COP13-COPMOP8-COPMOP2
CANCUN, MEXICO 2016
MAINSTREAMING BIODIVERSITY FOR WELL-BEING

INECC

Evento Paralelo: Adaptación basada en Ecosistemas: un vínculo entre biodiversidad conservación y adaptación al cambio climático

C6 cuencas costeras y cambio climático

Conservación de humedales costeros en el contexto de cambio climático

Caso de estudio

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Coastal watersheds conservation in the context of climate change

C6 cuencas costeras y cambio climático

The objective is to promote integrated management of the coastal watershed to preserve biodiversity as well as adaptation and mitigation to climate change

It operates with resources from the Global Environment Facility (GEF) managed by the World Bank

c6.org.mx

¿Why watershed approach for terriorial planning?

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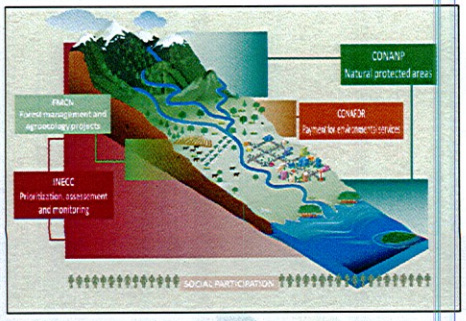
- **Water resources impacted by human activities and climate change will increase the vulnerability** of human activities and ecosystems. (IPCC, MA, CONAGUA)
- Water resource management schemes must **integrate the projections of climate change in the design** and operation of investments and programs

Integrated management of the watersheds will increase the potential for adaptation to climate change considering the supply and demand of essential **environmental services**

Highlight of the project:

•Collaboration between three public institutions (CONANP, CONAFOR and INECC) and one private (FMCN) is an innovative component that seeks to trigger processes of implementation of integrated action in the context of watershed management.



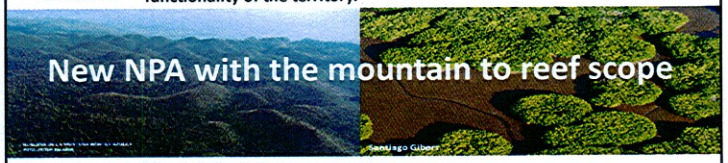
CONANP
Strengthening of Natural Protected Areas

CONAFOR
Payment for ecosystems services

INECC
Prioritization of good management practices, climate change analysis

FMCN
Sub-projects and financial management

1. Connectivity between Natural Protected Areas located in the upper and lower parts of the watersheds is promoted, in order to improve the functionality of the territory.



- Promote sustainable practices in productive activities in the NPAs
- Birds and mammals monitoring programme (SAR-MOD)
- Activities to reduce pressure in conservation areas
- Inspection and surveillance programmes
- Conformation of community surveillance committee
- Forest fire control programmes
- Park ranger experience sharing (among the two gulf)
- Workshops with tour operators

2. 32 selected sub-projects, focus on sustainable forest management and agro- ecological systems to implement the most appropriate management practices in the watersheds

Topics:

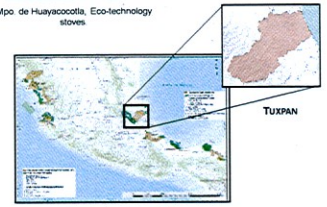
- Restoration of rainforest, mesophile, pine, pine-oak fores
- Promote silvopastoral practices.
- Sustainable coffee cultivation.
- Promote connectivity between vegetation patches.
- Agroecological forestry systems.
- Reinforcement of the communities plant nurseries.
- Promote spaces for community governance.
- Land-use planning.

Sub-projects. Example 1


Mpo. de Huayacocotla, Eco-technology stoves


Mpo. de Zacualpan. Species enrichment., Biotechology. Rainforest


Mpo. de Zacualpan. Plant nurseries



Coastal watersheds localization

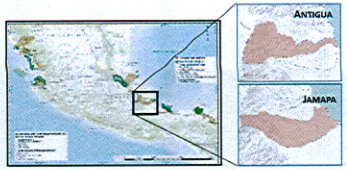

Sustainable grassing, protein banks., live fence (connectivity rainforest patches)

Sub-projects. Example 2

Mpo. de Ixhuatlán del Café. Private áreas for conservation

Municipio de Teocelo. Ornamental plants, for alterantive income

Mpo. de Huatusco. Coffee crops management

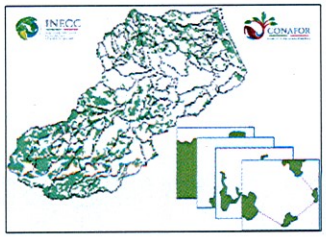


Localización de las cuencas costeras del proyecto C6

Mpo. de Perote. Forest restoration. Parque Nacional Cofre de Perote.

3. Increase territorial connectivity to mitigate climate change and preserve the habitat of priority species

Payment for ecosystems services considering watershed connectivity



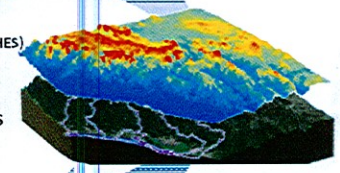
Patrimonial fund for the conservation of biodiversity

4. Design of watersheds management PLANS

Integrated management of watersheds.

