

# Scaling up Ecosystem-based adaptation in rural Latin America (EbA LAC)

## Success Factors & Impacts



SISTEMA NACIONAL DE  
ÁREAS DE CONSERVACIÓN



On behalf of:



of the Federal Republic of Germany





# What is EbA?

## Ecosystem-based Adaption:

- helps people to adapt to the adverse effects of climate change
- uses biodiversity and ecosystem services
- is part of an overall adaptation strategy



Ecosystem-  
based  
options

EbA  
hybrid  
options

Infrastructure  
-based  
options

Political and  
social  
options

← ADAPTATION STRATEGY →

## 5 quality criteria

1

Reduces social and environmental vulnerabilities

2

Generates societal benefits in the context of climate change adaptation

3

Restores, maintains or improves ecosystem health

4

Is supported by policies at multiple levels

5

Supports equitable governance and enhances capacities



**Adaptation puts the most vulnerable  
people at the forefront:**

**Short-term actions respond  
to long-term objectives.**



# Conserving nature for climate resilience: Delivering EbA at scale

## Scaling-Up Ecosystem-based Adaptation (EbA):

- promotes cost-effective adaptation strategies that contribute to biodiversity conservation, climate mitigation, and sustainable development.

## Urgent need:

- urgent need to accelerate and scale **up** actions, because implementation is not advancing at the necessary speed and scale.





# Conserving nature for climate resilience: Delivering EbA at scale

## Climate finance needs in developing countries:

- Greater than current flows (10-18 times)
- Inaction exacerbates climate risks, losses and damages
- Enhanced financial support to implement EbA achieves climate resilience and biodiversity conservation.



Ma. Cristina Par Tuluxan,  
Quiché, Guatemala,  
rescues biodiversity with  
ancestral knowledge and  
sustainable innovations.

