



# Climate Change Adaptation for Protected Areas in Mexico: From Theory to Practice



Financial planning    **Landscape approach**

Governance mechanisms    Environmental Services

Strengthening national and local capacities

**Monitoring System**    Geographic Information Systems

# Resilience

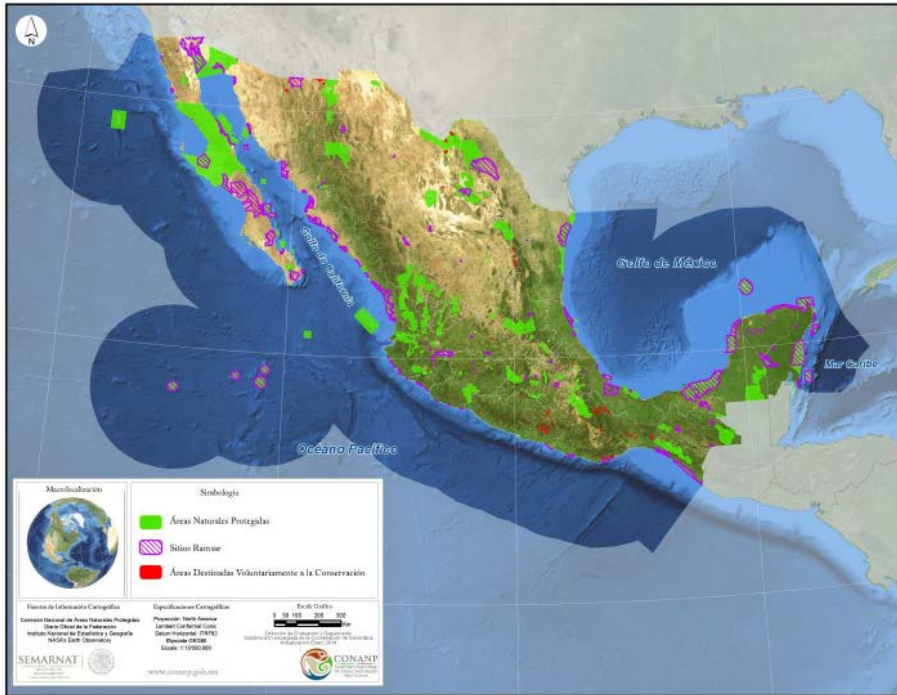
Climate change strategy from Protected Areas

Restoration    **Connectivity**    Landscape approach

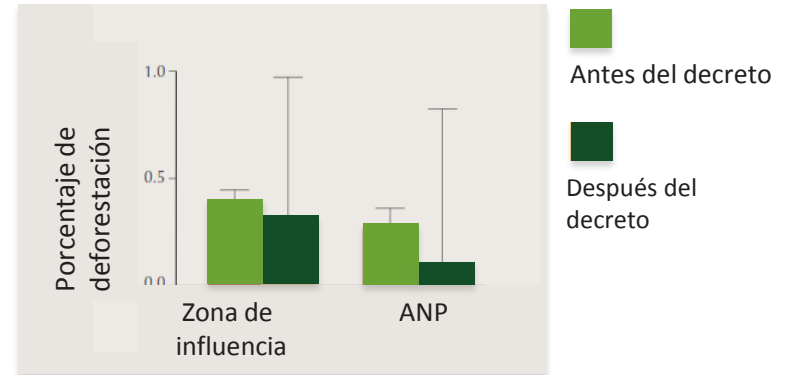
Communication    **Vulnerability**    Reduction



