

Building adaptation solutions from IWRM and EbA

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Session 4. Adaptation planning and practices.

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Water, ecosystems & climate change

Water is at the centre

Impact	Infrastructure	Services
droughtfloodstormsmelting icesea-level rise	lakes & upland soilsfloodplainswetlandsgroundwatermangroves & sediments	storagesupplyflood controldisaster protectioncoastal defence

- Ecosystems provide vital services... the 'natural infrastructure' for adaptation
- What has IWRM taught us about adaptation and the role of ecosystems?
 - what needs to be done
 - how it needs to be done
- Where does EbA fit into adaptation planning?



IWRM and adaptation strategies

Sustainable river basin management is implemented to strengthen equitable economic development, food security, climate resilience and protection of the environment

- Hydrology: appropriate observing pattern of change
- Appropriate scope for adaptation thinking
- Adaptation is learning by doing
- Platform of stakeholders







EbA builds adaptation solutions for water resources management

Ecosystem-based adaptation (EbA) is the use of biodiversity and ecosystem services as part of an overall adaptation strategy to help people to adapt to the adverse effects of climate change*.

- Assuring ecosystem services and natural infraestructure
- Reduces the vulnerability of local communities to climate change.



^{*} CONNECTING BIODIVERSITY AND CLIMATE CHANGE MITIGATION AND ADAPTATION- Report of the Second Ad Hoc Technical Expert Group on Biodiversity and Climate Change under the Convention on Biological Diversity (CBD).

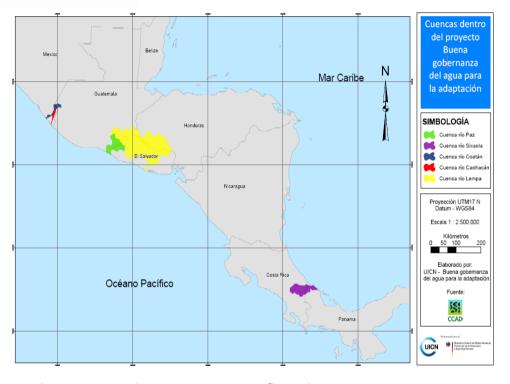


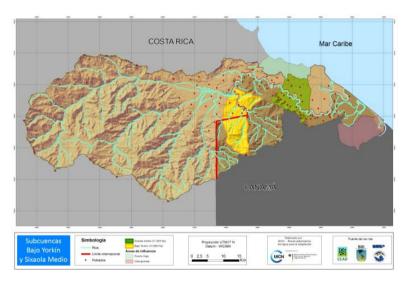
IUCN demonstration actions around the world

- ☐ From micro-basin to transboundary basins
- ☐ Learning by doing: action
- Building capacities for water governance
- □ Assuring environmental services



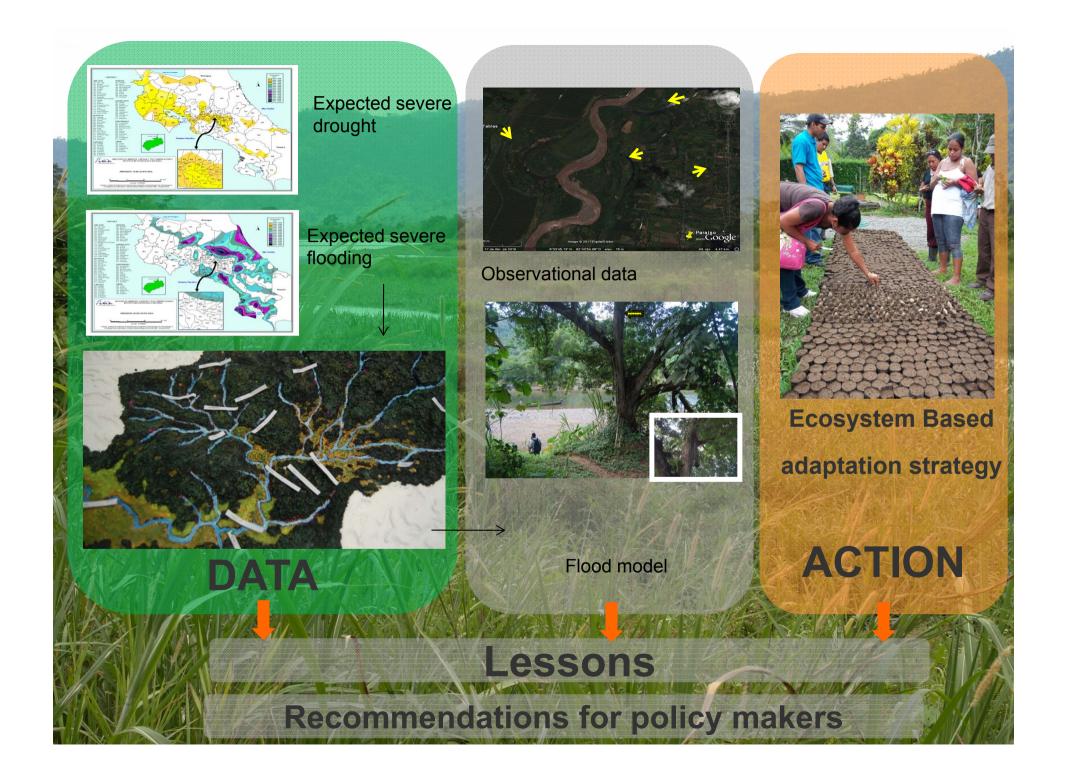
Action on the ground in a transboundary context Sixaola River Basin





- Transboundary pilot sites
- Indigenous territory

- Intense rains, recurrent floods
- Livelihoods: mono agriculture banana plantations (affected by floods)
- One of the most vulnerable area





Adaptation planning in action



Pilot sites identification



Stakeholder identification



building
CRISTAL
application
and
validation
with

communities



climate
change
governance
mechanisms
Study
&
Climate
SCENARIOS



Elaboration of adaptation action plan



Implementation and bringing lessons to policy makers

Learning approach: learning by doing



Thanks

Ecosystem based solutions are our best option to cope with climate change

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