

# Annual report 2020

Operational document for staff and partners



Niger River in Niamey, Niger@LucJdB

## Annual report for the 2020 budget

Implementation: 1 January 2020-30 May 2022

Document prepared by L. Janssens de Bisthoven, H. de Koeijer, F. Muhashy Habiyaemye, A.-J. Rochette, E. Verheyen, H. Keunen, Lucie Ongena, Vincent Pinton, Esther Roex, Kristien Vrancken, Geneviève Lacroix, Katrijn Baetens, Matthieu Taymans, UAC team (Benin), OBPE team (Burundi), CSB team (RD Congo).

05-07-2022



Lake Nokoué, Bénin @LucJdB

## ACRONYMS

<b>ABS</b>	Access and Benefit Sharing
<b>ACARE</b>	African Center for aquatic research and education
<b>AI</b>	Agenda Item
<b>ACC</b>	Accord-Cadre de Coopération
<b>ACNG</b>	Acteurs de coopération non gouvernementale
<b>APN</b>	African Parks
<b>APNCB</b>	Archives des Parcs Nationaux Congo Belge
<b>ARES</b>	Académie de recherche et d'enseignement supérieur
<b>AVEDEC</b>	Association villageoise d'entraide et de développement communautaire
<b>AVIGREF</b>	Union des Associations Villageoises de Gestion des Réserves de Faun
<b>ASREEBU</b>	Association pour la Restauration et l'Enricissement de l'Environnement au Burundi
<b>AW</b>	Awareness
<b>BELSPO</b>	Belgian Federal Science Policy
<b>BES</b>	Biodiversity and Ecosystem Services
<b>BRAIN</b>	Belgian Research Action through Interdisciplinary Networks
<b>CB</b>	Capacity building
<b>CBD</b>	Convention on Biological Diversity
<b>CBD NFP</b>	National Focal Point to the Convention on Biological Diversity
<b>CBFP</b>	Congo Basin Forest Partnership
<b>CEIBA</b>	ONG au Bénin
<b>CENAGREF</b>	Centre National de Gestion des Réserves de Faune (Benin)
<b>CEPA</b>	Communication, Education and Public Awareness
<b>CERUKI</b>	Le Centre de recherches universitaires du Kivu
<b>CHM</b>	Clearing House Mechanism
<b>CIFOR</b>	Center for International Forestry Research
<b>CITES</b>	Convention on International Trade in Endangered Species of wild fauna and flora
<b>CMS</b>	Content Manager System
<b>CNEDD</b>	Conseil National de l'Environnement pour un Développement Durable, Niger
<b>COHERENS</b>	Coupled Hydrodynamic Ecological Model for Regional Shelf Seas
<b>COLA</b>	Commission of Lands
<b>COP</b>	Conference of the Parties
<b>COPBH</b>	Belgian Community of Practice on Biodiversity & Health
<b>CRH</b>	Centre de Recherche en Hydrobiologie, D.R. Congo
<b>CSB</b>	Centre de Surveillance de la Biodiversité, D.R. Congo
<b>DDD</b>	Direction de Développement Durable, D.R. Congo
<b>DGD</b>	Belgian Development Cooperation
<b>DRC</b>	D.R. Congo
<b>ECOMOD</b>	Group in OD Nature (RBINS) on modelling
<b>EQA</b>	Environment Quality Authority
<b>ES</b>	Ecosystem services
<b>FAO</b>	Food and Agriculture Organization of the United Nations
<b>FORTTRAN</b>	Formula Translating System
<b>FTE</b>	Full time equivalent
<b>GBIF</b>	Global Biodiversity Information Facility
<b>GEOBON</b>	Group on Earth Observations Biodiversity Observation Network

<b>GIS</b>	Geographic Information System
<b>GTI</b>	Global Taxonomy Initiative
<b>IAC</b>	Independent Advisory Committee
<b>ICCB</b>	International Congress for Conservation Biology
<b>ICCN</b>	Institut Congolais pour la Conservation de la Nature, D.R. Congo
<b>IT</b>	Information Technology
<b>IEBR</b>	Institute of Ecology and Biological Resources, Vietnam
<b>IFS</b>	International Foundation for Science, Sweden
<b>INECN</b>	Institut National pour l'Environnement et la Conservation de la Nature, Burundi (maintenant OBPE)
<b>IOB</b>	Instituut voor Ontwikkelingsbeleid
<b>IPBES</b>	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
<b>IRD</b>	Institut de Recherche pour le Développement, France
<b>IRHOB</b>	Institut de Recherches Halieutiques et Océanologiques du Bénin
<b>IUCN</b>	International Union for Conservation of Nature and Natural Resources
<b>JSF</b>	Joint Strategic Framework
<b>KULeuven</b>	Universiteit Leuven, Belgium
<b>LEM</b>	Method for habitat monitoring
<b>KAOW</b>	Koninklijke Academie Overzeese Wetenschappen
<b>M&amp;E</b>	Monitoring & Evaluation
<b>MAB UNESCO</b>	Man and Biosphere programme
<b>MEA</b>	Multilateral Environment Agreement
<b>MEDD</b>	Ministère de l'Environnement de Développement Durable, R.D. Congo
<b>MBG</b>	Meise Botanic Garden, Belgium
<b>MRV</b>	Measuring, Reporting and Verification
<b>NAFIRRI</b>	National Fisheries Resource Research Institute
<b>NEMA</b>	National Environment Management Authority Uganda
<b>NGO</b>	Non-Governmental Organisation
<b>NP</b>	Nagoya Protocol
<b>NBSAP</b>	National Biodiversity Strategy and Action Plan
<b>NM-AIST</b>	Nelson Mandela African Institution of Science and Technology, Tanzania
<b>OBPE</b>	Office Burundais pour la Protection de l'Environnement (avant : INECN), Burundi
<b>OECD</b>	Organisation for Economic Co-operation and Development
<b>PIC</b>	Prior Informed Consent
<b>PNKB</b>	Parc National de Kahuzi-Biega, D.R. Congo
<b>PN</b>	Parc National
<b>PNP</b>	Pendjari National Park
<b>PTK</b>	Portal Toolkit
<b>RBINS</b>	Royal Belgian Institute of Natural Sciences, Belgium
<b>RCA</b>	République centrafricaine
<b>RMCA</b>	Royal Museum for Central Africa (now AfricaMuseum)
<b>SANBI</b>	South African National Biodiversity Institute, South Africa
<b>SBI</b>	Subsidiary Body on Implementation
<b>SBSTTA</b>	Subsidiary Body on Scientific, Technical and Technological Advice
<b>SDG</b>	Sustainable Development Goals
<b>SECORES</b>	Network for resilient ecosystems (joint thematic framework)
<b>SIG</b>	Système d'information géographique

<b>SP/CONEDD</b>	Burkinabe Permanent Secretariat of the National Council for the Environment and Sustainable Development
<b>SSC</b>	South-South Cooperation
<b>UAC</b>	Université d'Abomey- Calavi, Benin
<b>UA</b>	Universiteit Antwerpen, Belgium
<b>UB</b>	Université du Burundi, Burundi
<b>UCL</b>	Université catholique de Louvain, Belgium
<b>ULB</b>	Université Libre de Bruxelles, Belgium
<b>ULg-Gblx</b>	Université de Liège - Gembloux Agro-Bio Tech, Belgium
<b>UNEP</b>	UN Environment Program
<b>UNESCO</b>	United Nations Educational, Scientific and Cultural Organization
<b>UNIBU</b>	Université de Bukavu
<b>UNIGOM</b>	Université de Goma, D.R. Congo
<b>UNIKIS</b>	Université de Kisangani, D.R. Congo
<b>UNILU</b>	Université de Lubumbashi, D.R. Congo
<b>UOB</b>	Université Officielle de Bukavu, D.R. Congo
<b>VLIR-IUC</b>	VLIR Inter-university Cooperation
<b>VLIR-SI</b>	VLIR South Initiative
<b>VLIR-UOS</b>	Flemish Interuniversity Council, Development Cooperation, Belgium
<b>VLIZ</b>	Vlaams Instituut voor de Zee
<b>VUB</b>	Vrije Universiteit Brussel, Belgium
<b>VVOB</b>	Vlaamse Vereniging voor Ontwikkelingssamenwerking en technische Bijstand, Belgium
<b>WCMC</b>	UNEP World Conservation Monitoring Centre
<b>WEOG</b>	Western European and Others Group
<b>WNP</b>	W National Park Niger, Bénin
<b>WWF</b>	World Wide Fund for Nature

## LIST OF TABLES

General data

Programme presentation

Indicators of the logical framework

Table 1:	Selected trainees under the 2020 GTI call and institutional collaboration
Table 2:	GTI North – South projects selected under the 2020 call
Table 3:	EN MRV projects selected after the Entebbe workshop in February 2020
Table 4:	Participants to the training sessions on relational data-basis and GIS, 11-16 March 2022
Table 5:	Projects selected under the 2020 CHM call
Table 6:	Projects selected under the 2020 awareness call
Table 7:	Projects selected under the 2020 GTI awareness call
Table 8:	Summary of distribution of ABC Taxa volumes in 2020

Financial report

# Contents

Acronyms	3
List of Tables	6
Identity sheets	8
Introduction	11
Executive Summary	11
1- Financial report 2020	18
2-Report 2020 per indicator	30
3-Institutional Cooperation	41
4- Capacity building through project calls	45
<i>Calls for Global Taxonomy Initiative (GTI)</i>	45
<i>Calls for Monitoring-Reporting-Verification (MRV) projects</i>	48
<i>Calls for Clearing House Mechanism and awareness</i>	52
5-Capacity building through manuals	54
The lexica .....	54
AbcTaxa .....	55
Policy briefs .....	56
Evamab manual .....	57
6-CEBioS' staff activities, visibility, other projects & social media	58
External projects.....	58
Conferences/ webinars .....	58
Missions by CEBioS staff on 2020-budget.....	58
Publications .....	59
Press & public awareness .....	60
Social media & web site .....	60
7-Synergy and complementarity with other cooperation actors	60
8-Management of CEBioS	62
<i>The staff</i> .....	62
<i>Monitoring &amp; Evaluation</i> .....	63
<i>Gender</i> .....	65
Annex 1: social media & web site statistics	66
Annex 2: annual financial report 2020	70

## IDENTITY SHEETS

### General data

ID	Name	Abbreviation	Country	Address	Tel.	Fax	Email address	Website	Status	Activity	Project account number
Head office											
Secretariat	Royal Belgian Institute of Natural Sciences, CEBioS	RBINS	Belgium	Vautierstraat 21, 1000, Brussels	+32(0)26 27 45 87		ljanssens@naturalsciences.be	<a href="http://www.biodiv.be/cebios2/">http://www.biodiv.be/cebios2/</a>	Federal scientific institution	Research and outreach in natural sciences	
Manager	Luc Janssens de Bisthoven		Belgium	CEBioS, RBINS	+32(0)26 27 45 87		ljanssens@naturalsciences.be				
Contact person	Luc Janssens de Bisthoven										
Local partner	Université Abomey-Calavi	UAC	Benin						Public university	Academic	
	Office Burundais pour la Protection de l'Environnement	OBPE	Burundi						Agency of the Ministry	Management of protected areas	
	Centre de Surveillance de la Biodiversité	CSB	DR Congo						Research Institute	Monitoring & research biodiversity	
	Université de Kisangani, Université de Kinshasa, Université de Lubumbashi, Université de Goma, Université Officielle de Bukavu	UNIKIS UNIKIN UNILU UNIGOM UOB	DR Congo						Public universities	Academic	



	Institut Congolais pour la Conservation de la Nature	ICCN	DR Congo						State agency	Management of the National Parks	
	Institut de Recherches Halieutiques et Océanologiques du Bénin	IRHOB	Bénin						Research Institute	Protection of coastal systems	
	Ministries of Environment of Benin, Burundi, DR Congo, Togo, Niger, Morocco, Palestinian Territories, Uganda, Tanzania and their agencies		Various countries in Sahel, Palestina, Maghreb and West and East Africa						Ministries	Collaboration national Clearing House Mechanism, NBSAP	
Secretariats	Various										
Managers	On demand										
Contact persons	Various, no office in the South										
Target group	Researchers, civil servants										

## Programme presentation

DATA	
Project number	
Original title	CEBioS- 'Building capacities for Biodiversity and Sustainable development'
French title	CEBioS- 'Renforcer les capacités pour la Biodiversité et le Développement durable'
Dutch title	
English title	CEBioS- 'Building capacities for Biodiversity and Sustainable development'
Contact person	Dr. Luc Janssens de Bisthoven
Service	
Intervention number	
Basic contribution	

Budget heading	
Executing body	Royal Belgian Institute of Natural Sciences
Project code of executing body	
Executing body: other	
Subcontractor	none
Local partners	Universities, research institutes, ministries and their agencies, development actors in developing countries
Implementation period (months)	2019-2023
Country of implementation	Priority in Benin, Burundi, and DR Congo. 25 other countries eligible for certain interventions, in Africa, and SE Asia
Region of implementation	Africa, SE Asia
Province/Department	Benin: coast and North/ Burundi: entire country/ DR Congo: entire country with focus on Kisangani, Goma, Bukavu and Lubumbashi
Local situation	fragile
Type of funding	
Bilateral/Multilateral/NSA	
Info (ODA, PBA, etc.)	
Group/Programme	

TO BE COMPLETED BY THE DGD TO BE COMPLETED BY THE PARTNER

## INTRODUCTION

This annual report for 2020 concerns the second year of the second phase (2019-2023) within the 10-year strategy (2014-2023) of the CEBioS programme, financed by DGD and based at the Royal Belgian Institute of Natural Sciences.

The year 2020 follows a simplified logframe containing 40 indicators, as approved by the 13<sup>th</sup> steering committee of 24.10.2019.

Due to the political decision delays and the pandemic, many 2020 activities related to travel abroad (internships, missions, workshops) were delayed. The expenditure period for the budget 2020 was prolonged until May 2022 upon agreement with the 17<sup>th</sup> steering committee of 09.11.2021. Therefore, this annual report 2020 was produced in June 2022.

## EXECUTIVE SUMMARY

### Institutional cooperation

Our cooperation in **Burundi** with the 'Office Burundais pour la Protection de l'Environnement' (OBPE) was pursued along several axes: research, Global Taxonomy Initiative (GTI), Measurement-Reporting-Verification (MRV), Clearing House Mechanism (CHM) and habitat monitoring.

More specifically, OBPE, supported by the Institutional cooperation with CEBioS, validated three management plans supported by FAO for the protected areas. Awareness raising was done in 3 sessions with OBPE staff, Institut des Sciences Agronomiques and FOMI (fertiliser company) and scientists of the University of Burundi. A strong synergy was established between CEBioS, OBPE, AVEDEC, ASREEBU and PROCOBU (local associations or NGOs), together with Join for Water to promote awareness of school children and local villagers on indigenous trees (exemplified in the Ruzizi arboretum), as well as using them to stabilise the soil around water sources. One OBPE staff visited the AfricaMuseum for a GTI grant on pollinator flies. Special focus was given to fire management, Raphia, pollinators and the threatened bamboo stands in protected areas on ecosystem services. This led to several Masters and 3 articles submitted, as well as a further development of the herbarium of the OBPE. The national Focal Point for CHM of Burundi was also instrumental in migrating the CHM site towards the new CMS 'Bioland'. Based on a strong collaboration between OBPE, University of Burundi and CEBioS, a lexicon (245p.) on the current state of the habitats and guide to monitoring their dynamics in the PN Ruvubu was published. A regional workshop (ICCN, OBPE, UAC) on the management of vegetation fires in protected areas was successfully organised.

In **Benin** we continued our collaboration with the 'Université d'Abomey-Calavi' (UAC), the University of Parakou and the 'Institut de Recherches Halieutiques et Océanologiques du Bénin' (IRHOB).