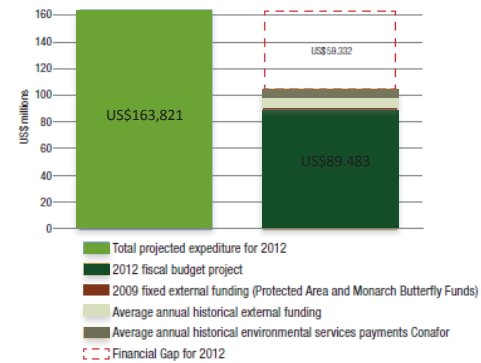
# Protected Areas System in Mexico



## PA Effective Analysis based on forest cover.



Rayn Villalba, D. *In* Sánchez-Cordero et al., 2011



**Mexico's PA Financial GAP.**

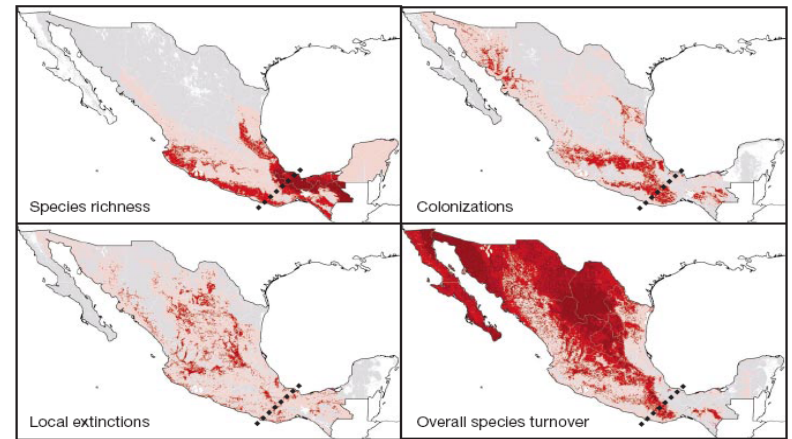
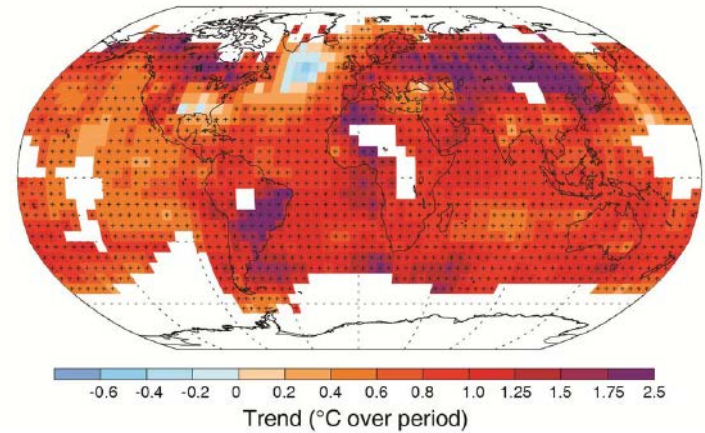


# Conservation in a Climate Change Context

“By 2020 ecosystems are resilient and continue to provide essential services, thereby securing the planet’s variety of life, and contributing to human well-being, and poverty eradication” ...” **SP2011-2020 CDB.**



Observed change in average surface temperature 1901–2012



Biodiversity Forecasting Peterson et al., 2002.



FEDERAL PROTECTED AREAS OF MEXICO



NATIONAL CONTEXT



Drought tendency is constantly increasing.



In the north and center of Mexico, heat waves are exacerbating.



In coastal zones, floods probability is increasing.



Winter temperature has a 1.3°C increment

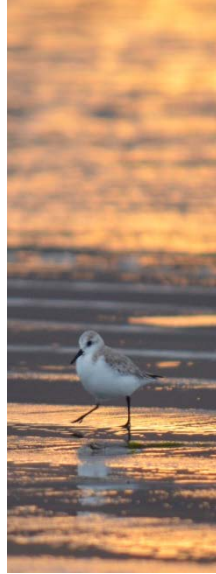


There is little certainty of precipitation patterns.



Extreme meteorological events are increasing.