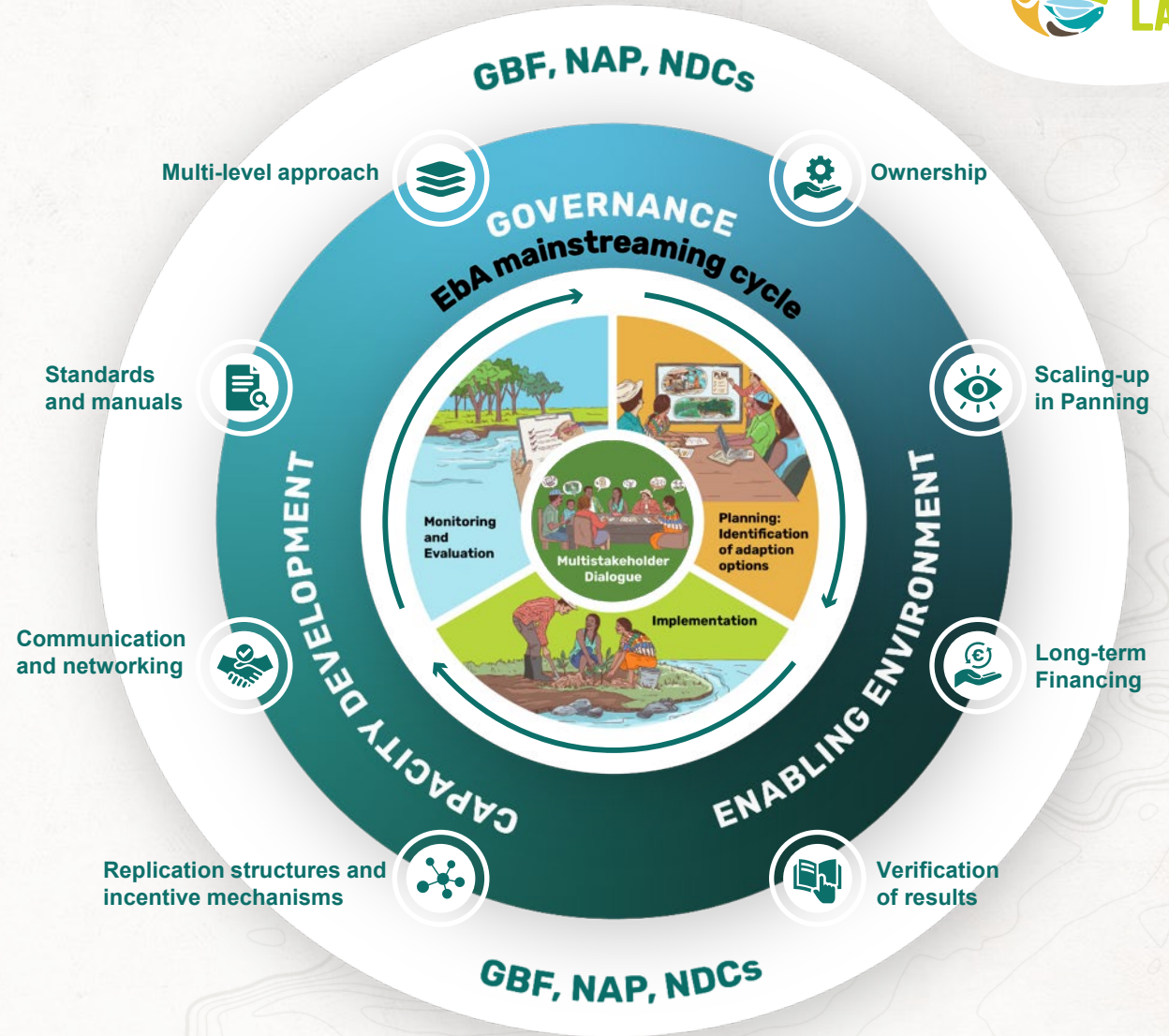


# Success factors for scaling-up EbA

Scaling-up EbA at vertical, horizontal and regional level requires harmonized approaches, methods, and guidelines:

- Adaptative Governance
- Capacity Development
- Enabling Environment

**Eight success factors** are key for bringing EbA to scale and generating **broad-based and structure building impacts**.



Key factors for Scaling-up EbA to achieve the Paris Agreement (PA), the National Determined Contributions (NDCs) and the National Adaptation Plans (NAP), as well as the Kunming Montreal Global Biodiversity Framework