Dr. Hamed Odountan represented CEBioS in activities related to synergies and complementarities of the Joint Strategic Framework Benin and SECORES.

The UAC continued its work on fire management and habitat monitoring in the Pendjari National Park to minimize negative impacts on ecosystems. Acquired knowledge and skills were applied in the PN "W", situated to the North of Pendjari NP. Habitat monitoring was trained at the UAC and

in situ on two occasions, involving both scientists and ecoguards of African Parks (responsible for management of PNP and WNP, and AVIGREF (village associations). Hence the work supported a Master thesis and two PhD researchers (on termites, on fire and vegetation and on fire management & grazers). Three scientific articles are submitted.

The actual lexicon on Pendjari is now being revised and extended with data from WNP.

Concerning the cooperation with IRHOB on marine modelling with [COHERENS](#) (open access software developed at RBINS), monitoring work has been performed to better understand the dynamics of the Cotonou channel linking the ocean with Lake Nokoué in terms of depth, currents and salinity. Shrimp landings have been investigated as well in order to estimate the potential of shrimp for food security and possible export to the EU, with some interest shown by the Belgian embassy and the Colruyt Group. This work supports two PhDs who also spent two months in Belgium to optimize their modelling skills and to start the implementation of the COHERENS model on the Gulf of Guinea.

In the **DR Congo** our cooperation supported the Centre de surveillance de la biodiversité at the university of Kisangani and the habitat monitoring at four protected areas managed by ICCN (PN Kahuzi Biega, PN Virunga, Bombo Lumene, Lwama -Kivu Hunting Reserve). Concerning the cooperation supporting the CSB, monitoring of biodiversity combined with socio-ecological surveys have been conducted as an 'institutional MRV project', in 'la collectivité de Baboro (Territoire de Banalia)' in the Northern part of the Tshopo Province. It concerned small and large mammals, insects, fishes, zoonoses risk assessments, determination of the types and the dynamics of habitats, combined with awareness activities with the local population on the sustainable use of natural resources. CSB continued the digitisation of grey literature present on the campus and its activities as secondary CHM for the country. Training sessions on collection and statistical analysis of survey data, the use of Kobotools, management of relational data-bases, GIS and habitat monitoring were organised for CSB and campus staff.

The CSB organised a training workshop on relational databases (Access) and Geographic information Systems (GIS) was organised by the CSB for attendees from the DRC, Burundi and Benin in March 2022 (budget 2020)

Concerning habitat monitoring, studies of students were supported for the universities of Kisangani, Goma, Lubumbashi and Bukavu. UOB carried out an assessment of floristic potential and over-exploitation of red wood in Lwama Kivu Hunting Reserve. UNILU continued its work on clear (miombo) and dry (mihulu) forests, typical for the Copperbelt of Katanga Province. The use of drones helped to better identify health bio-indicators for these ecosystems. UNIKIS focused on understanding the diversity and culture of wild coffee. Finally, UNIKIS did research on carbon flux and stock in Yoko Forest reserve. Several scientific articles are submitted.

### **Capacity building through calls for projects**

#### **Global Taxonomy Initiative (GTI):**

The 2020 GTI call for internships in Belgium involved 10 researchers (3F and 7M) coming from Benin (5), DRC, Morocco, Ivory Coast, Burundi and Rwanda. The themes ranged from fish, fungi, crabs, plankton (Benin) to insects, pollinators, ants and ground water fauna.

Concerning our Belgian researchers with a GTI grant doing capacity building in the South, we had 4 researchers active in Benin (ground water invertebrates and drinking water; fishes), Rwanda

(course on ants and their links to ecosystem services) and Vietnam (insect biodiversity in hotspots of rain forest, postponed in 2022 due to covid). A project in Mozambique about marine biodiversity was cancelled due to security issues and covid.

Further, a training on DNA bar-coding originally scheduled in Morocco in cooperation with UHasselt and IRD (France) at the University of Rabat, was postponed (Covid) and finally split into a component in Morocco (scheduled in September 2022) and in Benin, University of Parakou (March 2022).

#### **Monitoring-Reporting-Verification (MRV):**

As a follow-up on the Bukavu workshop with academics of the Eastern part of the DRC about the MRV concept (budget 2019, workshop held in march 2020) a policy brief was developed in 2020, entitled '*Suivi de la biodiversité en RD Congo : comment le rendre efficace et pertinent pour la gestion et décision*'. It was published in 2021.

MRV supported OBPE in Burundi on investigating the status of the endangered trees *Cordia Africana* (= national tree in Burundi, providing the wood for the royal drums) and *Kigelia* and linked indicators of conservation.

The 'institutional MRV project' of the CSB with the multidisciplinary monitoring of the Baboro area, produced a baseline and the identification of indicators for future monitoring.

Eight FR MRV projects selected in 2019 that had to be finished in 2020, were prolonged because of the Covid situation (OBPE in Burundi (human-wildlife conflicts), CRH in Uvira (RDC, on sardine dynamics of Lake Tanganyika), FAST in Benin (medicinal plants), CSB in DRC (bushmeat), SCRID-AGRI in DRC (sustainable fisheries), CEIBA in Benin (forest cover), UOB in DRC (fisheries in Lake Kivu) and CRH in DRC (degradation in Ruzizi plain).

Five EN MRV projects were selected and started up, following a workshop in Entebbe in February 2020 (budget 2019): one by NEMA in Uganda (value chain shea nut), EQA in Palestine (biodiversity conservation), COLA in Zanzibar (land use management), NMAIST in Tanzania (fisheries in Lake Manyara), NAFIRRI in Uganda (fish data base).

A training on relational databases (Access) and Geographic information Systems (GIS) was organised by the CSB for attendees from the DRC, Burundi and Benin in March 2022 (budget 2020) CEBioS was present at the GEOBON conference with abstracts and posters explaining the MRV concept developed in the programme.

#### **Clearing House Mechanism (CHM):**

Due to the COVID pandemic all training courses and meetings had to be cancelled in 2020. The training workshops for the Bioland tool (=new CMS for CHM as decided by the CBD secretariat) and the national CHM workshops were replaced by two project calls. Burkina Faso and Guinea received funds through the Bioland call to migrate their CHM to Bioland. Togo, RD-Congo and Niger were selected to improve their CHM towards Bioland through the national CHM workshop call. Some national trainings were given online on the Bioland tool (essentially the migration from the CMS PTK to the CMS Bioland) to Lebanon (funded by IUCN-ROWA and CEBioS), Benin and Madagascar (South-South training given by Burundi and CEBioS online).

A regional Bioland training Workshop for Francophone Africa was supposed to be organized by CEIBA NGO in Benin in March 2020. Preparations had already started before the pandemic and had to be paid. The remaining funds were used to reinforce activities in Benin by CEIBA such as: to have an extension of their MRV awareness project; a Bioland training with 8 civil servants and scientists in Cotonou; a public awareness activity on the 52 actions for biodiversity booklet. In

December 2021, a regional CHM meeting was held in Niamey (Niger) with the participation of 8 partner countries.

The annual call 2020 to improve the national CHM received 12 projects proposals. The projects from Burundi, Guinea, Morocco, Niger, RD Congo, Rwanda and Togo were retained.

CEBioS supported the expansion of the digital library of the CSB and the posting of documents to the CHM, by assuring the automation of internet access with the installation of solar panels, batteries etc. Burundi moved as first partner country officially to the Bioland tool in 2020.

### **Awareness**

The annual call 2020 for public awareness projects received 17 project proposals. Projects from Benin (2), RD Congo (3), Rwanda and Togo were accepted to organize awareness raising activities. Moreover, a special call for GTI alumni was organised under the 2020 budget. GTI alumni were invited to submit awareness raising activities on the subjects that they had studied to inform the public on the results and the link to the SDGs. Projects of GTI alumni from Burundi, Benin (4) and RD Congo were selected.

### **Capacity building through manuals**

#### **Lexica**

In 2020, the lexicon on the habitats of Ruvubu National Park (Burundi) was published. It is the fruit of a successful collaboration between CEBioS, OBPE and the university of Burundi and will be a valuable tool to better understand this protected area by decision makers, 'ecogardes' and visitors. It is an essential didactic guide for the implementation of monitoring habitats dynamics. It is also an important support for awareness raising actions on the conservation of the PNRu, especially since for most of the 433 Latin names of plants recorded in this manual, correspondent names in Kirundi express the services provided by these species.

In addition, 80% of the illustrations required for the edition of the next lexicon dedicated to the habitats of the Itombwe Nature Reserve (DRC) were prepared.

#### **AbcTaxa**

In 2020, a AbcTaxa volume 20 was published on a genus of Rubiaceae (coffee family) by a Cameronese alumni. The presentation of AbcTaxa at the International Congress of Zoology by a local researcher in Durban (South Africa) was also supported.

#### **Policy Briefs**

In 2020, an important policy brief was produced in French, English and Kiswahili (Nr. 15) on "A critical look at fishing in Lake Tanganyika: will future generations still have access to fish?". This was based on a participative workshop held in Uvira in the framework of a PhD thesis by Els Dekeyzer (KULeuven) and a VLIR-UOS South Initiative. It was disseminated through DGD (Telops) and the embassies in Burundi and DRC. A scientific article was published on the perceptions of fishermen and sardine fisheries in Lake Tanganyika in the

Journal of Great Lakes Research , and disseminated as well through several media (e.g., 'Conservation Frontlines').

Another key policy brief '*Suivi de la biodiversité en RD Congo : comment le rendre efficace et pertinent pour la gestion et décision*', was edited in 2020 for publication in 2021. Based on discussions by more than 100 scientists, NGOs and decision-makers from DRC in a participatory workshops in Kisangani (2017) and in Bukavu (2019), it is an important call for more coordination in the country for sharing and organizing biodiversity data and reporting.

### Policy support

CEBioS participated to the preparatory meetings of Belgium, the EU and the CBD for COP 15 of CBD (postponed several times and now scheduled for December 2022 in Montreal. Han de Koeijer was lead author for the EU for SBI3-Agenda Item 7 on capacity building and development, technical and scientific cooperation, knowledge management and the CHM, communication and Belgian lead for SBI-AI5 on Capacity building for the Cartagena Protocol, communication and gender; SBI-AI9 on reporting, monitoring and review; SBSTTA-24 AI3 on the monitoring framework and OEWG3 Targets 19-21 and Sections H to K of the post 2020 Global Biodiversity Framework. Representatives from Burundi and Niger were supported by CEBioS to attend SBI3/SBSTTA24/OEWG3 I Geneva 2022. The CHM Award jury meeting was organised by CEBioS and took place at RBINS in April 2022. Funding for the participation of the jury member from Cameroon was paid for under the 2020 budget. The results can't be published as they will be announced during COP15, some partner countries might receive awards for their national CHMs.

### Other CEBioS' activities and outputs or outcomes

- We registered 471000 e-visitors to our archives, CHM and web sites.
- More than 400 CHM web pages /items were created on CHMs, GBIF and the archives of the national parks of former Belgian Congo ([www.apncb.be](http://www.apncb.be)) through the direct support of CEBioS.
- Scanning of the archives of Jacques Verschuren (former head of ICCN) and the Leopold III by job students resulted in more than 1500 scanned pictures, letters and notes.
- The CEBioS supported MRV projects were contributions to the 6<sup>th</sup> National Report on Biodiversity of the DR Congo, (see <https://www.cbd.int/doc/nr/nr-06/cd-nr-06-fr.pdf>), and information available on the national CHM in the national reports by Belgium, Benin, Morocco, Niger and Togo.
- NBSAP forum: Belgian success story: <https://nbsapforum.net/knowledge-base/best-practice/raising-biodiversity%E2%80%99s-public-profile-belgian-success-story>
- Mention of the work in Belgium with the tool for national reporting developed by CEBioS and the EU. Review of chapter by Han de Koeijer, CEBioS.
- Contribution to revision by Luc of EU IUCN Biodiversity strategy.
- Feedback by Luc to the IUCN Commission CEC (education & capacity building) draft strategy.
- Luc reviewed the UNEP report on zoonoses : Preventing the next pandemic - Zoonotic diseases and how to break the chain of transmission,

<https://wedocs.unep.org/bitstream/handle/20.500.11822/32316/ZP.pdf?sequence=1&isAllowed=y>

- Contribution to EPR OECD questionnaire.
- Participation to CBFP meetings.
- Revision for Belgian position by Luc of Summary of Assessments of valuation of ecosystem services and sustainable use of wildlife for IPBES-9 in Bonn (July 2022).
- Policy Brief on bushmeat: 900 reads on Research Gate.
- Prof Nourou (Un Parakou, Bénin), collaborator of CEBioS, nominated as corresponding member of KAOW.
- Expert of Guinée Bissau Bucar Indjai gave excellent feedback about the AbcTaxa series:

I congratulate you for the important work and initiative you are developing on the conservation of biological diversity, in this particular case of flora. Because for conservation to be successful, we must first know what existed in the past and we have it today in our forests and cities.

In the particular case of Guinea-Bissau with more than 26% of the national territory decreed as protected areas, we still have a great lack of well-trained professionals to face the challenges of conserving our forests.

On this basis, I express my interest in receiving 4 copies of volume 20, in reference to make available in our library.

You can send it to the following address of my institution:

INEP, CP 112 Bissau.

Avenida Combatentes da Liberdade da Pátria.

Complexo Escolar 14 de Novembro

14 de Novembro school complex.

Guiné-Bissau

Cordialmente,  
Bucar Indjai

- Several articles on insects of Biodiversity hotspots in Vietnam by Jerome Constant (RBINS), supported by GTI.
- Contract flow at RBINs and CEBioS has been improved.
- Alumni from Benin Cosme Koudenoukpop has been awarded the Rufford Grant with support of CEBioS coaching.
- Preparatory team work to launch a newsletter.
- CEBioS' participation in Campaign 'ensemble pour la biodiversité', with interview of Jolien Venneman (CEBioS).
- CEBioS staff Hilde and Anne-Julie mentioned in local RDC press 'Sapientia' in Goma.
- RDC song on biodiversity worked out with support of CEBioS.
- MRV beneficiary Dieudonné Nzabi Mangili advises « pecheries Mbandaka & lake Tumba »
- Letter to Science by Erik Verheyen (co-authored by CEBioS) on oil drilling in Lake Tanganyika launches debate about this issue.
- MRV alumni Laban Musinguzi starts PhD in AfrikaMuseum on fish.
- Coherens beneficiary Wilfried Sintondji wins the CONCOURS REGIONAL D'ART NUMÉRIQUE UG-GMES. "Ce concours est lancé par le Centre Marin Régional de l'Université of Ghana" dans le cadre de la Célébrations des Journées mondiales de l'Océan et de l'Environnement. » He also gave interviews on the radio in Benin about his work.
- Prosper Kiyuku, Simon Dibaluka & Jérôme Degree produce a guide on mushroom culture.



**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

- Han contributes to “OVERVIEW OF THE OUTCOMES OF THE STUDY TO INFORM THE PREPARATION OF A LONG-TERM STRATEGIC FRAMEWORK FOR CAPACITY-BUILDING BEYOND 2020”.
- JP d’Huart uses maps and documents from the archives for a book on the Virunga.

## 1- FINANCIAL REPORT 2020

June 2022: 100% of the 2020 budget has been spent.

Two representations are given of the annual expenditures for 2020:

- One excel file as annex 2 with the DGD-format for budget expenses
- The following table to provide a quick overview.

