

Evamab closing workshop

Introduction

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Coordinator CEBioS

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Bahir Dar, Ethiopia

13-17 May 2019

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Ecosystem Services

CEBioS

Evamab

Programme of the workshop

Cross-fertilizing workshop for the EVAMAB project (Bahir Dar, Ethiopia, 13-17 May 2019)

Objectives

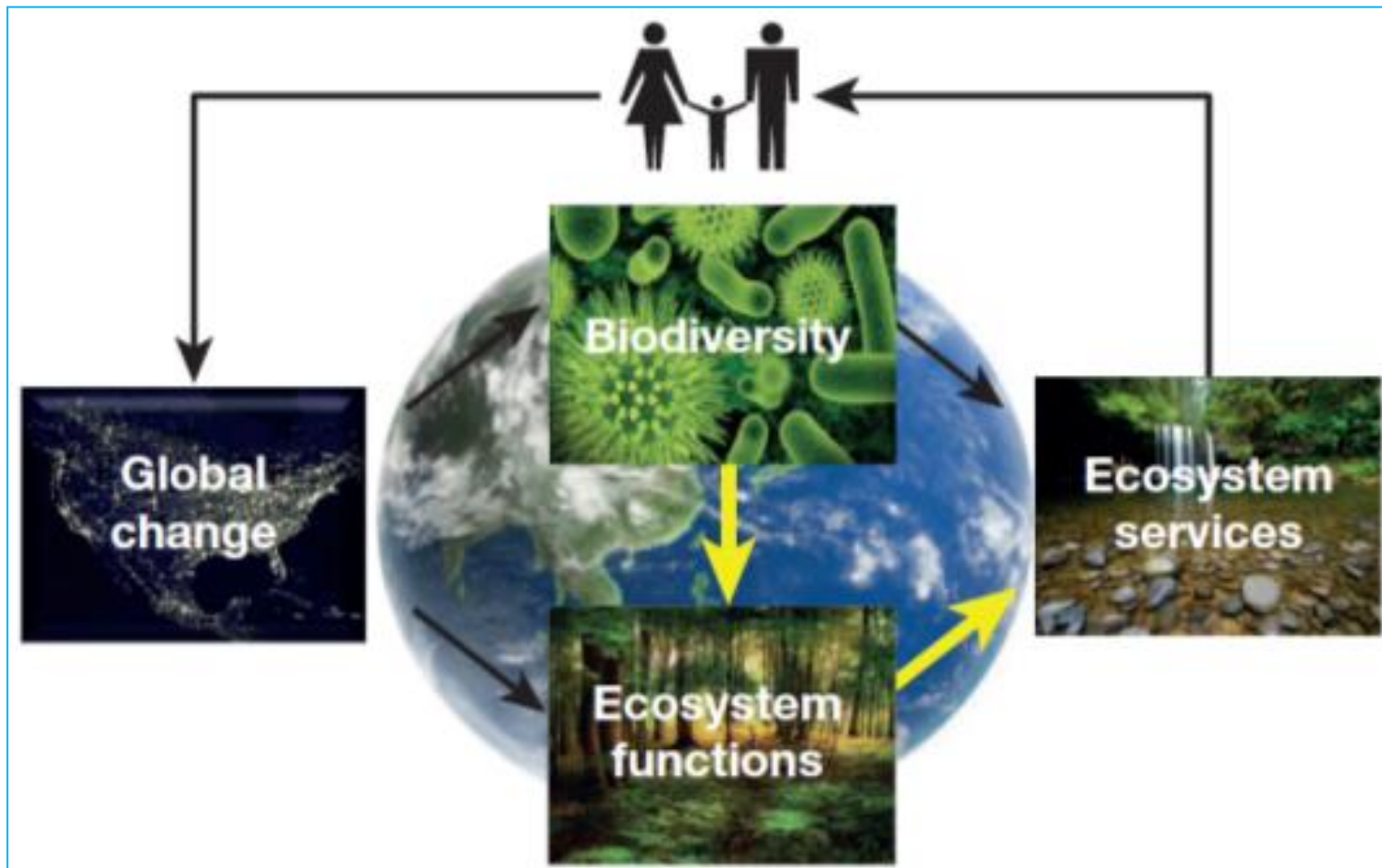
The workshop will have three objectives:

1. To share results and best practices and increase ownership of the representatives.
2. To draft generalizable conclusions and recommendations for the whole AfriMAB network, building on lessons learned in the various case study locations. These will be presented at the AfriMAB meeting 2019.
3. To serve as EVAMAB third (and last) Steering Committee and to explore the possibilities to create a core Group on Ecosystem Services in the AfriMAB Network.

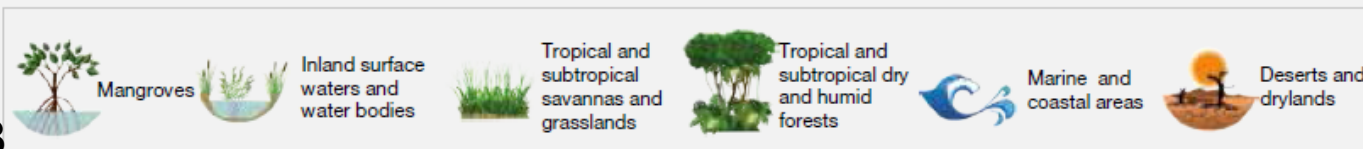
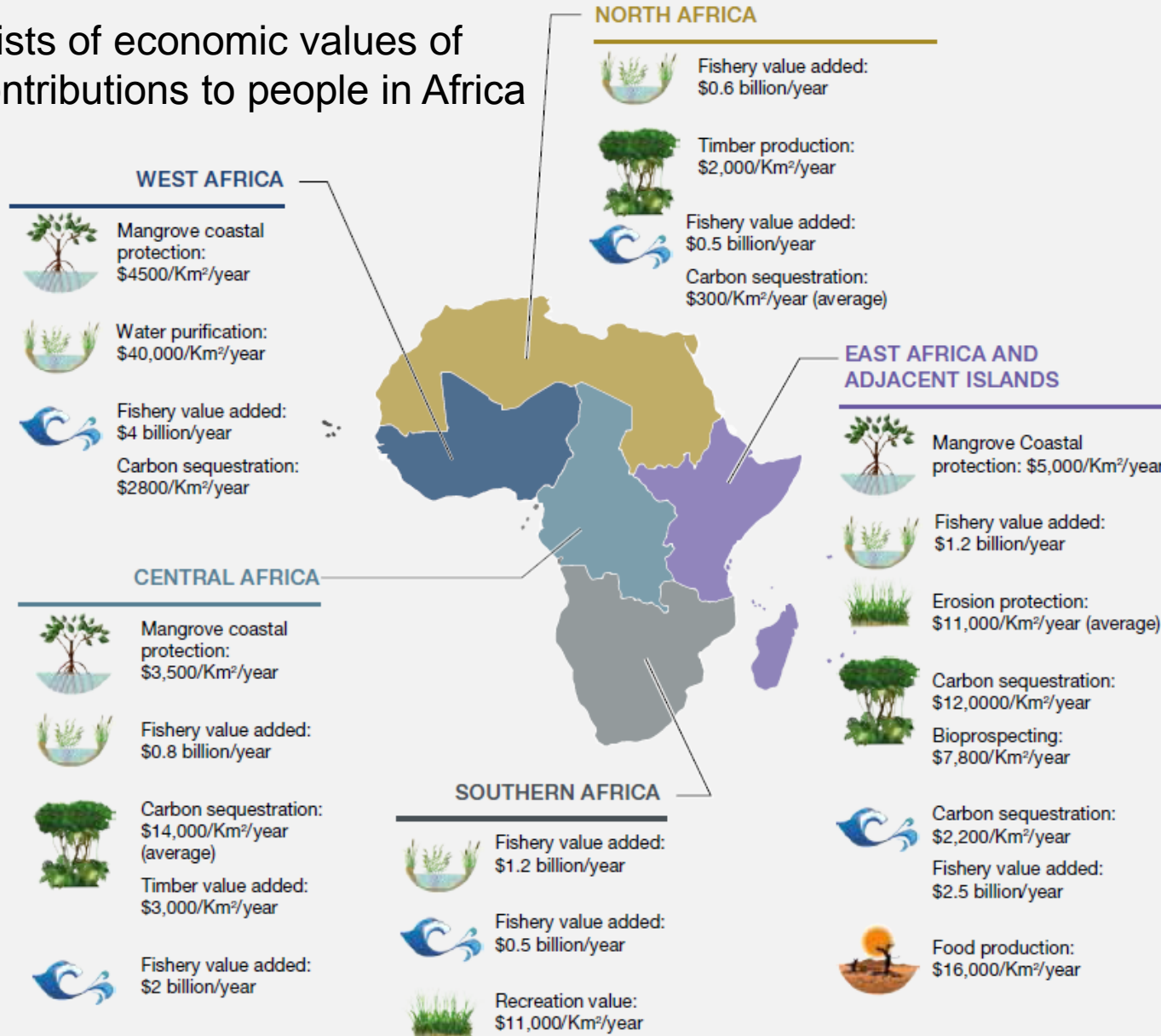
Workshop content and expected outputs

