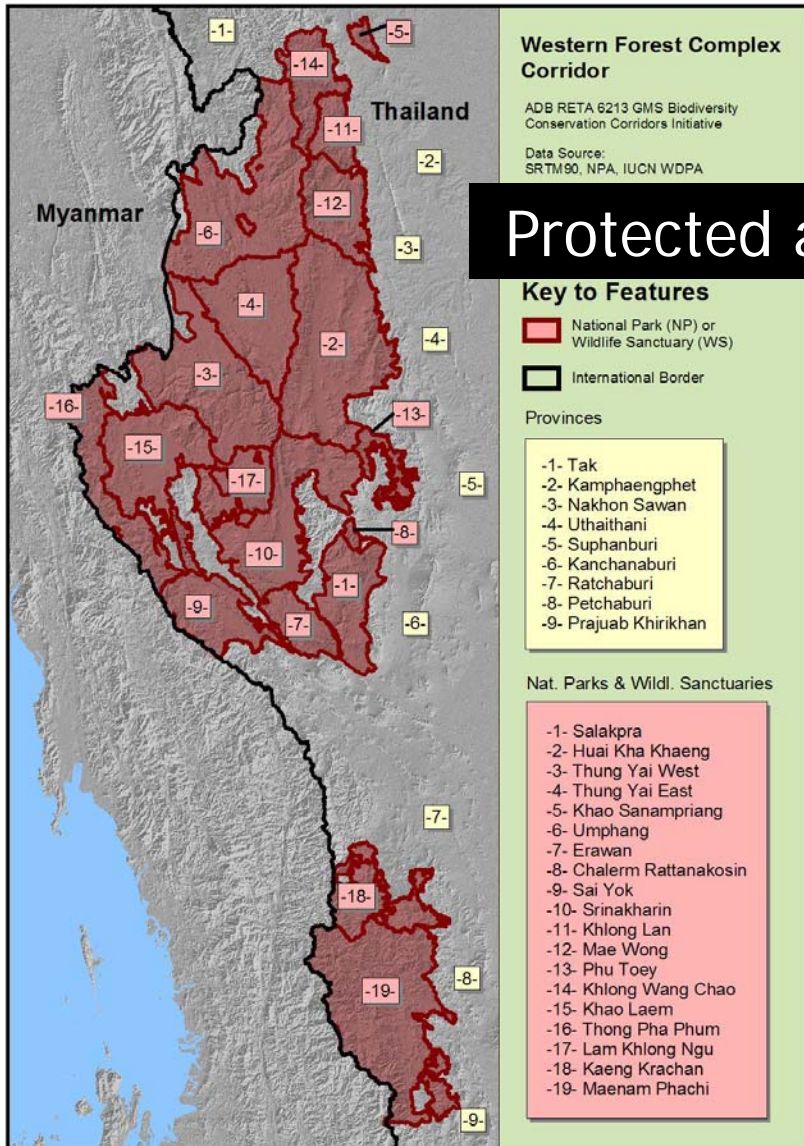
- Effectiveness
- Efficiency
- Feasibility
- Affordability
- Momentum
- Innovation
- Socio-economic impacts
- Replicability
- Importance
- Public support
- Likelihood of success
- Risk



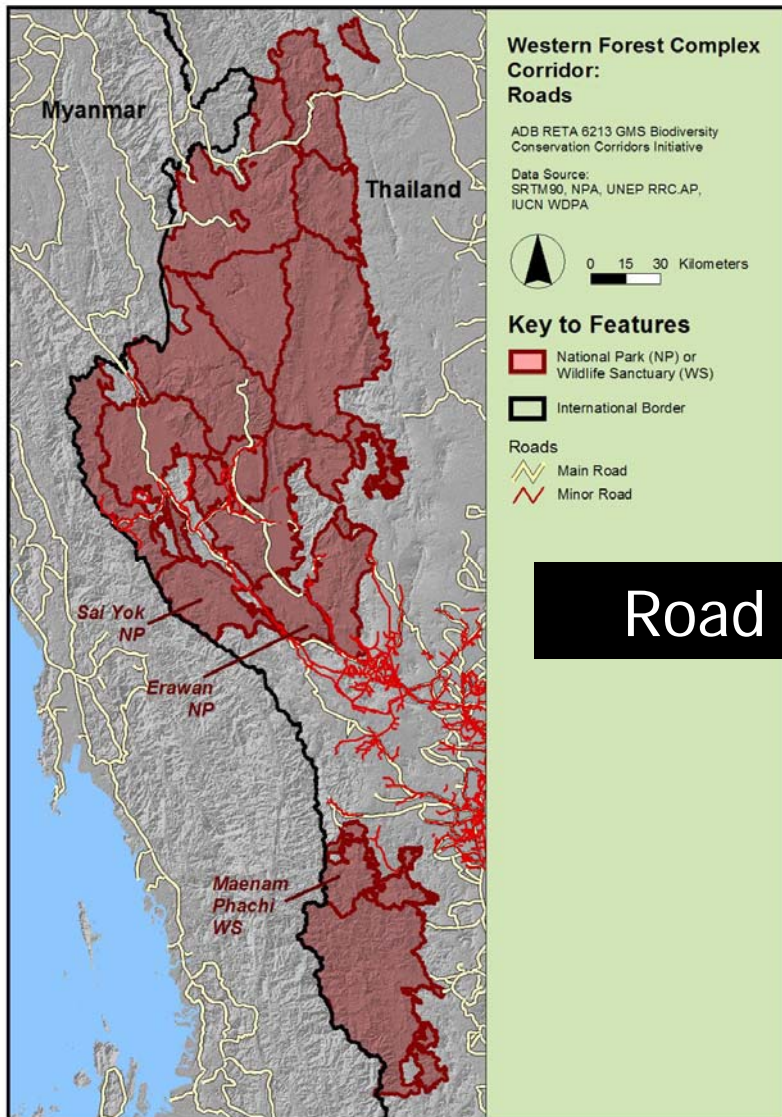
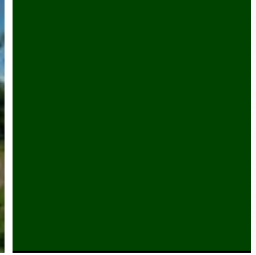
# Forest Complex And Protected Areas in Thailand