Expenditure table for 2020 per SO (1-4): investments, operations, missions and personnel (Red colour: expense <80% budget, green, expense >120% of budget)

N°SO	Centre Frais	N° Poste Budgétaire	Category	Intitulé	identifiant Unique	Budget 2020	Engagé	Payé	% utilisation
SO 1	2477LJB2	19b	Investments	01-R1.2-19b-investments-CB-Marine Modelling in Benin : computers	1				
SO 1	2477LJB2	19b	Investments	02-R1.2-19b-investments-CB-OBPE institutional cooperation for research : computers	2				
SO 1	2477LJB2	19b	Investments	03-R1.2-19b-investments-CB-CSB/UNIKIS : institutional cooperation for research : computers	3	3,500.00 €	3,500.00 €	3,500.00 €	100.00%
SO 1	2477LJB2	1	Operations	04-R1.1-1-operation-CB-GTI for grantees from South	4	45,000.00 €	52,841.95 €	52,841.95 €	117.43%
SO 1	2477LJB2	2	Operations	05-R1.1-2-operation-CB-GTI for RBINS researchers doing capacity building in the South	5	35,000.00 €	37,710.61 €	37,710.61 €	107.74%
SO 1	2477LJB2	3	Operations	06-R1.1-3-operation-CB-RD Congo universities, ICN : institutional cooperation for research	6	25,000.00 €	30,565.25 €	30,565.25 €	122.26%

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 1	2477LJB2	4	Operations	07-R1.1-4-operation-CB-Marine modeling	7				
SO 1	2477LJB2	4	Operations	08-R1.1-4-operation-CB-Marine modeling in Benin : data collection	8	11,500.00 €	11,500.00 €	11,500.00 €	100.00%
SO 1	2477LJB2	4	Operations	09-R1.1-4-operation-CB-Marine modeling in Benin : study grants S-N	9	6,000.00 €	10,924.26 €	10,924.26 €	182.07%
SO 1	2477LJB2	6	Operations	10-R1.1-6-operation-CB-Pilot projects on monitoring and databases	10	3,000.00 €	3,000.00 €	3,000.00 €	100.00%
SO 1	2477LJB2	7	Operations	11-R1.1-7-operation-CB-OBPE institutional cooperation for research	11	37,000.00 €	40,493.74 €	40,493.74 €	109.44%
SO 1	2477LJB2	8	Operations	12-R1.1-8-operation-CB-UAC institutional cooperation for research	12	8,000.00 €	7,939.83 €	7,939.83 €	99.25%
SO 1	2477LJB2	9	Operations	13-R1.1-9-operation-CB-CSB/UNIKIS institutional cooperation for research	13	41,000.00 €	34,864.75 €	34,864.75 €	85.04%
SO 1	2477LJB2	11	Operations	14-R1.3-11-operation-MRV-MRV projects	14	30,000.00 €	34,391.76 €	34,391.76 €	114.64%
SO 1	2477LJB2	4	Operations	15-R1.4-4-operation-AW-Marine modelling in Benin : dissemination	15	2,500.00 €	3,054.00 €	3,054.00 €	122.16%
SO 1	2477LJB2	5	Operations	16-R1.1-5-operation-CB-production of AbcTaxa	16	18,000.00 €	7,311.83 €	7,311.83 €	40.62%
SO 1	2477LJB2	6	Operations	17-R1.1-6-operation-CB-pilot projects on monitoring and databases	17	4,000.00 €	2,810.00 €	2,810.00 €	70.25%
SO 1	2477LJB2	10	Operations	18-R1.2-10-operation-CHM-Digitalisation	18	8,000.00 €	6,944.15 €	6,944.15 €	86.80%
SO 1	2477LJB2	4	Operations	19-R1.1-4-operation-CB-Marine modelling in Benin : meetings	19				

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 1	2477LJB2	12	Operations	20-R1.3-12-operation-MRV-MRV trauning and formation workshops	20				
SO 1	2477LJB2	12	Operations	21-R1.3-12-operation-MRV-MRV closing workshop (in combination with training workshop ao, awareness raising for CEBioS alumni	21				
SO 1	2477LJB2	13	Operations	22-R1.4-13-operation-AW-Awareness methodology for CEBioS alumni	22				
SO 1	2477LJB2	2	Missions	23-R1.1-2-missions-CB-GTI for RBINS researchers doing capacity building in the South	23	20,000.00 €	9,837.78 €	9,837.78 €	49.19%
SO 1	2477LJB2	3	Missions	24-R1.1-3-missions-CB-RD Congo universities, ICCN : institutional cooperation for research	24	3,000.00 €	- €	- €	0.00%
SO 1	2477LJB2	4	Missions	25-R1.1-4-missions-CB-Marine modeling in Benin	25	5,000.00 €	129.56 €	129.56 €	2.59%
SO 1	2477LJB2	6	Missions	26-R1.1-6-missions-CB-pilot projects on monitoring and databases	26				
SO 1	2477LJB2	7	Missions	27-R1.1-7-missions-CB-OBPE institutional cooperation for research	27	3,000.00 €	4,311.11 €	4,311.11 €	143.70%
SO 1	2477LJB2	8	Missions	28-R1.1-8-missions-CB-UAC institutional cooperation for research	28	2,000.00 €	- €	- €	0.00%
SO 1	2477LJB2	9	Missions	29-R1.1-9-missions-CB-CSB/UNIKIS institutional cooperation for research	29	7,000.00 €	10,130.19 €	10,130.19 €	144.72%
SO 1	2477LJB2	13	Missions	30-R1.4-13-missions-AW-Awareness methodology for CEBioS alumni	30				
SO 1	2481LJB2		Personnel	31-R1-personnel--	31	233,500.00 €	221,574.97 €	221,574.97 €	94.89%
<b>TOTAL BUDGET SO1</b>						<b>551,000.00 €</b>	<b>533,576.62 €</b>	<b>533,576.62 €</b>	<b>96.84%</b>
SO 2	2478LJB2	19b	Investments	32-R2.2-19b-Investments-CB-training on habitat monitoring in Burundi : computers	32				

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 2	2478LJB2	19b	Investments	33-R2.2-19b-Investments-CB-training on habitat monitoring in Benin : computers	33				
SO 2	2478LJB2	19b	Investments	34-R2.2-19b-Investments-CB-server for South and <a href="http://www.biodiv.be">http://www.biodiv.be</a>	34				
SO 2	2478LJB2	14	Operations	35-R2.1-14-Operation-CB-training on habitat monitoring in Benin	35	17,000.00 €	16,872.13 €	16,872.13 €	99.25%
SO 2	2478LJB2	15	Operations	36-R2.1-15-Operation-CB-training on habitat monitoring in Burundi	36	15,400.00 €	11,289.76 €	11,289.76 €	73.31%
SO 2	2478LJB2	16	Operations	37-R2.1-16-Operation-CB-training on habitat monitoring in RDC	37	1,000.00 €	- €	- €	0.00%
SO 2	2478LJB2	21	Operations	38-R2.3-21-Operation-MRV-awareness projects for alumni based on the MRV projects	38				
SO 2	2478LJB2	23	Operations	39-R2.4-23-Operation-AW-production and dissimination of other material like brochures, policy briefs, posters, etc	39	5,000.00 €	2,697.01 €	2,697.01 €	53.94%
SO 2	2478LJB2	17	Operations	40-R2.1-17-Operation-CB-production of lexica	40	10,000.00 €	13,876.10 €	13,876.10 €	138.76%
SO 2	2478LJB2	15	Operations	41-R2.1-15-Operation-CB-training on habitat monitoring in Burundi	41	600.00 €	439.86 €	439.86 €	73.31%
SO 2	2478LJB2	15	Operations	42-R2.1-15-Operation-CB-training on habitat monitoring in Burundi	42	17,000.00 €	17,902.44 €	17,902.44 €	105.31%
SO 2	2478LJB2	14	Operations	43-R2.1-14-Operation-CB-training on habitat monitoring in Benin	43		37.00 €	37.00 €	
SO 2	2478LJB2	18	Operations	44-R2.2-18-Operation-CHM-workshop on CHM	44	15,000.00 €	18,541.49 €	18,541.49 €	123.61%
SO 2	2478LJB2	19	Operations	45-R2.2-19-Operation-CHM-training on Bioland	45	20,000.00 €	20,908.63 €	20,908.63 €	104.54%
SO 2	2478LJB2	20	Operations	46-R2.2-20-Operation-CHM-networking CHM	46	25,000.00 €	21,000.00 €	21,000.00 €	84.00%
SO 2	2478LJB2	24	Operations	47-R2.2-24-Operation-AW-punctual workshops, summer schools	47	25,000.00 €	47,935.61 €	47,935.61 €	191.74%

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 2	2478LJB2	14	Missions	48-R2.1-14-Mission-CB-training on habitat monitoring in Benin	48	7,000.00 €	- €	- €	0.00%
SO 2	2478LJB2	15	Missions	49-R2.1-15-Mission-CB-training on habitat monitoring in Burundi	49	7,000.00 €	4,536.50 €	4,536.50 €	64.81%
SO 2	2478LJB2	16	Missions	50-R2.1-16-Mission-CB-training on habitat monitoring in RDC	50	4,000.00 €	3,999.14 €	3,999.14 €	99.98%
SO 2	2478LJB2	18	Missions	51-R2.2-18-Mission-CHM-workshop on CHM	51	7,020.00 €	98.98 €	98.98 €	1.41%
SO 2	2478LJB2	20	Missions	52-R2.2-20-Mission-CHM-networking CHM	52	5,000.00 €	4,031.78 €	4,031.78 €	80.64%
SO 2	2478LJB2	19b	Missions	53-R2.2-19b-Mission-CHM-Computers and server for South and <a href="http://www.biodiv.be">http://www.biodiv.be</a>	53				
SO 2	2478LJB2	22	Missions	54-R2.3-22-Mission-MRV-Coaching by CEBioS staff in dedicated MRV-workshops and other MRV-related activities	54				
SO 2	2478LJB2	22	Missions	55-R2.3-22-Mission-MRV-awareness projects for alumni in the case of MRV based on the MRV projects	55				
SO 2	2478LJB2	24	Missions	56-R2.2-24-Mission-AW-punctual workshops, summer schools	56	15,000.00 €	10,835.19 €	10,835.19 €	72.23%
SO 2	2478LJB2	23	Missions	57-R2.2-23-Mission-AW-production and dissemination of other material like brochures, policy briefs, posters etc...	57				
SO 2	2481LJB2		Personnel	58-R2-Personnel--	58	139,900.00 €	158,913.53 €	158,913.53 €	113.59%
<b>TOTAL BUDGET SO2</b>						<b>335,920.00 €</b>	<b>353,717.19 €</b>	<b>353,717.19 €</b>	<b>105.30%</b>
SO 3	2479LJB2	26	Operations	59-R3.1-26-operations-CB-support of South to attend international policy	59	10,000.00 €	- €	- €	0.00%
SO 3	2479LJB2	27	Operations	60-R3.2.27-operations-CHM-CHM call	60	50,000.00 €	41,209.33 €	41,209.33 €	82.42%

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 3	2479LJB2	29	Operations	61-R3.4-29-operations-AW-Awareness calls, including training on awareness, including baseline studies	61	55,000.00 €	57,308.93 €	57,308.93 €	104.20%
SO 3	2479LJB2	30	Operations	62-R3.4-30-operations-AW-activities related to COPs in 2020,2022	62	8,000.00 €	8,798.23 €	8,798.23 €	109.98%
SO 3	2479LJB2	31	Operations	63-R3.4-31-operations-AW-activities in framework of awareness calls or ad hoc, in Belgium or abroad	63	10,000.00 €	109.24 €	109.24 €	1.09%
SO 3	2479LJB2	25	Missions	64-R3.1-25-missions-CB-missions CEBios for policy	64	16,000.00 €	9,584.20 €	9,584.20 €	59.90%
SO 3	2479LJB2	28	Missions	65-R3.2-28-missions-CHM-participation in juries etc ... on demand (5 x 1p)	65	3,000.00 €	2,327.20 €	2,327.20 €	77.57%
SO 3	2481LJB2		Personnel	66-R3-Personnel--	66	70,350.00 €	74,414.92 €	74,414.92 €	105.78%
<b>TOTAL BUDGET SO3</b>						<b>222,350.00 €</b>	<b>193,752.05 €</b>	<b>193,752.05 €</b>	<b>87.14%</b>
SO 4	2480LJB2	33	Operations	67-R4.1-33-operation-CB-Synergy fund to promote specific synergy projects with civil society and private sector in agriculture and conservation	67	9,500.00 €	25,392.02 €	25,392.02 €	267.28%
SO 4	2480LJB2	35	Operations	68-R4.4-35-operation-AW-Special call to mesasure change in perception of biodiversity of target groups of activities financed by CEBios	68				
SO 4	2480LJB2	34	Operations	69-R4.4-34-operation-AW-increases awareness in North (CEBios) and South for the partners of the Belgian development cooperation, civil society, often back to back with attending SD-activities	69				
SO 4	2480LJB2	32	Missions	70-R4.1-32-missions-CB-budget to attend SD in South	70	5,000.00 €	2,962.41 €	2,962.41 €	59.25%

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 4	2480LJB2	33	Missions	71-R4.1-33-missions-CB-Synergy fund to promote specific synergy projects with civil society and private sector in agriculture and conservation	71	3,000.00 €	2,130.51 €	2,130.51 €	71.02%
SO 4	2480LJB2		Personnel	72-R4-personnel--	72	65,000.00 €	69,764.73 €	69,764.73 €	107.33%
<b>TOTAL BUDGET SO4</b>						<b>82,500.00 €</b>	<b>100,249.67 €</b>	<b>100,249.67 €</b>	<b>121.51%</b>
Management costs	2481LJB2	36	Operations	73-MC 36-operation--End of term evaluation, also in the South	73				
Management costs	2481LJB2	37	Missions	74-MC 37-mission--follow-up missions	74	2,000.00 €	2,346.22 €	2,346.22 €	117.31%
Management costs	2481LJB2		Personnel	75-MC-personnel--	75	110,231 €	120,358.63 €	120,358.63 €	109.19%
<b>TOTAL BUDGET MANAGEMENT COSTS</b>						<b>112,231 €</b>	<b>122,704.85 €</b>	<b>122,704.85 €</b>	<b>109.33%</b>
Structural Costs	1GODN	37		76-SC 37-structural costs--Identification, Formulation, Monitoring and evaluation	76	98,000.00 €	98,000.00 €	98,000.00 €	100.00%
<b>TOTAL BUDGET STRUCTURAL COSTS</b>						<b>98,000.00 €</b>	<b>98,000.00 €</b>	<b>98,000.00 €</b>	<b>100.00%</b>
<b>TOTAL GENERAL BUDGET</b>						<b>1,402,001 €</b>	<b>1,402,000 €</b>	<b>1,402,000 €</b>	<b>100.00%</b>

**Remarks on the expenditure 2020**

- 100% of the budget was spent;
- Empty cells are posts where no budget was assigned for the year 2020;
- The budget was generally spent in a balanced way amongst the four Specific Objectives (SO1-4);
- Only in SO4 we note an expenditure deviating more than 15% from budget (121%). This concerns ca 17000 EUR more on operational costs due to the success of the synergy fund in the framework of specific demands in the Joint Strategic Frameworks. This deviation was proposed to the steering committee in a mail of 13/08/2021. The PV of the 17<sup>th</sup> steering committee of 09/11/2021 did not express any objection.



# RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

- Details for under-expenditure <80% of budget:

- SO1

SO 1	2477LJB2	5	Operations	16-R1.1-5-operation-CB-production of AbcTaxa	16	18,000.00 €	7,311.83 €	7,311.83 €	40.62%
SO 1	2477LJB2	6	Operations	17-R1.1-6-operation-CB-pilot projects on monitoring and databases	17	4,000.00 €	2,810.00 €	2,810.00 €	70.25%

Identifier 16: One volume printed, production depends on scientific editors and their cooperation with authors.