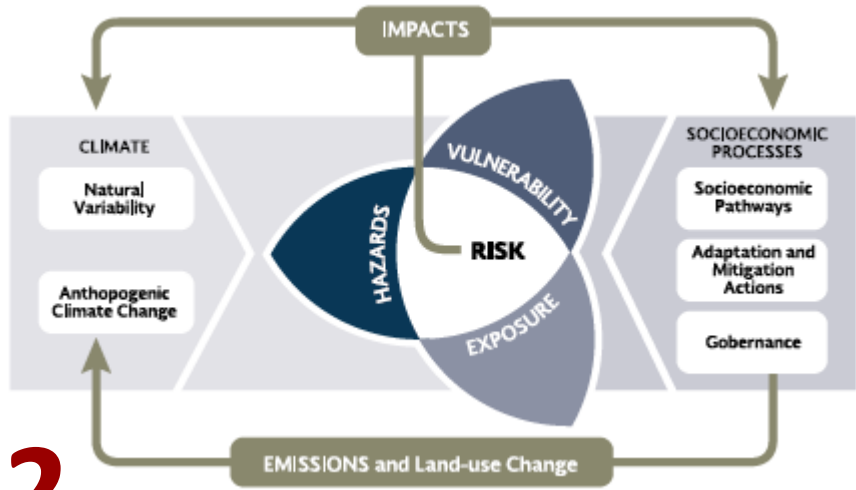




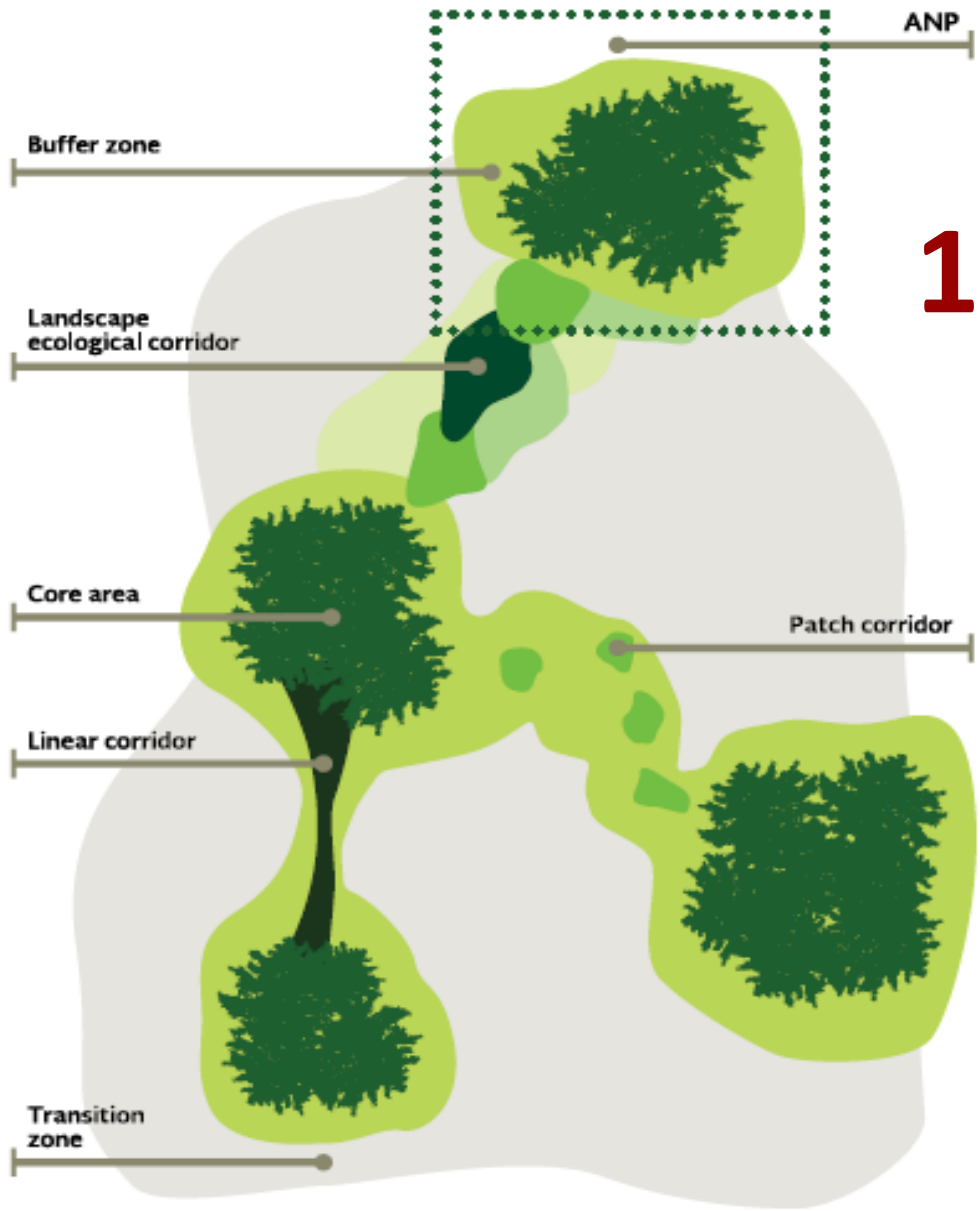
Protected areas are essential spaces to mitigate (causes) and adapt (impacts) to climate change therefore national readiness frameworks for protected area systems are a world priority.

