



Restoration experiences in Mexico:

What We Know and Where We Need to Go



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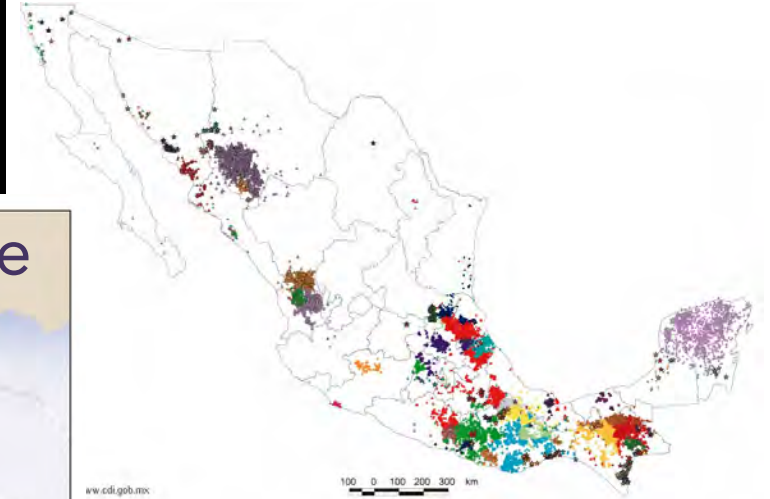
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Highly complex territory



Culturally highly diverse



Intense land use change



Megabiodiverse



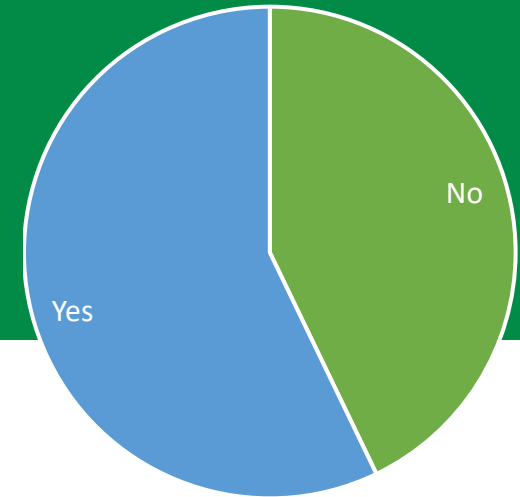
Densely populated



What do we need to restore?

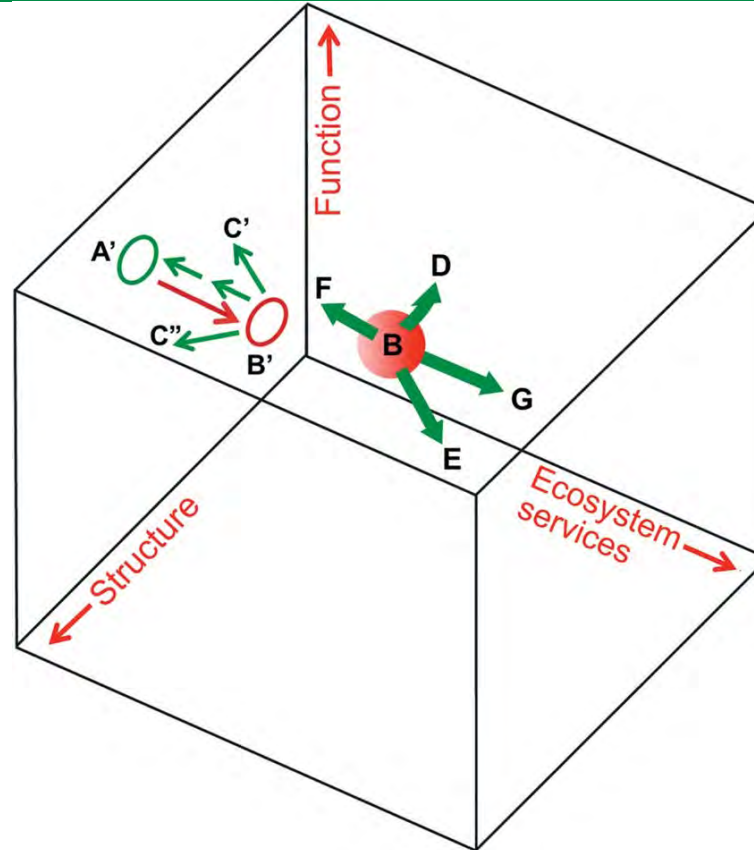
Mitigation to Climate Change
Adaptation to Climate Change (NbS)