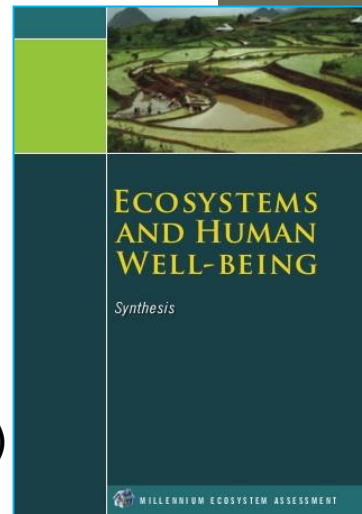
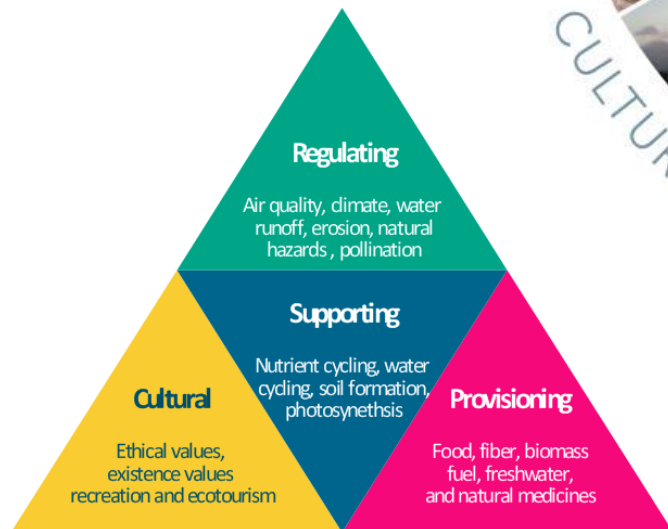
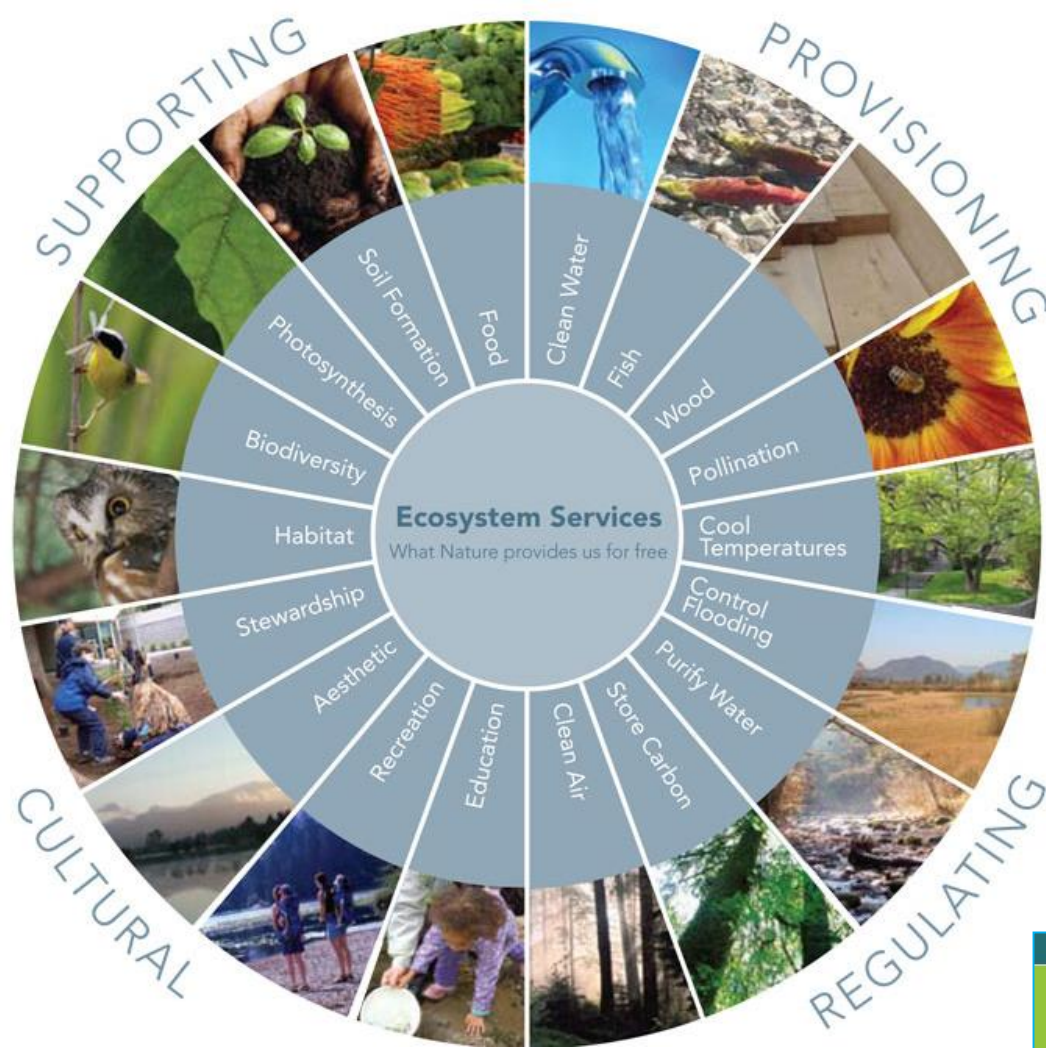
- Presentation of achievements in the framework of EVAMAB in each Biosphere Reserve:
 - Assessment of Ecosystem Services: methods applied and results
 - Practical implications of such assessments: challenges and management/livelihood consequences
 - Presentation of policy briefs and other output produced for each site
- Formulation of common recommendations to the AFRIMAB network (in a manual) through a participative approach
 - Reflection on the ecosystem services approach, the methods used and their relevance for MAB sites and managers
 - Selection of key-results in each site (and potentially other MAB sites) to include as case studies
 - Best practices and perspectives
- The main output would be the manual, to be finalised towards the end of 2019 through electronic exchanges.

