

# **Mexico: National Policy on Adaptation to Climate Change**

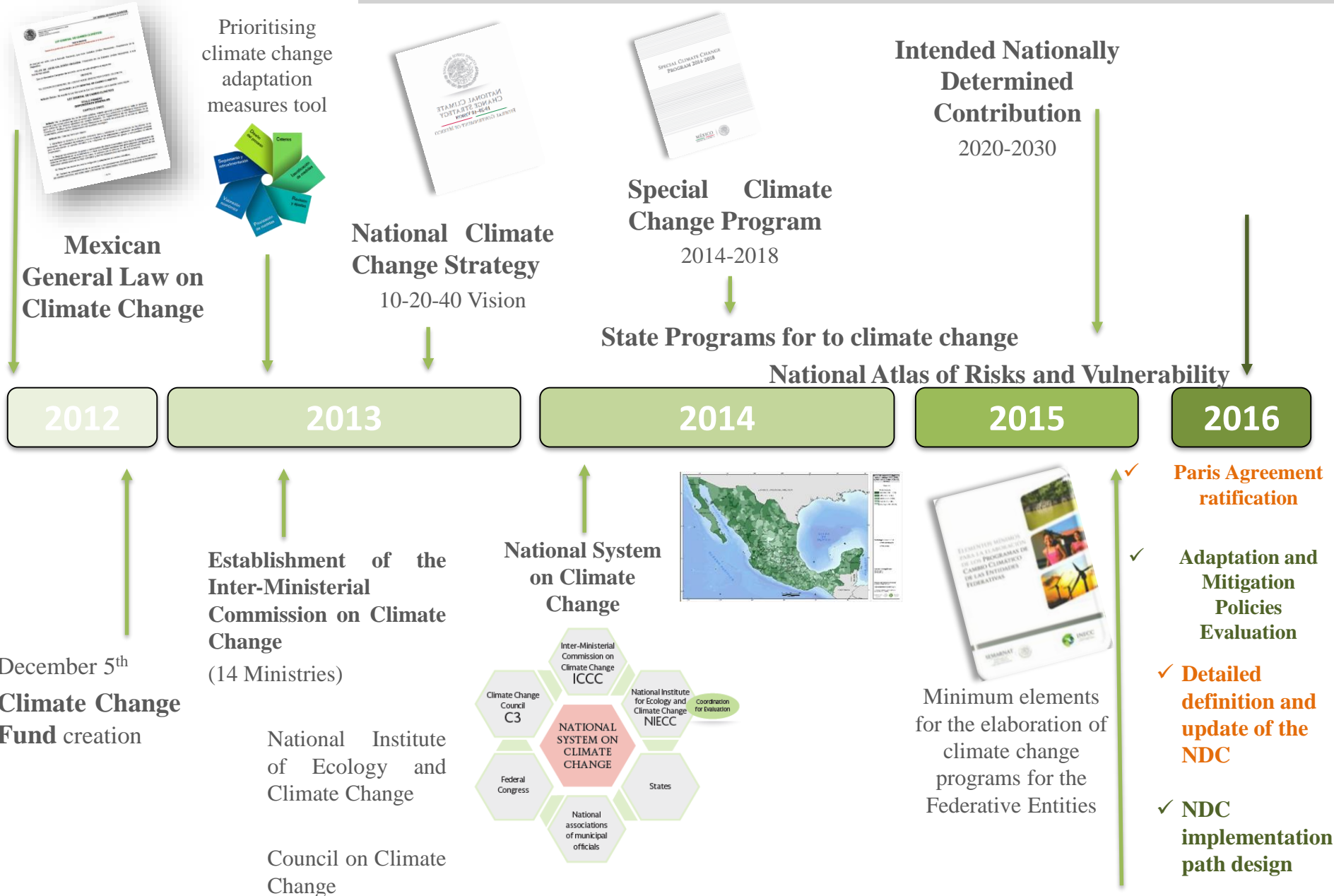
*Some considerations about the design of a NAP in Mexico*

## **Financing NAPs: Options for Implementation Targeted Topic Forum**

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# MEXICO ON THE INTERNATIONAL PANORAMA

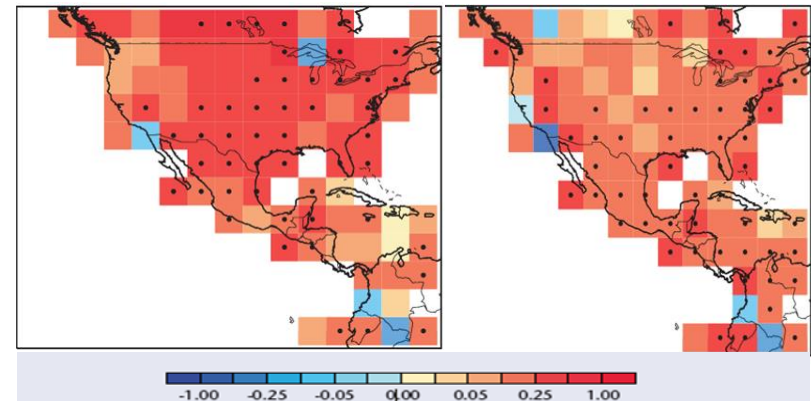


# SOME CONSIDERATIONS ABOUT MEXICO VULNERABILITY TO CLIMATE CHANGE

- Its localisation between two oceans, its latitude and reliefs, make of this country a place particularly exposed to hydrometeorological phenomena

