



OCDE ORGANISATION DE COOPÉRATION ET  
DE DÉVELOPPEMENT ÉCONOMIQUES

# Challenges and Opportunities for a Programmatic Approach to Adaptation in Mexico

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# Outline

- Climate change Impacts in Mexico
- Mexico's Effort to Enable Climate Change Information
- Towards a Programmatic Approach to Adaptation
- Key Challenge

# Climate Change Impacts in Mexico

## Short-term Impacts:

- *High intensity of **tropical storms***

Hurricanes Wilma 2005 and Dean 2007

- ***Extreme weather events***

Floods Tabasco and Chiapas 2007

- Retreat of tropical glaciers

- Coral bleaching events

## + Long-term Impacts:

- Sea-level rise

- Droughts

- Desertification

- Water stress regions

## ***Main Vulnerable Sectors:***

Agriculture, Forestry, Energy, Tourism,  
Coastal Infrastructure, Poverty  
Reduction Strategies, etc.

# Hurricane Wilma

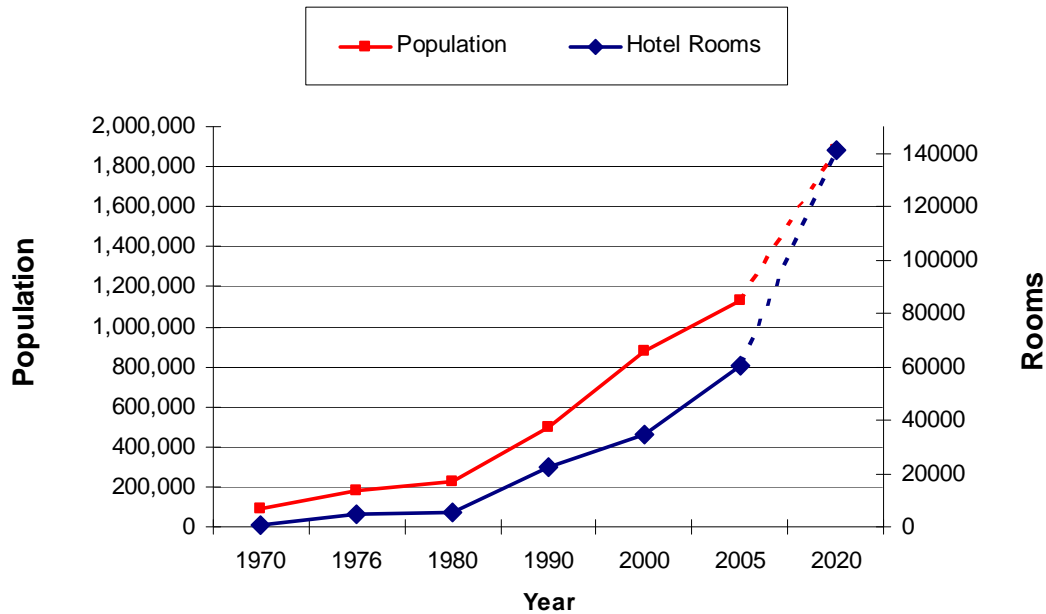


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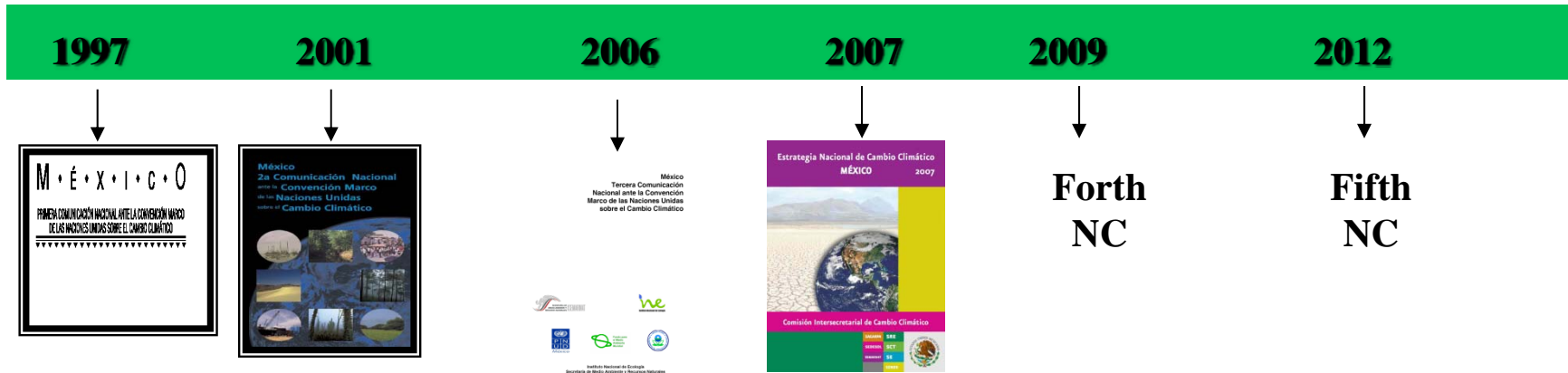