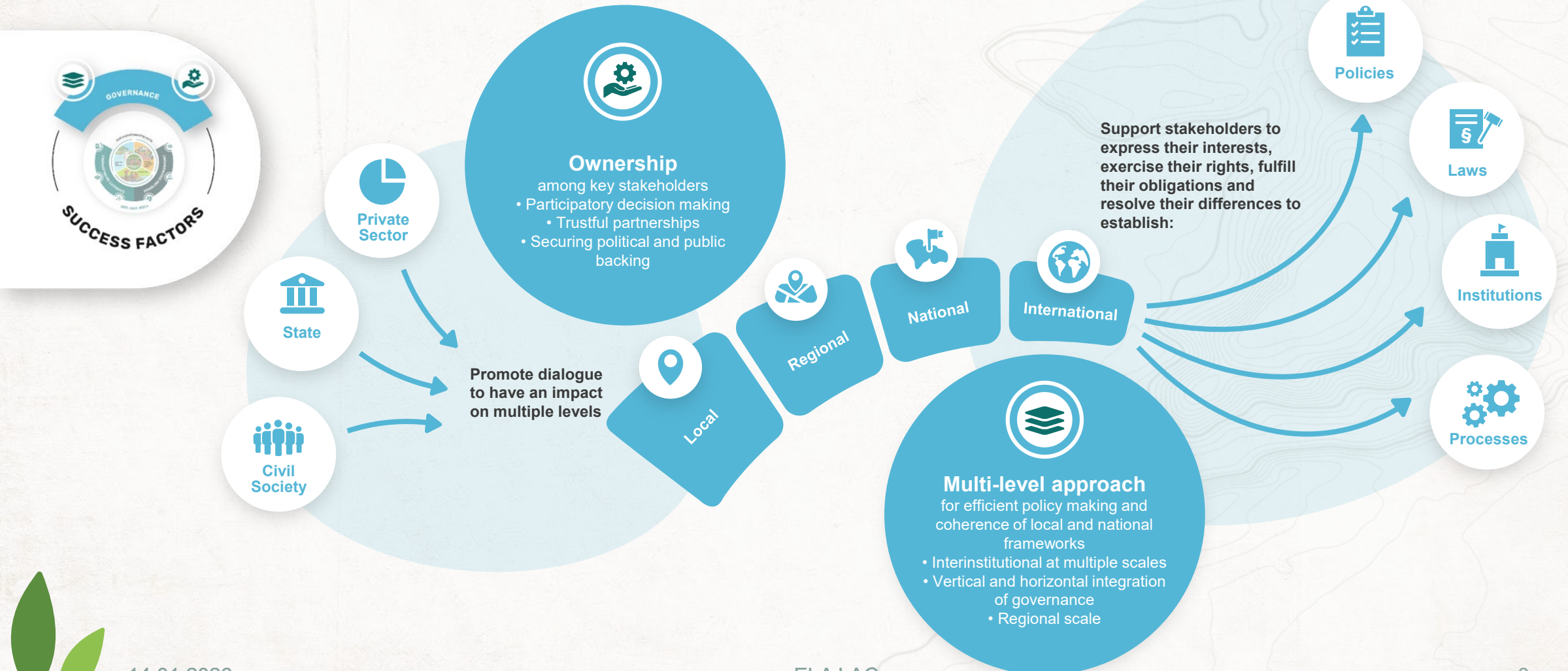


# Success factors for scaling-up EbA



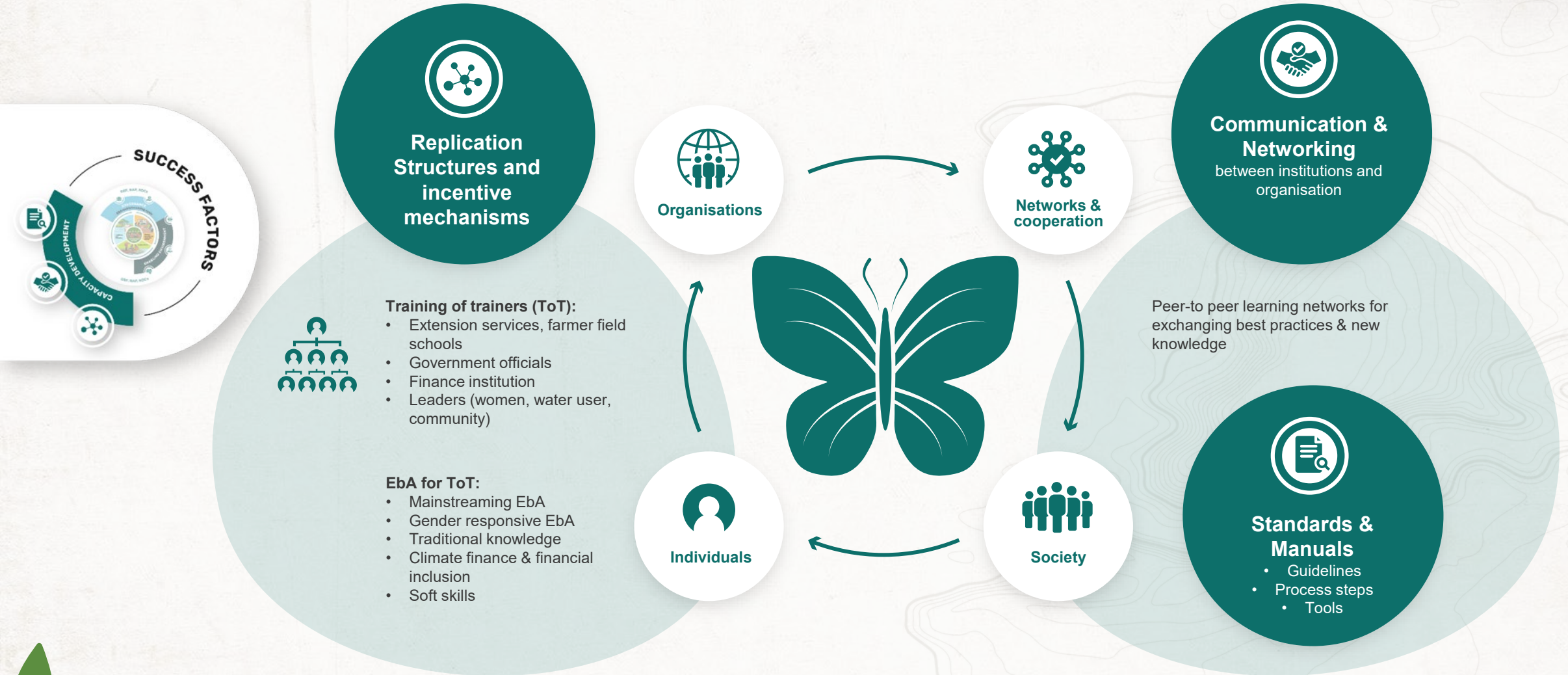


# How to strengthen governance to scale up EbA?





# Capacity Development to scale-up EbA



EbA LAC strengthens capacities of multipliers to provide in the long-term training and support to key stakeholders in scaling-up EbA.