Objectives for CC



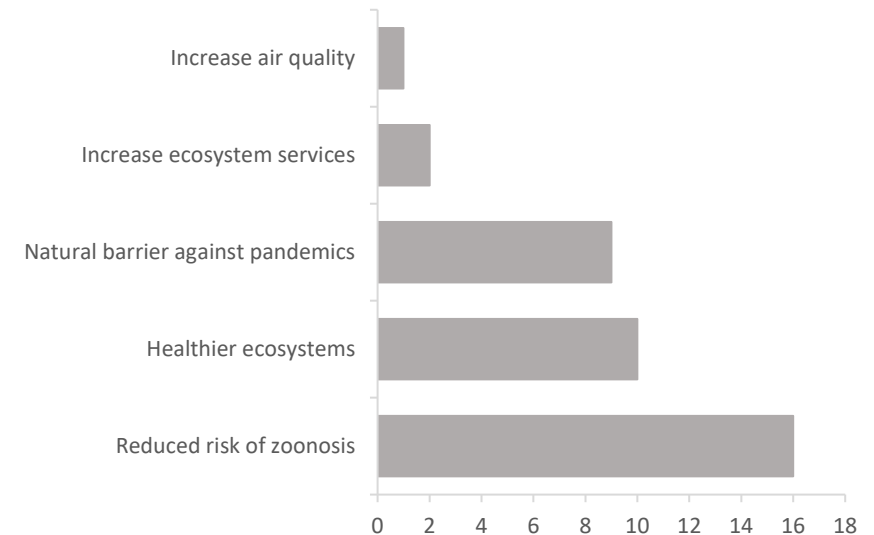
Conservation of biodiversity

Restoration actions are necessary to recover species habitat and complement conservation efforts.



Food security

Natural barrier to future pandemics





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2004

First Latin-American restoration network

1) Promote the exchange of ideas and experiences between stakeholders involved with ecological restoration

3) integrate diverse social actors across all the restoration process

OBJECTIVES
REPARA

2) Influence public policies and regulations designed to protect and restore our ecosystems