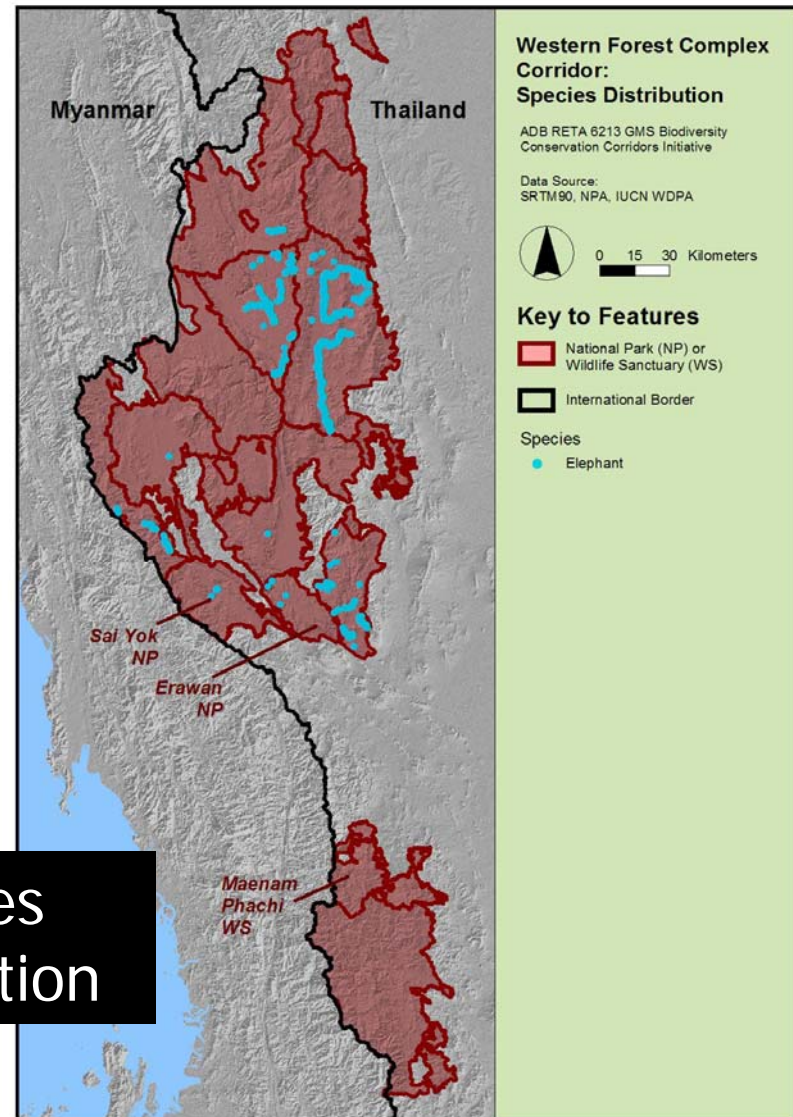
# Tenasserim – Western Forest Complex



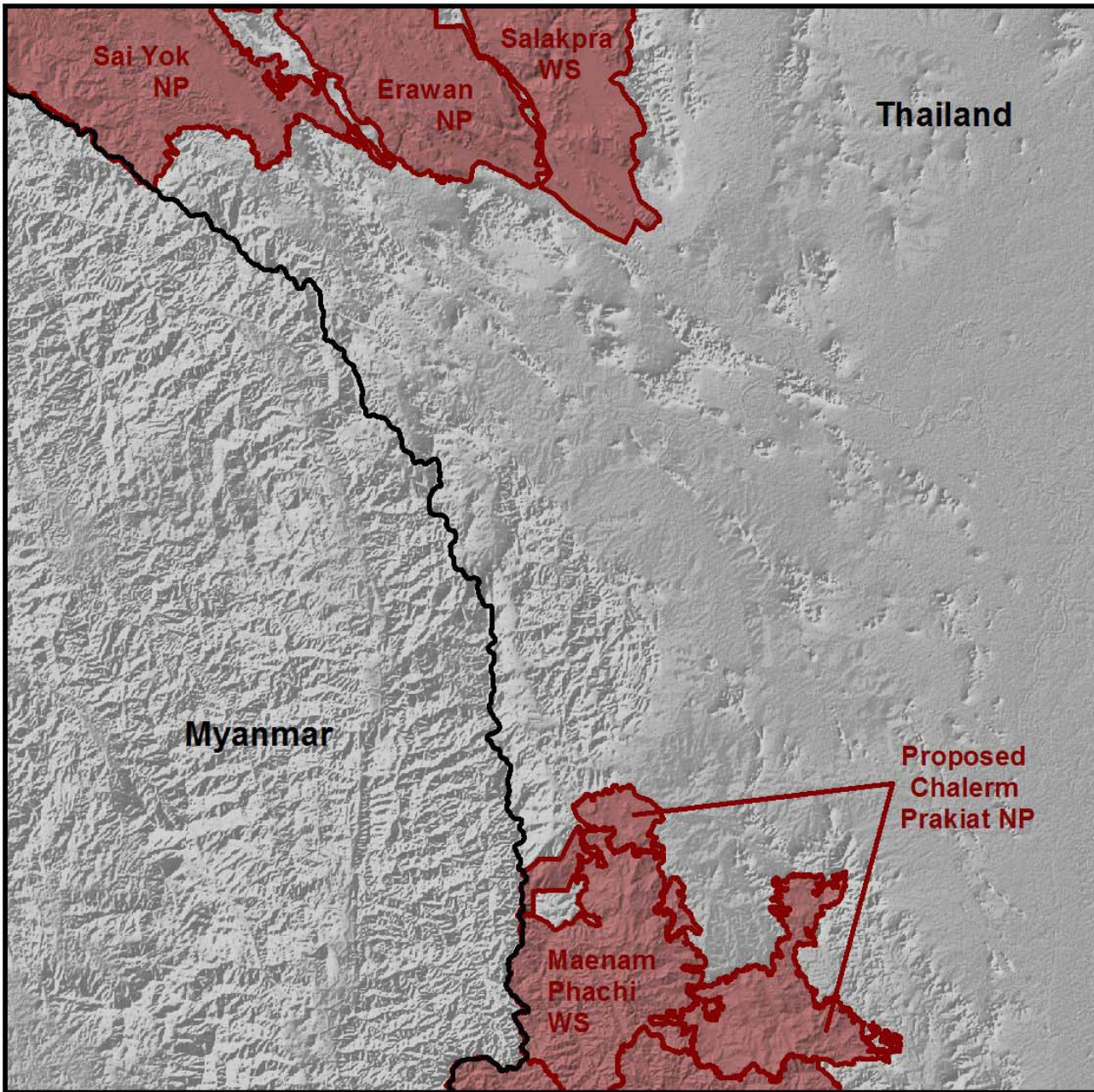
# Tenasserim – Western Forest Complex



Road



Species Distribution

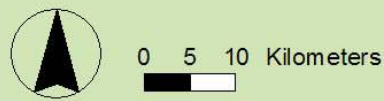


# Western Forest Complex Corridor: Zones

ADB RETA 6213 GMS Biodiversity  
Conservation Corridors Initiative

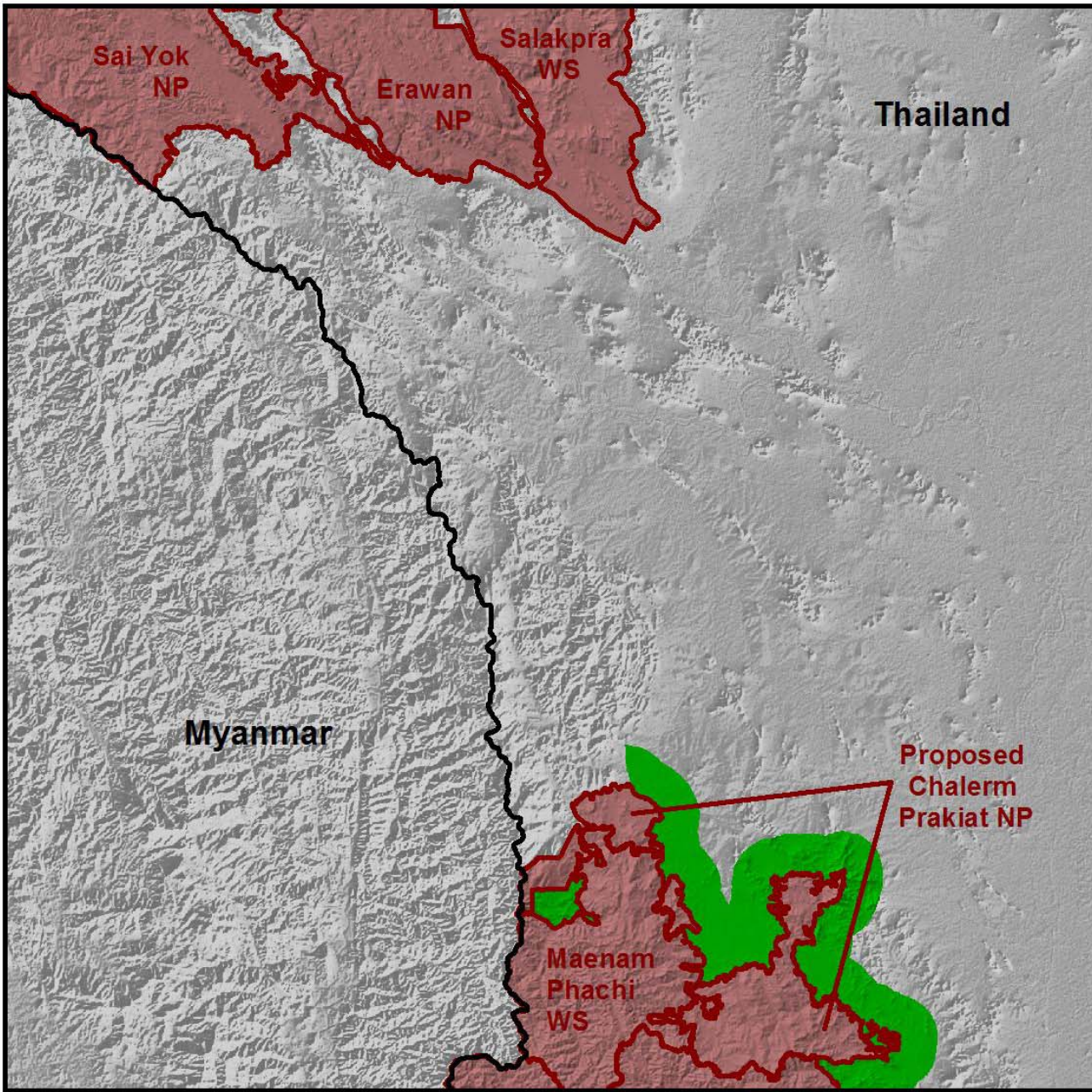


Data Source:  
SRTM90, NPA, IUCN WDPA



## Key to Features

- International Border
- National Park (NP) or Wildlife Sanctuary (WS)
- 5km Corridor
- 10km Corridor
- 15km Corridor