# Maladaptation: Increasing Vulnerability to Climate Change

Population Growth vs. Tourism Sector Growth (# Rooms)



# Mexico's Effort to Enable Climate Change Information



## ***Third National Communication***

- *Fourth NC 2009 and Fifth NC 2012*

## ***National Climate Change Strategy***

- *Special Climate Change Programme (2008-2012)*

## ***States Climate Change Strategies*** / Major Cities Climate Change Strategies

- Veracruz, Nuevo León, Chiapas and Mexico City

# Towards a Programmatic Approach to Adaptation

➤ ***Interministerial Commission on Climate Change-ICCC (7 Ministries + Finance)***

*Lead by the Ministry of Environment*

***Consultative Council on Climate Change***

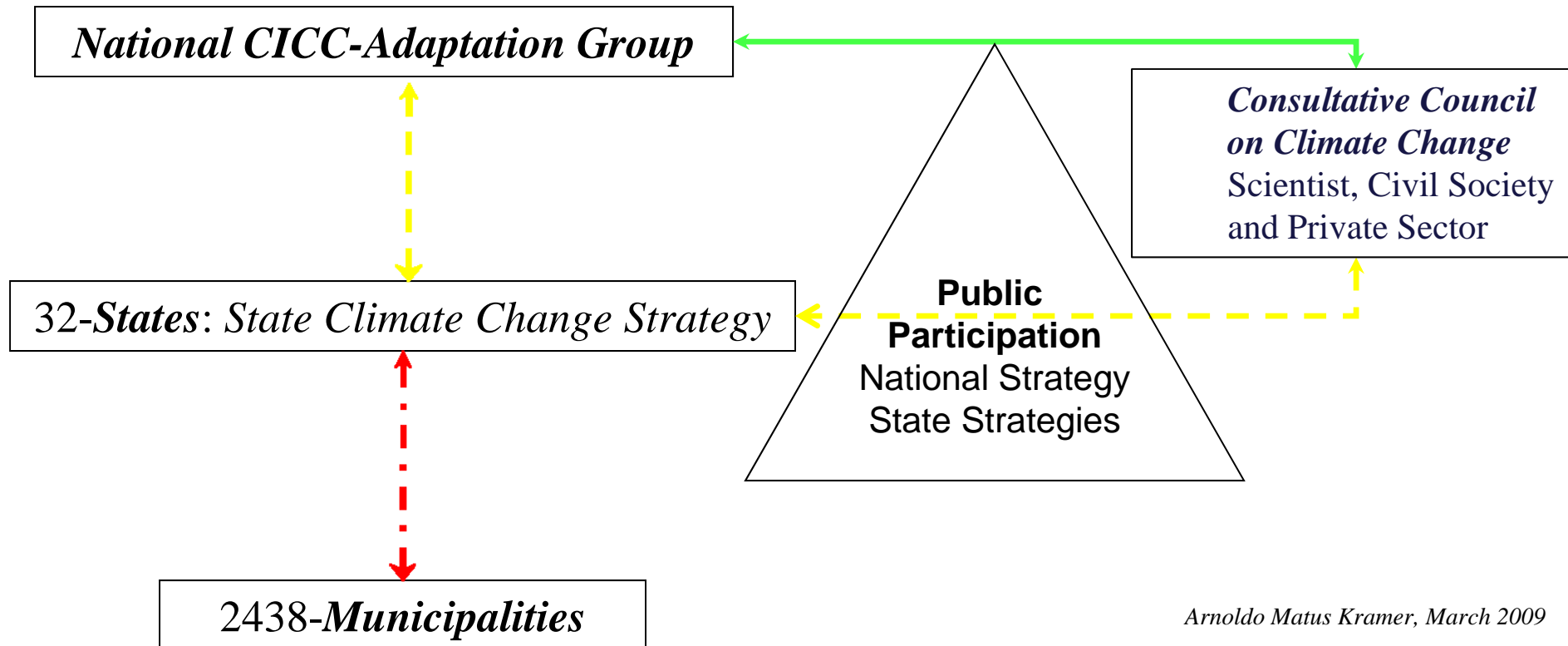
- *Scientist, Civil Society and the Private Sector*