17

Researchers in the core of the network

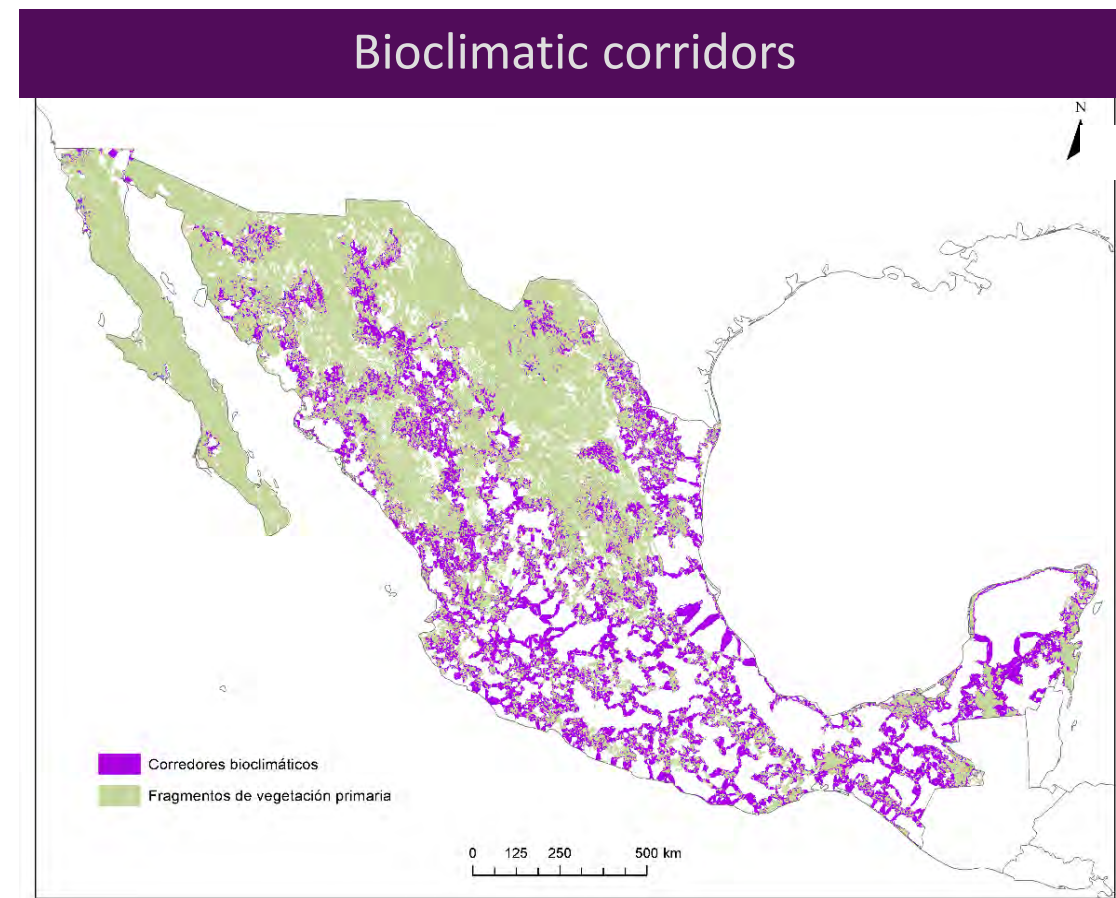
192-> 430

Associated members





In Mexico, Where is **conservation** needed? Where is restoration needed?

