








UNFCCC SB48 Side Event  
**3rd EbA Knowledge Day**  
Moving from pilots to mainstreaming –  
opportunities and challenges of scaling up Ecosystem-based Adaptation



07 May 2018 / 9:00am-05:00pm / GIZ Office, Bonn Friedrich Ebert Allee 36 (Room "Donau", Mäanderbau)

Implemented by **giz** German Development Cooperation

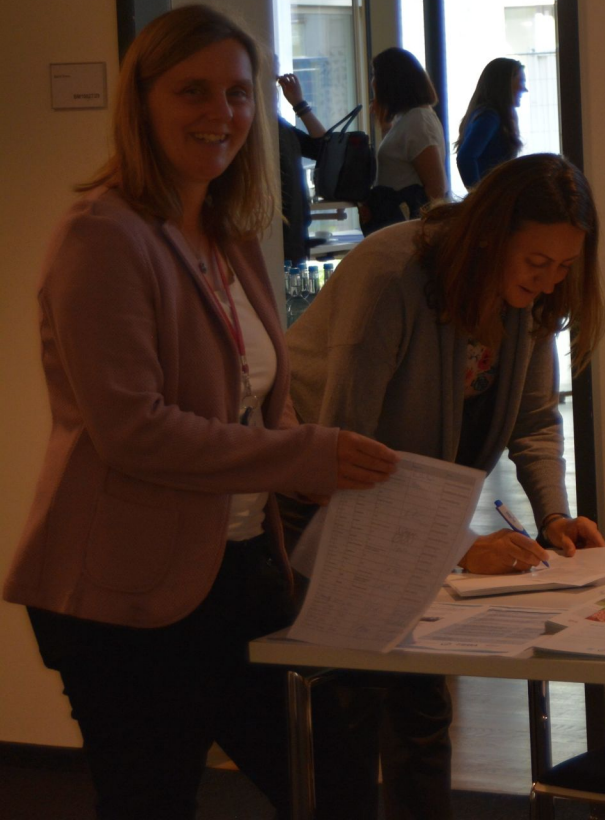


**FEBA**  
Forum of Ecosystem-based Adaptation

Co-located at  
United Nations  
Office for World Inequality  
and Human Rights  
of the Federal Republic of Germany

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# Mainstreaming EbA

## Strengthening Ecosystem-based Adaptation in Planning and Decision Making Processes



Initiative (IKI)

Day –  
Scaling EbA

ate Finance,  
Initiative

Seite 1

Lea Herberg  
(giz, Germany)

Sarah Koster  
GIZ Germany

giz



### Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change



of Asia", are fast retreating  
ation addresses  
s by:  
capacities of communities and ecosystems  
ibilities by promoting sustainable  
gity and know

## Facilitating finance

### Projects

- Ecosystem-based Adaptation to Climate Change in cooperation with the private sector in Mexico (GIZ)
- EbA facility in the Caribbean as part of the CBF (KfW)
- Microfinance for EbA (UN Environment)



07.05.2016

Seite 3



## Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change



Ecosystem based Adaptation addresses Climate Change impacts by:

- Increasing adaptive capacities of communities and ecosystems
- Decreasing vulnerabilities by promoting sustainable livelihoods
- Enhancing capacity and knowledge of state, civil society and community on climate adaptation
- Implementing EbA tools and methodologies at national and local levels



Leif Nerberg  
(GIZ, Germany)

## What do we mean by 'upscaling'?

FEBA  
Forum of Ecosystem-based Adaptation

We understand **upscaling** as the “replication of innovative, tried and tested approaches on a wider scale”.

It can cover..

“horizontal upscaling” into different sectors, regions and  
“vertical upscaling” into policies and strategies.



Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of  
an overall adaptation strategy to help people adapt to  
the negative effects of Climate Change



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# Panel Discussion Session 1







# Panel Discussion Session 1





A man with glasses, wearing a grey suit jacket over a light blue shirt and grey trousers, stands at a podium. He is holding a microphone in his right hand and gesturing with his left hand. The podium has a laptop and a nameplate. Behind him is a tall banner with the IUCN and CEM logos. The banner text reads: 'Ecosystem based Adaptation' and 'Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to climate change'.

A woman in a dark blue sleeveless top stands at a podium with a laptop. The podium has a 'giz' logo. Behind her is a tall banner with a quote: '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.' (IPCC, 2006). The banner also features the GIZ logo and some smaller text.