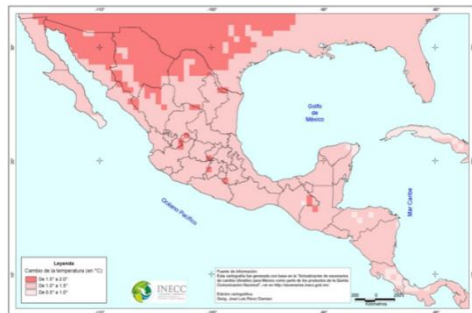
## Increase of the temperature in Mexico in the last fifty years

- Since the 60's, Mexico has become warmer.
- Mean temperature in a national level has raised  $0.85^{\circ}\text{C}$** , which is coincidence with the global increase reported by the IPCC.
- Precipitation has decreased in the South East of the country for half a century.



For the period 2015-2039 is projected an increase in temperature from  $1^{\circ}\text{C}$  to  $1.5^{\circ}\text{C}$  in most of the country, while in the North could raise until  $2^{\circ}\text{C}$ .

The trend of decreasing precipitation varies in a range between 10 and 20%.



# PROJECTED IMPACTS OF CLIMATE CHANGE IN PRIORITY SECTORS

## DECREASE

- Corn productivity
- Coniferous trees fields and marine populations

## INCREASE

- Drought
- Precipitation could be more severe and frequent increasing the risk of floods
- Sea level
- Oceans temperature

The **infrastructure** may be affected by the raise in number and intensity of tropical cyclones and more intense storm surges

### Agricultura



### Hídrico



### Costero



### Tormentas y clima severo



### Ecosistemas y biodiversidad



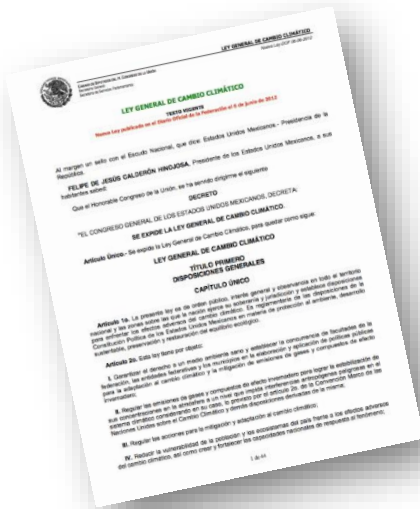
### Infraestructura estratégica



# ADAPTATION AS PART OF THE INSTRUMENTS OF PUBLIC POLICY ON CLIMATE CHANGE

## Objectives of the General Law on Climate Change:

- 1.- Reducing the vulnerability of the population, ecosystems and infrastructure
2. Minimize risk and damage considering the current and future scenarios
3. Identify the vulnerability and capacity
4. Establish mechanisms for immediate attention,
- 5.- Facilitate and promote food security.



## PECC 2014-2018

Diagnosis of current and future vulnerability of Mexico,  
Two objectives, 77 lines of action on adaptation

## THE NATIONAL CLIMATE CHANGE STRATEGY 10-20-40 VISION

3 Strategic axes, and 41  
lines of action

**A1**

Reduce vulnerability and increase resilience of the social sector to the effects of climate change

**A2**

Reduce vulnerability and increase resilience of strategic infrastructure and production systems to the effects of climate change

**A3**

Conserve and use ecosystems sustainably, and maintain the environmental services they provide