Ecosystem Services



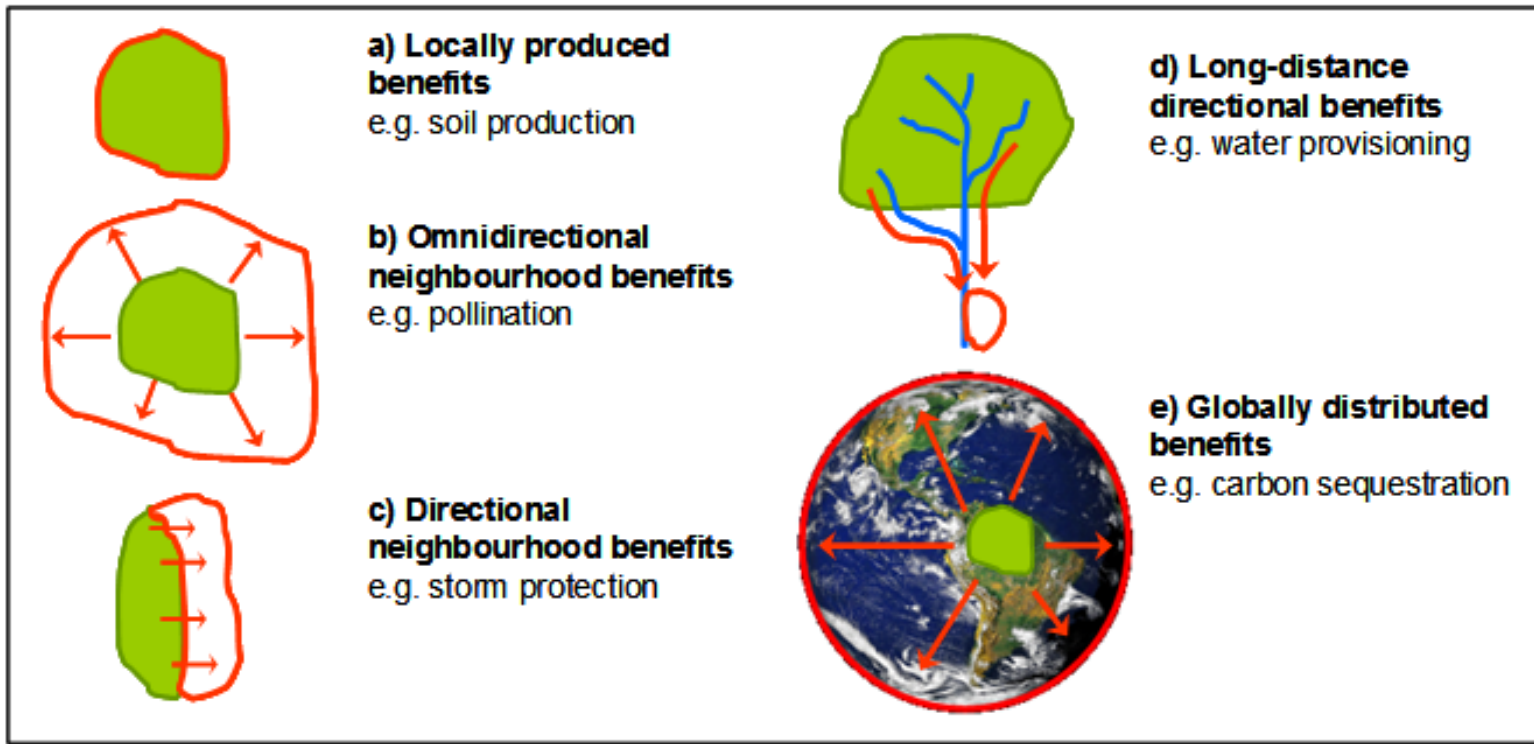
Indicative lists of economic values of nature's contributions to people in Africa





Classification according to the Millennium Ecosystem Assessment (2005)
Source: TEEB

Benefits provided by ecosystems can go far beyond the place where they are generated





source: WWF living the planet report 2012



Royal Belgian Institute for Natural
Sciences

The CEBioS programme

CEBioS



ROYAL BELGIAN INSTITUTE OF NATURAL SCIENCES

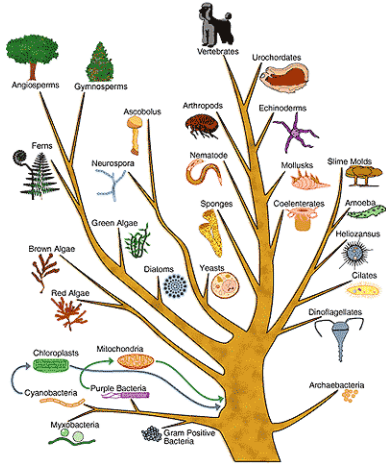
Brussels, Belgium

MUSEUM

- 8.000 m² permanent galleries
- 1.000 m² temporary exhibitions
- 430 staff
- 300 000 visitors / year



Research



Training and capacity building

Support to policy

Digitization & Open Access

CEBioS[®]

Capacity building programme
of the Royal Belgian Institute of Natural Sciences,

funded by
Belgian Development Cooperation



**Core task : support to developing countries for biodiversity by means of
capacity building interventions**

EVAMAB closing workshop
Bahir dar, Ethiopia
13 May 2019

Multilateral, European and National framework:

Convention on the Biological Diversity (Rio: biodiversity, desertification, climate change)

CBD strategic plan for biodiversity 2011-2020, including 20 Aichi biodiversity targets

Nagoya protocol on Access and Benefit Sharing (ABS)

EU 2010-2020 Biodiversity strategy

Belgian National Biodiversity Strategy 2020-2025

Facts and figures about CEBioS

- ✓ Core funding by DGD, MD8, 1.3 M Euro /yr
- ✓ External projects with BELSPO, VLIR-UOS
- ✓ Staff: 3 administrative, 8 scientists & many more contributing
- ✓ Results based management
- ✓ Main partner countries: Bénin, RD Congo, Burundi and Vietnam
- ✓ Other countries: Sahel countries, East Africa