17: Should be counted together with post Id.Un. nr 10 as it is considered as one activity (in one contract). As such expenditure is at 83 %

SO 1	2477LJB2	2	Missions	23-R1.1-2-missions-CB-GTI for RBINS researchers doing capacity building in the South	23	20,000.00 €	9,837.78 €	9,837.78 €	49.19%
SO 1	2477LJB2	3	Missions	24-R1.1-3-missions-CB-RD Congo universities, ICCN : institutional cooperation for research	24	3,000.00 €	- €	- €	0.00%
SO 1	2477LJB2	4	Missions	25-R1.1-4-missions-CB-Marine modeling in Benin	25	5,000.00 €	129.56 €	129.56 €	2.59%

23: GTI of RBINS researchers to the South much disturbed by Covid and insecurity in N-Mozambique (see GTI chapters)

24: No mission because of Covid

25: No mission because of Covid

SO 1	2477LJB2	8	Missions	28-R1.1-8-missions-CB-UAC institutional cooperation for research	28	2,000.00 €	- €	- €	0.00%
------	----------	---	----------	--	----	------------	-----	-----	-------

28: no mission because of Covid

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

### ○ SO2

SO 2	2478LJB2	15	Operations	36-R2.1-15-Operation-CB-training on habitat monitoring in Burundi	36	15,400.00 €	11,289.76 €	11,289.76 €	73.31%
SO 2	2478LJB2	16	Operations	37-R2.1-16-Operation-CB-training on habitat monitoring in RDC	37	1,000.00 €	- €	- €	0.00%

36: This is linked to the institutional expenditure of OBPE. In reality this post was spent correctly but some are filed under different nr.

37: No training in RDC due to Covid situation

SO 2	2478LJB2	23	Operations	39-R2.4-23-Operation-AW-production and dissimulation of other material like brochures, policy briefs, posters, etc	39	5,000.00 €	2,697.01 €	2,697.01 €	53.94%
------	----------	----	------------	--	----	------------	------------	------------	--------

39: Material production and dissemination less due to hardly any awareness activities in Belgium and abroad due to COVID

SO 2	2478LJB2	15	Operations	41-R2.1-15-Operation-CB-training on habitat monitoring in Burundi	41	600.00 €	439.86 €	439.86 €	73.31%
------	----------	----	------------	---	----	----------	----------	----------	--------

41: Little field/lab research material. This is linked to the generic expenditure of OBPE.

SO 2	2478LJB2	14	Missions	48-R2.1-14-Mission-CB-training on habitat monitoring in Benin	48	7,000.00 €	- €	- €	0.00%
SO 2	2478LJB2	15	Missions	49-R2.1-15-Mission-CB-training on habitat monitoring in Burundi	49	7,000.00 €	4,536.50 €	4,536.50 €	64.81%
SO 2	2478LJB2	18	Missions	51-R2.2-18-Mission-CHM-workshop on CHM	51	7,020.00 €	98.98 €	98.98 €	1.41%

48, 51: Covid

49: Only one person participated instead of two CEBioS staff.

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 2	2478LJB2	24	Missions	56-R2.2-24-Mission-AW-punctual workshops, summer schools	56	15,000.00 €	10,835.19 €	10,835.19 €	72.23%
------	----------	----	----------	--	----	-------------	-------------	-------------	--------

56: Workshop on GIS, relational data bases March 22 in Kisangani. Only one staff person available for travels.

○ SO3

SO 3	2479LJB2	26	Operations	59-R3.1-26-operations-CB-support of South to attend international policy	59	10,000.00 €	- €	- €	0.00%
SO 3	2479LJB2	31	Operations	63-R3.4-31-operations-AW-activities in framework of awareness calls or ad hoc, in Belgium or abroad	63	10,000.00 €	109.24 €	109.24 €	1.09%
SO 3	2479LJB2	25	Missions	64-R3.1-25-missions-CB-missions CEBios for policy	64	16,000.00 €	9,584.20 €	9,584.20 €	59.90%
SO 3	2479LJB2	28	Missions	65-R3.2-28-missions-CHM-participation in juries etc ... on demand (5 x 1p)	65	3,000.00 €	2,327.20 €	2,327.20 €	77.57%

59- 65: less interventions/ activities due to Covid

59 : Could not be implemented due to multiple delay of policy meetings

64: Only the participation of Geneva of Han and Longin were put on this as COP 15 still didn't take place.

65: We invited Rigobert NTEP from Cameroon to participate in the jury meeting in Belgium instead of Han going to Montreal or elsewhere. This was cheaper than budgeted.

○ SO4

SO 4	2480LJB2	32	Missions	70-R4.1-32-missions-CB-budget to attend SD in South	70	5,000.00 €	2,962.41 €	2,962.41 €	59.25%
SO 4	2480LJB2	33	Missions	71-R4.1-33-missions-CB-Synergy fund to promote specific synergy projects with civil society and private sector in agriculture and conservation	71	3,000.00 €	2,130.51 €	2,130.51 €	71.02%

70, 71: less missions to attend CSC strategic dialogues or meetings due to Covid.

- Details for over-expenditure >120% of budget:

- SO1

SO 1	2477LJB2	3	Operations	06-R1.1-3-operation-CB-RD Congo universities, ICCN : institutional cooperation for research	6	25,000.00 €	30,565.25 €	30,565.25 €	122.26%
SO 1	2477LJB2	4	Operations	09-R1.1-4-operation-CB-Marine modeling in Benin : study grants S-N	9	6,000.00 €	10,924.26 €	10,924.26 €	182.07%
SO 1	2477LJB2	4	Operations	15-R1.4-4-operation-AW-Marine modelling in Benin : dissemination	15	2,500.00 €	3,054.00 €	3,054.00 €	122.16%

Post 6: Habitat monitoring by local partners was somewhat more expensive

9: Study grants more expensive (flights, lodging)

15: Some costs due to congress of grantee

SO 1	2477LJB2	7	Missions	27-R1.1-7-missions-CB-OBPE institutional cooperation for research	27	3,000.00 €	4,311.11 €	4,311.11 €	143.70%
SO 1	2477LJB2	9	Missions	29-R1.1-9-missions-CB-CSB/UNIKIS institutional cooperation for research	29	7,000.00 €	10,130.19 €	10,130.19 €	144.72%

27 & 28: More travel put on this post due to more expenses with travel (COVID quarantine + extra trip)

- SO2

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

SO 2	2478LJB2	17	Operations	40-R2.1-17-Operation-CB-production of lexica	40	10,000.00 €	13,876.10 €	13,876.10 €	138.76%
SO 2	2478LJB2	18	Operations	44-R2.2-18-Operation-CHM-workshop on CHM	44	15,000.00 €	18,541.49 €	18,541.49 €	123.61%
SO 2	2478LJB2	24	Operations	47-R2.2-24-Operation-AW-punctual workshops, summer schools	47	25,000.00 €	47,935.61 €	47,935.61 €	191.74%

40: production of Ruvubu lexicon and reprint of Bombo-Lumene

44: GTI workshop in Parakou (Bénin)

47: workshop on relational data-bases and GIS in Kisangani, March 22, funds of line 56 and of Han -CHM were added

○ SO3

None

○ SO4

SO 4	2480LJB2	33	Operations	67-R4.1-33-operation-CB-Synergy fund to promote specific synergy projects with civil society and private sector in agriculture and conservation	67	9,500.00 €	25,392.02 €	25,392.02 €	267.28%
------	----------	----	------------	---	----	------------	-------------	-------------	---------

67: The projects with ACNG and local NGOs and OBPE in Burundi, the one with VVOB on mushroom culture in Kongo-central were highly demanded and successful. We adapted the synergy fund for the coming years.

## 2-REPORT 2020 PER INDICATOR

The following 8-9 pages display a table with the following structure, based on the 40 indicators of the logical framework:

Intervention logic	Indicator Nr.	Indicators	SoV (Source of Verification)	Baseline Value	Target	Value	Remarks on the implementation by CEBioS
General Objective	1						
	2						
Specific Objective 1 (SO1)	3...						
	...6						
SO2	7...						
	...10						
SO3	11...						
	...16						
SO4	17...						
	...19						
Result 1	20...						
	...28						
Activities							
Result 2	29...						
	...34						
Activities							
Result 3	35...						
	...37						
Activities							
Result 4	38...						
	...40						
Activities							

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

Indicators reached or surpassed are **green**.

Indicators not reached are **red**.

INTERVENTION LOGIC	Ind Nr.	INDICATORS	SoV	Baseline value	target	CEBioS	
					2020	Value	Remarks
<b>General objective :</b> The protection of ecosystems and their biodiversity in partner countries of the Belgian Development Cooperation, is implemented in order to strengthen their capacity to generate benefits essential for sustainable development of rural populations	1	Positive trends of benefits that humans derive from ecosystem services in a sustainable way in the partner countries are better known, understood, disseminated and are increasing	National reports, statistics about decrease of logging, poaching, encroachment, pollution, overgrazing, conservation conflicts, illicit traffics, increase of respect for indigenous communities, valorization of traditional knowledge, respect for the law, adapted legislation, more co-management options around protected areas, agreements between the state and local communities for sustainable exploitation of resources, responsabilisation of all parties, implementation of Nagoya Protocol, increased cooperation and more mutual benefits between science, agriculture and conservation, increased revenues from bee-keeping, mushrooms and other activities or products from ecosystem services and value chains				The indicators below contribute to the achievement of indicator 1.  A report on indicator 1 will be done in the final report of phase II.
	2	Partner countries show positive trends in the implementation of their biodiversity and development policies (e.g. NBSAP) with tangible results and good indicators	Indicators in NBSAP and national reports for CBD and other development plans show a positive evolution for biodiversity and sustainable development				The indicators below contribute to the achievement of indicator 2.  A report on indicator 2 will be done in the final report of phase II.
<b>Specific objective 1 (SO1):</b> The scientists of the partner countries of the Belgian development cooperation acquire knowledge, understand, apply and disseminate results useful	3	Publications and databases produced by beneficiaries in e.g. scientific papers, Ms and PhD theses etc..., policy or popular media with direct or indirect reference to biodiversity, ecosystem services benefits or value chains derived from biodiversity	Tracer study (year 2021 and 2023)	estimated min. 8/year			To be done in 2021 and 2023

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

<b>for sustainable management, use and conservation of biodiversity and ecosystem services</b>	4	Share of alumni that remains research-active after the support of the programme (at least one participation in an international congress, publication, external fund acquired, PhD defended or academic promotion)	Tracer study (year 2021 and 2023) Unit of measurement: share research active/ total number in alumni database	estimated >60%			To be done in 2021 and 2023
	5	Number of indicators developed by the MRV projects to be used to feed into NBSAP or other strategies and plans	Project reports	0			To be calculated after final MRV call implementations
	6	Number of e-visitors to newly digitised grey literature (scanned pages) available on CHM, GBIF and the archives of the national parks of former Belgian Congo (www.apncb.be)	Websites data & google analytics	220000	250000	471000	apncb 8200; bhutan 12300; Tanzanie 8944; Jordan 9318; partner countries 390.000/ Inklus dans le rapport des tous les pays partenaires.
<b>Specific objective 2 (SO2): Implementing authorities in the south and their partners 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</b>	7	Number of Management plans of regional and local authorities, agencies, their local civil society partners taking into account results of CEBioS activities	Management plans	NA	0	3	OBPE worked on 3 management plans with FAO. See OBPE annual report. CSB assisted and gave advice to develop a Strategic Plan for the Maiko NP.
	8	Number of tools developed by CEBioS-MRV alumni used for awareness raising, and influencing policies	Project reports of awareness projects		0		To be calculated after final MRV call implementations
	9	Number of persons reached through CHM networking events	Networking event attendance list		8	16	One Network event in Niger on 2020 funding
	10	Number of staff of implementing authorities reached through awareness raising projects (number of persons)	Project reports		15	30+12	See annual report OBPE/ CSB : Collectivité de Baboro: 1 chef de collectivité, 3 chefs de groupements, 1 président de l'association des commerçants, 1 responsable de la Police territoriale, 3 pasteurs, 1 directeur d'école, 1 agent du Ministère de l'Environnement et Développement Durable, 1 agronome de territoire ont fait partie des 75 personnes sensibilisées à l'utilisation durable des ressources biologiques.



**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

<b>Specific objective 3 (SO3): The authorities, decision makers and policymakers develop and implement pertinent policies, strategies and action plans for a sustainable management of the national biodiversity in service of the livelihoods of the local populations in the South</b>	11	Number of CEBioS alumni participating in international bodies under the CBD (COP, SBSTTA, SBI, IACs and more) and related MEAs	List of participants in conferences and international bodies (presence of CEBioS alumni)	3/year	COP year, 5	2	CEBioS supported civil servants from Burundi and Niger to attend SBI-SBSTTA-WEQG in Geneva in March 2022 on 2020 budget
	12	Number of scientists requesting Nagoya PIC and MAT to the competent authorities as a result of CEBioS training		6-8/year		4	CSB : 4 permis Gabriel Badjedjea, Bienfait Kambale et Pascal Baelo (source rapport annuel 2020 CSB)
				10/year		1	CEBioS has no access to this information
			North scientists	2/year	10	1	CEBioS has no access to this information
			South scientists	not measured	12	1	CEBioS has no access to this information
	13	Number of CEBioS mandates in international advisory bodies and technical committees	Meeting minutes of CBD, IPBES and IUCN advisory bodies and technical committees	not measured	2	3	CHM-IAC, CB-NP-IAC, CEPA-IAC
	14	Number of contributors to CHM of partner countries		20/year depending on policy agenda			
			Benin	8	8	5	-
			Burundi	12	12	12	See annual report OBPE
			RDCongo	5/year	7	8+2	CSB: Olivier Basa, Judith Tsongo; Sud-Kivu: Cephass Masumbuko and others (via CSB)
			Other countries	20	25	15	CHM meeting in Niger
	15	Number of staff members of authorities, decision makers and policymakers reached through awareness raising activities (number of persons)	Project reports	average 10/year		18	Rwanda 8; Togo 10 (estimation)
			Benin	n/m.	3	60	Projet Eco-Benin 60
			Burundi	n/m.	5	10	See annual report OBPE
			RDCongo	n/m.	3	113	Projet Heritier 5; projet Cephass1 98; Cephass2 10; CSB institutional MRV – sensitising par in Baboro : 1 agent du Ministère de l'Environnement et Développement Durable, 1 agronome de territoire

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

	16	Number of official documents of authorities, decision makers and policy makers effectively using MRV results for reporting	Tracer study at the end of the programme (after MRV awareness projects-2023)	1 in five years			
<b>Specific objective 4 (SO4): Enhanced synergy between the partners of the Belgian Development cooperation, civil society and the private sector to achieve sustainable development by mainstreaming biodiversity issues</b>	17	Number of effective synergies and complementarities (collaborations, joint activities) on North-South, South-South, triangular regional and international cooperation to enhance access to science, technology and innovation and enhance knowledge sharing		not measured			Training for Lebanon on the use of the Bioland tool/
			Benin		1	1	2 Scientists from Benin collaborating with 1 from DRC to provide training in DRC (database/SIG)
			Burundi		1	3	S-S training of Madagascar by Burundi on CHM Bioland tool/ 1 Project with Join for Water/ASREEBU/AVEDEC/OBPE; One project with Froidbise; One with UdB
			RDCongo		1	1+5	Pilot programmes Mushroom culture in agri-technical secondary schools (collabo with VVOB) Collaboration Antwerp Zoo Foundation (PROSTADDAR) with CSB participation delegation CSB in training on politico-ecological research with IOB in Bukavu, 2 Scientists from Benin collaborating with 1 from DRC to provide training in DRC (database/SIG)
			Other countries		2		
	18	Number of people (ultimate beneficiaries) reached through the supported awareness projects	Project reports	50-100/year	100	+400	
	19	Number of cases with a verified positive change in awareness	Perception surveys	not measured	0	1	
<b>Result 1 -The capacities of scientists, (implementing) authorities, decision makers and policymakers are strengthened to enable them to contribute to the</b>	20	Number of persons of which the capacities have been strengthened (per CB type) (for all results)	Participant registration Number of men	80-90%	80%	74%	atelier Benin (2021) 12; Lebanon CHM 3; Benin CHM 5; GBIF workshop 9; Madagascar - Burundi Bioland training 12 Training data-bases/GIS Kisangani: 35; GTI 7

