Training courses on Ecosystem-based Adaptation (EbA)

Training A:

Mainstreaming Ecosystem-based Adaptation to Climate Change into Development Planning

Training B:

Valuing the Benefits, Costs & Impacts of EbA Measures – Tools for enhancing climate adaptation decision-making

On behalf of:



Federal M for the En and Nucle

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

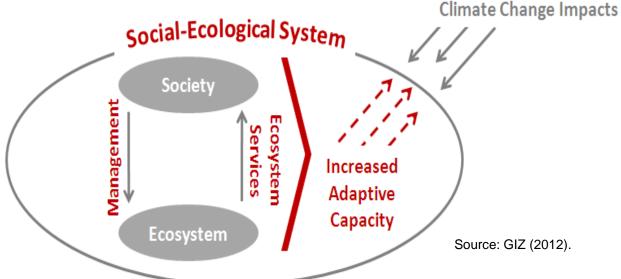
The concept of EbA

"Ecosystem-based Adaptation 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."



Source:

Convention on Biological Diversity. (2009). Connecting Biodiversity and Climate Change Mitigation and Adaptation: Report of the Second Ad Hoc Technical Expert Group on Biodiversity and Climate Change. CBD Technical Series 41, Montreal, Canada. <u>https://www.cbd.int/doc/meetings/cc/ahtegbdcc-02-02/official/ahteg-bdcc-02-02-06-en.pdf</u>



EbA is a powerful instrument for effective climate change adaptation and a holisitc development approach.

To better expoilt the great potential of EbA it needs to be **fully mainstreamed** into development policy and practice.



Source:

GIZ (2018). Solutions in Focus: **Ecosystem-Based Adaptation from** Mountains to Oceans. How people adapt to climate change by using nature. Bonn and Eschborn, p. 10-11. Graphic: Ira Olaleye, adapted from FLMH based on © 2016 Marco Giudice and Francesca Coati (www.image-illustration.net).



Germany: Isar-Plan: Improving flood protection and recreational opportunities by redesigning the Isar River

www.panorama.solutions

Source:

Cities & Coasts

Examples for EbA measures

Graphic: Ira Olaleye, adapted from FLMH based on © 2016 Marco Giudice and Francesca Coati (www.image-illustration.net).

Mountains



Peru: Restoration of mountain wetlands for improving water distribution

Rivers



Congo DRC: Reduce soil/gulley erosion and flood risks via integrating EbA approaches in the Lukaya Basin IWRM planning Tailor-made, practice-oriented training courses offered by GIZ:

(A) Mainstreaming Ecosystem-based Adaptation (EbA) to Climate Change into Development Planning

(B) Valuing the Benefits, Costs & Impacts of EbA Measures – Tools for enhancing climate adaptation decision-making

Target group of the training modules:

Government planners and policy-makers, NGO and civil society representatives, researchers and academics as well as technical staff from development projects.

Ideally, a group of 8-20 participants will be facilitated by **two trainers**. Trainings are available in **English and Spanish**.

Training A: Mainstreaming Ecosystem-based Adaptation (EbA) to Climate Change into Development Planning

- *Learning objective:* Enhancement of capacities among development partners in successfully tapping the potential of ecosystem services for climate change adaptation.
- *Core Modules:* (1) Introduction to the key elements of EbA
 - (2) Assessment of vulnerabilities and risks in complex & coupled socioecological systems
 - (3) Selection of EbA options & design of EbA measures
 - (4) EbA-specific monitoring and evalution

Duration of the training: 1-4 days depending on specific needs and focus of the training

Training B: Valuing the Benefits, Costs & Impacts of EbA Measures – Tools for enhancing climate adaptation decision-making

Participants of Training B should have basic knowledge on EbA.

Learning objective: Building of awareness and knowhow about why, how and in which contexts EbA assessment and valuation can be used to strengthen climate adaptation planning and implementation in different decision-making contexts.