# Western Forest Complex Corridor: Zones

ADB RETA 6213 GMS Biodiversity  
Conservation Corridors Initiative



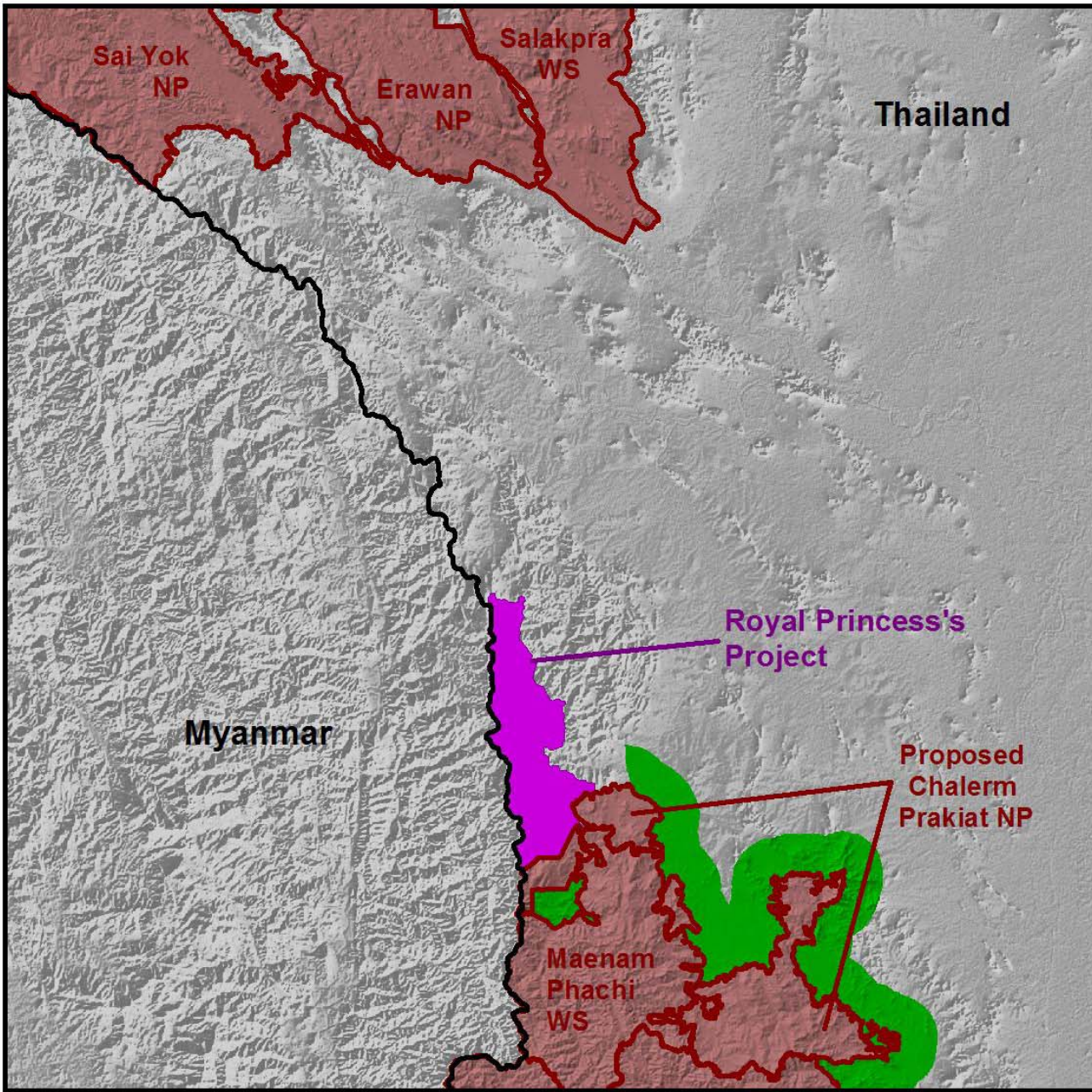
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0 5 10 Kilometers

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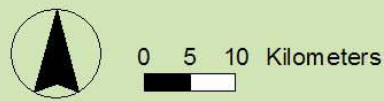


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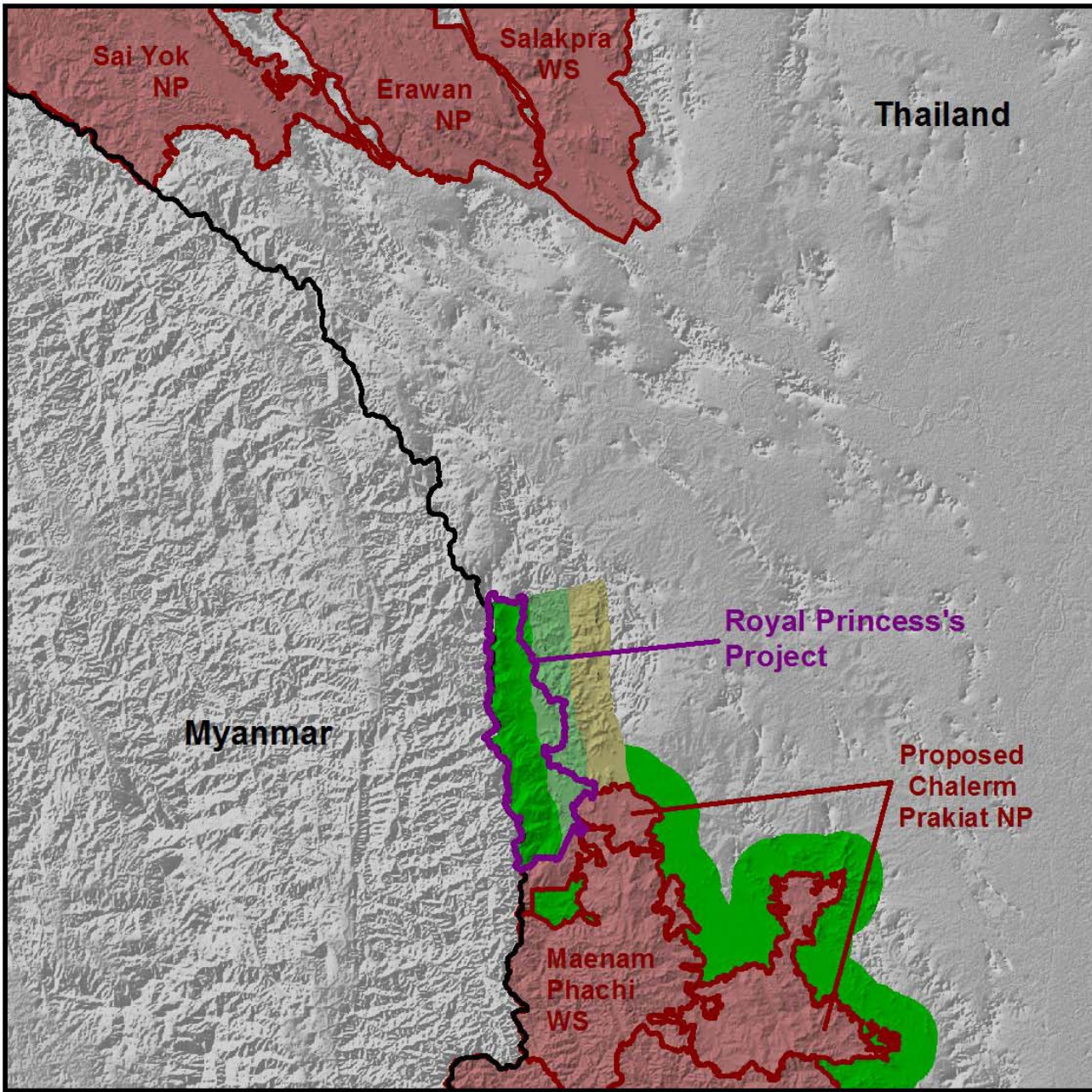