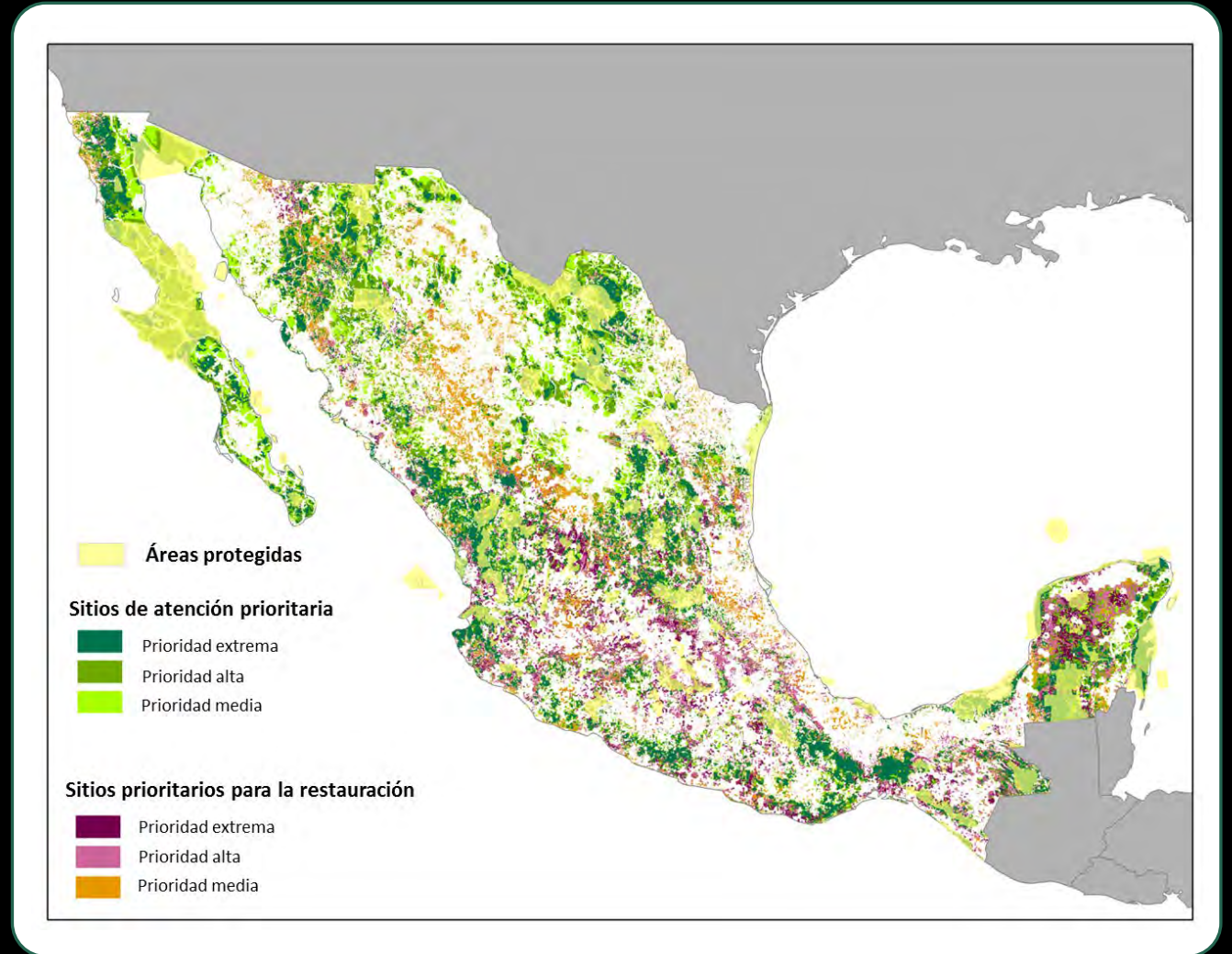


A national view to aid decision making

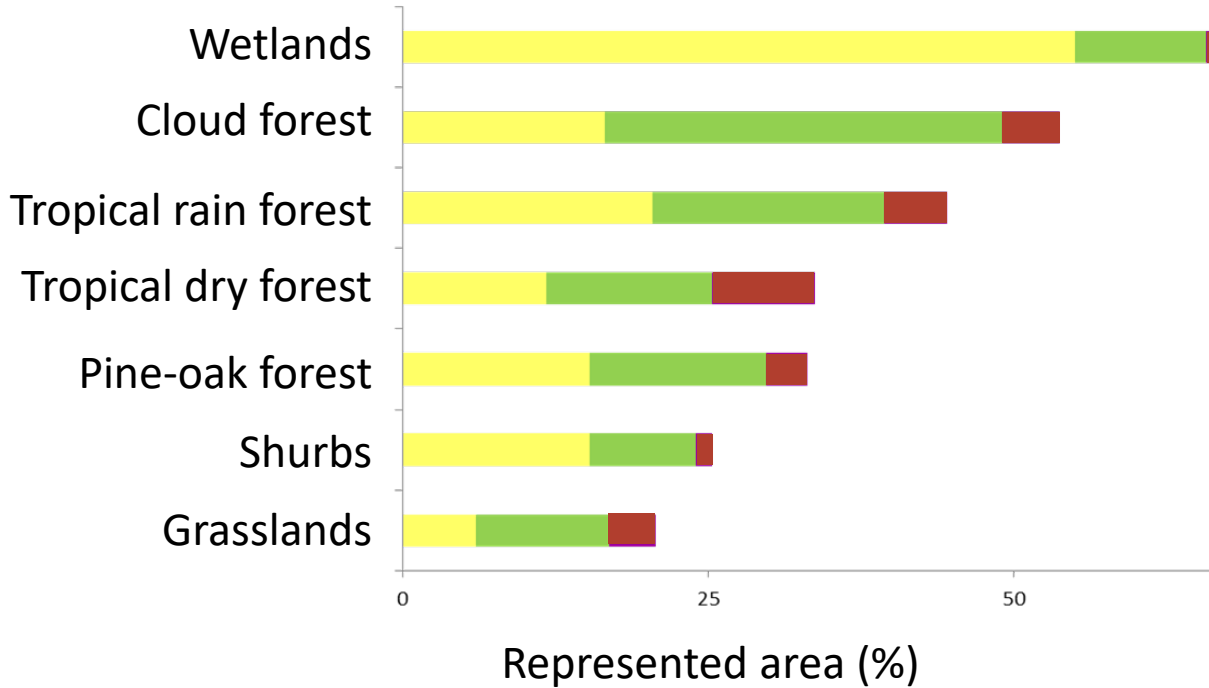
In Mexico restoration and conservation strategies are needed across ecosystems, even those within protected areas.