# Mainstreaming EbA cycle: Planning EbA



**Multi  
Stakeholder  
Dialogue**



**1a**

## **Apply a climate lens**

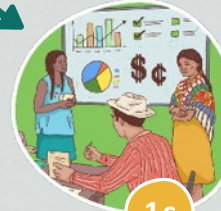
- Assess environmental, socio-economic and governance system
- Consider spatial and temporal dynamics



**1b**

## **Evaluate vulnerabilities and climate risks**

- Analyse climatic and non-climatic drivers
- Explore all dimensions of vulnerability (economic, social, ecological)
- Consider of available climate data (past, present, future/ scientific, local, traditional)



**1c**

## **Identify adaptation options**

- In policy, engineering, capacity development, research



**1d**

## **Prioritize and select adaptation options**

- Cost-benefit analyses, synergies and tradeoffs
- Impact analyses
- Define concrete actions
- Explore and assure financial resources
- Adaptive management



# How to close the finance gap to accelerate EbA implementation?



## Long-term financing

to enhance upscaling of EbA

- Increase financial flows from the public and private sector
- Facilitate access to sustainable and inclusive finance



Improve enabling environment of insurance and financial sector

1

Identify rural financial needs for EbA

2

Improve allocation of public spending for EbA

3

Assist finance institutions with climate risk tools



Assist rural entrepreneurs, farmer associations, municipalities in:

1. Developing sustainable business plans and bankable projects
2. Facilitate access to finance and markets

Matchmaking



Support second-tier banks, public & non governmental funds

1. Identify public, private, and international finance sources
2. Improve or design inclusive sustainable green finance instruments

- Biodiversity-friendly
- Climate change
- Water Efficiency
- Gender

Funds

Grant

Compensation for Ecosystem Services

Debt

Fees, taxes

Insurance

Loan

Seed capital



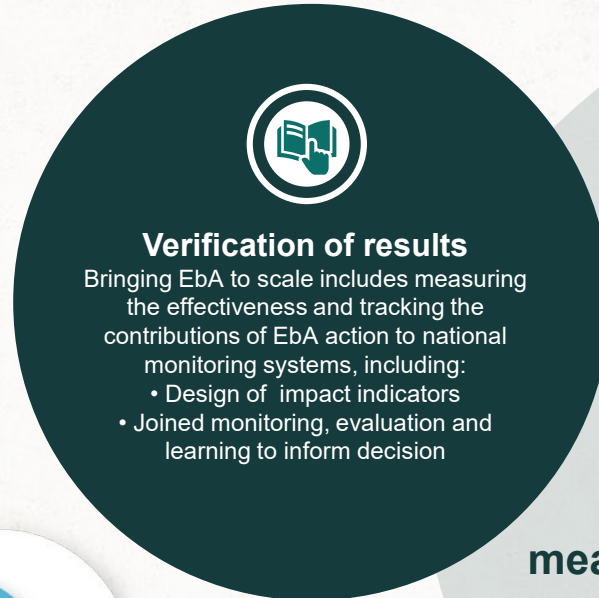
Operators

1. Banks
2. Community Savings Banks
3. Cooperative
4. Insurance Companies





# Measuring effectiveness & strengthening Monitoring, Evaluation and Learning



## EbA measures





# Where does EbA LAC work?







### Climate hazards in biological corridors:

- Extreme weather events
- Water scarcity and droughts
- Heat waves
- Increased flooding

### Challenges:

- Land/use change
- Loss of livelihoods
- Water insecurity due to high agricultural water supply.

Biological Corridor:  
San Juan La Selva



Area of  
ecosystems  
improved or  
protected

5,053 ha



Landusers  
implement  
EbA

40% ♀



People  
supported to  
better adapt to  
climate change

>1,740



Public & private  
capital catalysed

>12.625,100 €



Plans  
and policies

3



Directly supported  
through networking  
and training

457 ♀





In Costa Rica, Biological Corridors are a key conservation strategy to ensure ecological connectivity. Costa Rica has 51 biological corridors, representing about 33% of the national territory, which generate social, economic and environmental benefits. EbA Lac supports the declaration of the new Biological Corridor La Suerte.