Data Source: SRTM90, NPA, IUCN WDPA



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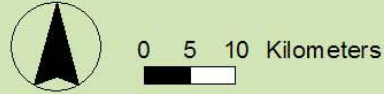


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ADB RETA 6213 GMS Biodiversity Conservation Corridors Initiative

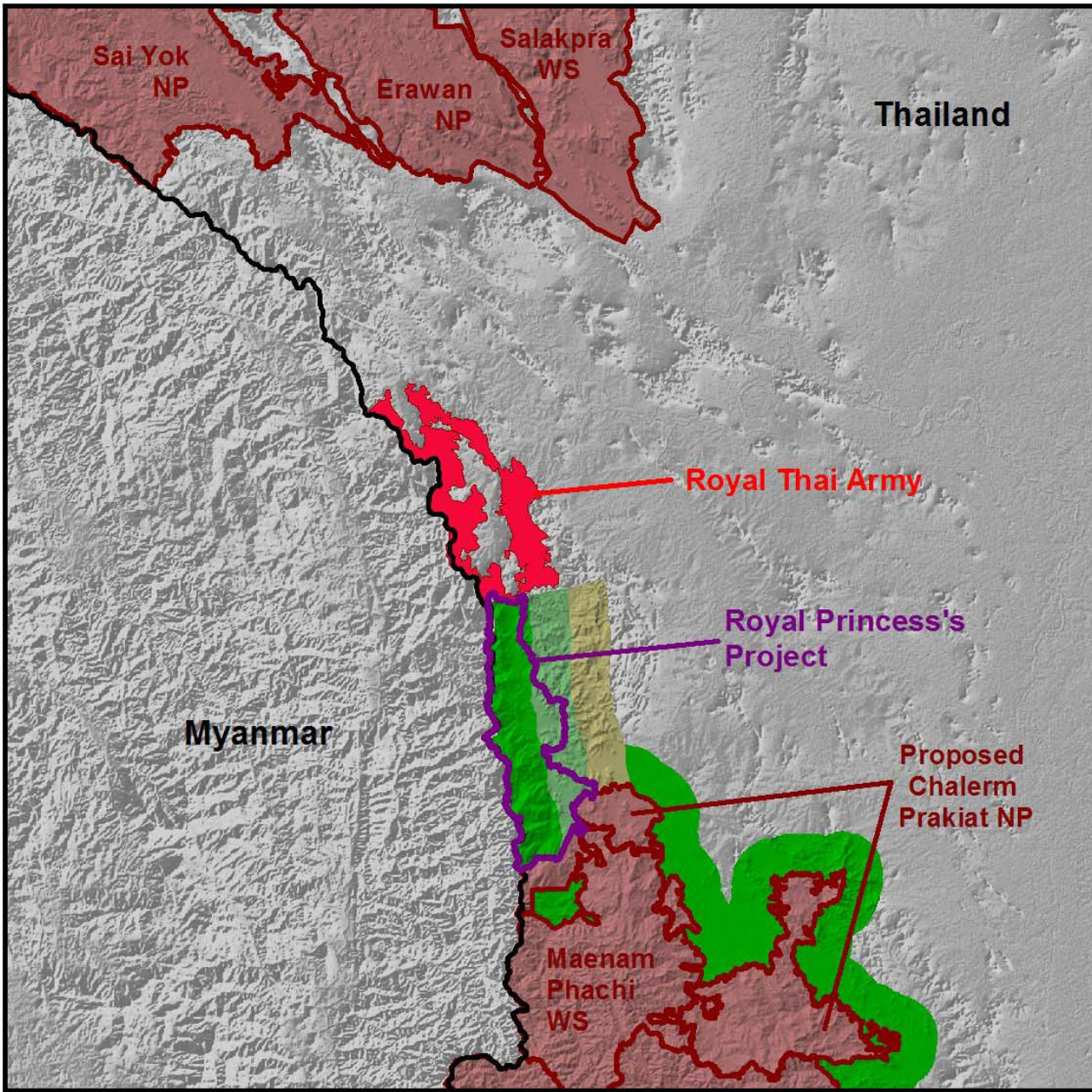


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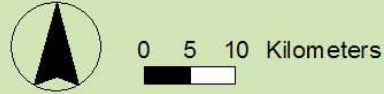


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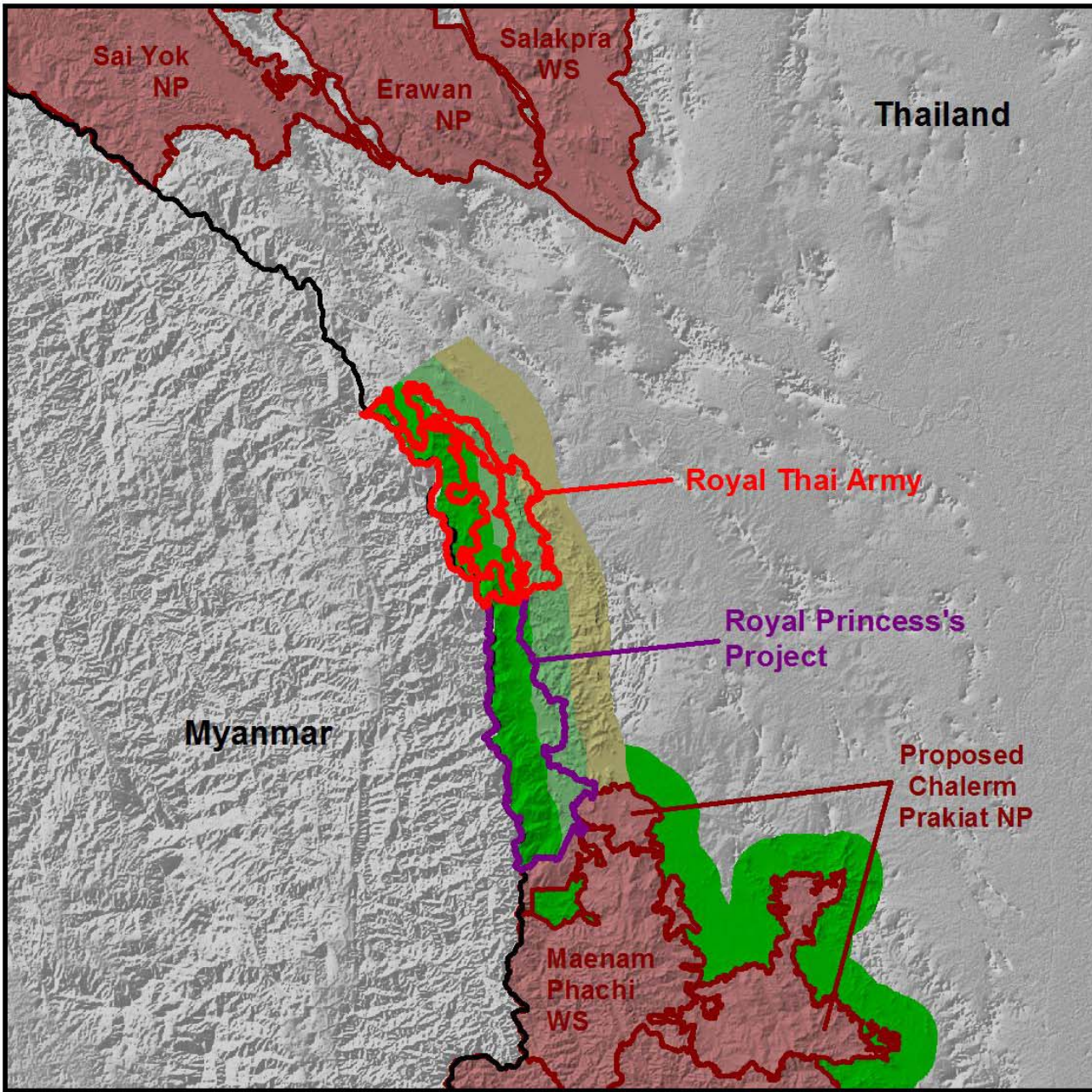


