Incorporating Climate Change in the EIA process:

Tools for climate risk management

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Overview

- The case for integrating climate change in EIA
- Decisions and uncertainties in EIA
- Climate change mainstreaming tools
 - Screening for risks
 - Adaptation guidance
 - Mitigation guidance
- Factors enabling climate risk mainstreaming
- Key messages

The case for integrating climate change in EIA

EIA is a systematic process to predict future consequences...

• Historic climate no longer best predictor

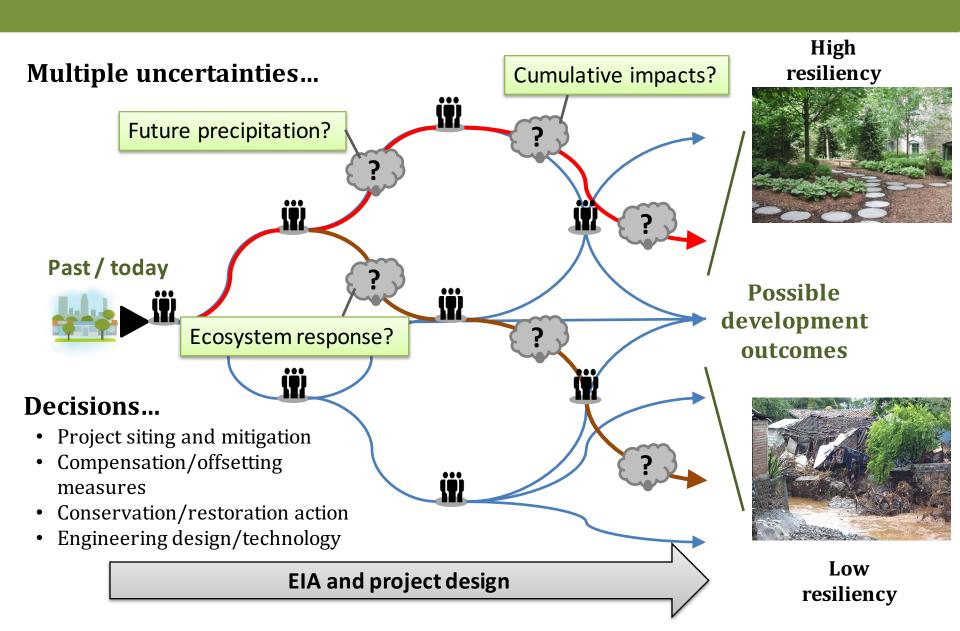
- Exacerbation of risks
- Affects environmental performance
- Increases uncertainty in prediction of impacts

EIA is a planning and regulatory tool extensively applied...

Development has implications both on emissions of greenhouse gases and on the vulnerability of societies and the environment to climate change.

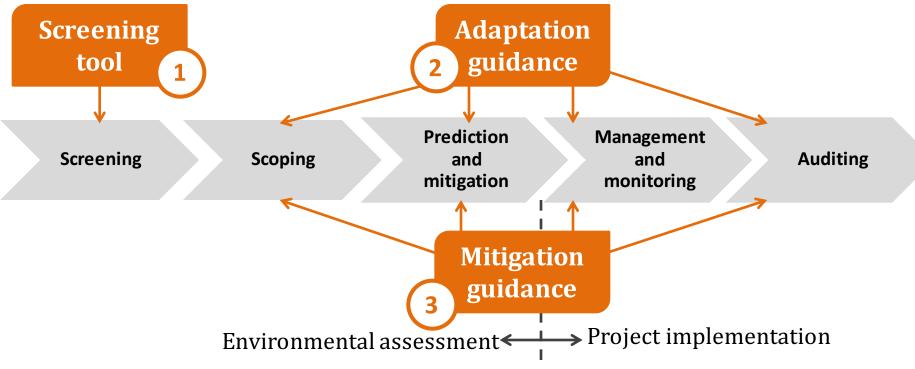
(Agrawala et al. 2010)

Decisions and uncertainties in EIA



Climate change mainstreaming tools

Identification of entry points in the EIA process:





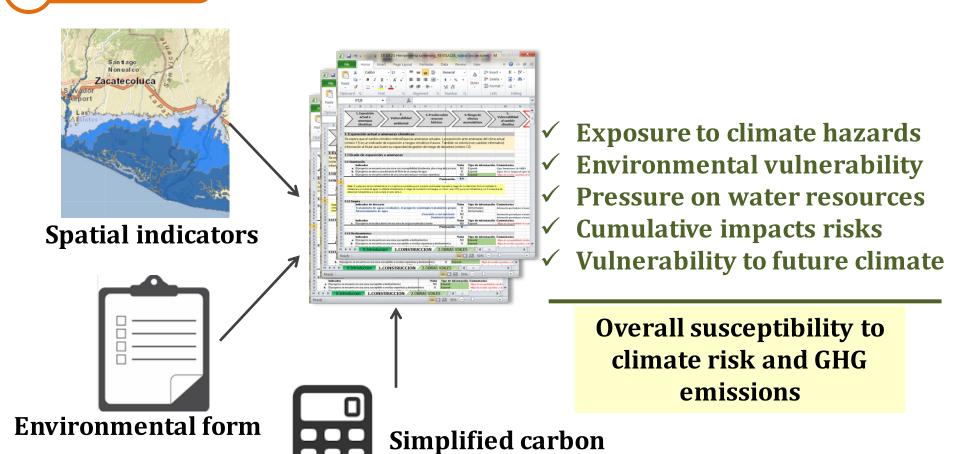
Project: Institutional strengthening and tools to address climate vulnerability in El Salvador



Climate change mainstreaming tools Screening for risks

Screening tool

- ✓ Is the project susceptible to climate risks?
- ✓ Will the project involve high GHG emissions?



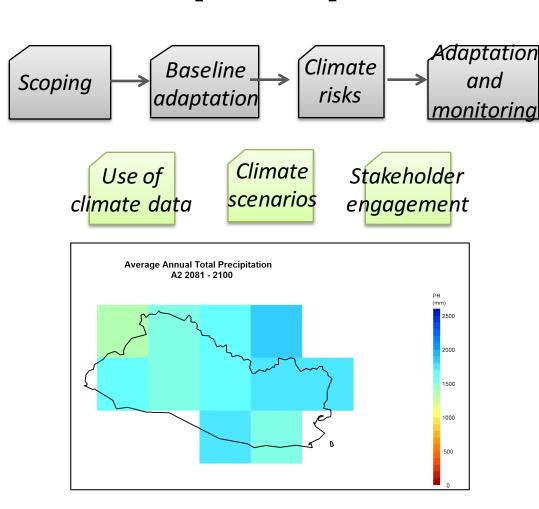
calculator

Climate change mainstreaming tools Adaptation guidance

Adaptation guidance

- ✓ Identify and assess climate risks
- ✓ Identify and select adaptation options



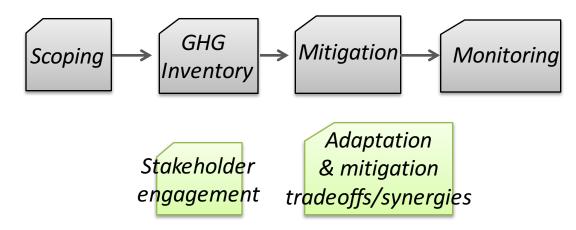


Climate change mainstreaming tools Mitigation guidance

Mitigation guidance

- ✓ Identify and assess GHG emissions
- ✓ Identify and select mitigation options

- ✓ Process-based tool
- ✓ Captures best practice on GHG accounting
- ✓ Sectoral considerations
- ✓ Lack of regulatory framework for GHG emissions





Factors enabling climate change mainstreaming in EIA

- ✓ **Institutional context**: opportunities when EIA frameworks are changed/updated.
- ✓ Availability and easy access of information/data; especially downscaled projections and regional studies).
- ✓ **Consolidated body of practice**: need for guidance and training of EIA practitioners and update mechanisms of tools/materials.

Key messages

- ✓ **Uncertainties are pervasive** and unavoidable when preparing for the impacts of climate change; uncertainties matter to decision making.
- ✓ Despite its limitations, **EIA** is a good **vehicle for climate change mainstreaming** due to its generalized application and established practice.



Thank you!

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