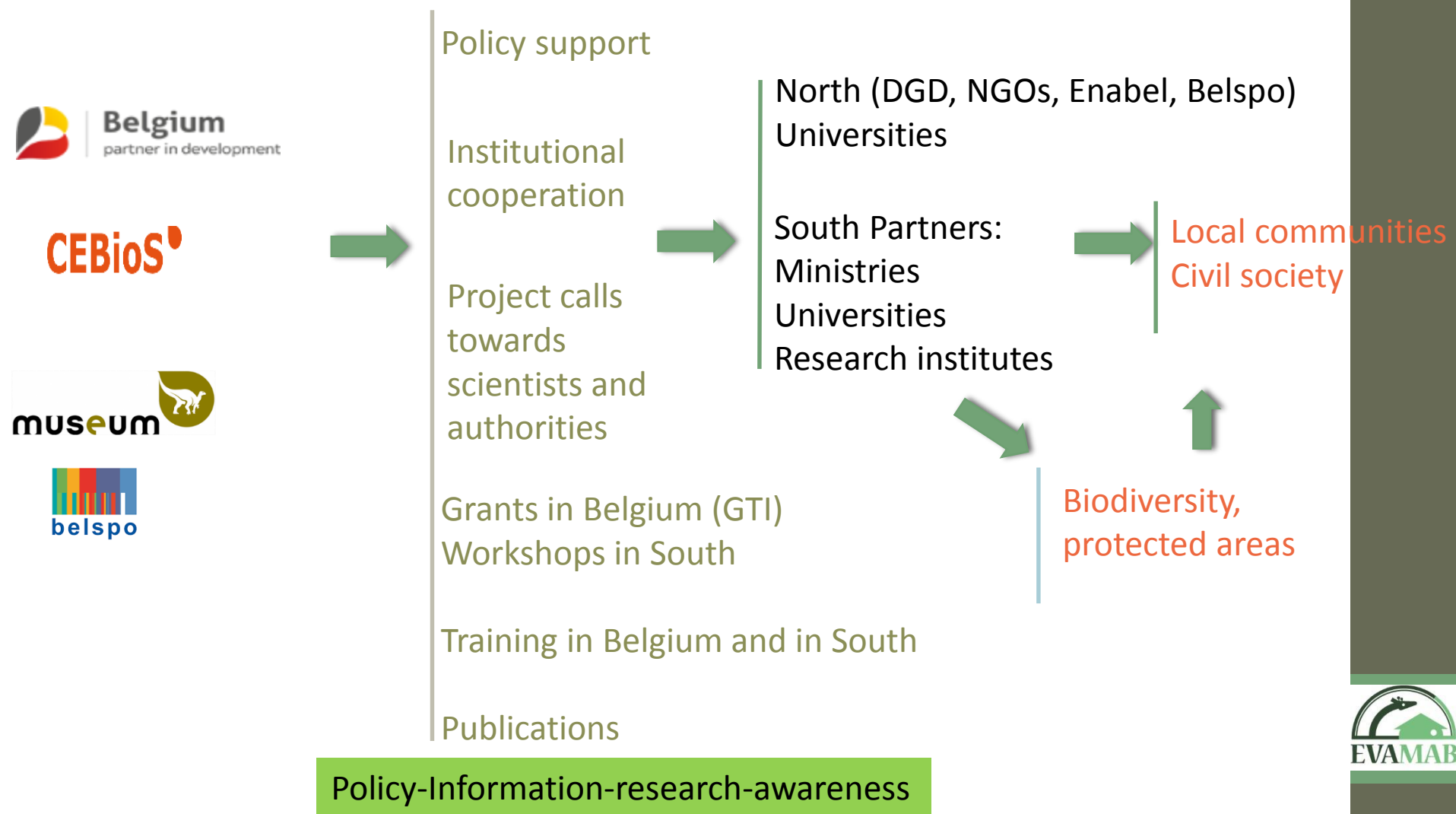
What is “capacity building” and “theory of change”?