Data Source: SRTM90, NPA, IUCN WDPA



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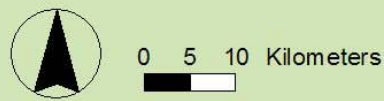


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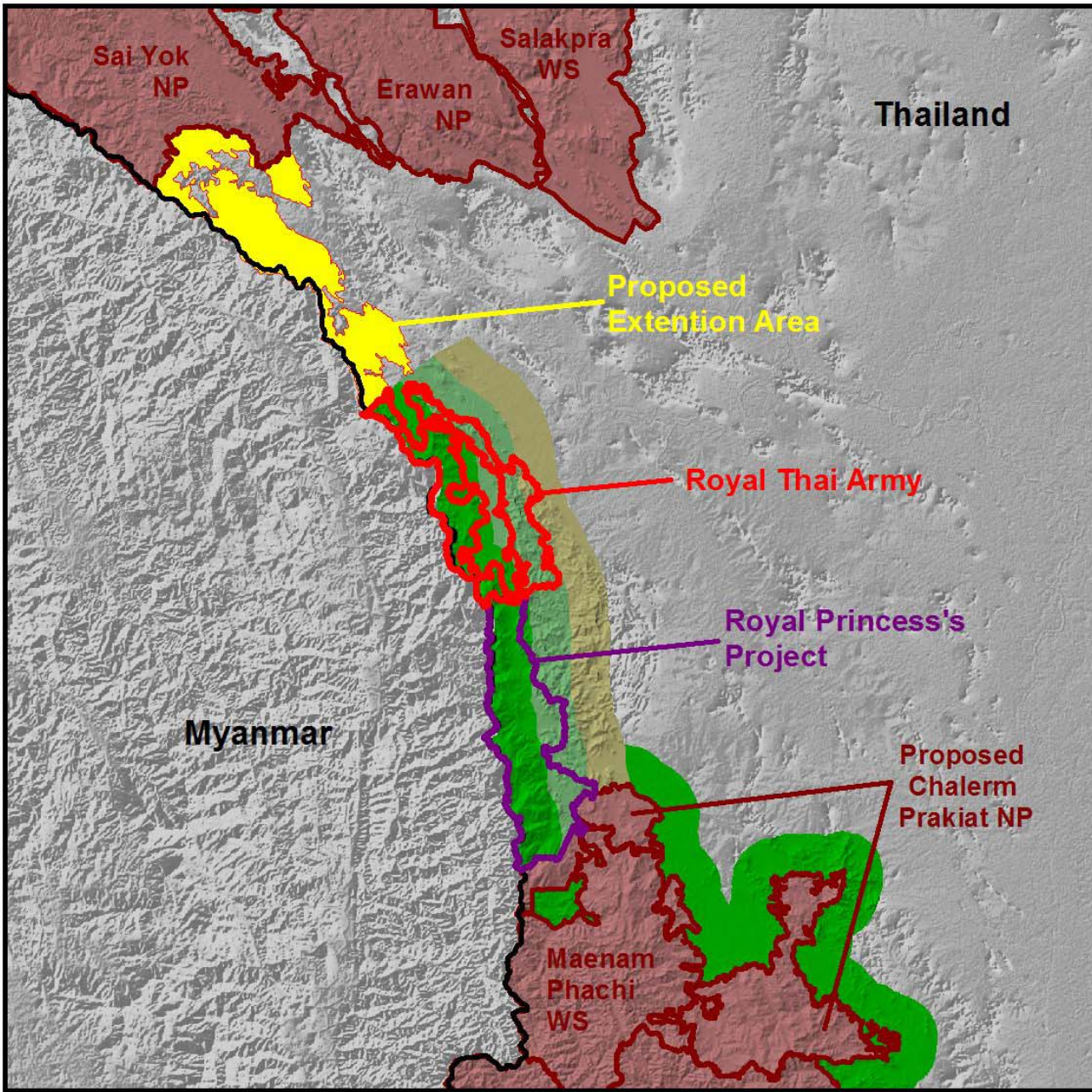


Data Source: SRTM90, NPA, IUCN WDPA



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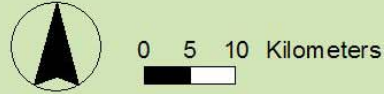


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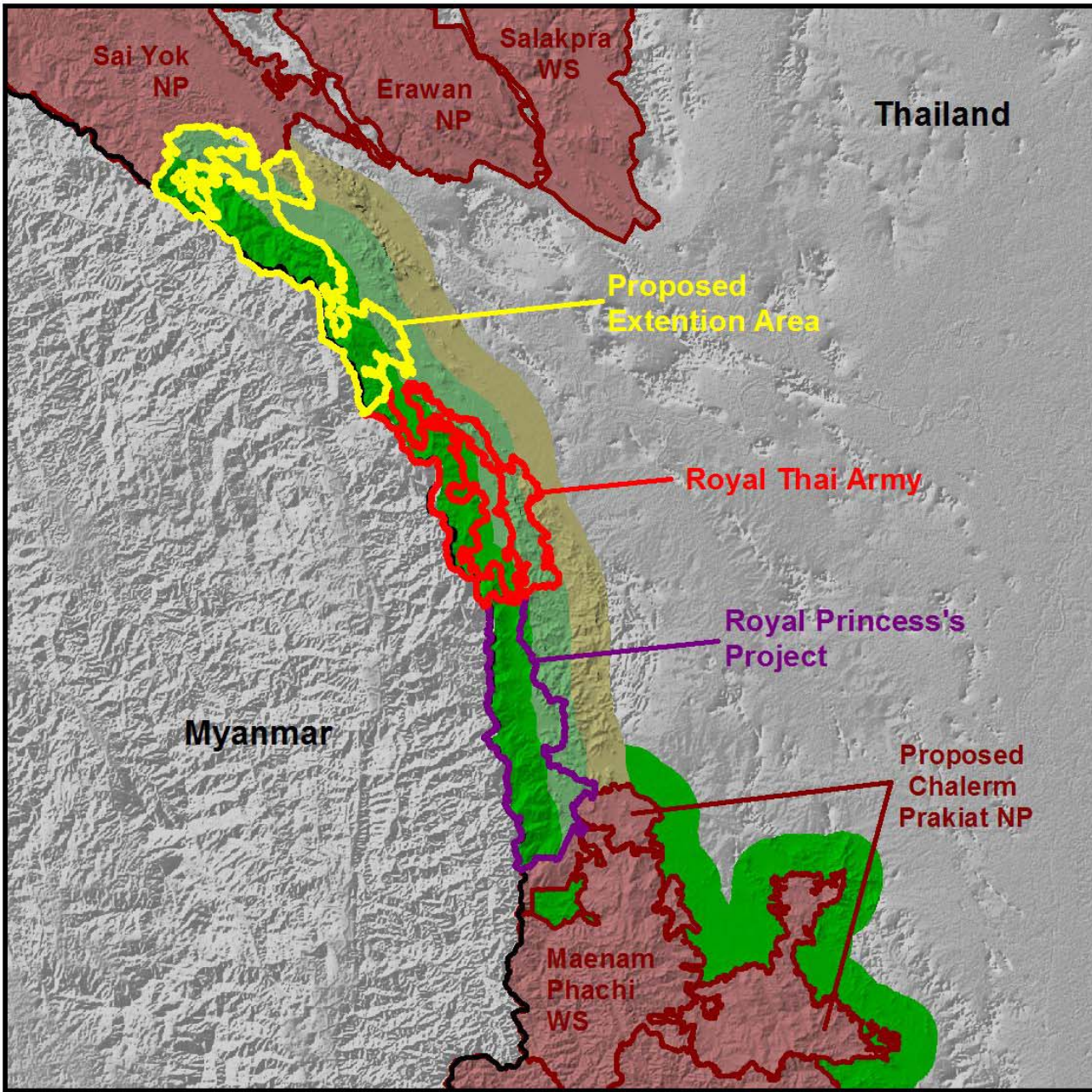