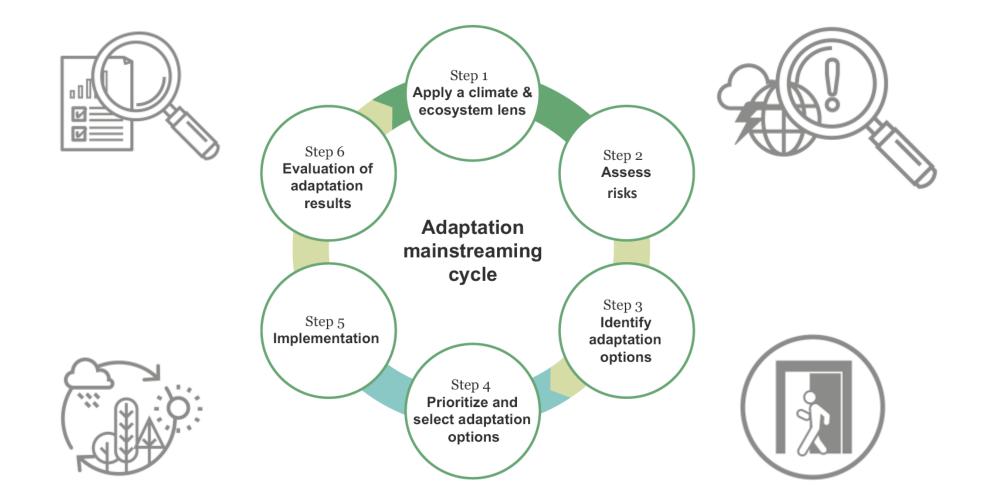
Core Modules:

- (1) Identifying needs, opportunities & frameworks for EbA valuation
 - (2) Selecting and applying valuation methods (including measurement methods for biophysical effects, economic costs and benefits, as well as social and institutional outcomes)
 (3) Delivering decision-support

Duration of the training: 2,5 days, length can be adapted according to demand

Set-up of Training A and B:

Both trainings are orientated towards the 6 steps of the so called *adaptation mainstreaming cycle*



Exemplary insights into Training A:

Mainstreaming Ecosystem-based Adaptation (EbA) to Climate Change into Development Planning

EbA in the Paris Agreement (Article 7 – Adaptation)

2. (…) adaptation is a key component (…) to protect people, livelihoods and ecosystems (…)

PARISZOIS

COP21. CMPI

5. (...) **adaptation actions** should follow a country driven, gender responsive, participatory and fully transparent approach taking into consideration **vulnerable groups**, **communities** and **ecosystems** (...)

9. Each party shall (...) engage in **adaptation planning** and (...) **implementation** (...) which may include (...)

(c) The assessment of climate change impacts and vulnerability (...) taking into account vulnerable people, places and ecosystems;
(e) Building the resilience of socioeconomic and ecological systems, incl. through economic diversification and sustainable management of natural resources





Ecosystem-based adaptation (EbA) in the context of an overall adaptation strategy



Modul 1: Introduction to the training & principles of EbA - Session B: Basics of EbA

Modul 1: Introduction to the training & principles of EbA - Session C: The EbA mainstreaming cycle

Exemplary insights into Training A:

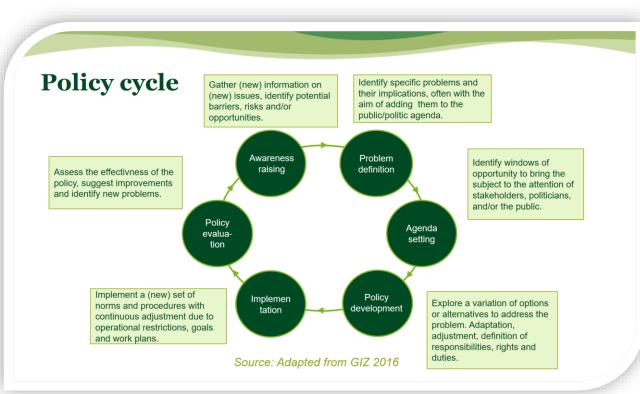
Mainstreaming Ecosystem-based Adaptation (EbA) to Climate Change into Development Planning



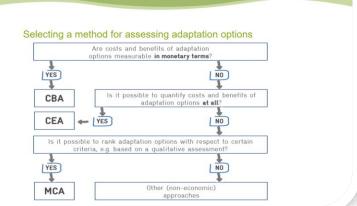
Module 1: Introduction to the training & principles of EbA – Complementary session C4: Case studies

Exemplary insights into Training A:

Mainstreaming Ecosystem-based Adaptation (EbA) to Climate Change into Development Planning



Module 2: Scoping and vulnerability and risk assessment -Session B: Policy arena and relevant entry-points for EbA



Module 3: Design and selection of options and measures – Session B: Choosing and prioritizing



Module 4: Monitoring and Evaluation – Session B: Indicator development

Exemplary insights into Training A: Mainstreaming Ecosystem-based Adaptation (EbA) to Climate Change into Development Planning