Prioritized sites:

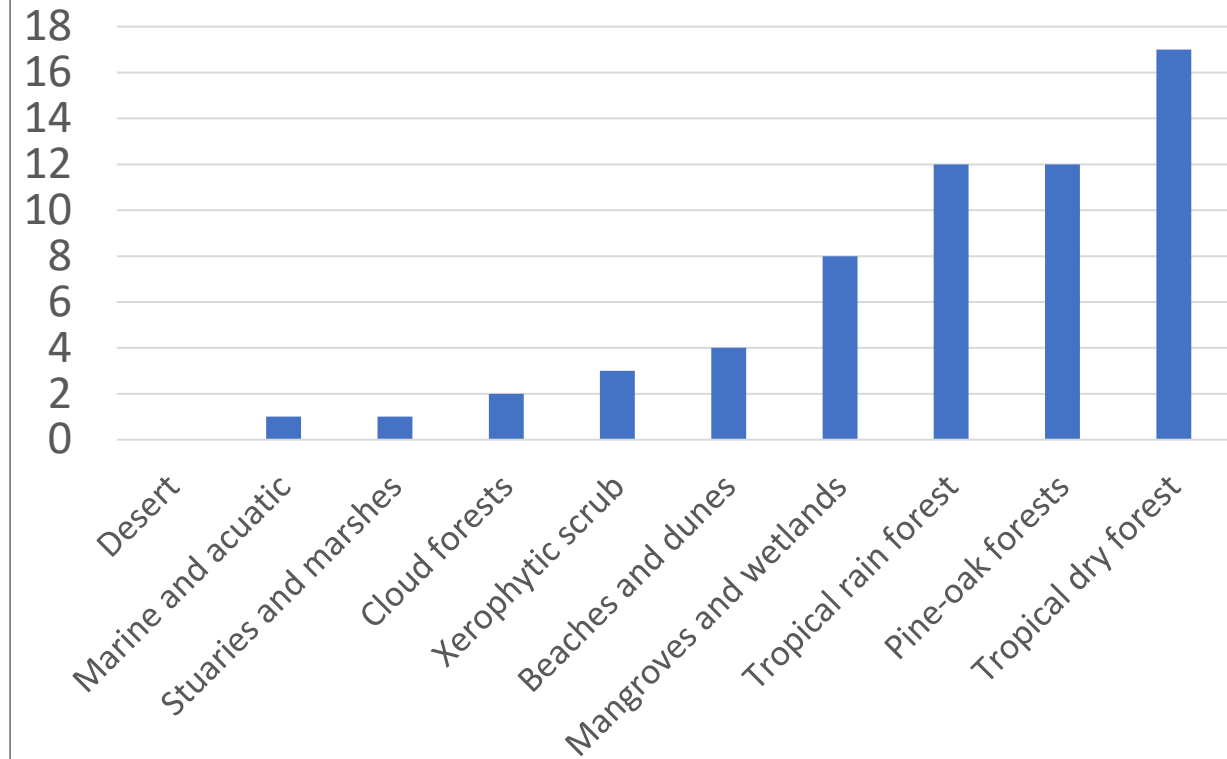
- Shelter of endemic and threaten species
- Provide key ecological functions and ecosystem services
- Key for ecological connectivity
- Boost resilience to climate change