Data Source: SRTM90, NPA, IUCN WDPA



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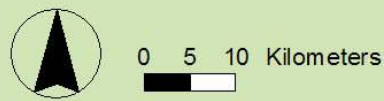


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## Key to Features

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



“The internalization of biodiversity conservation goals into economic and development policies and programs, so that they become an integral part of the functioning of these sectors”

# Steps to Mainstreaming strategies

- Form partnerships between biodiversity and sectoral stakeholders
- Explicitly identify stakeholders' interests
- Identify mutually beneficial outcomes
- Identify conflicts and tradeoffs, and work toward mutually acceptable solutions
- Identify win-win strategies and embed into policies, agreements, programs



# Un red conceptual de corredores en America Central Conceptual Corridor Network in Central America



**BORRADOR**  
31 AGOSTO 1993

... LOS DISEÑOS DE LOS CORRIDOS SON SUJETO A REVISIÓN POR EL COMITÉ DE PLANIFICACIÓN Y DESARROLLO REGIONAL DE LA COMISIÓN CENTROAMERICANA DE PAISES SUJECOS AL TRATADO DE LA AMÉRICA CENTRAL, UNIVERSIDAD DE GUATEMALA, GUATEMALA, GUATEMALA.

... LOS DISEÑOS DE LOS CORRIDOS SON SUJETO A REVISIÓN POR EL COMITÉ DE PLANIFICACIÓN Y DESARROLLO REGIONAL DE LA COMISIÓN CENTROAMERICANA DE PAISES SUJECOS AL TRATADO DE LA AMÉRICA CENTRAL, UNIVERSIDAD DE GUATEMALA, GUATEMALA, GUATEMALA.

**DRAFT**  
AUGUST 31, 1993

... THE DESIGN OF THE CORRIDORS IS SUBJECT TO REVIEW BY THE REGIONAL PLANNING AND DEVELOPMENT COMMITTEE OF THE CENTRAL AMERICAN COMMISSION OF COUNTRIES SUBJECT TO THE TREATY OF CENTRAL AMERICA, UNIVERSITY OF GUATEMALA, GUATEMALA, GUATEMALA.

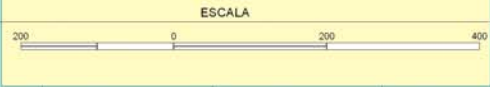
Departments of Landscape Architecture,  
Urban and Regional Planning, and  
Civil Engineering  
University of Florida  
Gainesville, Florida  
USA.

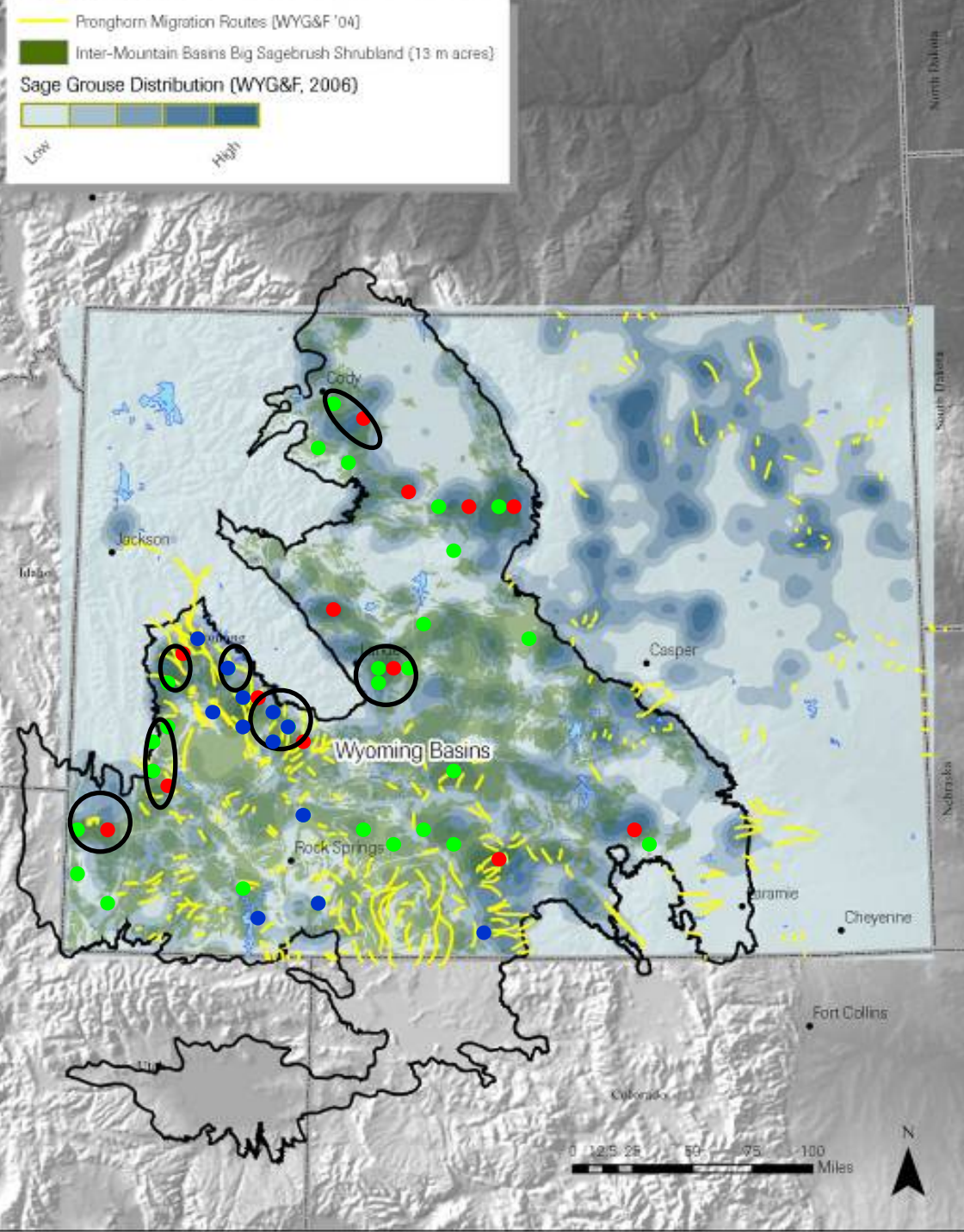
In Collaboration with (in colaboración with):  
La Comisión Centroamericana para el  
Ambiente y Desarrollo

Mesoamérica  
"Áreas Naturales Protegidas"

LEYENDA

- Corredores Actuales en Gestión Julio 2006
- Corredores Propuestos
- Áreas Protegidas
- Cuerpos de Agua
- Límite Internacional
- Capital
- Ciudad