Spheres of control

Modalities

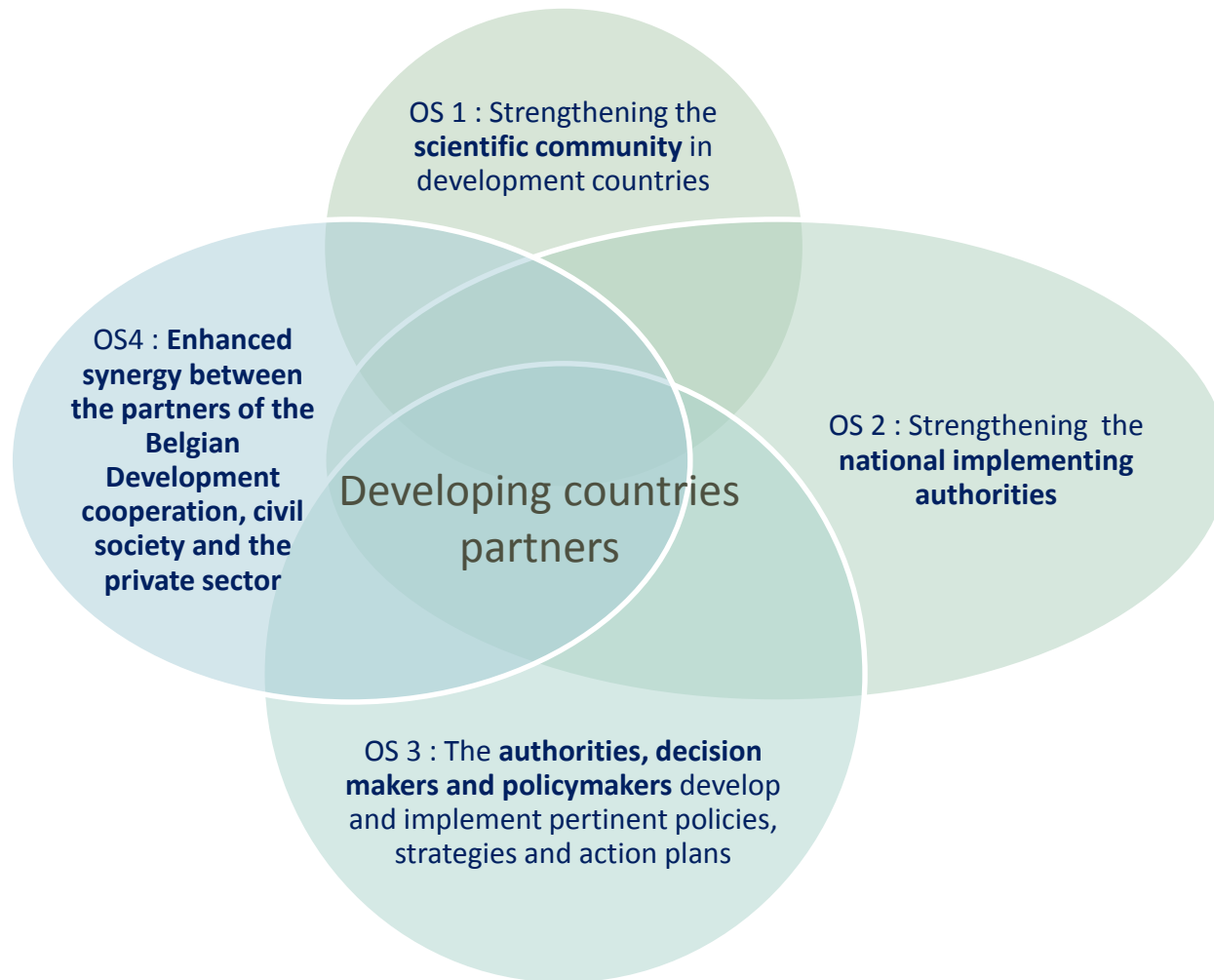
Sphere of influence

Final beneficiaries



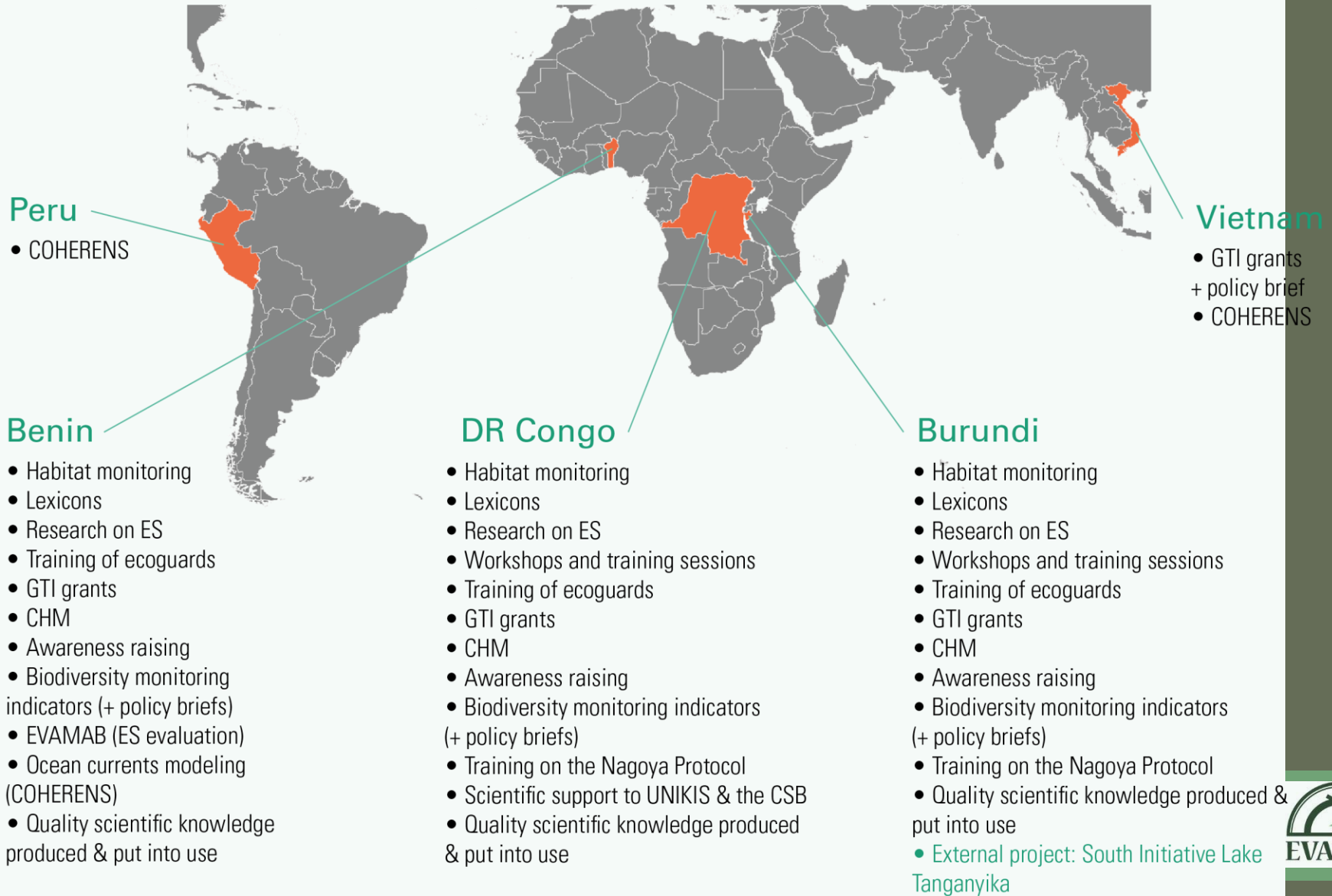
CEBioS programme

4 strategic objectives (2019-2023)



➔ **Improve sustainable management and use of ecosystem services to conserve biodiversity and support the livelihood of rural populations through the development of best practices and value chains**

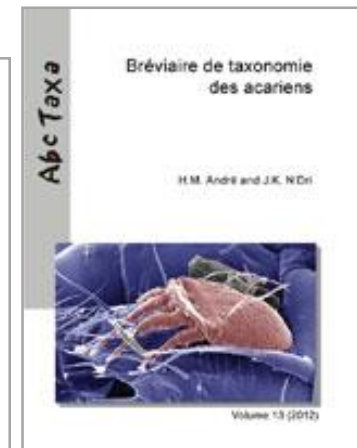
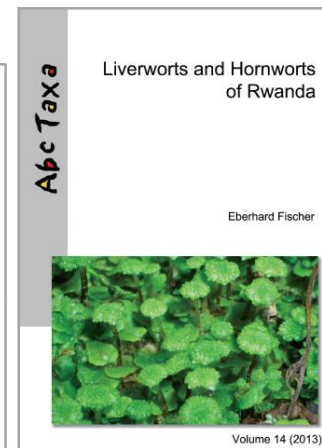
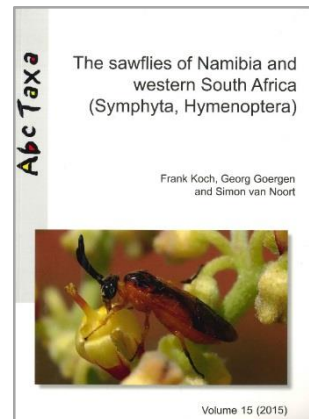
CEB_{IO}S ACTIVITIES



Needs-driven, expertise & collection dependant
capacity building:

Knowledge transfer via free publications

Abc Taxa



Lexica to explain habitats of protected areas (co-production with local managers and scientists)



Policy briefs to communicate outcomes of projects



Quels impacts pour la biodiversité ?

Contexte

Les progrès réalisés en matière de biodiversité sont encourageants, mais des défis restent à relever. Les connaissances traditionnelles et autochtones sont donc fondamentales pour la mise en œuvre de l'Action nationale pour la



Connaissances traditionnelles et ressources génétiques associées
Défis pour une conservation durable de la biodiversité au Bénin

Message clé

- Trois questions majeures de grande importance sont abordées :
- La viabilité des espèces médicinales en lien avec les pressions anthropiques ;
 - La chaîne de valeur de quelques plantes médicinales ;
 - La mise en place de stratégies de conservation et de capitalisation des connaissances traditionnelles pour réduire la pauvreté en milieu rural.

Contexte

Au Bénin, les ressources forestières en général et les plantes médicinales en particulier génèrent des revenus et des emplois pour les populations, tout en leur fournissant des services écosystémiques.

L'adoption du Plan stratégique révisé et actualisé pour la biodiversité 2011-2020, y compris les Objectifs d'Action, a signé un cadre plus global de gestion et de suivi de la biodiversité au Bénin. Les indicateurs de la biodiversité développés par le Bénin nécessitent d'être suivis et renforcés pour évaluer les progrès de la Stratégie et Plan

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www.cebio.org
Téléphone : +229 22 34 24 24



Vers la valorisation des connaissances traditionnelles des communautés locales et autochtones en RD Congo

Les connaissances traditionnelles et autochtones sont essentielles pour la mise en œuvre de l'Action nationale pour la biodiversité. Les connaissances traditionnelles et autochtones sont donc fondamentales pour la mise en œuvre de l'Action nationale pour la

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La projet touche les secteurs politiques suivants :
Environnement, la Santé, la Planification, le Développement durable, l'Agriculture durable.

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Inquiétude de la situation des décideurs pour inverser la situation

- Les décideurs ont mis en œuvre des actions pour inverser la situation.
- Les décideurs ont mis en œuvre des actions pour inverser la situation.
- Les décideurs ont mis en œuvre des actions pour inverser la situation.



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EVAMAB

<http://cebios.naturalsciences.be>).

CEBioS

Capacities for Biodiversity and Sustainable Development

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Latest news

- [Compendium on Protected Area Governance and Management launched at 6th World Parks Congress](#) [posted on: 02/12/2014]
- [Call for application for IFS Individual Research Grants](#) [posted on: 26/11/2014]
- [Presentation on the use of bushmeat in the Forest area of Kisangani region \(DRC\) by trainee Casimir Nebesse](#) [posted on: 25/11/2014]
- [Conférence Débat - L'agriculture familiale](#)

The CEBioS programme is carrying out capacity building for partners of the Belgian cooperation in the field of biodiversity conservation and sustainable management linked to poverty eradication. It works in the framework of international obligations of Belgium under the [Convention on Biological Diversity \(CBD\)](#), the [EU biodiversity strategy to 2020](#) and the [Belgian biodiversity strategy 2020](#).

CEBioS stands for 'Capacities for Biodiversity and Sustainable Development' and is also known as 'the DGD-RBINS programme'.

The CEBioS programme is housed and executed at the [Royal Belgian Institute of Natural Sciences \(RBINS\)](#), where it belongs to the Operational Directorate 'Nature'. CEBioS is part of the 'BIOPOLS' group (Belgian forum for biodiversity policy) and is closely associated with the [Belgian Focal Point to the Convention on Biological Diversity \(CBD\)](#).