***Adaptation Working Group***

# Institutional Framework

## ***ICCC-Adaptation Working Group***

- *Lead* by INE (Ministry of Environment)
- *Integrated* by 7 Ministries of the ICCC + Finance+ 4
  - *Agriculture, Communications and Transport , Social Development, Economy, Energy, Foreign Affairs, Finance, Interior, Health, Education and Marine*





# National Climate Change Strategy

## Special Programme on Climate Change

### *Adaptation:*

- **Hydro-meteorological risk** management.
- **Climate variability** as a foundation.
- **Cross-sectoral** activities.
- Programme for **climate modelling** as part of a national climate information system.
- **Land use planning.**
- **Budgetary allocations** to emphasise prevention planning.
- **Actions** to reduce **vulnerability** and **strategies** for **adaptation** at the **regional and local level.**
- **Insurance.**
- **Information** and **education.**
- **Human resources.**

# Budget Allocation for Adaptation 2008-2012

## ***Special Programme on Climate Change***

### ***Areas of Investments***

- Disaster Risk Management
- Water Resources Management
- Agriculture, cattle, forestry and fisheries
- Ecosystems
- Energy, Industry and Services
- Transport and Communications Infrastructure
- Land-use management and Urban development
- Health Sector

## ***Challenge***

- BAU vs. Budget Allocations with long-term climate change considerations
- Monitoring and Evaluations System:
  - Are we reducing national, sectoral, or local vulnerability to Climate Change?
  - Are we moving from a project base approach to a more programmatic approach to adaptation?

## ***Dialogue for the Construction of Agreements: Climate Change and National Security***

### ***First Regulatory Assessment Considering Climate Change Adaptation and Mitigation:***

- *Poverty and Inequality*
- *Water Resources*
- *Ecosystems and Biodiversity*
- *Land-use management*
- *Sustainable Economic Development*

### **Challenges**

- *68 Proposals*
- *Risk of not achieving real legislative changes*
- *Hard to build consensus in a highly divided Congress*

# Some of the Proposals:

- ✓ Recognize in the Constitution Climate Change as a subject of National Security
- ✓ Regulate the construction in coastal areas and island with considerations of climate change impacts.
- ✓ Regulate the permitted distance from the coastline for build infrastructure.



# Mainstreaming Adaptation: State Climate Change Strategy

- *Pilot Strategy State of Veracruz*
  - Nuevo León, Chiapas + 8 States (2012)



Examples of **Adaptation** measures proposed:

- ✓ Programme to prevent vector borne diseases associated with climate change
- ✓ Alert system for heat waves and extreme rainfall events
- ✓ Reforestation and ecological restoration of wetland to protect coastal tourist destinations.