Conservation Area Tortuguero



New  
Biological  
Corridor



FuTurismo Climate  
risk platform for  
tourism sector

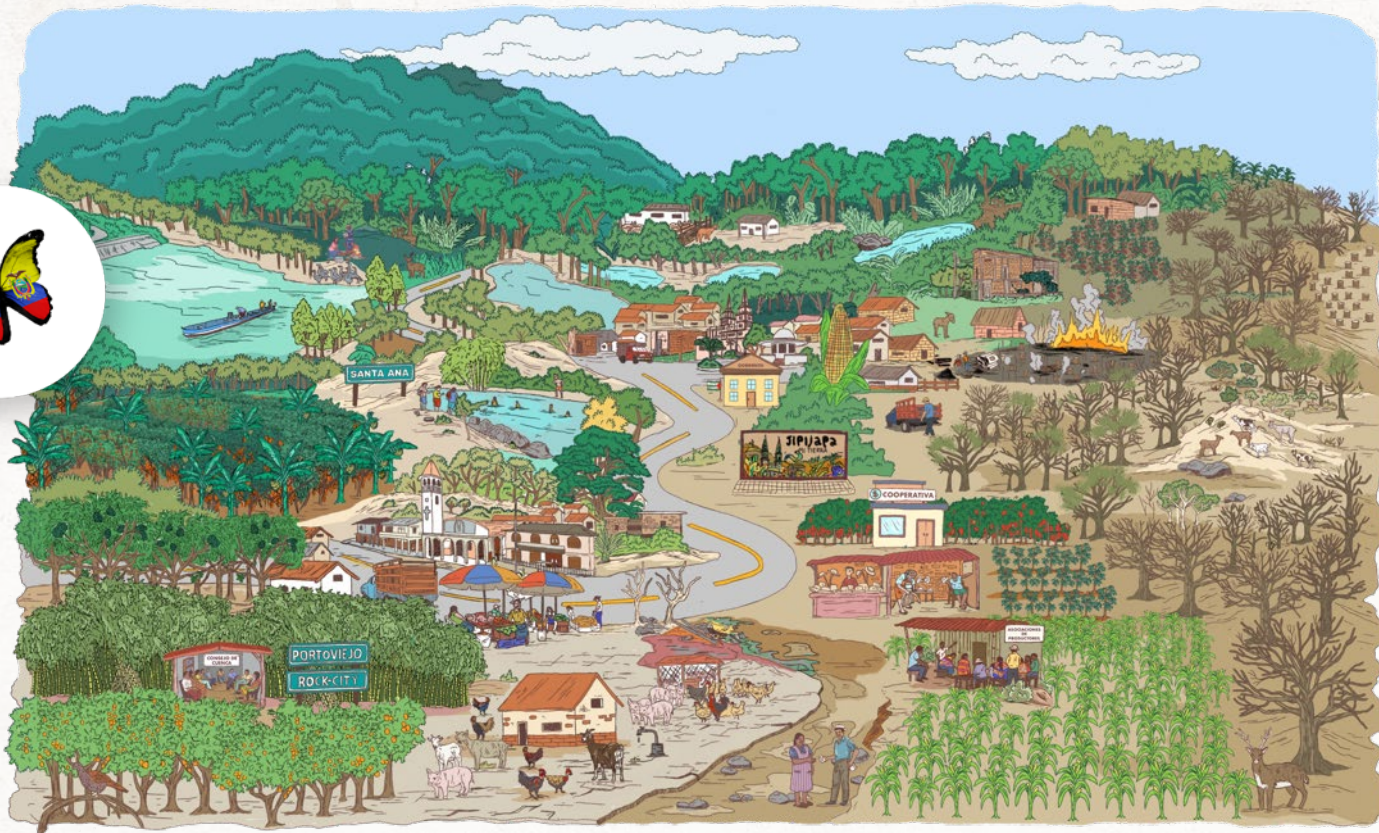


65 rural resilient  
start-ups with  
seed funding



3 new green  
credit lines





Río Portoviejo Watershed

### Climate hazards:

- Recurring droughts and flooding cycles
- Torrential rains
- Landslides

### Challenges:

- Environmental degradation
- Degradation of wetlands
- Deforestation
- Land use change
- Loss of livelihoods.



Area of ecosystems improved or protected

6,099 ha



Landusers implement EbA

40% ♀



People supported to better adapt to climate change

>6,520



Public & private capital catalysed

> 2,877,980 €



Plans and policies

3



Directly supported through networking and training

1,278 ♀





Northern Manabí landscape

- 160 families from various communities in Manabí have improved their economic management and well-being by enhancing their saving habits and investment in their family farms.
- > 650 people benefit from eight community savings groups to address climate change emergencies in the community.
- 3 community tree nurseries, improve production and food security for families.