Aproaches:

- water as the unifying resource in the territory
- Prioritization of areas for intervention
- Coordination of stakeholders (common vision)



Evaluation of hydrological-environmental services (HES)

- It identifies the key elements that provide the **HES**
- It **relates areas of supply and demand** for HES

Integration of potential impacts due to climate change projections on supply and demand for HES

Adaptation processes

4. Design of watersheds management PLANS

"... an instrument that reflects the territorial dynamics for the supply and demand of environmental services, in order to focus actions of sustainable and adaptive management"

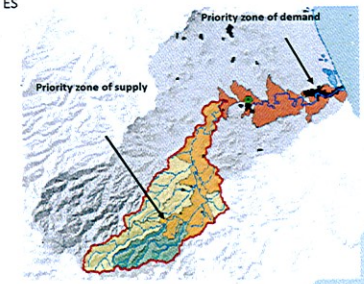
Identifies relations of supply and demand of ES

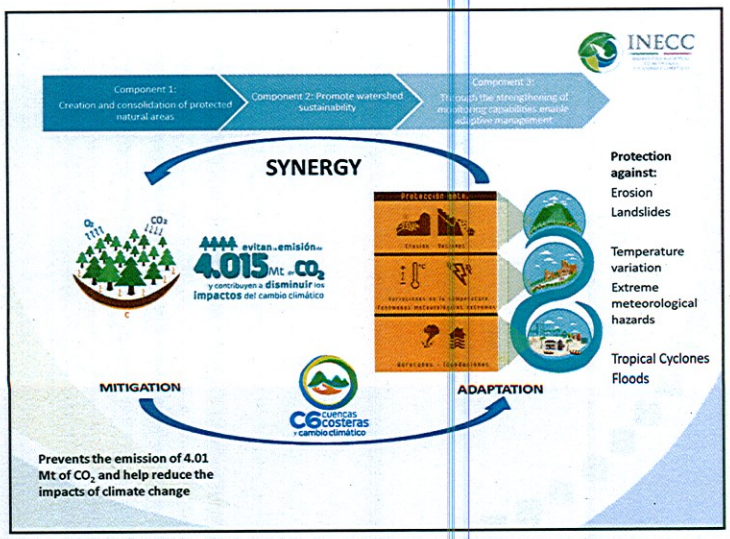
WHAT TO DO?

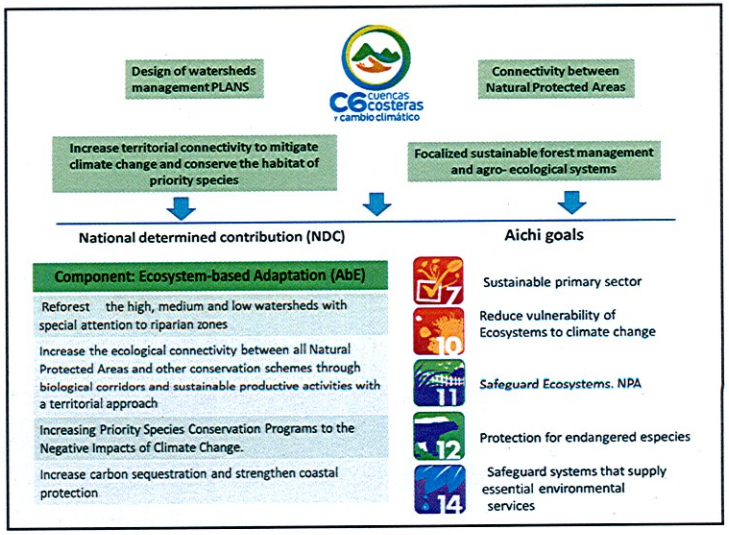
WHERE TO DO?

WHO CAN DO IT?

HOW MUCH?




INECC
Component 1: Creation and consolidation of protected natural areas
Component 2: Promote watershed sustainability
Component 3: Through the strengthening of monitoring capabilities enable adaptive management
SYNERGY
avitan emisión de 4.015 Mt de CO_2 y contribuyen a disminuir los impactos del cambio climático
Protección contra:
MITIGATION
ADAPTATION
C6 cuencas costeras y cambio climático
Protection against:
Erosion
Landslides
Temperature variation
Extreme meteorological hazards
Tropical Cyclones
Floods
Prevents the emission of 4.01 Mt of CO_2 and help reduce the impacts of climate change


Design of watersheds management PLANS
C6 cuencas costeras y cambio climático
Connectivity between Natural Protected Areas
Increase territorial connectivity to mitigate climate change and conserve the habitat of priority species
Focalized sustainable forest management and agro- ecological systems
National determined contribution (NDC)
Aichi goals
Component: Ecosystem-based Adaptation (AbE)
Reforest the high, medium and low watersheds with special attention to riparian zones
Increase the ecological connectivity between all Natural Protected Areas and other conservation schemes through biological corridors and sustainable productive activities with a territorial approach
Increasing Priority Species Conservation Programs to the Negative Impacts of Climate Change.
Increase carbon sequestration and strengthen coastal protection
7 Sustainable primary sector
10 Reduce vulnerability of Ecosystems to climate change
11 Safeguard Ecosystems. NPA
12 Protection for endangered especies
14 Safeguard systems that supply essential environmental services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