**THE CHALLENGE IS...HOW?**





2



1



3





**CLIMATE CHANGE STRATEGY  
FROM PROTECTED AREAS**  
EXECUTIVE SUMMARY



MÉXICO  
GOBIERNO DE LA REPÚBLICA



SEMARNAT  
SECRETARÍA DE  
MEDIO AMBIENTE  
Y ENERGÍAS NATURALES



CONANP  
COMISIÓN NACIONAL  
DE ÁREAS NATURALES  
PROTEGIDAS



**COMPONENT:**  
INSTITUTIONAL COORDINATION



**COMPONENT:**  
LANDSCAPE MANAGEMENT IN  
CONTEXT OF CLIMATE CHANGE



**COMPONENT:**  
KNOWLEDGE FOR DECISION  
MAKING



**COMPONENT:**  
SOCIAL PARTICIPATION AND  
COMMUNICATION





# México Resiliente

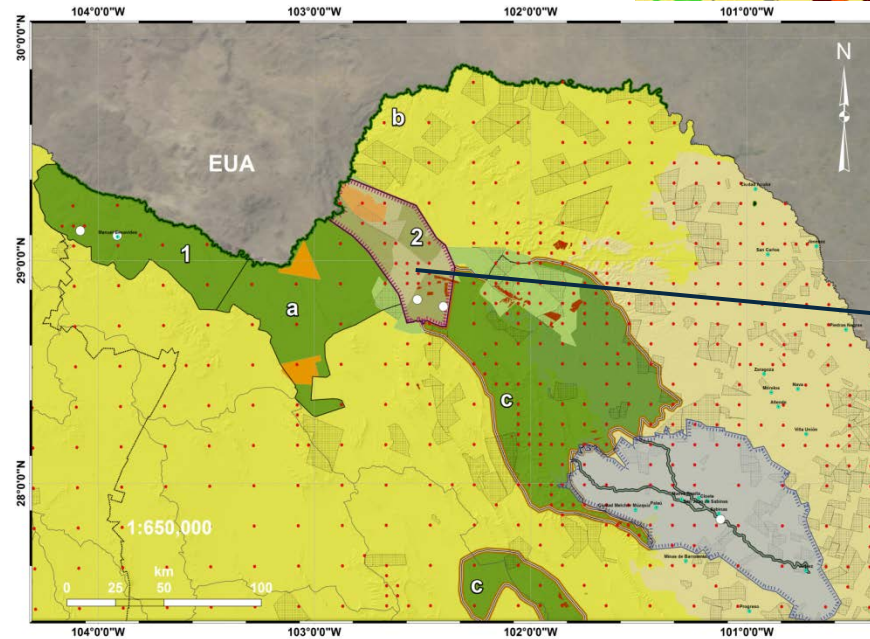
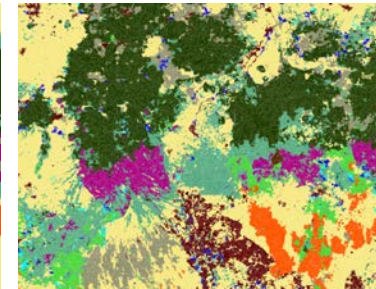
Áreas Protegidas, respuestas naturales al Cambio Climático




# PA: Climate Change National Monitoring System



Al servicio de las personas y las naciones



 FEDERAL PROTECTED AREAS OF MEXICO



**Important Finance for Climate Change Adaptation → USD\$ 60 milion**



# Thank you! ¡Gracias!

**Mariana Bellot Rojas**

General Director of Institutional Development and Promotion , CONANP.

**Andrew Rhodes Espinoza**

Director of Climate Change Strategies, CONANP.

arhodes@conanp.gob.mx

**National Commission of Natural Protected Areas**

<http://www.conanp.gob.mx>

<http://cambioclimatico.conanp.gob.mx>



IUCN  
WORLD PARKS  
CONGRESS  
SYDNEY 2014

MÉXICO  
GOBIERNO DE LA REPÚBLICA



SEMARNAT  
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MEDIO AMBIENTE  
Y RECURSOS NATURALES



CONANP  
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PROTEGIDAS