# Mainstreaming biodiversity in Wyoming

# Example 1: Wyoming

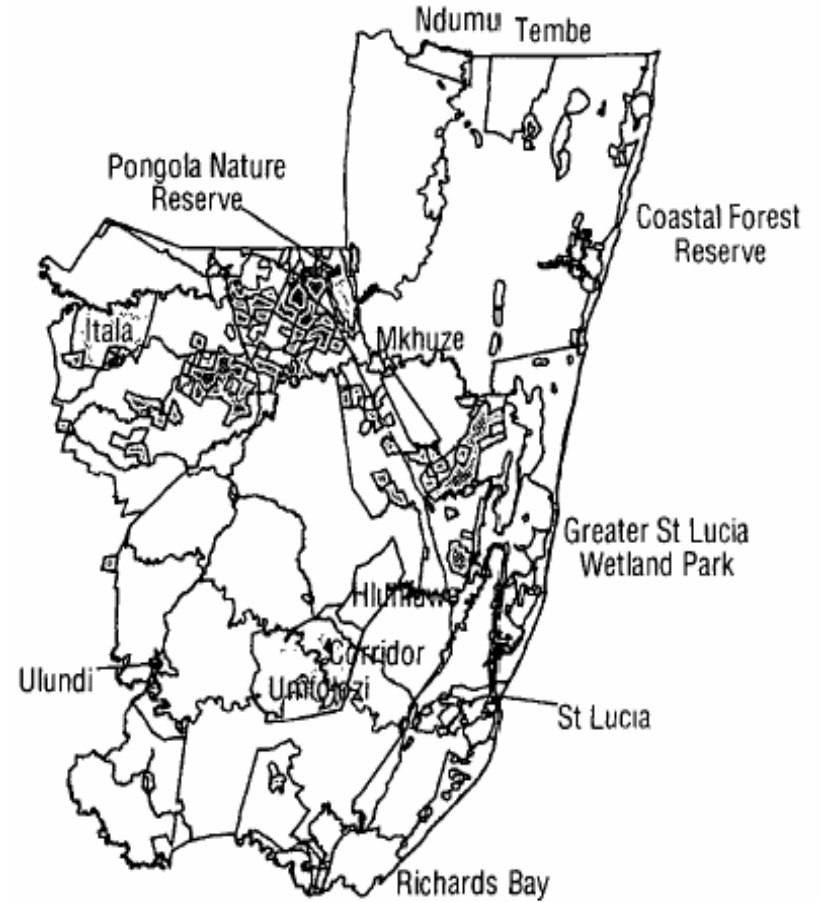
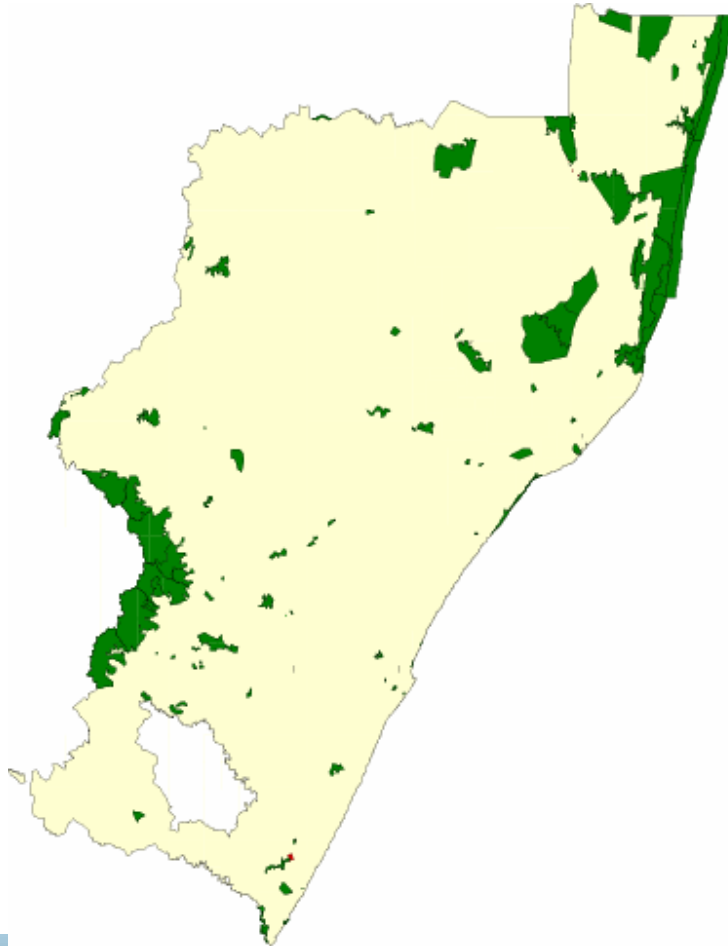
- TNC shared information with BP on areas of high conservation value
- Company developed voluntary biodiversity offset program
- Company incorporated connectivity and biodiversity issues into environmental assessments, standard operating procedures
- Paired with TNC to measure and mitigate impacts



# Mainstreaming biodiversity in South Africa



# The importance of game reserves in KZN



# Example 2: KwazuluNatal

- Develop game ranchers' association
- Create legal framework to support private ownership of land and wildlife
- Provide technical support to ranchers
- Provide financial incentives for private game ranches
- Use sales from ranches to fund protected areas
- Remove physical barriers between reserves



# Challenges

- Evaluating costs and benefits
- Accepting a realistic timeframe
- Balancing different screening criteria
- Creating trust
- Managing the implementation process

# Enabling conditions

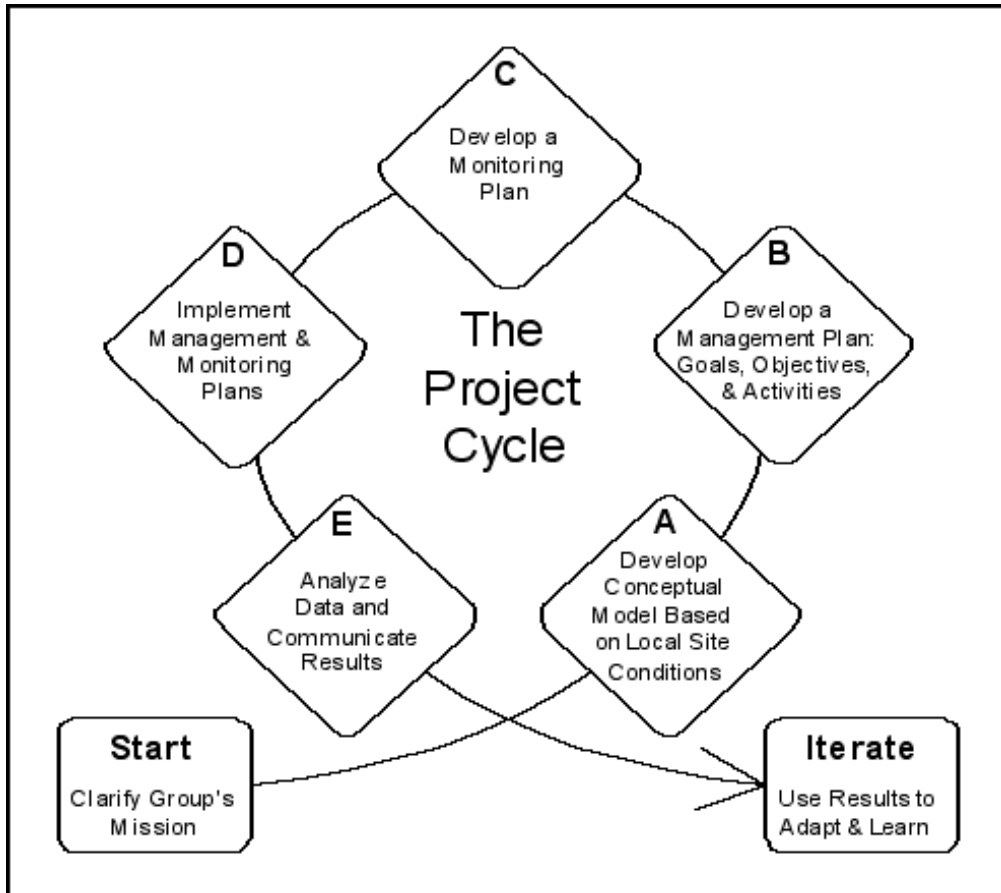
- Diversity of practical experience
- Nuanced understanding
- Flexible approach
- Effective implementation plan
- Broad support



# STEP 4: MONITORING STATUS AND EFFECTIVENESS



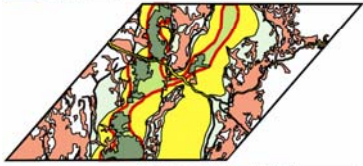
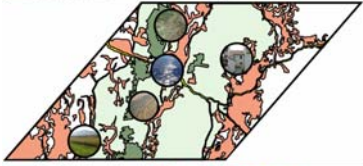
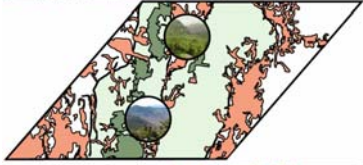
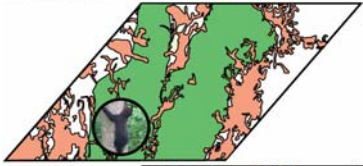
# STEP 4: MONITORING STATUS AND EFFECTIVENESS



- Develop effective monitoring plan
- Monitor status and trends in connectivity
- Monitor effectiveness of actions

# STEPS IN PROTECTED AREA INTEGRATION

1. Getting started
2. Assessing the broader context
  - a) Ecological
  - b) Protection and conservation
  - c) Economic and socio-cultural
  - d) Policy and sectoral
  - e) Putting it all together
3. Developing strategies and actions
4. Implementing strategies
5. Monitoring and adapting