9 Development and Territorial plans with gender responsive EbA



National Climate Insurance Roadmap



2 Mio US \$ green credit



8 community saving groups for rural women





### Climate hazards in intervention areas:

- Increased temperatures
- Altered rainfall patterns
- More frequent extreme weather events
- Prolonged droughts

### Challenges:

- High socioeconomic vulnerability
- High dependence of livelihoods on natural resources, affected by deforestation, soil degradation and overexploitation of water resources.
- Prolonged drought reduce agricultural production, especially of staple crops like maize and beans, which are essential to the local diet.

Chimaltenango intervention area



Area of ecosystems improved or protected

4,273 ha



Landusers implement EbA

78% ♀



People supported to better adapt to climate change

> 13,800



Public & private capital catalysed



Plans and policies

1



Directly supported through networking and training

467

♀





### Traditional practices of Mayan K'iche people

- Women implement sustainable agricultural practices, market the organic products they grow in nearby markets, and have access to food and medicinal plants all year round.
- Resilience and production levels of organic crops have improved through the combination of sustainable agricultural techniques with ancestral knowledge.
- Crop diversification and marketing initiatives have improved local economic development.

Quiché and Baja Verapaz landscape



**EbA mainstreamed in System of Urban and Rural Development Councils**



**Indigenous authorities strengthened in multi-stakeholder engagement**



**Rural Development Learning Centers (CADERES) fostered leadership of rural and/ or Indigenous women**



**Tools for municipalities on climate change adaptation investments**



# Gender responsive EbA implementation considering traditional knowledge

EbA LAC aims to accelerate gender equality through addressing the needs and challenges of women and vulnerable groups (indigenous people and youth) as well as strengthening their roles in sustainable land use management practices through designing EbA measures in a gender responsive way.



## Community gardens

Ensuring food security and traditional knowledge  
Improved household income, prevents malnutrition



## Livestock

Access to training & markets  
Matching forages to women's livestock assets (goats)  
Promoting production of organic fertilizers and biopesticides



## Beekeeping

Generates income  
Fits in their daily routine, a high market demand  
Supports pollination



## Reforestation

Increased water security  
Material for craft  
Generates income



## Water Guardians

Source water protection  
Increase water security



# Women's Leadership in EbA

The impact of climate change and biodiversity loss affects, above all, women because of their responsibilities for subsistence agriculture, food security, and family care.



## Empowerment Through leadership

- Analysis on gendered roles in ecosystem services to address inequalities.
- Facilitate participation in decision-making on climate action.



## Gender transformative Biological Corridor's (OECM) Management plan

- Representation in environment-related decision-making
- Design jointly gender responsive actions agriculture, livestock, and ecotourism.
- Development of gender indicators



## Women's participation in Environmental Commission

Foster women's participation in planning processes to include actions for conservation, food security, traditional knowledge, medicinal plants and economic autonomy.



# EbA LAC and the international Agendas



EbA LAC supports Ministry of Environment and Energy (Minae) in Costa Rica, the Ministry of the Environment, Water and Ecological Transition of Ecuador (MAATE), and the Ministry of Environment and Natural Resources (MARN) in Guatemala in a climate-resilient and nature-positive pathway.

Scaling up EbA contributes to the achievements of the Paris Agreement, the Kunming Montreal Global Biodiversity Framework and the Sustainable Development Goals

## DIRECT



## INDIRECT



Kunming-Montreal  
**GLOBAL BIODIVERSITY FRAMEWORK**



# IMPRINT

Published by:

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Registered Offices:

Bonn y Eschborn, Alemania.

Dag-Hammarskjöld-Weg 1-5

65760 Eschborn

T +49 61 96 79-0

E [info@giz.de](mailto:info@giz.de)

I [www.giz.de/en](http://www.giz.de/en)

The project Scaling-up Ecosystem based Adaptation (EbA) Measures in rural Latin America program is implemented by the Deutsche Gesellschaft für internationale Zusammenarbeit, IUCN (International Union for Conservation of Nature) and CATIE (The Tropical Agricultural Research and Higher Education Center).

[www.ebalac.com](http://www.ebalac.com)

The project is part of the International Climate Initiative (IKI). The Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) supports this initiative on the basis of a decision taken by the German Bundestag.

EbA LAC Programme Director::

Dr. Astrid Michels

Edition:

Dr. Astrid Michels, Daniel Ortuño, Nicolas Morales and Diana Ramírez

Design:

Creative republic, Thomas Maxeiner Visual Communications,  
Frankfurt /Germany

Maps:

Jorge Masis

On behalf of the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) through its International Climate Initiative (IKI)

San José, Costa Rica, may 2025