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

sustainable use and conservation of biodiversity (CB 1.1 ; 2.1 ; 3.1 ;AW1.4)			Number of women	10-20%	10%	13%	atelier Benin (2021)3; Lebanon CHM 6; GBIF workshop 1; Madagascar - Burundi Bioland training 24 Training data-bases/GIS Kisangani: 4; GTI 3
			Total number	40/year	40	59	Training data-bases/GIS Kisangani 39; GTI 10 (7M/3F)
	Institutional cooperation	Benin			8		
		Burundi			15	133	55 persons during Nagoya Protocol workshop; 10 during CHM meetings; 29 during Bulletin meeting; 39 during awareness meeting Bulletin;
		Congo			20	48	"31 personnes Habitat Monitoring CSB et Fac Science UNIKIS 13 personnes GIS et qualité base de données 1. Le chef des travaux Jean Bakondongama a profité des activités de biomonitoring pour conduire une enquête dans le cadre de sa thèse de doctorat : Connaissance, perceptions sur les infestations et les moyens de contrôle de Zonocerus variegatus dans la zone forestière de Kisangani. 1 L'étudiante Kalenga Tunda de master 2 à la Faculté de Gestion des Ressources Naturelles Renouvelables a participer à la sensibilisation dans le cadre de ses préparatifs pour les enquêtes en milieu rural à Yanonge 2 étudiants de 3 <sup>e</sup> graduat en zoologie à la Faculté des Sciences ont accompagné la mission multidisciplinaire de biomonitoring pour la récolte des données pour leurs travaux de fin cycles : Moïse et Guershom Paluku. Le CEBios-CSB a supporté leur transport et allocation alimentaire durant tout leur séjour sur le terrain."
	21	Number of trainings (per CB type) (for all results)	Training report		10	3+3	CHM virtual training for Lebanon and Benin. **MRV: database: 2 *MRV: GIS:2 *MRV: habitat monitoring:1
	22	Level of satisfaction with the quality of capacity building (per CB type) (for all results)	Evaluation form	not measured	7	8.5	*MRV: database/GIS: 7,6/10; Niger 2022: 8,9/10

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

	23	Level of self-reported motivation and ability to apply new knowledge and skills (per CB type) (for all results)	Evaluation form	not measured	7	8.5	*MRV: database/GIS: 8,4/10
	24	Number of <b>AbcTaxa</b> publications produced with support of the programme	AbcTaxa publications	4 for 4 years	1	1	abctaxa volume 20
	25	Number of presentations or posters presented by South researchers (participation supported by CEBioS) at scientific congresses related to biodiversity and development	Congress programmes/reports	1-5/year	3	1+3	UNIBU Semaine de l'université, 31/08/21 : presentation Jacques Nkengurutse, Tite Vyizigiro- Analyse cohabitation conflictuelle PNRuvubu (MRV budget 19)/ "Gambalemoke @ African Small Mammals conference ,Mekele (budget 2019) Claude Mande @ ICCB, Kigali, dec 2021 (budget 2020)
	26	Number of datasets on biodiversity established by National Parks and other important biodiversity hotspots as a results of capacity development CEBioS	Datasets produced by researchers supported by CEBioS	1-2	1	8	Constitution d'une base de données sur la forêt de Baboro pour un suivi ultérieur :toutes les équipes qui se sont déployées dans la collectivité- chefferie de Baboro ont produit chacune une base des données: enquêtes socio-économiques, botanique, petits Mammifères, grands Mammifères, Insectes ravageurs et maladies des cultures, Myriapodes, Coléoptères, ichtyologie.
	27	Number of agenda items led by CEBioS staff for Belgium in OECD, IPBES, SBSTTA, COP, expert meetings of CBD, EU and other organisations	Agenda of meetings	5-10 over 5 years	3	2	SBI3-Agenda Item 7 (lead author EU); A15 BE-Lead on CB CP
	28	Number of partner country staff supported by CEBioS activities, attending international policy conferences	List of participants	2-3/year	3	1	Maman Sani (Niger at SBI3/SBSTTA24/OEWG3
<b>Activities</b>							
· Coaching of students in terrestrial/freshwater biology and ecosystem services directly by CEBIOS staff to apply for grants, write abstracts for conferences, write papers							done
· Coaching of students directly by CEBIOS staff for marine modelling (SDG 14.2 & A) to apply for grants, write abstracts for conferences, write papers							done

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

· GTI call and coaching of students by RBINS and external scientists through "N-S" calls					done
· Coaching of students through GTI call and earmarked budgets through "S-N" calls					done
· Organising, co-organize by CEBioS (direct or indirect) or participate to larger events (symposia , summer schools, uptake meetings)					Identification of cooperation with Benin stakeholders (online) check 2020; Joint symposium with Dian Fossey Foundation at ICCB conference Kigali (budget 2020)
· Coordination of editors and Publication Support Unit (RBINS-RMCA) for production of abcTaxa					done
· Attending juries by CEBioS staff					done
· Attending congresses by CEBioS staff with poster or oral presentation to consolidate scientific credibility and present results and publishing scientific papers co-authored by CEBioS staff, assessing/analysing ecosystem services approach and capacity building (put budget )					GeoBon, HK and AJR at ICCB conference Kigali (budget 2020)- cancelled at last moment
· Supporting South scientists to attend international scientific congresses					Onésime Mubenga at ICCB conference Kigali (budget 2020)- cancelled at last moment
· Supporting South partners to organise (inter)national scientific congresses					
· Disseminate abcTaxa to South partners or North partners (sales) by the secretariat of CEBioS					Done, ao in South Africa
· Organize closing MRV workshops explaining policy brief, eventually back to back with other events					Planned In 2022
· Organise awareness methodology and communication workshops for CEBioS-alumni					Planned in 2022
· Implement South trainings in habitat monitoring					1 Regional Workshop on vegetation fire management in protected areas (PN Ruvubu): 48 persons (OBPE: 38; ICCN: 7; UAC: 2; AVIGREF: 1)
· Identify, formulate and implement research projects related to value chains of ecosystem services					Done, see OBPE
· Collect data on transects in protected areas					1 workshop on Habitat monitoring , Park W: 17 attendants 13 AVIGREF + 6 UAC/LEA members.
· Co-produce lexica with local partners					Done, see Ruvubu (Burundi)
· Attend international policy meetings for OECD, IBPES					online
· Attend SBSTTA and COP of CBD					online

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

· Support and promote South attendance to SBSSTA, COP etc..						done
· Organise NP trainings in North						done
<b>Result 2 (CHM-IT): CHM and other IT tools in service of national research, monitoring and management are functional and used by scientists, authorities, their partners, and target publics (CHM 1.2, 2.2, 3.2)</b>	29	Number of scanned pages/items (digitised scientific literature, photos and more) available on CHM, GBIF and the archives of the national parks of former Belgian Congo (www.apncb.be) through the direct support of CEBioS	CHM websites	40-50	<b>50</b>	<b>350+1059</b>  See CHM Benin, RDC, Burundi, and Sahel countries, Lebanon, Madagascar/ 1059 at CSB: g: 18 mémoires de licence produits au département d'hydrobiologie de la Faculté des Sciences de l'Université de Kisangani ont été postés sur le site de CHM-DRC 60 pg rapports annuels CSB 2015-2017 60 pg rapports annuels CSB 2018-2019 x pg rapport des activités de sensibilisation collectivité de Baboro x pg
	30	Number of CHM technical and IAC meetings participation attended by CEBioS staff	CHM technical and IAC meeting minutes	2/year	<b>2</b>	<b>2</b> Due to COVID no physical meetings organised
	31	Number of people enabled to train contributors to the CHM in partner countries	Participant registration	8	<b>8</b>	<b>7</b> Due to COVID only the meeting in Niger took place
			Number of women	2	<b>2</b>	<b>1</b> Due to COVID only the meeting in Niger took place
			Total number	10	<b>10</b>	<b>8</b> Due to COVID only the meeting in Niger took place
	32	Number of national trainings organised by CHM trainees	Project reports and questionnaire each second year of the programme	2-4	<b>4</b>	<b>4</b> Burundi, RD Congo (Bukavu with PFN), Madagascar, RCA
	33	Number of persons reached in national trainings organised by trainees	Project reports and questionnaire each second year of the programme	40-60	<b>50</b>	<b>65</b> 37 Madagascar; 10 Burundi, RD Congo X, RCA 18;
-	34	Number of visitors to CHM web sites	CHM stats	250.000	<b>270000</b>	<b>281000</b> Pages visited on the countries CHM that are part of the official 14 partnercountries; 471.000 pages if also CEBioS, Be and countries like madagascar are taken into account
<b>Activities</b>						
· Organising national content management workshops for scientists						Done
· Encouraging scientific posts on the CHM/ CHM call						Done

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

· Doing scanning sessions of archives at RBINS and in the countries						done
· Organisation of networking and training events for national CHM						done
· Participation in meetings for development of IT tools in the framework of CBD and EU						Done on 'DARTS'
· Involvement in development or application of mainstreaming tools						
· Attend CHM technical and IAC meetings						Done
· Attend CHM-related activities such as contests, prizes						Done
· Organise CHM trainings in partner countries						Done (online)
· Stimulate partners to participate in in CHM related activities						Done
<b>Result 3 - Scientists and implementing authorities are able to valorize and communicate about their research related to monitoring and managing ecosystems and services, among authorities and decision makers (MRV 1.3 – 2.3, AW2.4)</b>	35	Number of tools ( <b>Policy Briefs, lexica</b> , etc) published that facilitate the application of scientific knowledge to ensure the monitoring of habitats and of ecosystem health		3/year		
			Lexica	1/1.5 year	<b>1</b>	<b>1</b>
			Policy Briefs	12 in 4 years	<b>2</b>	<b>1</b>
	36	Number of CEBioS trainees that become involved in the production of lexica and policy briefs with the support of CEBioS	Project reports	estimated 10-20 per product	<b>30</b>	<b>100</b>
	37	Number of projects on MRV awareness raising completed	Project reports		<b>0</b>	
<b>Activities</b>						
· Create flyers, posters, video's, by and with alumni or partners						GTI through awareness projects
· Organise local meetings with specific target groups						Done (Burundi, Benin, Niger, RD Congo)
· Assure the targeted dissemination of the tools produced						Done (abcTaxa, policy briefs)
· Publish activity reports to CHM						Done
· Organise MRV formulation and training workshops Fr and Engl						budget 2019
· Organise MRV calls Fr and Engl						Done
· Implement and follow up on MRV projects						Done

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

· Organise MRV closing workshops Fr and Engl, back to back with awareness methodology workshops							2022
· Organise MRV awareness calls Fr and Engl							2022
· Implement and follow up on awareness projects							2022
· Create policy briefs with and by CEBioS- alumni							
<b>Result 4 - The awareness about governance, monitoring, sustainable use and management of biodiversity is raised (AW3.3, 4.2; 2.4)</b>	38	Number of awareness raising meetings with different target groups, organised by CEBioS partners	Meeting reports	ca 3-5/year	<b>14</b>	<b>14</b>	APA meeting (Burundi); Meetings in the awareness calls GTI and norma call; collectivité de Baboro, 5-10 janvier 2020; à Bondjala, Bogata et Bopando
	39	Number of vulgarizing documents effectively published (videos ; posters ; flyers ; or articles in popular media) by partners, with support of CEBioS	Publications	5	<b>14</b>	<b>15</b>	1 fois par le journal Karibu ( <a href="http://karibunonline.e-monsite.com">http://karibunonline.e-monsite.com</a> ), 12 fois par la radio Flambeau de l'Orient de l'Université de Kisangani, 1 fois sur la page facebook du CSB et 1 fois sur l'Audio-blog arteradio ( <a href="https://audioblog.arteradio.com">https://audioblog.arteradio.com</a> ).
	40	Number of projects on awareness raising carried out (except MRV, see ind. 37)	Project reports and participants lists	2-5/year	<b>11</b>	<b>16</b>	16 (awareness call and GTI awareness call)
<b>Activities</b>							
· Attend/organise national or regional deciders meetings							Done
· Attend/organise side events and CEPA sessions at COPs and other national and international meetings;							Due to COVID no CEPA sessions
· Promote biodiversity and development with private sector in the South							Collaboration with PROCOBU
· Promote biodiversity and related tools in strategic dialogue and learning trajects							Done with development of SECORES
· Organise training on awareness							
· Calls to raise awareness of target groups							done
· Calls and surveys to measure change in perception of target groups.							Done, Rwanda 2020 awareness project
· Organise GTI awareness calls Fr and Engl							done



## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Concerning the **Global Taxonomy Initiative**, the capacity building and gender indicators are as following:

- Indicateur 20 Number of persons of which the capacities have been strengthened (per CB type) (for all results): +35 ( 9F / 26 M) (GTI capacity development call)
- GTi awareness call 2020 :

Indicator 10-Number of staff of implementing authorities reached through awareness raising projects (number of persons)	+64
Indicator 15- Number of staff members of authorities, decision makers and policymakers reached through awareness raising activities (number of persons)	+36
Indicator 17- Number of synergies and complementarities (collaborations, joint activities) with another country or an international/national NGO to implement the project	+3
Indicator 18- Number of people (ultimate beneficiaries) reached through the supported awareness projects	+1153
Indicator 38-Number of awareness raising meetings with different target groups, organised by CEBioS partners	+25
Indicator 39-Number of vulgarizing documents effectively published (videos ; posters ; flyers ; or articles in popular media) by partners, with support of CEBioS	+38
Indicator 40-Number of projects on awareness raising carried out (except MRV,see ind. 37)	+7

### 3-INSTITUTIONAL COOPERATION

#### BURUNDI

The institutional cooperation report from Burundi is available on demand as it is too extensive with 82 sub-reports.

#### Monitoring of habitats:

12 visits by in total 50 people that collected 120 specimen and filled in 270 LEM files that have been introduced into the herbarium and the database.

Ecosystem services are better understood:

Studies have been done on pollinators and *Raphia ruenzorica* resulting in 2 reports, 3 master document, 2 masters defenses and 3 scientific publications in preparations.

## **RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

### **Awareness is increased**

3 workshops have been organised with extensive participation from different organisations, however the final decision makers quite often send representatives instead of participating themselves. For these workshops 4 modules and other extension material has been developed.

### **CHM and MRV are used to orientate decision making**

1000 pages and documents have been transferred to the new Bioland site, 10 pages from other ministries have been added.

### **Additional activities**

A regional workshop for Benin, Burundi and DR Congo on the monitoring of habitats was organised in May 2022 as due to the COVID pandemic it couldn't take place in 2020. 2 synergy projects with local and Belgian NGOs took place:

OBPE – PROCOBU: awareness raising of the population and local authorities around the Rusizi national Park.

OBPE-Join for Water – AVEDEC – ASREEBU: restoration of water catchments with biodiversity rich vegetation in Isare.

## **BENIN**

Wilfried SINTONDJI and Sylvain GOZINGAN (IRHOB, Benin) carried out an internship at the Royal Belgian Institute of Natural Sciences, in the ECOMOD team, from the 3<sup>rd</sup> of February 2020 to the 18<sup>th</sup> of March 2020. The internship was supervised by Katrijn Baetens and Geneviève Lacroix .