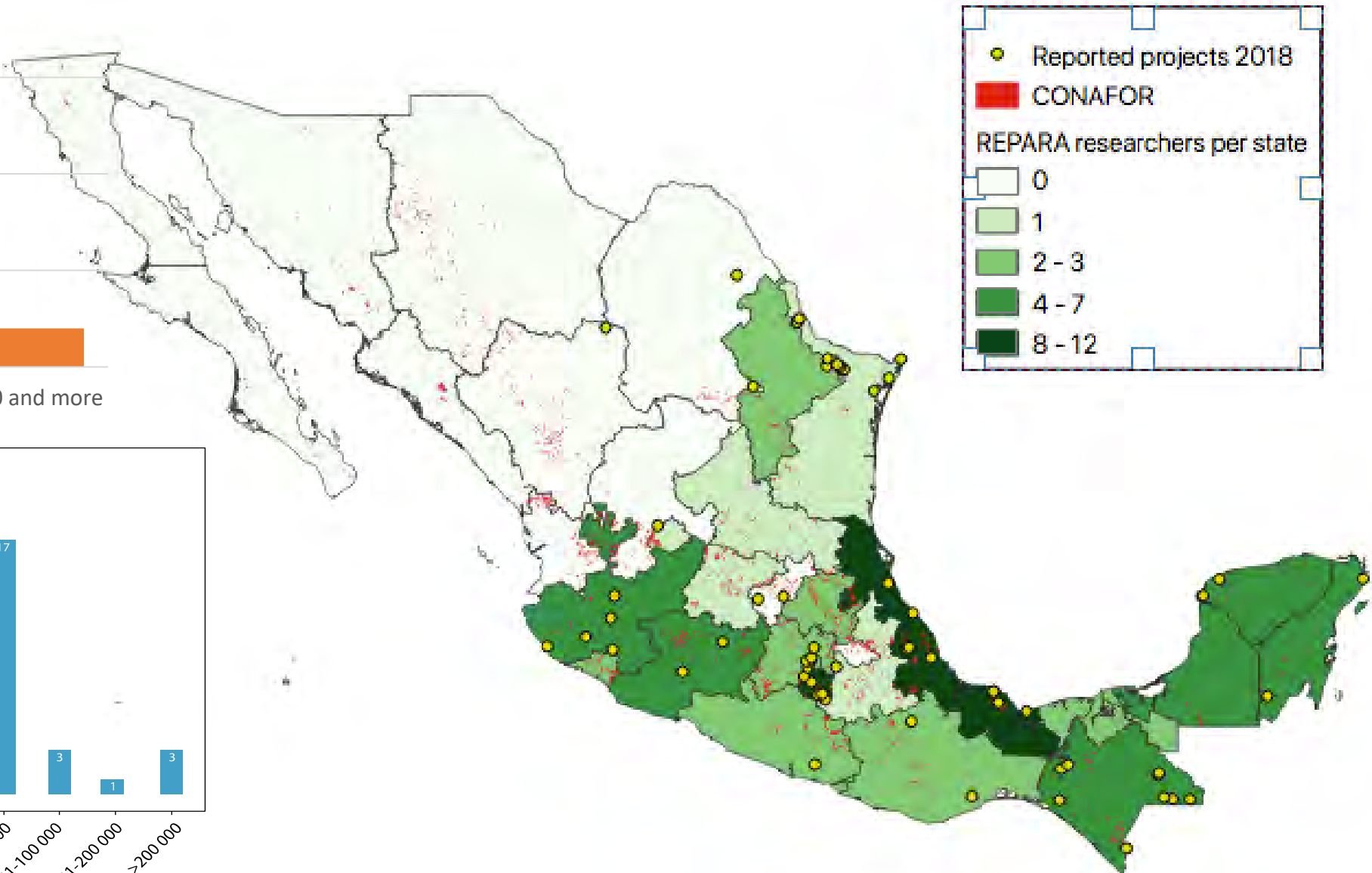
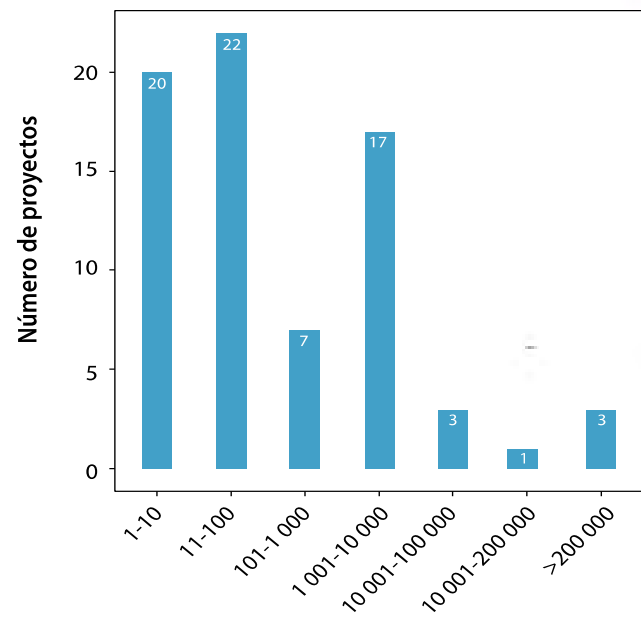
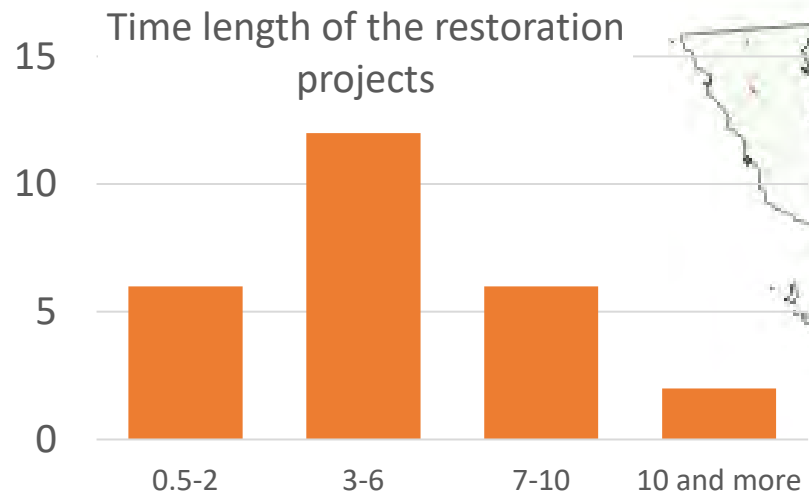