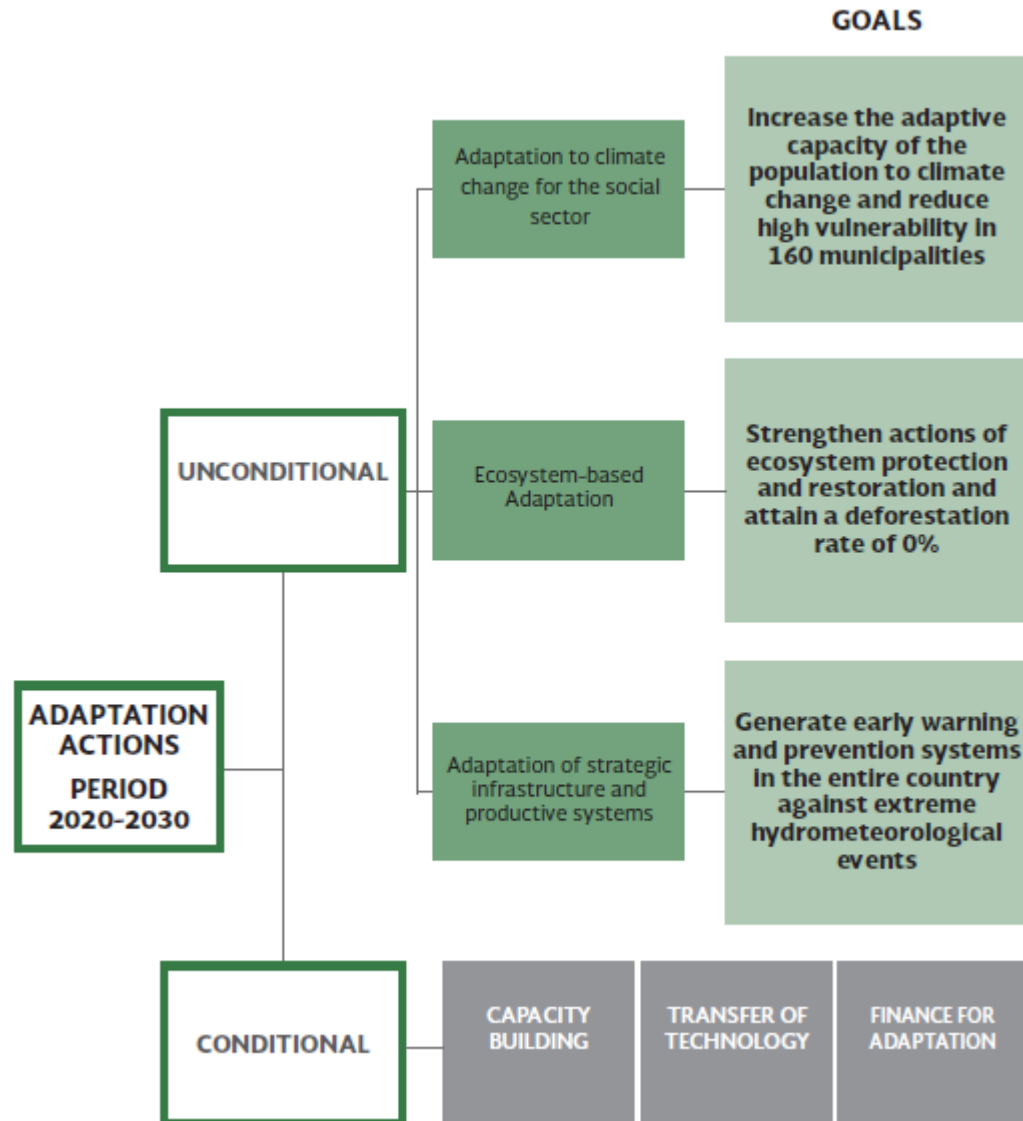
## OBJECTIVE 1

Reduce vulnerability of population and productive sectors and increase its resilience and the resistance of strategic infrastructure.

## OBJECTIVE 2

Conserve, restore and manage sustainably the ecosystem to guarantee their environmental services to promote climate change mitigation and adaptation.

# ADAPTATION COMPONENT, UNCONDITIONED AND CONDITIONED GOALS





# ADAPTATION COMPONENT NDC

- **Social: food security and access to water**, ensure training and participation of society, early warning systems, risk management, financing for disease prevention, epidemiological alerts, vulnerable municipalities, **relocate irregular human settlements in risk areas**.



- **AbE: Rate 0% deforestation**, watershed reforestation, conservation and restoration of ecosystems to **increase connectivity**, species conservation programs, increase carbon sequestration, **coastal protection, integrated water management**.

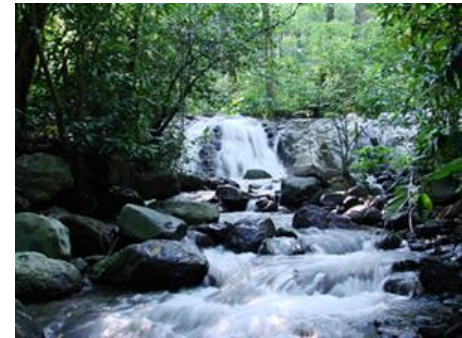


- **Infrastructure and productive systems:** Adaptation criteria in public investment projects, urban and industrial wastewater treatment, adaptation standard in tourist developments in coastal ecosystems, dam safety and hydraulic infrastructure works, sustainable agricultural diversification.



## CAPACITY DEVELOPMENT, TECHNOLOGY TRANSFER AND FINANCING FOR ADAPTATION

- Access to information systems that allow real-time monitoring of hydrometeorological phenomena to consolidate and increase early warning systems.
- Availability of methods and tools to assess the impacts of climate change, vulnerability and adaptation in specific sectors and regions.
- Technology for saving, reuse, collection, irrigation and sustainable management of water resources for agriculture and livestock.
- Technologies to increase the resistance of the road infrastructure and mass transport to the possible impacts of climate change.
- Technologies for the protection of coastal infrastructure and areas bordering rivers





# Immediate Challenges



- Detail and define adaptation and mitigation actions [approaches: system / sector, territory, ecosystems, detailed economic analysis, etc.]
- The “how's?” and the who's?
- Establish a route to implement NDC actions in the period 2020-2030
- Strengthen the current M&E mechanisms according to the ambitious goals that Mexico has propose to the international requirements
- Define mechanisms of financing, technology transfer and capacity building

# THANKS...

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