3<sup>rd</sup> of February 2020. Arrival. Contact with the organizers of the CEBioS program, administrative formalities and delivery of work equipment, namely a DELL computer, 8th generation core i7 with its accessories, provision of courses as well as a modelling book “ Ocean modeling For Beginners Using Open-Source Software by Jochen Kampf”.

### **Work carried out from the 4<sup>th</sup> of February to the 18<sup>th</sup> of March 2020:**

1. **English courses** (Campus Bruxelles CVO Semper) and computer courses (Linux, FORTRAN and structure of the COHERENS model) taught by Katrijn Baetens.

2. **Installing the COHERENS** model and FORTRAN on the computers. Compilation and simulation of different test cases of the COHERENS model to become familiar with the model.

3. **Implementation** of the model for the Gulf of Guinea. Implementing the model required collecting bathymetric data as well as hydrodynamic forcings at the open ocean boundary. The implementation on the 2D Gulf of Guinea was carried out using bathymetry data (0°E-10E,1°S-8°N) and tidal amplitude and phase.

a. Compiling in parallel.

The model has been adapted to be compiled in parallel, which allows the use of several processors and therefore saves computation time.

b. Optimization and resolution of the domain grid

The domain has been decomposed and adjusted to the model grid resolution

## **RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

4. **Data collection.** Bathymetry, sea surface elevation, river discharge, wind, salinity, precipitation data were downloaded and stored on the external drives offered during this course.

5. **VLIZ Marine Science Day Conference.** Two abstracts have been prepared and submitted for the VLIZ Marine Science Day scheduled the 18<sup>th</sup> of March 2020.

Wilfried Sintondji, Sylvain Gozigan, Médard Honfo, Geneviève Lacroix, Katrijn Baetens, Zacharie Sohoun. 2020. The influence of precipitation events on the temperature of the surface waters of lake Nokoué, Benin. VLIZ day, 18th of March 2020, Ostend, Belgium. VLIZ special publication #84.

Sylvain Gozigan, Wilfried Sintondji, Médard Honfo, Geneviève Lacroix, Zacharie Sohoun, Katrijn Baetens. 2020. Development of a low-cost salinity and thermometer based on a thermistor, electrical conductivity measurements of water and an arduino-nano development board for coastal and lacustrine applications. VLIZ day, 18th of March 2020, Ostend, Belgium. VLIZ special publication #84.

Preparation of posters.

6. **Presentation of results.** The first results were presented on February 26 in the presence of Dr. Geneviève Lacroix and Dr. Katrijn Baetens as well as the literature review of the two thesis projects.

7. **Finalization of the PhD** thesis protocol of Sylvain and Wilfried.

### **Problems encountered**

It was originally planned to complete the internship at the end of March but the two students had to return to Benin because of COVID. English classes have been interrupted and VLIZ Day has been cancelled.

### **RD CONGO**

Since 2019, the CSB team has decided to integrate MRV, GTI, CHM and awareness-raising activities into a project to monitor ecosystems in areas outside national parks. These studies revolve around the five questions:

- 1- What is the state of biodiversity and its monitoring in the study area?
- 2- What are the causes and consequences of disturbances to the ecosystems studied?
- 3- What are the revenues generated by the natural resources of the study area?
- 4- Who are the stakeholders involved in the exploitation of the different areas of biodiversity?
- 5- What is the level of knowledge of the stakeholders with regard to the unsustainable use of biodiversity?

Thus, during the year 2020, the CSB-CEBioS team (= the official name of this unit within the CSB) conducted studies in the Baboro chiefdom in the Banalia territory. These studies and their preparation have been implemented in several steps:

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

- 1- Preliminary **socio-economic surveys** (September 2020): the time allocated to these surveys was short and did not allow for the quantification of the use of the most exploited biological resources. Nevertheless, they allowed the identification of biological resources at risk due to random exploitation by local communities and provided guidance for the various studies to be conducted during the biological surveys.
- 2- The researchers were subjected to a series of **training sessions** in order to equip them to carry out their tasks: statistical analysis of socio-economic survey data, collection of survey data using the Kobo-collect tool (a tool used by Belgian NMCs, among others in health and agriculture), mapping, habitat monitoring and relational database management (2-21 October 2020).
- 3- **Biological surveys** (November 2020): the areas of data collection have been determined according to the results of the socio-economic surveys. This is the time to quantify the most exploited resources as revealed by the socio-economic surveys.
- 4- **Awareness raising** (January 2021): This is the time to report to the communities on the activities and results obtained. At the same time, the CSB is engaged in listening to communities to identify their perception of biodiversity conservation issues, obstacles and possible solutions.

**Conclusions and recommendations** formulated by the CSB in relation to this 'institutional MRV' exercise:

- The CSB-CEBioS programme has met a **favourable response** from the local authorities, who promise to support it by mobilising their constituents until the objectives are achieved;
- The local community is **aware** of the consequences of random exploitation of available resources. It is interested in finding support to better protect its natural environment, for example through the sedentarisation of agriculture and the practice of agroforestry;
- There is a **great need for awareness** raising and support for farmers to intensify and improve the protection of their environment, particularly to get out the hunters who have settled permanently in the forest and who hunt day and night;
- Baboro is a chieftaincy community where power is customary and is passed down through a lineage. This system presents the risk of customary authority being used to the detriment of the community. The resulting discontent sometimes leads to reactions of **misuse of biodiversity** resources by other community members.
- The general monitoring approach of surveying an area, sensitising the community to sustainable resource use and returning two years later to measure the impact of this sensitisation and the sequence of "surveys, multidisciplinary biomonitoring using non-invasive methods and sensitisation" is **highly appreciated** by the CSB research community. This vision has given rise to the need to organise training in remote sensing to help researchers monitor biodiversity in the study areas;

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

In its function as the secondary **Clearing House for DR Congo**, the CSB has

1. conducted digitisation activities of relevant grey literature produced by researchers from the SBC, the Faculty of Science and the Faculty of Renewable Natural Resources Management. As such, the digitisation is an extension of the activities in the 2019 budget year.
2. continued dissemination of biodiversity information by posting documents on the CHM-DRC website and
3. realised the reinforcement of ICT and solar equipment at the CSB.

### 4- CAPACITY BUILDING THROUGH PROJECT CALLS

CEBioS performs capacity building in many ways, especially (1) by implementing several types of competitive calls linked to individuals and institutional cooperation and (2) with the co-production of technical manuals and policy briefs through dedicated workshops.

#### *Calls for Global Taxonomy Initiative (GTI)*

Funding for:

- individual short-term trainings in Belgium for researchers/students from Belgian partner countries, with an emphasis on CEBioS partner institutions (UAC, OBPE,...) and main partner countries (Benin, DR Congo and Burundi). These trainings enable access to the rich collections based in Belgian institutions (RBINS, RMCA, MBG) and to Belgian expertise.

For the 2020 call, 30 projects were submitted. Twelve were selected (Table 1): 2 grantees who had to cancel or interrupt their internship early 2020 due to covid, 5 grantees who already received a GTI grant before, 3 new researchers, and 2 official candidates under institutional cooperation (CSB, DRC and OBPE, Burundi). Two of them were postponed to 2022 due to covid and administrative reasons.

- *in situ* group trainings facilitated by Belgian researchers/technicians in the South.

Four projects were submitted under the 2020 annual call, which were all selected by the jury (Table 2). Two of the selected projects could not be implemented under budget 2020 due to covid and/or security restrictions and still have to be implemented in 2022 (Mozambique and Vietnam). But a project that was selected under the 2021 call could take place (April 2022) and was covered by 2020 budget: the project of Prof. Maarten Van Steenberge (RBINS) in Benin. As a consequence of the postponement (due to covid) of a training on DNA bar-coding originally scheduled in Morocco in cooperation with UHasselt and IRD (France) at the University of Rabat, the GTI project of M. Van Steenberge was expanded to include such a DNA barcoding training for other GTI alumni in Parakou in April 2022.

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Table 1: Selected trainees under the 2020 GTI call and institutional collaboration

Grantee	Gender	Country	Taxa	Taxonomic group	Host	Mentor
Sinzinkayo Eugène	M	Burundi	Syrphidae (Insectes: Diptères)	arthropods-insects	MRAC	Kurt Jordaens
Baelo Pascal ( <i>postponed to 2022</i> )	M	DRC	Animal/Mammifères/Rongeurs/Sciuridae/ Funisciurus, Protoxerus, Paraxerus, Heliosciurus	mammals	RBINS	Erik Verheyen
Iradukunda Christella Suavis	F	Rwanda	Arthropoda/Insecta/Hymenoptera/Formicidae/ Camponotus	arthropods-insects	RBINS	Wouter Dekoninck
Hotekpo Sourou Joseph	M	Benin	Crustacea/Ostracoda/Podocopa/Cypridoidaea	arthropods-crustaceans	RBINS	Koen Martens & Isa Schon
Boukary Abdoul-Azize	M	Benin	Basidiomycota/ Agaricomycetes/ Agaricales (1/ Russulaceae / Russula; 2/ Cantharellaceae / Cantharella; 3/ Lyophyllaceae / Termitomyces; 4/Russulaceae / Lactifluus ; 5/Agaricaceae/ Agaricus)  6/Basidiomycota/ Agaricomycetes/ Polyporales / Polyporaceae / Lentinus	fungi	Meise	André De Kesel
Olou Armel Boris	M	Benin	Fungi/Basidiomycota/Agaricomycetes/ Polyporales/Ganodermataceae/ Ganoderma	fungi	Meise	Mario Amalfi
Pelebe Edéya Orobiyi Rodrigue	M	Benin	Poissons/Cichlidés	fish	RBINS	Maarten Van Steenberge (Erik Verheyen)
Soro Nicodénin Angèle	F	Ivory Coast	Arthropoda/Insecta/Hymenoptera/many families/many genera	arthropods-insects	RBINS	Wouter Dekoninck

**RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

Goussanou Appolinaire	M	Benin	Arthropodes/Crustacés/Décapodes	arthropods-crustaceans	RBINS	Cedric D'Udekem D'Acoz
Azirar Maryam	F	Morocco	Arthropoda/Crustacés/Malacostraca/Isopoda/Cirolanidae	arthropods-crustaceans	RBINS	Patrick Martin, Gontran Sonet
Isabella Yasmine Olobo ( <i>postponed to 2022</i> )	F	Benin	Ochrophyta/Bacillariophyceae/Pennales/Naviculaceae/ Navicula	algae	Meise	Christine Cocquyt
Jean-Leon Kambale Katembo	M	DRC	Spermatophyta/Magnoliophyta/magnoliopsida/gentianales/Rubiaceae/Coffea	Seed plants	Meise	Piet Stoffelen

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Table 2: GTI North – South projects selected under the 2020 call (the last one was selected under the 2021 call but implemented under the 2020 budget)

Country	Mentor	Title
Benin	P. Martin	Taxonomie des invertébrés des eaux souterraines du Bénin : ouvrir la voie aux outils d'évaluation et de biomonitoring de la qualité de l'eau
Mozambique (postponed to 2022)	Y. Samyn	Increasing Marine Taxonomic Knowledge in Mozambique: the Case of Two Neglected Taxa, part Three
Rwanda	W. Dekoninck	A Taxonomical Course focussing on Ants as a stepping stone towards a study of the Ant Community Composition in Relation with the Forest type in the Arboretum of Ruhande and Rubona Research Center
Vietnam (postponed to 2022)	Hendrickx & Constant	A step further in the Entomodiversity of Vietnam (part XI)
Benin (2021 call)	M. Van Steenberge	Capacity building on molecular identification and collections management of fishes in Benin: Towards an establishment of a barcodes reference library of the Beninese ichthyofauna and the constitution of a first fish collection at the University of Parakou

### *Calls for Monitoring-Reporting-Verification (MRV) projects*

There were no MRV calls or planned workshops under 2020 budget.

Eight FR MRV projects selected in 2019 that had to be finished in 2020, were prolonged because of the Covid situation ( OBPE in Burundi (human-wildlife conflicts), CRH in Uvira (RDC, on sardine dynamics of Lake Tanganyika), FAST in Benin (medicinal plants), CSB in DRC (bushmeat), SCRID-AGRI in DRC (sustainable fisheries), CEIBA in Benin ( forest cover), UOB in DRC (fisheries in Lake Kivu) and CRH in DRC (degradation in Ruzizi plain).

Five EN MRV projects were selected and started up, following a workshop in Entebbe in February 2020 (budget 2019): one by NEMA in Uganda (value chain shea nut), EQA in Palestine (biodiversity conservation), COLA in Zanzibar (land use management), NMAIST in Tanzania (fisheries in Lake Manyara), NAFIRRI in Uganda (fish data base).



## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Table 3: EN MRV projects selected after the Entebbe workshop in February 2020

<b>Impact of domestic and international demand of Shea products and its implication for the conservation of the Shea nut tree species in Uganda</b>	
<b>Country:</b> Uganda <b>Theme:</b> Value chain approach for the conservation of Shea nut tree species in Uganda <b>Promoter and co-promoter institutions:</b> National Environment Management Authority and Uganda Bureau of Statistics (UBOS) <b>Selected biodiversity indicator(s):</b> Volume of Shea nut oil harvested, Average household income	
<b>Expanding spatial coverage of freshwater biodiversity monitoring indicators in the Lake Edward System, Uganda</b>	
<b>Country:</b> <b>Theme:</b> fisheries <b>Promoter:</b> National Fisheries Resources Research Institute (NaFIRRI) <b>Partner:</b> NugSoft technologies, a private partner for database management. <b>Selected biodiversity indicator(s):</b> amount of fish catches and number of people dependent on fishing.	Uganda
<b>Integrated Land Use Management to Enhance Biodiversity Conservation in Zanzibar</b>	
<b>Country:</b> Tanzania (Zanzibar) <b>Themes:</b> Land use change and impact on biodiversity <b>Promoter:</b> Zanzibar Commission of Lands (COLA) - (Administrative Manager for the Project) <b>Partner:</b> Central District Council - (Field Coordinator for the Project) <b>Selected biodiversity indicator(s):</b> Percentage of overlapping land from Land banks to community forest management areas (CoFMAs), which is at risk of land use change; and Percentage of special valued community areas relevant for biodiversity conservation and potential for tourism development in Central District's CoFMAs.	
<b>Addressing data gaps and uncertainty in fisheries resources in lake Manyara basin (LMB)</b>	
<b>Country:</b> <b>Theme:</b> <b>Promoter:</b> Nelson Mandela African Institution of Science and Technology (NM-AIST) <b>Partner:</b> Tanzania Forest Research Institute (TAFORI) <b>Selected biodiversity indicator(s):</b> <ul style="list-style-type: none"> <li>Direct indicators: 1) Trends in fish stock which is a primary indicator from which more sub-indicators can be derived such as species abundance and diversity. 2) Number of endemic species</li> </ul>	Tanzania fisheries

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

<ul style="list-style-type: none"><li>• Indirect indicators: Habitat quality as reflected by water quality parameter measures (eg. pH, turbidity, Dissolved oxygen) and commonly used and practised pesticides in agriculture and pastoral land.</li></ul>
<p><b>Academic Cooperation with the Environment Quality Authority to Refine Strategies for Biodiversity Conservation in Protected Areas in Palestine</b></p> <p><b>Country:</b> Palestine <b>Theme:</b> strategies to comply with the CBD <b>Promoter Institution:</b> Palestine Institute for Biodiversity and Sustainability (PIBS), Bethlehem University (<a href="https://www.palestinenature.org/">https://www.palestinenature.org/</a>). <b>Partner Institution:</b> Environment Quality Authority (EQA), State of Palestine (<a href="http://environment.pna.ps/ar/">http://environment.pna.ps/ar/</a>). <b>Selected biodiversity indicator(s):</b> 1. monitoring of success policies by looking at general trends in meeting Aichi targets 2. efficacy of policies in articulating how to monitor ecosystem resiliency, population trends, and threats with regards to endangered species.</p>

Based on discussions by more than 100 scientists, NGOs and decision-makers from DRC in participatory workshops in Kisangani (2017) and in Bukavu (2019), a policy brief '*Suivi de la biodiversité en RD Congo : comment le rendre efficace et pertinent pour la gestion et décision*', was edited in 2020 for publication in 2021.