# Panel Discussion Session 1



Sandra Brühlmann  
(Swiss Development  
Cooperation)



...ould Chih  
(...y, Germany)

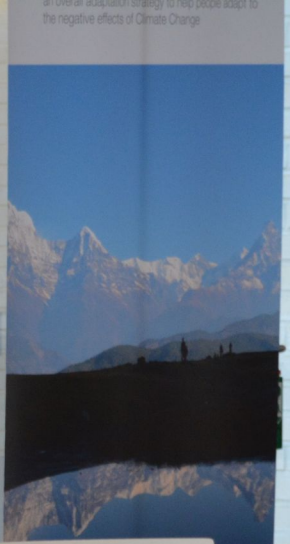




# Session 1



Karin Hoff-Ohl  
(RW, Germany)





**THE SOCIAL DIMENSION OF SEA IN COLOMBIA**  
Professor's Results of 2017 Year Research 2018

NAME TAG

NAME TAG





**KNOWLEDGE SHARING**  
ECOSYSTEM BASED ADAPTATION

- 1. Knowledge Integration
- 2. Policy & Law
- 3. Implementation & Monitoring

# THE SOCIAL DIMENSION OF EBA IN COLOMBIA

Preliminary Results of DIE Field Research 2018

## 1 Introduction

Despite many EBA projects being implemented worldwide, there is a lack of demonstrable evidence of either the effectiveness of EBA approaches in meeting adaptation goals or the delivery of other ecosystem services to benefits that are considered to be:

- 1. What kinds of social benefits and costs do EBA projects deliver across different scales?
- 2. How are the benefits and costs distributed among individuals and communities?

## 2 Case studies

Decision-based Adaptation to Climate Change in the Central City of Cali

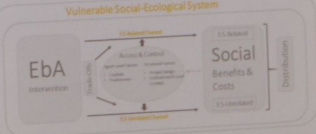
The DIE Field EBA project supports national and local activities with integrating the approach of ecosystem-based adaptation to climate change into other policies, plans and strategies.

## 3 Integrated National Adaptation Plan

The integrated national adaptation plan (INAP) is a key policy instrument for the construction and the design of the National Adaptation Plan (NAP) in Colombia.

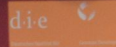


## Conceptual Framework



- EBA Generated Social Benefits:** Knowledge of Ecosystem Services, Improved Resilience, Improved Livelihoods, Improved Health, Better Resource Management, Strengthening Institutions.
- EBA Related Social Costs:** Change for the Better, Social Exclusion, Market Integration, Market Risks.
- EBA Generated Social Costs:** Increased Vulnerability, Increased Inequality, Social Exclusion, Opportunity Costs.

@Colombia-RT #Esocial








Approaches to scaling up success  
-a marine perspective-

Solution Sharing on the PANORAMA platform



[www.panorama.solutions.eu](http://www.panorama.solutions.eu)

Thematic Portals

Protected areas	Marine and coastal
Ecosystem based Adaptation	Agriculture and food security



BLUE SOLUTIONS



Blue Solutions logo and text.



Blue  
Fair

PANORAMA  
Solutions for



PANORAMA logo at the top. A speech bubble contains the text: "What if we could learn from each others success?". Below the banner, there is a QR code and the text "Ecosystem Solutions Partnership".



## Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change



Himalayan ice caps, "the Water Tower of Asia", are fast retreating

Ecosystem based Adaptation addresses Climate Change impacts by:

- Increasing adaptive capacities of communities and ecosystems
- Decreasing vulnerabilities by promoting sustainable livelihoods
- Enhancing capacity and knowledge of state, civil society
- Enhancing climate adaptation



**"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." (CBD, 2009)

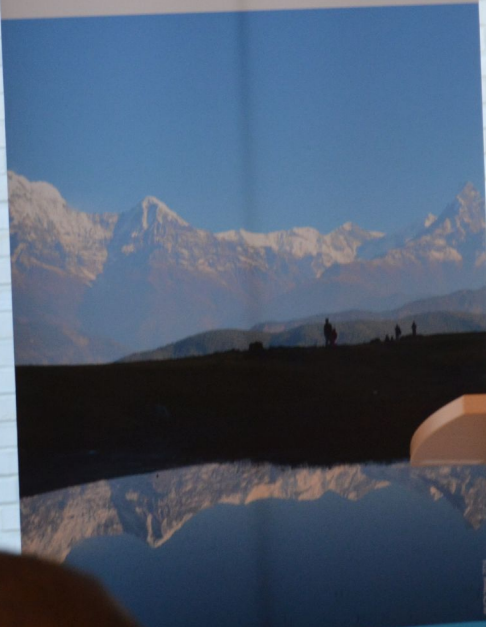


The main goal of Ecosystem-based Adaptation (EbA) is to help people to adapt to climate change within a landscape approach!



## Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change



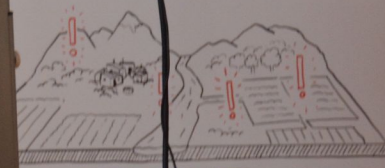
on behalf of  
Federal Ministry for the  
Environment, Natural Conservation,  
Building and Nuclear Safety  
of the Federal Republic of Germany

implemented by  
giz

“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.” (CBD, 2009)

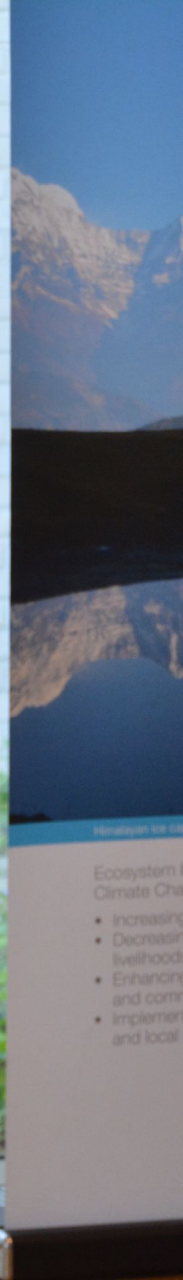


The main goal of EbA is to people to adapt to climate change within a landscape approach!



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communication and  
collaboration at all levels



Ecosystems  
Climate Change  
• Increasing  
• Decreasing  
• Enhancing  
• Implementing  
and local

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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# Panel Discussion Session 2

3<sup>rd</sup> EBA Knowledge Day  
Welcome & Opening  
Session 1 - Panel (Chair: [name])  
Session 2 - Panel (Chair: [name])  
Session 3 - Market Place  
Session 4 - Introduction Expert Network  
① Strengthen EBA Access  
② Strengthen EBA Access  
③ EBA/EU/DRK + sector  
④ Strengthen implementation  
to generate public funding  
⑤ Build evidence for EBA  
regulation  
Session 5 - Summary & Wrap Up



Matthias Bommert  
GIZ



Angela Andriani  
GIZ (Moderator & MC)



Christine L. Spillmann  
GIZ (Moderator & MC)



Prof. Dr. [Name]







Donna Loggemes  
(PHC, Climate Center)







# THE SOCIAL DIMENSION OF EBA IN COLOMBIA

Preliminary Results of DIE Field Research 2018

Felix Weinhöner, Alexandra Dostert, Eric Phillips, Lukas Kaiser, Margot Mayer, Julia Maronitz, Juan Carlos Rodríguez and Carsten Eberhardt

@Columbia\_RT #AbESocial



## 1 Introduction

Despite many EBA projects being implemented worldwide, there is a lack of demonstrable evidence of either the effectiveness of EBA approaches in meeting adaptation goals or their delivery of other ecosystem services or benefits that are claimed for them.

This research gap led to the following research questions:

1. What kinds of social benefits and costs do the EBA projects under assessment generate for the local communities?
- How are the benefits and costs distributed among individuals and social groups?
2. Which factors contribute to the generation and distribution of social benefits and costs of EBA projects?

In order to find answers to these questions, we investigated two EBA projects in Colombia, a country that is known for its rich biodiversity. Its 98 ecosystems are home to 34,000 species. Climate change puts these ecosystems under pressure and negatively affects their functions. The provision of ecosystem services (ES) and human well-being.



## 3 Concepts

Based on the guideline proposed by the EBA (2017) and RED (2017), we aim to assess the effectiveness of EBA projects in Colombia, investigating social benefits and costs that are generated by Ecosystem Services and one that is related to Ecosystem Services.