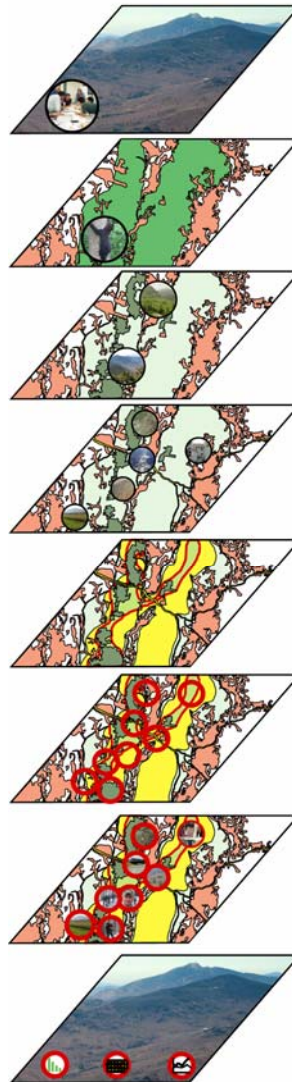


# 5 QUESTIONS FOR BREAK OUT GROUPS

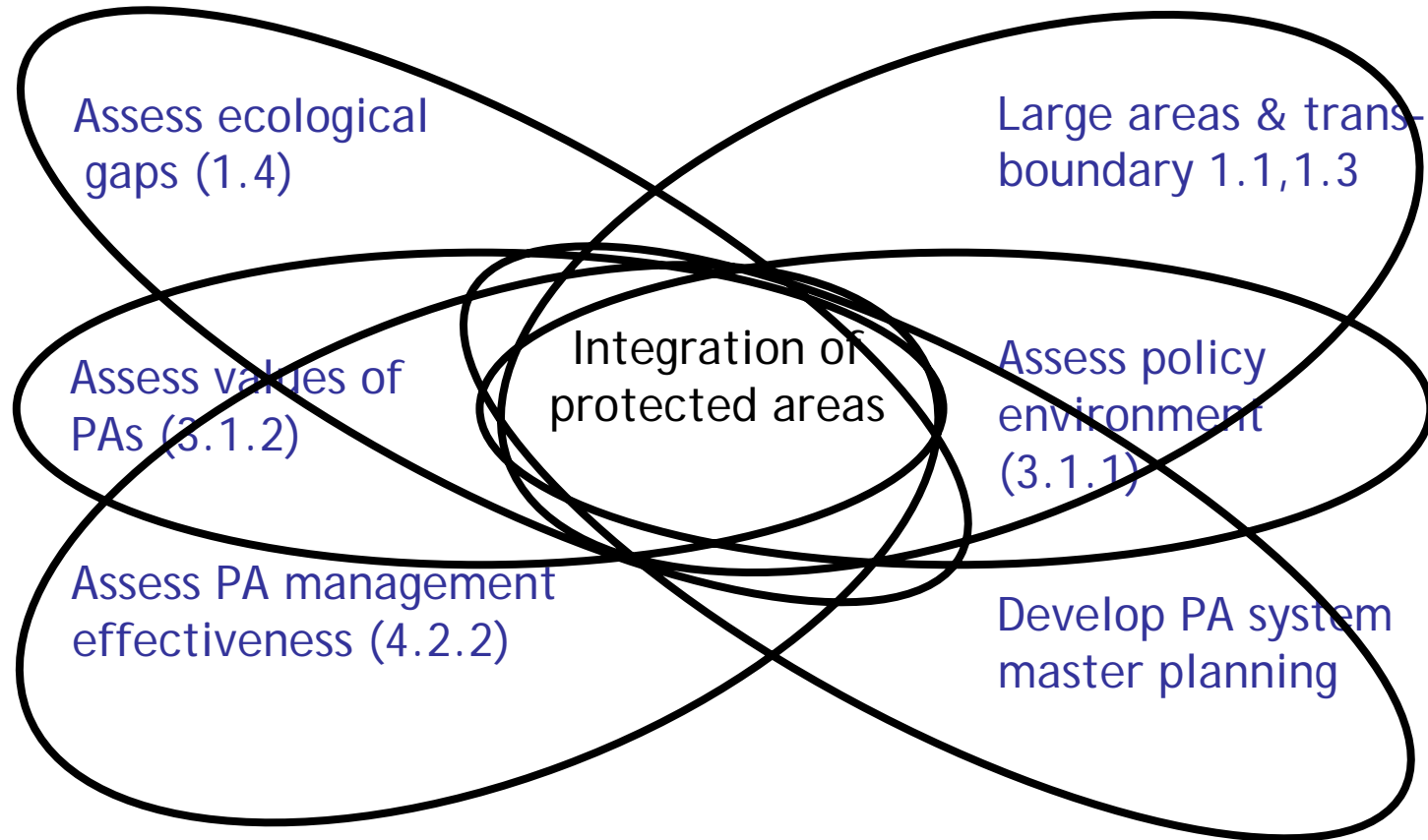
- Where are you in the process of integrating protected areas?
- What other assessments can contribute to assessing protected area integration?
- What are the most important sectors to work with?
- What are the most feasible strategies?
- What are the most important opportunities and constraints?



# 1. WHERE ARE YOU IN THE PROCESS?



## 2. What other assessments can contribute?



## 3. Main sectors

Land use planning  
Transportation  
Energy  
Tourism  
Wildlife policies  
Agriculture  
Grazing  
Forestry  
Agroforestry  
Fisheries  
Waste management  
Invasive species policies  
Legal environment  
Climate change policies  
Intersectoral coordination

## 4. Main strategies

Protection status  
Management practices  
Laws and policies  
Incentives and markets  
Sectoral practices  
Enabling environment  
Physical environment



# 5. Constraints and opportunities

Top strategies ►	Creating new PAs	Creating buffer areas	Creating corridors	Improving management within PAs
Top Sectors ▼				
Transportation				
Energy				
Waste management				

# Constraints and opportunities

Top strategies ►	Creating new PAs	Creating buffer areas	Creating corridors	Improving management within PAs
Top Sectors ▼				
Transportation			<b>Planned road will cause blockage</b>	<b>Road crews located in protected areas</b>
Energy	<b>Drilling in important areas</b>			
Waste management				<b>Solid waste dump is leaching into water</b>

# Constraints and opportunities

Top strategies ►	Creating new PAs	Creating buffer areas	Creating corridors	Improving management within PAs
Top Sectors ▼				
Transportation			<b>Create wildlife overpass</b>	<b>Relocate road crew stations</b>
Energy	<b>Create biodiversity offsets</b>			
Waste management				<b>Solid waste mitigation and clean up</b>

# Examples of constraints from N. Africa

	Changing the physical environment	Changing sectoral practices	Change market incentives, distortions and externalities
Energy	Ministries of Energy is much stronger than the Ministry of Environment	Mining is the top priority of the government.	Energy subsidies by governments
Tourism	Loss of habitats with no offset .	Associated huge unplanned infrastructures	Absence of policies for sustainable tourism
Laws and legal framework	Lack of policies on offsets and protection of key habitats	Lack of enforcement for the environmental laws.	* Biodiversity services are not fully valued in market term.



# Examples of opportunities from N. Africa

	Changing the physical environment	Changing sectoral practices	Change market incentives, distortions and externalities
Energy	Ministries of Energy & Petroleum should compensate for the biodiversity loss.	Promotion of best practices of power production to donors.	Energy subsidies the protection of environment through taxation
Tourism	Promotion of Ecotourism	Applying EIA restrictions	Global growing demands for ecotourism (Rwanda – Costa Rica)
Laws and legal framework	Implementation of mechanisms on offsets and protection of key habitats	<ul style="list-style-type: none"><li>* Capacity building for law enforcement.</li><li>* Implementation of proper land use..</li></ul>	<ul style="list-style-type: none"><li>* Develop methods for valuation of biodiversity.</li></ul>



# BREAK OUT GROUPS

1. Georgia, Russia, Ukraine, Azerbaijan  
(Andrea)
2. BiH, Albania, Montenegro, Croatia, Bulgaria  
(Rolf)
3. Hungary, Latvia, Romania, Poland, Estonia  
(Jamison, Thora)