However, with funds remaining in other parts of the programme, and upon specific request of the participants at the Bukavu workshop in 2020 (budget 2019) and several other partners, it was decided to provide training in data-base management and GIS for CEBioS partners (MRV, GTI, habitat monitoring) from the DRC, Benin, Rwanda and Burundi. Because of the Covid pandemic, this South-South training was reported several times and finally took place in March 2022 in Kisangani, DRC (budget 2020). The CSB organised the workshop. Trainers were Beninese and Congolese experts.

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Table 4: participants to the training sessions on relational data-basis and GIS, 11-16 March 2022

N°	NOM	PRENOM	AFFILIATION	E-MAIL
1	Aurel Maniraguha Balibutsa	Mathieu	UNILU	<a href="mailto:mathaurel1@gmail.com">mathaurel1@gmail.com</a>
2	Bahati Zirirane	Tigana	CPEDD- Sud Kivu	<a href="mailto:bahatitiganzirirane@gmail.com">bahatitiganzirirane@gmail.com</a>
3	Bayubasire	Innocent	CPEDD- Sud Kivu	<a href="mailto:bayubasireinnocent@gmail.com">bayubasireinnocent@gmail.com</a>
4	Binozo Mwibusa	Alain	ISDR-Uvira	<a href="mailto:alainbinozom@gmail.com">alainbinozom@gmail.com</a>
5	Biringanine Mugoli	Elisabeth	CRSN- Lwiro	<a href="mailto:eliseemugoli@gmail.com">eliseemugoli@gmail.com</a>
6	Bitagirwa Ndele	Aloise	UCB	<a href="mailto:aloisebitagirwandele@gmail.com">aloisebitagirwandele@gmail.com</a>
7	Bukuru	Jean-Jacques	ISTOU - Bujumbura	<a href="mailto:jacbukuru@gmail.com">jacbukuru@gmail.com</a>
8	Bulenda	Adalbert	ISTOU-Goma	<a href="mailto:kitsabulenda@gmail.com">kitsabulenda@gmail.com</a>
9	Bushashire Ngulu	Faustin	CREF	<a href="mailto:faustin.ngulu@reseauceref.org">faustin.ngulu@reseauceref.org</a> ; <a href="mailto:faustin.ngulu@gmail.com">faustin.ngulu@gmail.com</a>
10	Byamungu Ndeko	Adrien	Université Evangélique en Afrique	<a href="mailto:ndeke.byam@gmail.com">ndeke.byam@gmail.com</a>
11	Gbemavo	Charlemagne	Université d'Abomey-Calavi	<a href="mailto:cgbemavo@yahoo.fr">cgbemavo@yahoo.fr</a>
12	Kaleme	Prince	CRSN- Lwiro	<a href="mailto:pkaleme@gmail.com">pkaleme@gmail.com</a>
13	Kambale Muhasa	Albert	CPEDD- Sud Kivu	<a href="mailto:albatroskambale@gmail.com">albatroskambale@gmail.com</a>
14	Kambasu Kisambi	Faustin	UNIGOM	<a href="mailto:faustin.kisambi@unikis.ac.cd">faustin.kisambi@unikis.ac.cd</a> ; <a href="mailto:faustin.kambasu@unigom.ac.cd">faustin.kambasu@unigom.ac.cd</a>
15	Kambere Mulwahali	Jean de la Croix	Virunga org	<a href="mailto:jmulwahali@virunga.org">jmulwahali@virunga.org</a>
16	Kisekelwa Tchalondawa		ISP - Bukavu	<a href="mailto:kisengoja@yahoo.fr">kisengoja@yahoo.fr</a>
17	Lègba Sènan	Ingride	Green Power ONG	<a href="mailto:ingride.legba@gmail.com">ingride.legba@gmail.com</a>
18	Lusa Mbaya	Richard	Inspection prov. Environ. Mbuvi-Mayi	<a href="mailto:lusafrichard@gmail.com">lusafrichard@gmail.com</a>
19	Manne M'Mohe	Delphin	CPEDD- Sud Kivu	<a href="mailto:delphinmannem@gmail.com">delphinmannem@gmail.com</a>
20	Masabo	Onesphore	Office Burundais pour la Protection de l'Environnement (OBPE)	<a href="mailto:mas_ones@yahoo.fr">mas_ones@yahoo.fr</a>
21	Mashauri Ndagaba		ISP - Bukavu	<a href="mailto:fontainendab@gmail.com">fontainendab@gmail.com</a>
22	Masilya Mulungula	Pascal	ISP - Bukavu	<a href="mailto:pascalmasilya@yahoo.fr">pascalmasilya@yahoo.fr</a>
23	Masumbuko Ndagaba	Céphas	UOB	<a href="mailto:masundab2002@yahoo.fr">masundab2002@yahoo.fr</a>
24	Milenge Kamalebo	Héritier	ISP - Bukavu	<a href="mailto:kamaleboheritier@gmail.com">kamaleboheritier@gmail.com</a>
25	Mikwa	Jean-Fiston	UNIKIS	<a href="mailto:jf.mikwa@unikis.ac.cd">jf.mikwa@unikis.ac.cd</a>
26	Mubakire Cikara	Christian	CPEDD- Sud Kivu	<a href="mailto:mubacika@gmail.com">mubacika@gmail.com</a>
27	Mudagi	Joyeuse	ISP - Bukavu	<a href="mailto:joyeusemudagi@gmail.com">joyeusemudagi@gmail.com</a>
28	Mulimbwa N'Sibula	Albert	CRH-Uvira	<a href="mailto:mulimbwa49@gmail.com">mulimbwa49@gmail.com</a>
29	Musikami Ntibonera	Patrick	ICCN-PNKB	<a href="mailto:patrickmusikami@gmail.com">patrickmusikami@gmail.com</a>
30	Muterezi Bukinga	Fidel	CRH-Uvira	<a href="mailto:fidel.muterezi@gmail.com">fidel.muterezi@gmail.com</a>
31	Ndamiyehe	Jean-Baptiste	UNIGOM, UNIKIS, Carte ONG	<a href="mailto:ncutijean@gmail.com">ncutijean@gmail.com</a>

32	Ndayizeye	Gaëlle	Université du Burundi	<a href="mailto:gaellendayi@gmail.com">gaellendayi@gmail.com</a>
33	Ngera Mwangi	François	CRSN- Lwiro	<a href="mailto:francngera6@gmail.com">francngera6@gmail.com</a>
34	Nkengurutse	Jacques	Université du Burundi	<a href="mailto:jacques.nkengurutse@ub.edu.bi">jacques.nkengurutse@ub.edu.bi</a>
35	Nsengimana	Venuste	University of Rwanda	<a href="mailto:venusteck@gmail.com">venusteck@gmail.com</a>
36	Ntashavu	Dieudonné	Office Burundais pour la Protection de l'Environnement (OBPE)	<a href="mailto:ntashavu@obpe.bi">ntashavu@obpe.bi</a>
37	Paluku Mutiviti	Gilbert	Université Catholique du Gabon	<a href="mailto:malkakuva@gmail.com">malkakuva@gmail.com</a>
38	Rubakare Haby	Patent	UNIGOM	<a href="mailto:rubakarepatient@gmail.com">rubakarepatient@gmail.com</a>
39	Witanene Milenge	Ladislav	CBCS-network	<a href="mailto:witanenemilenge@gmail.com">witanenemilenge@gmail.com</a>

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

### *Calls for Clearing House Mechanism and awareness*

Table 5: projects selected under the 2020 CHM call

Pays	Personne(s) en charge du projet	Institution/ structure	Titre du projet	Durée
Niger	Maman Sani Issaka	SP/CONEDD	Atelier de vulgarisation, de présentation et d'information des contributeurs sur le processus de migration du site CHM vers le bioland en vue d'acquérir les nouvelles données et pour le suivi du site CHM	8 months
RD Congo	Adelard Mutombo	DDD	Informier et sensibiliser les décideurs politiques et d'autres acteurs de la biodiversité de la Province de Nord-Kivu sur le CHM et le site CHM) ;	8 months
Burundi/Madagascar	Longin Ndayikeza and Voahangy Raharimalala	OBPE/ONE	Utilisation effective de l'outil bioland par le Burundi et Madagascar dans le transfert des informations en matière de Biodiversité	8 months
Rwanda	Ammanuel Bugingo	Nature Rwanda	Development of a Communication plan and Strategy for Rwanda Clearing House Mechanism (CHM)	5 months
Guinea	Saidou Doumbouya	ORDD	Installation d'un (1) Dispositif National de Suivi Environnemental dans la Zone Humide	8 months

Table 6: projects selected under the 2020 awareness call

Pays	Personne(s) en charge du projet	Institution/ structure	Titre du projet	Durée
Benin	Amoussou Koffi Gauthier	ECO-Bénin	Youth for Biodiversity Conservation	5 months
Benin	Dossou Bodjerenous Sagbo	Nature Tropicale	Sauvegarde communautaire des espèces menacées des zones humides du Sud Benin	6 months
DR Congo	Heritier Milengé	CERUKI	Sensibilisation et partage d'information pour la promotion des champignons utiles et la gestion durable de leurs habitats à l'Est de la République Démocratique du Congo	4 months
DR Congo	Cephas Masumbuko	UBukavu	Projet d'éducation et de sensibilisation de la population exploitant le bassin versant du Lac Tanganyika et de la rivière Ruzizi sur les rôles de	6 months

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

			la végétation et les techniques culturelles durables pour la stabilité du sol (RD Congo)	
DR Congo	Cephas Masumbuko et Elisabeth Mugoli	UBukavu	Projet d'éducation et de sensibilisation des communautés riverains de la Réserve naturelle d'Itombwe sur l'importance des champignons sauvages comestibles : un atout pour répondre aux besoins vitaux.	5 months
Rwanda	Jean Claude Dusabimana	Rwanda Nature	Baseline study on the perception of biodiversity in Rwanda based on the indicators developed in project type 1.	6 months
Togo	Col. Agbeti	DSFMEDDPN	Sensibilisation des géomètres, des gardiens des us et coutumes et de neuf grands entrepreneurs en bâtiments et travaux publics sur la valeur des services éco-systémiques et l'impact de l'inaction à la conservation des zones humides urbaines et péri-urbaines	6 months

Table 7: projects selected under the 2020 GTI awareness call

Country	Institution	Person(s) in charge of the project	Project title	Duration
Rwanda	College of Education, University of Rwanda & Centre of Excellence in Biodiversity and Natural Resource Management, College of Science and Technology, University of Rwanda.	Dr. Nsengimana Venuste	Use of Soil-Litter Arthropods as Biological Indicators of Soil Quality in Rwanda	5 months
Benin	Unité de recherche en Mycologie Tropicale et Interactions Plantes-Sol-Champignons (UR-MYTIPS)	BADOU Akotchayé Sylvestre	Sensibilisation et partage d'information sur la conservation et la gestion durable des habitats naturels des champignons comestibles au nord du Bénin	3 mois
Benin	ONG CAPEBIO (Cercle d'Action pour la Protection de l'Environnement et la Biodiversité)	Zinsou Cosme Koudenoukpo, PhD	Sensibilisation des populations riveraines de la rivière Sô et du fleuve Ouémé sur la biodiversité des mollusques gastéropodes dulcicoles du Bénin, services écosystémiques et approches de conservation pour une exploitation durable.	3 mois
Benin	Faculté des Sciences et Techniques de l'Université d'Abomey-Calavi (FAST/UAC).	OLODO Banigbé Itounou Isabella Yasmine	Information et sensibilisation au Bénin sur les risques liés à la pollution des eaux du lac Ahémé et leur impact sur la santé humaine et l'environnement.	3 mois
Benin	Laboratoire de Parasitologie et Ecologie Parasitaire de l'Université d'Abomey-Calavi	HOTEKPO Sourou Joseph	Sensibilisation sur l'importance de la faune aquatique des puits ; le traitement et la conservation de l'eau avant usages au Bénin	3 mois

Benin	Laboratoire de Parasitologie et d'Ecologie Parasitaire (LPEP)	LAGNIKA Moïssou	De l'eau potable à domicile, un impératif pour les populations rurales du Bénin	4 mois
RD Congo	Centre de Recherche en Sciences Naturelles (CRSN/Lwiro)	Mwanga Mwanga Ithe Jean-Claude	Sensibilisation du public sur la valorisation des espèces de Convolvulaceae, un aspect important pour lutter contre la pauvreté et la conservation des forêts de l'Est de la République démocratique du Congo (Cas du Territoire de Kabare)	3 mois
Rwanda	Center of Excellence in Biodiversity and Natural Resources Management (CoEB).	Umuntunundi Prosper	Awareness raising of neglected terrestrial snails in the forests of Rwanda	4 months
Burundi	Office Burundais pour la Protection de l'Environnement (OBPE)	Eugène Sinzinkayo	Sensibilisation du public sur Impact du déclin des Syrphidae pollinisatrices sur la production agricole et le changement climatique: Cas de la région de Mumirwa	4 mois

## The lexica

2020

# Habitats du Parc national de la Ruvubu

(Burundi)

Etat actuel et guide  
au suivi de leur dynamique  
à l'aide d'un lexique des plantes

Benoît Ndirakobuca, François Mushiyezi, Habyarimana  
Dieudonné, Mutsaers, Omerighe, Mushiyezi  
Luc, Janssens du Buisson & Bornade de Habsbrunn

mus-um

## AbcTaxa

In 2020, a AbcTaxa volume 20 was published on a genus of Rubiaceae (coffee family) by a Cameronese alumni. The presentation of AbcTaxa at the International Congress of Zoology by a local researcher in Durban (South Africa) was also supported.

### One volume was published in 2020:



**Table 8: Summary of distribution of AbcTaxa volumes in 2020:**

Volume N°	Gratuits ponctuels	Gratuits	Payants	Total distribué
1	1			1
2	1			1
3	1			1
4	1		1	2
5	1		1	2
6	1		1	2
7	5			5
8	1			1
9	1			1
10	1			1
11	2			2
12	1			1
13	1			1
14	2	1	1	4
15	1			1
16	1			1
17	1			1
18	1			1
19	1	7		8
20	23	49		72
Total:	48	57	4	109





## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Based on discussions by more than 100 scientists, NGOs and decision-makers from DRC in participatory workshops in Kisangani (2017) and in Bukavu (2019), a policy brief '*Suivi de la biodiversité en RD Congo : comment le rendre efficace et pertinent pour la gestion et décision*', was edited in 2020 for publication in 2021.



## Evamab manual

The Evamab project, financed by BELSPO, with CEBioS as promotor, ended in 2020. Its main output, the Manual was being finalized in 2020 and 2021. It is currently (June 2022) being edited in French and English by UNESCO and should be officially launched in Summer/autumn 2022. The coming APAC IUCN congress in Rwanda (July 2022) will be used as a platform to announce or launch this manual in cooperation between CEBioS and UNESCO-MAB.