CONABIO



Scientists working in restoration





COASTAL ECOSYSTEMS

HUMAN
IMPACT

MITIGACION

BLUE
CARBON
STOCKS

CLIMATE
CHANGE

ADAPTATION

NATURAL
BARRIERS
AbE

	Extension (ha)	
Year	Mangroves	Seagrasses
2001	≈820,000	≈688,230
2018	≈741,917	≈456,059

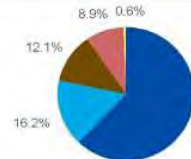
*Cartography is undefined

Mangroves



Carbon Storage (Tg C_{org})

Central Pacific: 1.4
Gulf of Mexico: 21.3
South Pacific: 28.7
North Pacific: 38.4
Yucatan Peninsula: 147.2



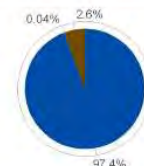
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UNIDAD MERIDA
Center for Research and Advanced Studies
of the National Polytechnic Institute
Merida Unit
Primary Production Laboratory
October 2018

Seagrasses



Carbon Storage (Tg C_{org})

Gulf of Mexico: 0.02
North Pacific: 1.2
Yucatan Peninsula: 46.9

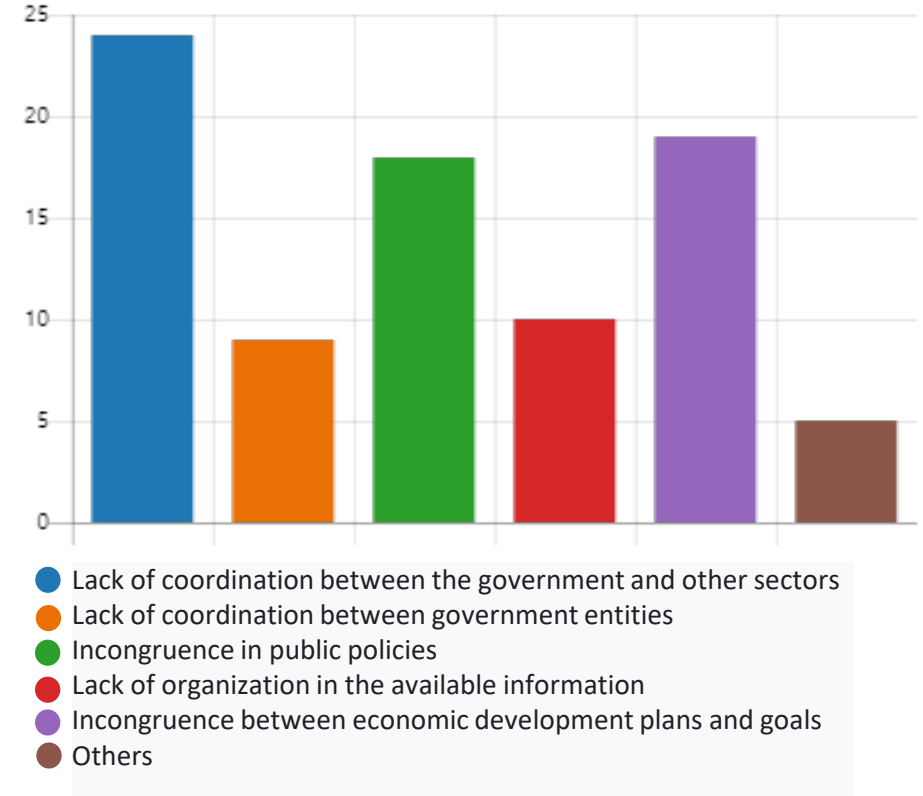


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A National Restoration Integrated Plan

- A solid and well-integrated legislation on restoration
- A national restoration fund to finance long-term and large-scale projects.
- Financial resources to comply with the international commitments
- Better coordination between public institutions and academic institutions
- Implementation of well-informed public policies to make restoration more efficient.
- Strategic planning
- Integration of local communities through all the restoration processes
- Long term monitoring

The elaboration and implementation of the plan requires that intersectoral and inter-institutional collaboration be strengthened. The role of academia in the elaboration of public policies and restoration strategies is key.



Advancing towards a national restoration plan for Mexico

- *Landscape-scale objectives*
- *Philosophical and theoretical bases*
- *Prioritize restoration areas*
- *Actions plans with a CC perspective*
- *Bottom-up approaches*
- *Long-term monitoring plan*
- *Long term financial plan*
- *Include of previous knowledge*
- *Communicate findings*



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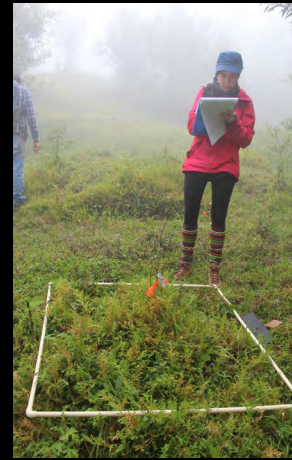
INTERNATIONAL COOPERATION

Mexico requires a national plan that considers our geopolitical situation.

We share a border and some ecosystems that need to be restored cross the border

It is important to consider a trilateral vision in our national plans for conservation





Social dimensions are key for the feasibility and sustainability of any restoration effort



Gracias
Thank you
Merci



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