## 4 Results

ES-Related Social Benefits

- Water & Food Provision
- Cultural Benefits
- Ecosystem Resilibility



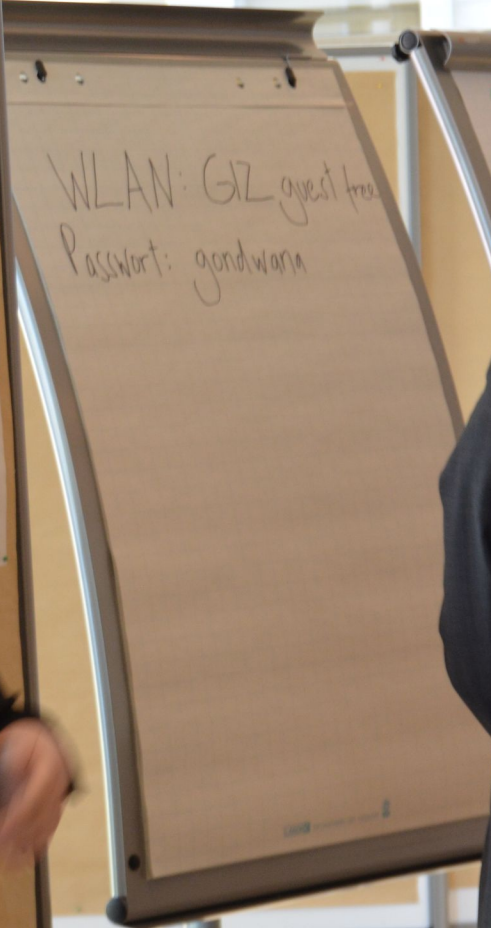
### General overview of social benefits and costs



### Social benefits and costs: changes over study



### Social benefits and costs: changes over study



## 3rd EBA

9:15 Welcome  
9:30  
10:10  
11:00  
12:00



*@Columbia.RT #AcSocial*

# THE SOCIAL DIMENSION OF EBA IN COLOMBIA

## Preliminary Results of DIE Field Research 2018

Felix Weinzierl, Alexander Gombert, Eric Philipp, Lukas Kriener, Marjan Plesner, Julia Novotny, and Lukas Kriener and co-authors

### 1 Introduction

Despite more EBA projects being implemented worldwide, there is a lack of demonstrable evidence of either the effectiveness of EBA approaches in meeting adaptation goals or their delivery of other ecosystem services or benefits that are claimed to them.

This research goal is the following research question:

1. What kinds of social benefits and costs do EBA projects under assessment generate for the local community?

How are the benefits and costs distributed among individuals and social groups?

2. Which factors contribute to the generation and distribution of social benefits and costs of EBA projects?

In order to find answers to these questions, we investigated three EBA projects in Colombia, a country that is home to 50 million people, to fill ecosystem services (ESS) gaps. Climate change impacts are specific. Climate change impacts have consequences on the provision of ecosystem services (ESS) and consequently human well-being.



### 2 Case studies

**Ecosystem-based Adaptation to Climate Change in the Integrated Nature Resilience Project - Rio Pacifico Coastal City of Cartagena**  
Colombia (High Nature Resilience Change Project)

Cartagena is particularly vulnerable to climate change due to Colombia's high urban population and over 50% being low-income, an increase in coastal sea-level rise, and the impact of sea level rise on the urban coastal zone.

The 3000-hectare GIZ project supports national and local authorities with integrating the approach of ecosystem-based adaptation to climate change into urban policies, plans and strategies. Furthermore, the aim is to use the project as a model for other urban areas.

Cartagena measures comprise the restoration of natural coastal areas, the construction of urban green infrastructure, and the implementation of nature-based solutions.

EBA is strengthening the capacity of ecosystem-based adaptation in the respective neighborhoods. On the one hand, the project measures are connected to the local activities of the community.

The 3000-hectare project measures in Colombia strengthen ESS resilience and improve human well-being. These include: restoring natural areas, creating green infrastructure, and implementing nature-based solutions. The project measures are connected to the local activities of the community.





### 3 Conceptual Framework

Based on the guidelines proposed by IPBES (2017) and GIZ (2017), we aim to assess the effectiveness of EBA projects in Colombia, investigating projects that are expected to generate social benefits and costs that are attributed to Ecosystem Services and that is related to Ecosystem Services.



**Value-based Social-Ecological System**

The diagram shows a cycle between EBA (Ecosystem-based Adaptation) and Ecosystem Services, which leads to Social Benefits and Costs. The cycle is supported by Ecosystem Services and is influenced by Ecosystem Services.

WLAN: GZ gyz  
Passwort: gyzwlan

3<sup>rd</sup> EBA Knowledge...

1st Welcome...

~100 Interviews

Why...  
...  
...