Group work: Landscapes Lagoonia and Mountains





@EbA Mainstreaming Training in Germany 2018



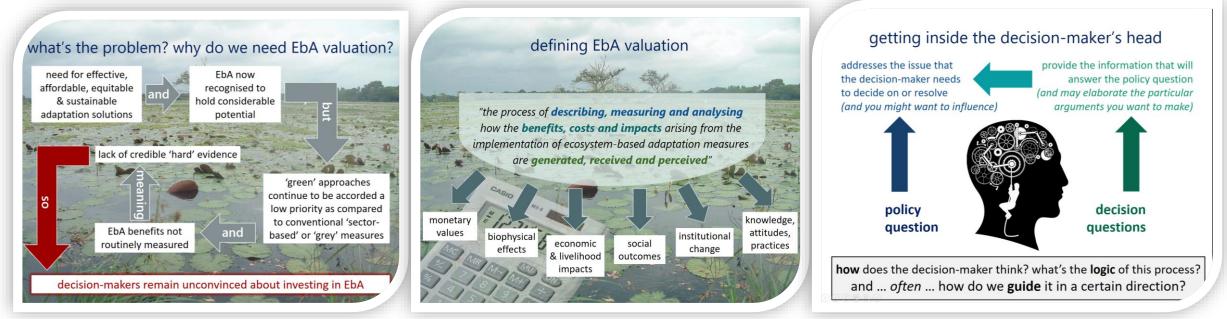
@EbA Mainstreaming Training in Jordan 2018



@EbA Mainstreaming Training in Italy 2017

Exemplary insights into Training B:

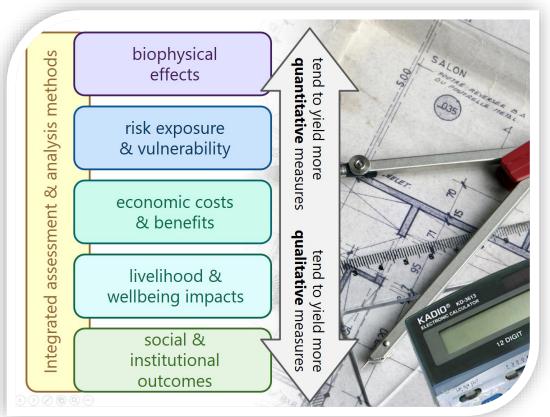
Valuing the Benefits, Costs & Impacts of EbA Measures – Tools for enhancing climate adaptation decision-making



Module 1: Defining the purpose – when, why & where to value EbA benefits

Exemplary insights into Training B:

Valuing the Benefits, Costs & Impacts of EbA Measures – Tools for enhancing climate adaptation decision-making



Module 3: Bird's eye view of valuation methods

- clusters and categories

Cost-effectiveness analysis

which option has the lowest cost per unit of output (\$ spent/unit of output)? ... or ... gives the highest benefits for the money spent (*output units/\$ spent*)? (measures benefits and values costs)







Option 1: beach nourishment. groynes & breakwaters **Cost:** \$15 million over 10 yrs

Option 2: relocate key roads & settlements inland Cost: \$75 million over 10 yrs Benefit: 300,000 households Benefit: 750,000 households

Option 3: restore & conserve mangroves Cost: \$3 million over 10 yrs Benefit: 150,000 households

Part Cost-effective option in terms of \$ spent/benefit generated?

Module 5: Methods of measuring economic values

Exemplary insights into Training B:

Valuing the Benefits, Costs & Impacts of EbA Measures – Tools for enhancing climate adaptation decision-making

commonly-used social & institutional valuation methods

key concern is to find methods based on stakeholders' own views, priorities and preferences, expressed through locally-meaningful metrics & indicators:

- livelihood analysis
- PRA (informant interviews, focus groups, ranking, weighting, mapping, seasonal calendars, etc.)
- agent-based models
- stakeholder mapping & assessment
- social network analysis
- institutional and context analysis
- etc.

Module 6: Methods for measuring social and institutional outcomes



relevance: the applicability of valuation findings to the needs of adaptation planners, managers and policy-makers

credibility: the technical adequacy and believability of the evidence and arguments presented on the effectiveness of ecosystem-based approaches

legitimacy: the perceived validity and trustworthiness of both the EbA valuation process and its results as being fair, unbiased, and respectful of stakeholders' divergent values and beliefs.

Module 7: Enhancing the strategic impact of EbA valuation – leveraging decision change & influence



For further information regarding the training contact the global project on Mainstreaming EbA.

For publications and further resources please visit:

www.AdaptationCommunity.net