The CEBioS programme is financed by the [Directorate-General for Development Cooperation](#)

16:12
17/12/2014



Economic valuation of ecosystem services in Man and
Biosphere reserves: testing effective rapid assessment methods
in selected African MABs

EVAMAB

Bahir Dar
13th May 2019



EVAMAB project



Title: Economic valuation of ecosystem services in Man and Biosphere reserves: testing effective rapid assessment methods in selected African MABs

Budget: 250 000 € (funding agency: Belspo)

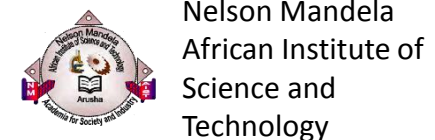


Duration: 30 months (2017-2019)

Partners:

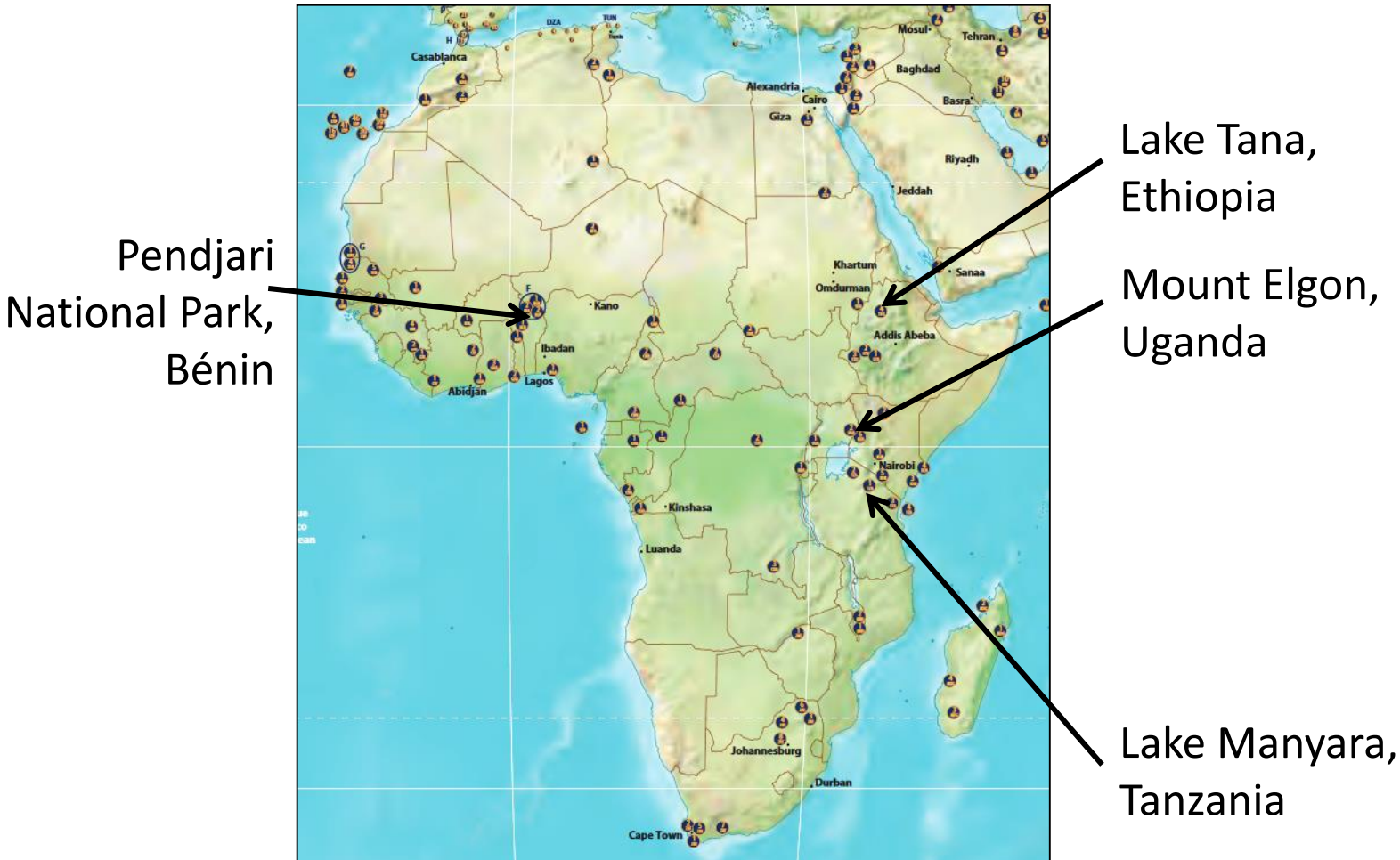


Fieldwork in collaboration with local partners:



EVAMAB project

Focus on 4 Biosphere Reserves (buffer + transition areas):



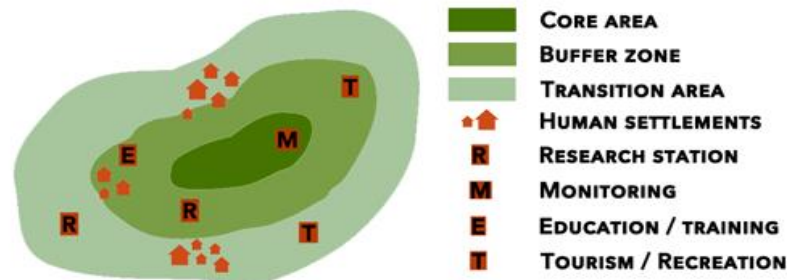
UNESCO MAB: Man and the Biosphere Programme

Biosphere reserves: 'Science for Sustainability support sites'

Combination of scientific knowledge and governance modalities to

- Reduce **biodiversity loss**
 - Improve **livelihoods**
 - Enhance social, economic and cultural conditions for **environmental sustainability**
-
- Involvement of **local communities**
 - Participation of all the interested **stakeholders**
- **Planning + management**

BIOSPHERE AREA ZONATION



EVAMAB project

General objective:

- To assess the value(s) of priority ecosystem services for a better appreciation of the potential for management and socio-economic integration.

Specific objectives:

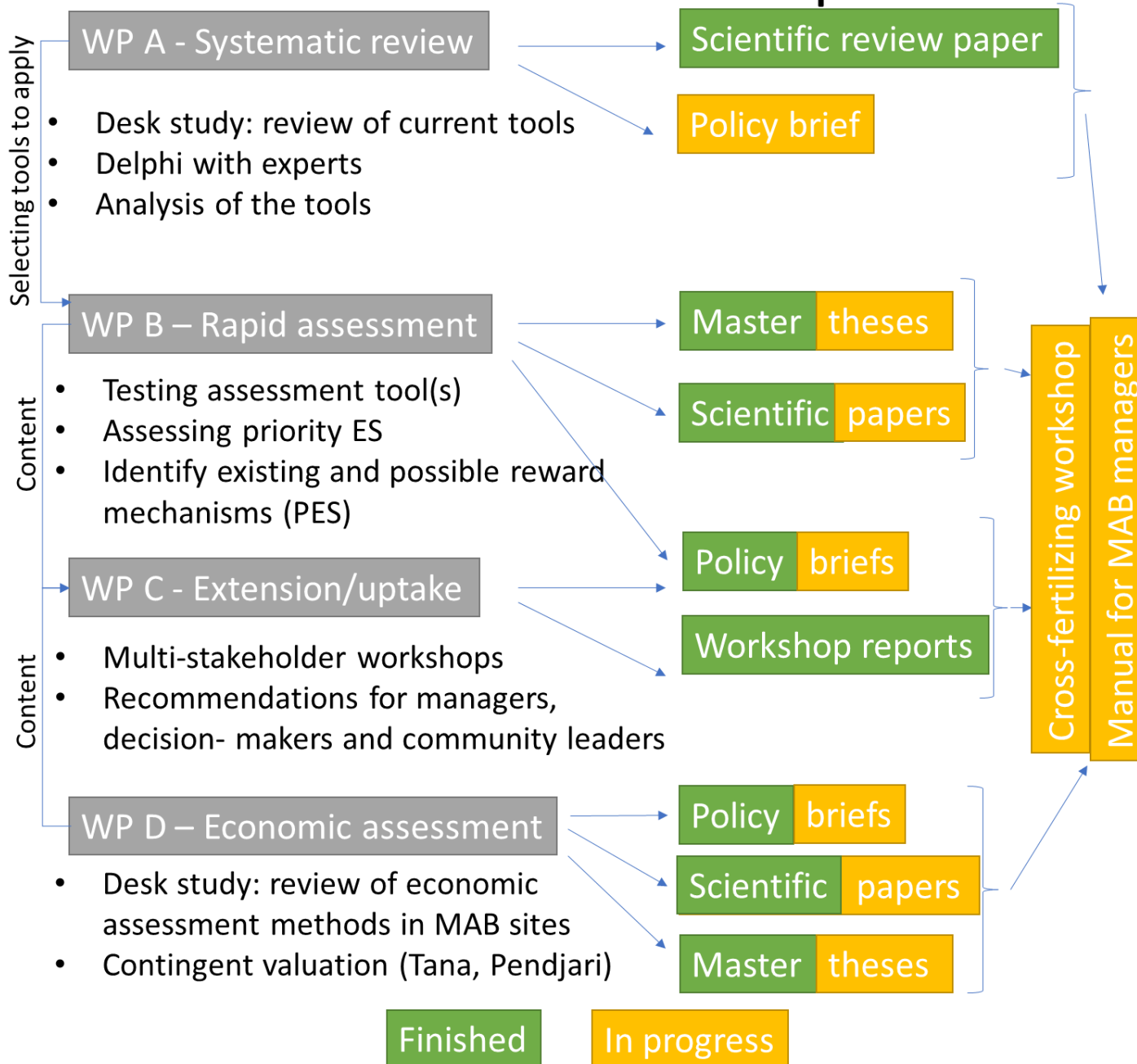
- To select, test and adapt rapid assessment tools
- To formulate pertinent stakeholder engagement and policy advice for managers and decision-makers
 - e.g. Reward mechanisms, PES: Payment for Ecosystem Services

Work packages

- **WP A:** literature survey of rapid assessment methods and tools for ecosystem services related to MAB sites
- **WP B:** rapid assessment of ES in 4 selected MAB sites
- **WP C:** science-policy interface
- **WP D:** economic valuation of Ecosystem Services and guidelines for reward mechanisms

Activities

Outputs

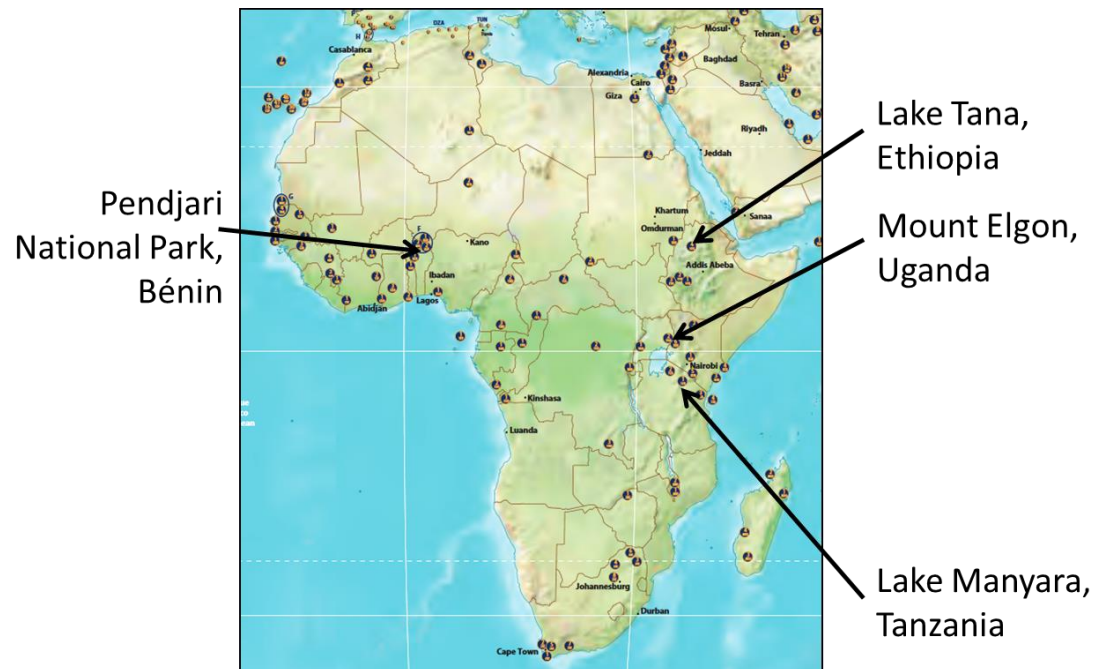


WP A: Rapid assessment tools

- Review (desk study) of existing tools for assessing ES
- Analysis and classification of 19 selected tools
- > Scientific paper
- > Summary in the MAB manual

WP B: assessment of ES in 4 selected MAB sites

- Testing assessment tool(s)
- Assessing priority ES
- Identify existing and possible reward mechanisms (PES)



WP C: science-policy interface

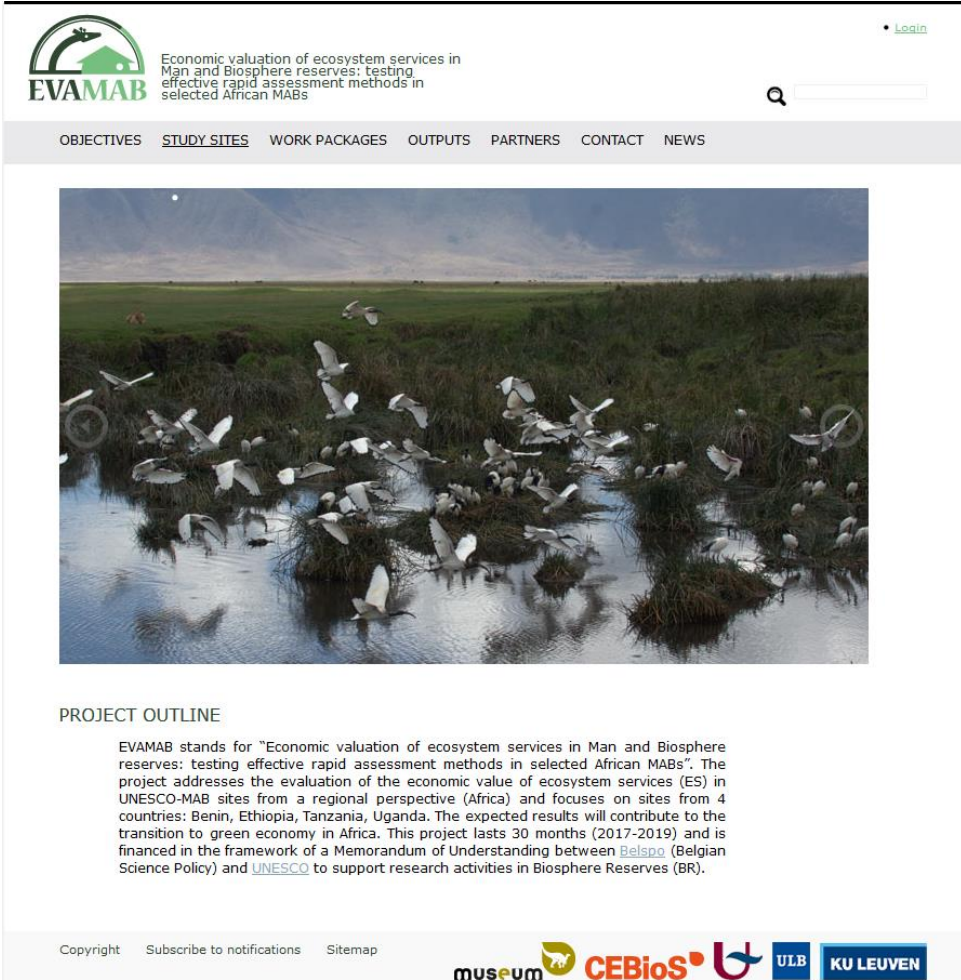
- Uptake of results by stakeholders
- Recommendations for managers, decision- and policy makers and community leaders
- Sharing results with the scientific community