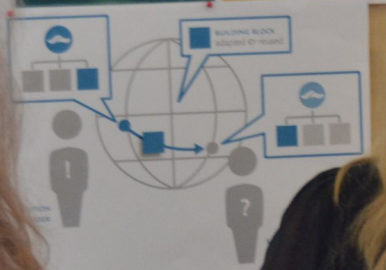
SOLUTIONS  
UN  
@Shire Stobo

Approaches to scaling up success

a marine perspective

marine solutions

a healthy planet  
**PANORAMA**  
SOLUTIONS FOR A HEALTHY PLANET



learn from others success

Ecosystem-based Adaptation Solutions Partnership

services as help people to ad

approach - Le experiences wo

consists of a comb (BB 1 - BB 4) the solution's suc

address changes of cu future climate change im sustainable development wellbeing

- are scalable
- have a positive imp ecosystems and provide

AMA  
AMA  
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ilitated  
olutions  
take  
regional -

Almost 40 participants  
rising in Asia Pacific!  
provides

THE SOLUTIONS FAIR 2015





## EBA IN MESOAMERICA

of a participatory, open and 'action learning' process

of EBA:  
- enhances capacities and EBA knowledge and adaptive governance  
- identifies legal frameworks that promote EBA  
- assesses its impacts

ECOSYSTEM BASED  
LEARNING SITES



A map of Mesoamerica with a legend. The legend includes a list of learning sites with corresponding colored dots: Guatemala (green), El Salvador (purple), Honduras (blue), and Nicaragua (orange). The IUCN logo is visible in the top left corner of this section.





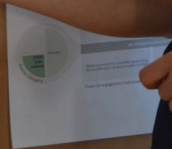
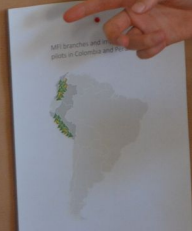
End of May

10 EXAMPLES

FINANCE SCHEMES FOR in Colombia & Peru

domestic FUNDS

Andrea Barrios  
Peru







@Colombia-RT #AbESocial

# MULTIDIMENSION OF COLOMBIA

of DIE Field Research 2018



## 2 Case studies

**Case study 1: Resilience based adaptation to Climate Change in the...**  
The research focuses on the resilience of the agricultural sector in Colombia in particular vulnerable to climate change due to the high dependence on rain for crop production and the vulnerability of small farmers.

**Case study 2: Resilience based adaptation to Climate Change in the...**  
The research focuses on the resilience of the agricultural sector in Colombia in particular vulnerable to climate change due to the high dependence on rain for crop production and the vulnerability of small farmers.



work

Vulnerability

EbA

Implementation

Implementation

Implementation

Implementation

Implementation

Implementation

Implementation

Implementation

Implementation

WIFI: GIZ gu  
free  
PASSWORD:  
gondwana

3	9.15
	9.50
	10.30
	11.00
	12.00
	12.45
	14.00







## Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change



... and ecosystems  
... available  
... civil society




# Expert Dialogues



iz

Dialogue 1  
Strengthening EBA  
through alignment of  
multiple national policy  
processes (SDG, NDC, NAP)



Find us in: BM 10027/29  
→ right here!



Saal Donau (BM

Facilitation: IISD  
(Malte Maass), D

Target group: Po

Objective: This s  
multiple climate o  
(SDGs), National  
contributions (ND  
ecosystem-base



**IUCN** **CEM**

## Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change

**Programme**

Ecosystem Climate Change

- Increase livelihoods
- Decrease vulnerability
- Enhance and conserve ecosystems and local knowledge

Ministry for the Environment, Natural Conservation, Building and Services Sector

of the Federal Republic of Germany

## "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 negative effects of climate change."

Getting the adaptation strategy

- Review of impact studies & assessment
- Identification & evaluation of ecosystem services
- Assessment of ecosystem services
- Assessment of ecosystem services

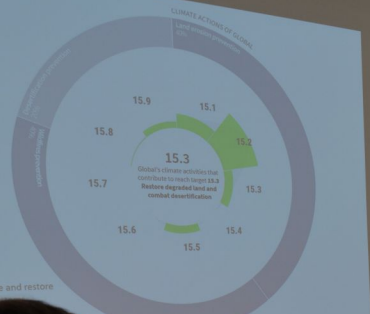
Apply a climate & ecosystem lens

Assess vulnerability

Adaptation Cycle

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... is to adapt to climate change through a landscape approach!