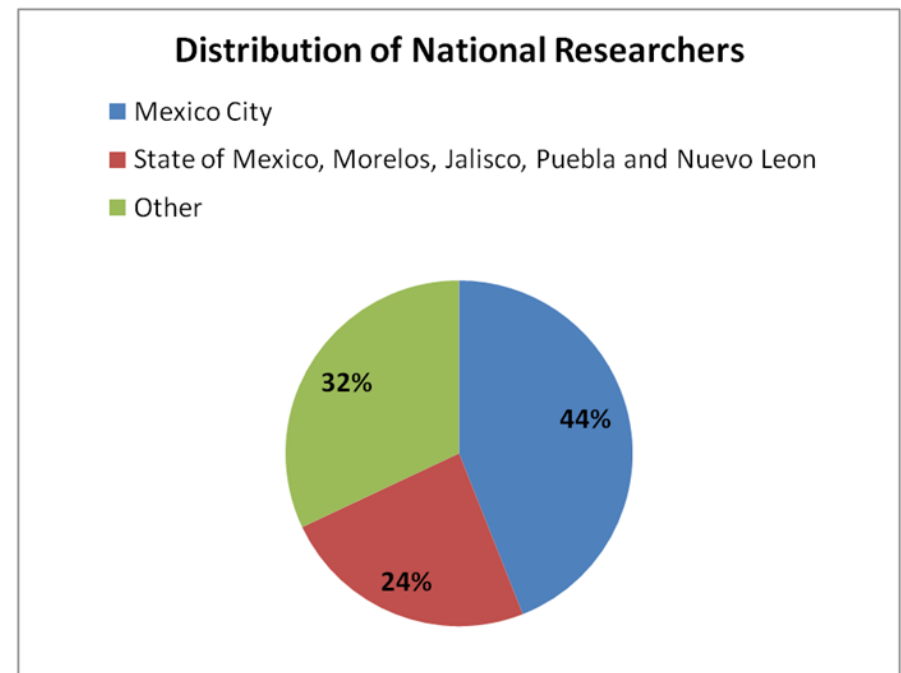
## *Challenges*

- *Low technical capacities in some States*
- *Low local (municipalities) input*
- *To much mitigation and less adaptation*



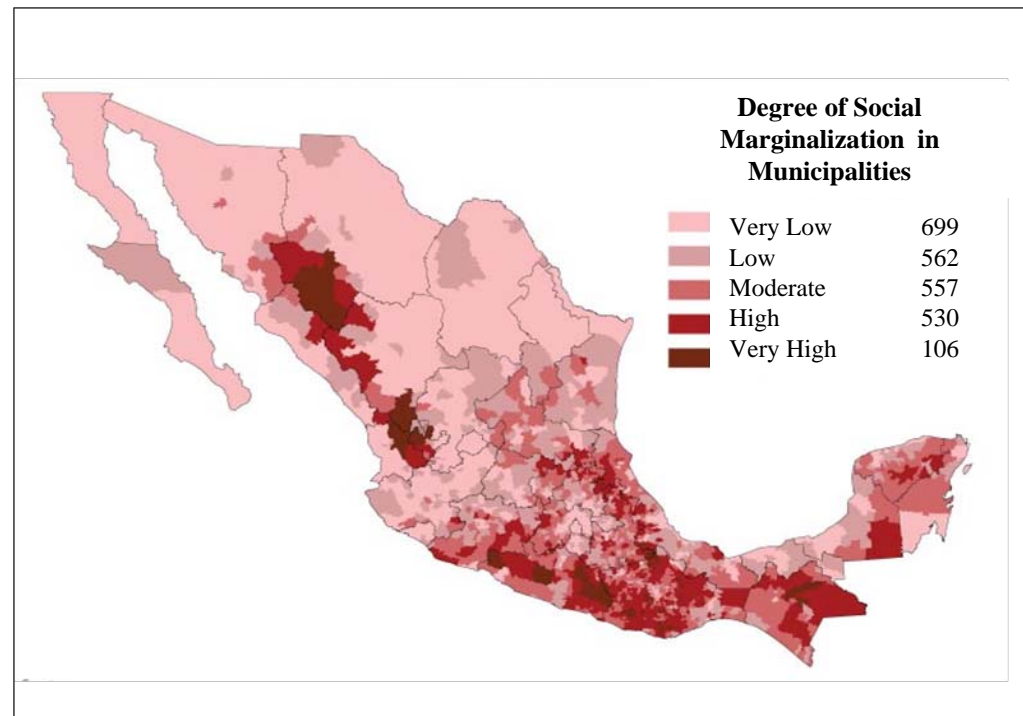
# Information Constraints and Technical Capacities

- Key to Develop relevant information for decision-making process
- High concentration of human resources for research in a few States
- High mobility of human resources at the local level (municipalities)



# Key Challenges

- Relevant climate change information for decision-making process
- Mainstreaming adaptation
- Low technical capacity for dealing with climate change in some regions and most municipalities
- Delaying key adaptation measures for short-term considerations and uncertainties
- Losing a sustainable interest of high level decision-makers
- Not achieving needed regulatory and policy changes to avoid maladaptation and increasing social vulnerability (e.g. coastal infrastructure)



# Thanks

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