- Stakeholders workshops
- Policy briefs
- Research papers
- Presentations at conferences
- EVAMAB website
- Manual for AfriMAB
- Cross-fertilizing workshop in Ethiopia



Sharing results

- EVAMAB website <http://www.biodiv.be/evamab/>



EVAMAB Economic valuation of ecosystem services in Man and Biosphere reserves: testing effective rapid assessment methods in selected African MABs

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PROJECT OUTLINE

EVAMAB stands for "Economic valuation of ecosystem services in Man and Biosphere reserves: testing effective rapid assessment methods in selected African MABs". The project addresses the evaluation of the economic value of ecosystem services (ES) in UNESCO-MAB sites from a regional perspective (Africa) and focuses on sites from 4 countries: Benin, Ethiopia, Tanzania, Uganda. The expected results will contribute to the transition to green economy in Africa. This project lasts 30 months (2017-2019) and is financed in the framework of a Memorandum of Understanding between [Belspo](#) (Belgian Science Policy) and [UNESCO](#) to support research activities in Biosphere Reserves (BR).

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WP C: Presentation of the project at conferences and meetings

- AfriMAB meeting 2017 (Nigeria)
- Ecosystem Services Partnership (ESP) regional conference - Africa 2019 (*Togo, June 2019*)
“Management of ES for Nature Conservation and Human Wellbeing in Africa”
 - session about “Rapid ecosystem services assessment tools in Africa: where are we now and where are we heading?”
- AfriMAB meeting (*Ivory Coast, 2019*)
- ESP World Conference 10 (*Hanover, 21-25 October 2019*)
- CBD COP 2020 (*Beijing, November-December 2020*)



WP C: scientific publications

Submitted:

- Economic valuation of ecosystem services in African Man and Biosphere Reserves
- Farmers' perspectives on payments for watershed services in Uganda
- Rapid assessment tools for the evaluation of ecosystem services and management options in African Biosphere Reserves: a review

Ongoing:

- Rapid assessment of ecosystem services in African Man & Biosphere Reserves: methodological insights from the field (about nominal group technique, Q methodology and Tessa methodology in different MAB sites/protect areas)
- Integrated social-ecological assessment of Lake Manyara, Tanzania: a mixed methods approach
- Multi criteria Decision analysis to select management options for ecosystem services in Pendjari Biosphere Reserves
- A systematic review of ecosystem services research on the Pendjari Biosphere Reserve: current state and the way forward
- Willingness to contribute for water hyacinth control in Lake Tana, Ethiopia
- DevCo & Carbon payments to realise a bundle of ecosystem services case Mt. Elgon

WP D: Economic valuation of Ecosystem Services and guidelines for reward mechanisms

- Review paper ‘Economic valuation of ecosystem services in African Man and Biosphere Reserves’
- More in-depth economic valuation for two sites: Lake Tana and Pendjari
 - Ecosystem valuation: a contingent valuation exercise of the water hyacinth infestation in Lake Tana, Ethiopia
 - Analysing the drivers to invade a protected national park: a case study of Pendjari Biosphere Reserve, Benin
 - Willingness to accept to not invade a protected national park, Pendjari Biosphere Reserve, Benin: a contingent valuation study
- Willingness to pay experiments in Lake Tana and Mt. Elgon

Programme of the workshop

Monday May 13, 2019:

Time	Subject	Presenter
14.00	Welcome address by UNESCO	UNESCO Director, Addis Ababa
14.15	Welcome word by the Belgian embassy	Ambassador of Belgium, H.E. Mr. François Dumont
	Opening address Government of Ethiopia	Minister of environment
	Group photo	
14.30	The MAB programme	UNESCO Paris
14.40	Introduction to CEBioS and the EVAMAB project	Luc Janssens de Bisthoven (CEBioS)
Findings of the EVAMAB project – Part 1		
15.10	Introduction to EVAMAB tools assessment	Anne-Julie Rochette (CEBioS) and Jean Hugé (ULB)
15.40	Evamab results from Lake Tana BR	Daregot Benihun (Bahir Dar University), Steven Van Passel (UAntwerpen)
16.40	Coffee break	
17.10	UNESCO Film about Lake Tana	
18.00	Reception	

Tuesday May 14, 2019:

Time	Subject	Presenter
Findings of the EVAMAB project – Part 2		
9.00	Evamab results from Lake Manyara BR	Noelia Myonga (Lake Manyara NP), Linus Munishi (NMAIST), Luc Janssens de Bisthoven, Anne-Julie Rochette (CEBioS)
10.00	Coffee break	
10.30	Evamab Results from Pendjari BR	Jean-Didier Akpona, Romain Glèlè Kakaï (UAC), Jean Hugé (ULB), Steven Van Passel (UAntwerpen)
11.30	Evamab results from Mount Elgon BR	Zerubabeeli Naturinda (Busitema University) Fred Kizza (Mt Elgon BR), Bruno Verbist, Koen Vanderhaegen (KU Leuven)
12.30	LUNCH	
Ecosystem services and the MAB programme		
13.30	The MAB programme in Ethiopia	Ethiopian MAB National committee
14.00	Co -investment in ecosystem services: global lessons from payment and incentive schemes	Meine Van Noordwijk (World Agroforestry Center)
14.30	Canadian BR reserves approach to valuation of ES	Liette Vasseur (Canadian MAB Committee)
15.00	COBAFISH: research project dealing with ES in MAB Yangambi BR, DR Congo	Erik Verheyen (CEBioS)
15.30	Coffee break	
16.00	Ecosystem services approach in other Biosphere Reserves	Abena Dufie Wiredu Bremang (Lake Bosomtwe BR, Ghana)
16.30	Presentation of the Draft Manual on Ecosystem Services for MAB managers	Anne-Julie Rochette (CEBioS), Jean Hugé (ULB)
16.50	Working Session I: formulating recommendations for the Manual	
17.30	Adjourn	

Wednesday May 15, 2019:

Time	Subject
09.00	Working Session II: formulating recommendations for the Manual
10.30	Coffee Break
11.00	Working Session III: formulating recommendations for the Manual
12.30	Lunch
13.30	Working Session IV: formulating recommendations for the Manual
15.00	Coffee Break
15.30	Synthesis of the recommendations for the Manual
17.30	Adjourn

Thursday May 16, 2019:

Field and working visit to Lake Tana Man & Biosphere Reserve

Friday May 17, 2019:

09.30-12.30: Conclusions of the workshop & wrap-up

12.30: Lunch

Evening: first departures of participants

Saturday-Sunday 18-19 May, 2019:

Departures of the participants

Who is participating?

- Ethiopian authorities
 - Unesco-Mab
 - Scientists
 - Mab managers
 - Belspo
-
- Ghana, Uganda, Ethiopia, Belgium, Tanzania, Benin, Canada, The Netherlands



Thank you!

Lake Victoria, biodiversity hotspot for e.g. Cichlidae, basin of 35 Million people and 5 countries, Photo@L. Janssens de Bisthoven