15.1 Conserve and restore inland and coastal wetlands

15.2



**Challenge 4**  
Strategic framework E-10  
through alignment of multiple national policy processes (GSD, NDC, etc.)  
Lead on... GEF, etc.  
→ right

**Ecosystem-based Adaptation**  
is the use of biodiversity and ecosystem services as part of natural infrastructure strategies to help people to adapt to the adverse effects of climate change.

The main goal is to help people to adapt to the adverse effects of climate change.







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WLAN GIZ guest  
Passwort: gizaustria

3<sup>rd</sup> EBA Knowledge Day

9:15	Welcome & Opening
9:30	Session 1 - Panel (Moderated)
10:30	Session 2 - Panel (Moderated) B.F.A.
11:00	10:30 II
12:45	Session 3 - Market Place
14:22	Session 4 - Introduction Expert Panel
	① Workshop: EBA Member Alignment (SOL, WFP, NAPS)
16:00	

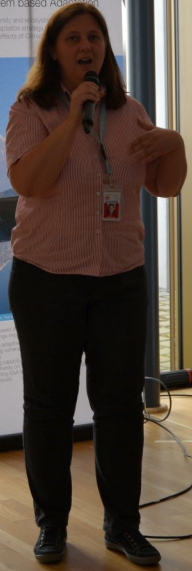
Sticky notes on the board include:

- Supplies**: (Yellow note) "Supply chain..."
- Budget**: (Blue note) "Budget..."
- Observations**: (Red notes) "Observations made..."
- Other**: (Green notes) "Helpful with..."









**Agriculture**

**Food security**

key services

minimize losses & maintain productivity

interlinked natural hazards

mitigation component of agriculture (C storage accountability)

diversity, smallholder's production

context specific - matter to farmers - impact & motivation

compatibility of policies (e.g. environment and irrigation)

agricultural production & sector plans

agricultural investment programmes

Lowland Degradation Neutrality (UNCCD) subsidies

public, collaborative & private

coordination of government sectors

supply chains identify leaders in private sector

**IUCN**

**CEM**

## Ecosystem based Adaptation

Using biodiversity and ecosystem services as part of an overall adaptation strategy to help people adapt to the negative effects of Climate Change



Herzogynen See, St. Gallen, "The Water Tower of Alps"

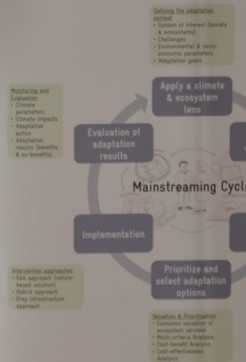
On behalf of:

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

of the Federal Republic of Germany

## "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



**Define the adaptation context**

- System of interest (society & ecosystem)
- Challenges
- Environmental & socio-economic parameters
- Adaptation goals

**Apply a climate & ecosystem lens**

**Evaluation of adaptation results**

**Implementation**

**Monitor and evaluate**

- Climate parameters
- Complex impacts
- Adaptation status
- Adaptation results (benefits & co-benefits)

**Mainstreaming Cycle**

**Identify adaptation options**

**Prioritize and select adaptation options**

**Selection & Prioritization**

- Economic valuation of ecosystem services
- Multi-criteria Analysis
- Cost-benefit Analysis
- Cost-effectiveness Analysis

**Intervention approaches**

- Top-down (policy-based solutions)
- Hybrid approach
- Strong institutional approach

**Assess vulnerability**

**Identify adaptation options**

**Apply a climate & ecosystem lens**


**Evaluation of adaptation results**

**Implementation**

**Monitor and evaluate**

**Define the adaptation context**

The main goal of Ecosystem-based Adaptation is to help people to adapt to climate change within a landscape approach



## EBA Knowledge Day

### Welcome & Opening

Session 1 - Panel (donors, policymakers)



Session 2 - Panel (implementers)



Session 3 - Market Place

Session 4 - Introduction Expert Dialogues

- 1) Strengthen EBA through alignment (SDG, NDC, NAP)
- 2) EBA / EcoDRR + sectors
- 3) Showcasing implementations to generate public funding
- 4) Robust evidence for EBA upscaling



Session 5 - Summary & Wrap Up

Translators  
Language  
Co-production  
Legal framework  
Extension / advisory services

Terminology - not necessarily "EBA"  
→ locally suitable wording  
don't lose the climate aspect

### Dialogue 1

Strengthening EBA  
alignment of  
national policy  
(SDG, NDC, NAP)



BM 10027/20  
→ right ho