## 6-CEBIO'S STAFF ACTIVITIES, VISIBILITY, OTHER PROJECTS & SOCIAL MEDIA

### *External projects*

In 2020, CEBioS was partner/promotor/involved in the following external projects:

- **CESP: CHM/GBIF project** with MNHN, Paris, France. The project focusses on training CHM national focal points on the Bioland tool for national CHMs, integrate a module GBIF data in the national instances and inform the CHM focal points on the use of GBIF data. It took place virtually due to the pandemic.
- **Leopold III fund** CEBioS organised the scanning of slides for the Leopold III fund of their slide collection with a focus on the national parks of the DRC.
- **EVAMAB** (funded by BELSPO, 2017-2019), year 3.. See <http://www.biodiv.be/evamab> and <http://www.unesco.org/new/en/natural-sciences/environment/ecological-sciences/man-and-biosphere-programme/networks/afriamab/evamab/>
- **ARES- project** on regional network mushrooms (DRC, Burundi): 3 PhDs have started at ULB, UCL, ULiège (Gembloux)
- **BIODIVERSA-project** approved : relationship between biodiversity erosion and zoonotic outbreaks (DRC and Ivory Coast), in cooperation with CSB and carried out by CEBioS associated Prof. Erik Verheyen (RBINS).

### *Conferences/ webinars*

In 2020, staff members of CEBioS participated to the following conferences:

- Han de Koeijer: March 2022 Participation in OEWG4/SBI3/SBSTTA24 Geneva, Switzerland
- François: 2 online meetings of the Royal Academy of Overseas Sciences /Class of Medicine and Natural Sciences
- Staff participated in many webinars, e.g., 'Climate information for Biodiversity', 'GTI forum', 'IUCN conservation of Protected Areas', 'IPBES capacity building forum', 'Klimsec workshop', 'Water Nexus'

### *Missions by CEBioS staff on 2020-budget*

The year 2020 had the pandemic in full swing, with travel bans and lockdowns. Therefore, very few missions took place in that year. However, missions started again in 2021-2022 on the 2020 budget.

- Anne-Julie and Hilde – February and March 2020 : MRV workshops in Entebbe and Bukavu (budget 2019)
- Hilde March 2022 : training sessions on data-bases and GIS, Kisangani (budget 2020)
- Han de Koeijer, Luc Janssens and Anne-Julie Rochette: November 2021 workshop with partners from Benin to learn from each other and prioritise cooperation for past 2023
- Han de Koeijer and Hilde Keunen: May 2022, Burundi: follow-up on programmes 2020 – 2021; preparations for 2022 and 2024-2027
- Han de Koeijer: March 2022 Participation in OEWG4/SBI3/SBSTTA24 Geneva, Switzerland

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

- Luc Janssens: December 2021 participation in regional CHM workshop, Niamey, Niger
- François Muhashy Habiaremye: 17.04 - 09. 05. 2022, organisation de l'atelier régional sur la gestion des feux dans les aires protégées en Afrique tropicale, Parc National de la Ruvubu (Burundi) ; enregistrement des observations diachroniques sur des plateaux permanents dans le secteur sud du PNVi (RDC).
- Luc, exploratory mission in Gambia with Prof. Vanhove (UHasselt) and Prof. Hugé (Open University Netherlands)(Luc on own funding)

### *Publications*

**In 2020, staff members of CEBioS published the following papers:**


#### **2020**

- Hugé, Jean; Vanhove, Maarten; Verbist, Bruno; Verheyen, Erik; De Keyser, Els ; Vertriest, Isabelle; Keunen, Hilde; Stoffelen, Piet; Leemans, Ingrid; Sjölund, Jennifer; Rochette, Anne-Julie; Janssens de Bisthoven, Luc, 2020. Mainstreaming biodiversity conservation into development cooperation – Highlights from a recent ALTER-NET - EKLIPSE workshop. Conservation News in Oryx 54-1, pp 14-15.
- Jean Hugé, Luc Janssens de Bisthoven, Mathilda Mushiete, Soraya Candido, Anne-Julie Rochette, Hilde Keunen, Farid Dahdouh-Guebas, Nico Koedam, Maarten P.M. Vanhove, 2019. EIA-driven biodiversity mainstreaming in development cooperation: confronting expectations and practice in the DR Congo. Environmental Science & Policy, 104, 107-120.
- Janssens de Bisthoven, L., Vanhove, M.P.M., Rochette, A.-J., Hugé J., Verbesselt, S., Machunda, R., Munishi, L., Wynants, M., Steensels, A., Malan-Meerkotter, M., Henok, S., Nihwatiwa, T., Casier, B., Kiwango, Y.A., Kaitila R., Komakech, H., Brendonck, L., 2020. Social-ecological assessment of Lake Manyara basin, Tanzania: a mixed method approach. Journal of Environmental Management, 267, 110594.
- Jean Hugé, Anne-Julie Rochette, Stef de Béthune, Claudia Parra Paitan, Koen Vanderhaegen, Thibaut Vandervelden, Steven Van Passel, Maarten Vanhove, Bruno Verbist, Dorien Verheyen, Luc Janssens de Bisthoven, 2020. Ecosystem services assessment tools for African Biosphere Reserves: a review and user-informed categorization. Ecosystem Services 42, 101079.
- Habiaremye Muhashy, F. & Ruremesha Kinyata, S. 2020 - Environnement et piliers endogènes de la valorisation de la biodiversité dans les secteurs sud et Centre du parc national des Virunga, RD Congo. Geo-Eco-Trop., 2020, 44, 1 : 15-41
- Efio, S. ; Sogbohossou, E. A.; Magnon, Z. Y. ; Houinato, M. R. B. ; Habiaremye Muhashy, F. ; Sinsin, B. A. ; Tossou, C. R. 2020– Human wildlife conflicts and mitigation mesures in Pendjari Biosphère Reserve, Northern Benin. Annales des Sciences Agronomiques, Université d'Abomey -Calavi 22(1): 15-31
- Ndamayehe Ncutirakiza, J.- B.; Lejeune, P. ; Gourlet – Fleury, S. ; Fayolle, A. ; Ndjele, Mianda – Bungu, L.; Ligot, G. 2020 – Quantifier les dimensions des houppiers à l'aide d'images aériennes à haute résolution pour estimer l'accroissement diamétrique des arbres dans les forêts d'Afrique centrale. Bois et Forêts des Tropiques 343 :67-81  
<https://doi.org/10.19182/bft2020.343.a31848>

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

- Nzigidahera, B. ; Habiyaemye Muhashy, F. ; Mbarushimana, D. ; Masabo, O. ; Janssens de Bisthoven, L. & Habonimana, B. 2020 - Habitats du Parc National de la Ruvubu (Burundi) : Etat actuel et guide au suivi de leur dynamique à l'aide d'un lexique des plantes ». IRSNB , 245pp

### Press & public awareness

Hilde et Anne-Julie dans Un de Goma Sapientia	25-05
 AUD-20200113-WA 0035 Chanson sur biodiv en RDC	19-02
Conservation Frontlines issue 12 report on thesis of Els de Keyzer science daily	1-12-20
Radio cebios op <a href="http://karibunionline.e-monsite.com/medias/files/jean-fundi-rfo-radio-mag-biodiversiteetnous-cebios-6fevrier2020-new-.mp3">http://karibunionline.e-monsite.com/medias/files/jean-fundi-rfo-radio-mag-biodiversiteetnous-cebios-6fevrier2020-new-.mp3</a>	26-4
La Libre Afrique, <a href="#">De moins en moins de poissons à pêcher dans le lac Tanganyika — La Libre Afrique</a> moins de poissons tanagniyka werk els	6-11-20
Poster on CSB work : 100 views	9-11
<a href="http://karibunionline.e-monsite.com/pages/environnement-agriculture-durable/bafwesende-cebios-decouvre-des-communautes-pauvres-sur-une-chaise-en-or.html">http://karibunionline.e-monsite.com/pages/environnement-agriculture-durable/bafwesende-cebios-decouvre-des-communautes-pauvres-sur-une-chaise-en-or.html</a> cebios in congo	26-4
In news of Cc Phuong NP <a href="http://cucphuongtourism.com.vn/index.php/vi/tin-tc/259-hi-tho-hp-tac-nghien-cu-a-dang-con-trung-viet-nam-ti-vqg-cuc-phng.html">http://cucphuongtourism.com.vn/index.php/vi/tin-tc/259-hi-tho-hp-tac-nghien-cu-a-dang-con-trung-viet-nam-ti-vqg-cuc-phng.html</a>	28-1-20

### Social media & web site

CEBioS is visible in its new web site <https://cebios.naturalsciences.be/> and active on Facebook, LinkedIn and Youtube.

A summary of our Facebook and web site statistics for 2020 is provided in annex 1.

## 7-SYNERGY AND COMPLEMENTARITY WITH OTHER COOPERATION ACTORS

CEBioS started from the onset its active participation in the joint strategic frameworks per country in 2017 and focused first on Benin, Burundi, RD Congo, Vietnam, Tanzania, Kenya, Uganda, Palestine (assisting to the JSF and strategic dialogues, annual revision of activities per objectives per country, participating in learning trajectories, especially in Benin and Vietnam, cartography of activities). Towards 2020, CEBioS concentrated its efforts to find synergies and complementarities with Belgian ACNGs for its priority countries Benin, Burundi and RD Congo and to a lesser extent, Vietnam, as the process proved to be too work- and time- intensive.

## **RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

In 2019, CEBioS started and was co-founder with WWF, Bos+ and Join For Water to write a new thematic joint strategic framework on 'ecosystem resilience', following a call by DGD to start 3 new thematic JSF, next to the existing FSF on 'decent work'. Along the process, Via Don Bosco and Uni4Coop (consisting of academic NGOs from UCL, ULB and ULiège) joined the process as active members and the thematic JSF evolved to a network on resilience of socio-ecological systems- SECORES, approved by the Minister in 2020 with very positive recommendations and high expectations, given the current climate and biodiversity crises.

Anno 2022, SECORES officially started under the coordinatorship of Johan Slembrouck, delegated by Join For Water and paid by annual contributions by 5 members. CEBioS will start this financing in 2024, since it follows a cycle of 2 years later than the ACNGs who have a cycle 2022-2026. The governance of SECORES has been defined in June 2022, with a steering committee, a general assembly and a chair person (L. Janssens de Bisthoven) for a period of two years. A web site is under construction and working groups are being organised.

Meanwhile, the exercise in the joint strategic framework proved to be successful in many respects:

- High visibility of CEBioS amongst the civil society actors in Belgium
- High demand to mainstream biodiversity in different events across sectors of the development cooperation during the JSF meetings in Belgium and in the South and during the respective Strategic Dialogues.
- Increased budget in the CEBioS 'synergy fund' to keep abreast of the high demands
- CEBioS becomes a well-known and active partner of Enabel (MoU is done), with good prospects in Burundi, Bénin, Guinée and RD Congo.
- Concrete joint co-financed projects with Join For Water in Burundi
- Many coordinated actions in RD Congo with WWF, Join For Water and Bos+ in the framework of the upcoming Kisangani Conference (March 2023)
- Many meetings about trying to capitalize on expertise from GTI in Vietnam to upscale in WWF projects in Cambodia
- Links with BINKO (association of field biologists doing biodiversity inventories in the tropics)
- Talks in Niamey with Vétérinaires sans Frontières
- Prospection with Louvain Cooperation (Uni4coop) on work on mangroves in Benin

### **- Cooperation on mushrooms in RD Congo:**

In order to introduce and popularise mushroom cultivation, CEBioS, in collaboration with VVOB in the DRC, piloted activities on myciculture in technical agricultural schools (TAS).

VVOB in the DRC, piloted activities on mushroom cultivation in agricultural technical schools (ETA). Three ETAs among the pilot ETAs of the ETAGE Programme (2017 - 2021) of VVOB, one per educational province of Central Kongo, were selected, prepared, trained and monitored in mushroom cultivation as a production unit in their schools. For this, CEBioS had to invite experienced experts in myciculture from different backgrounds, identified and trained by different actions of ARES and BELSPO in the East of the country and VLIR-UOS in Kisangani. The costs of the project were mainly covered by CEBioS and supplemented in the field by VVOB in DRC. The trainings took place in August-September 2021. The schools have stayed in touch with

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

the experts via Whatsapp since then in order to have access to quick advice when needed and for encouragement. As of May 2020, with the Whatsapp group still active, it is known that at least one of the schools has taken the initiative to train other schools in the region with their own funds.

## 8-MANAGEMENT OF CEBIOS

### *The staff*

#### **The structure of the staff paid by the CEBioS programme in 2019- beginning of 2020:**

The staff is composed of 9.3 FTE (varies according to 80-100% of individual co-workers). The salaries are ventilated according to the following key:

Coordinator (1): COO  
Scientific Officer (5.5) : SOF  
Financial administrator (1): ACO  
Secretariat (0.8): SEC  
Graphism and communication (1): GRAC

**COO:** 1 FTE for general strategy, management, streamlining of administrative processes, coordination, policy support to DGD and international, communication and visibility, COP, formulation and part of monitoring & evaluation; also involved in the different SO1-2-3-4 for specific activities related to the above.

**SOF 1:** 1 FTE divided equally on SO1 and SO2 for training in habitat monitoring, coaching of students and production of lexica; support to UAC in Benin, OBPE in Burundi and ICCN and universities in DR Congo;

**SOF 2:** 1 FTE for SO1 on the GTI grants programme and the GTI support for scientific capacity building in the South by RBINS researchers, SO2 and 3 for CHM-IT and Public Awareness as well as in SO3 and SO4 for involvement of CEBioS in Educaid, IPBES, OECD Environet, alumni work, and pilot in SBSSTA and COP, facilitation for production and dissemination of AbcTaxa; In April 2020, this SOF quit her job after 11 years at CEBioS for a statutory job. A replacement has been selected and should start in July 2020.

**SOF 3:** 1 FTE divided amongst SO1, SO2, SO3 and SO4 for the MRV work, policy briefs;

**SOF 4:** 1 FTE divided amongst all SO for CHM and awareness work, for policy support, DGD attests, COP, Nagoya Protocol, part of M&E and cooperation in strategic dialogues; support to OBPE in Burundi;

**SOF 5:** 1 FTE in SO1, SO2, SO3 and SO4 for MRV work, policy briefs, support to CSB in DR Congo, part of M&E and cooperation in strategic dialogues and gender aspects;

## **RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

**SOF 6:** 0.5 FTE for marine modelling in Benin (SO1); support to IRHOB in Benin; This SOF quit CEBioS for a statutory job at RBINS. The recruitment of a replacement is under way (June 2020). It will be essentially the same role, together with a component of capacity building for remote sensing in order to strengthen our partners to analyse land and water use/cover.

**ACO:** 1 FTE for general financial accounting of the programme in cooperation with central accountancy of RBINS Under management costs for year 1-3 Divided among SO1, SO2, SO3; SO4 and management costs for year 4-5

**SEC:** 0.8 FTE responsible for general logistics of the CEBioS programme, including administration of mobility of grantees, preparation of letters, DGD attests, buying of small equipment, shipment of equipment, books, AbcTaxa, presence at events with booth and folders. She works closely together and is supported by another FTE from the National CBD Focal Point team at RBINS. Divided under SO1, SO2 and SO3. This SEC quit in January 2020 for a statutory job. We have recruited a replacement with a somewhat higher level under a minus 26 job agreement, who should start in July 2020.

**GRAC:** 1 FTE for the graphical design of reports, plans, folders, posters, policy briefs and communication through social media, web site. Divided under SO1, SO2, SO3 and SO4. The current GRAC is a minus 26 job who replaces the previous person who is on career interruption leave.

Despite the sanitary situation, and the physical absence in our offices, the team kept on working closely together during this locked-down year, due to the good habit of holding weekly online team meetings and an open discussion culture. Tasks can easily be redistributed among colleagues when needed. The team is constantly working towards integration of the different sub-programs in phase II, which is already reflected in the way the phase II program is designed.

In December 2019 we had a team building day at AfricaMuseum.

### ***Monitoring & Evaluation***

CEBioS has designated two SOF and the coordinator to monitor the indicators of the programme and M&E activities.

#### **Monitoring of own processes**

The mid-term evaluation of the previous programme- phase revealed that the internal organisation of documents, processes, missions and meetings within CEBioS could be improved. The audit also revealed that the coherence between the RBINS accounting and the internal registering of expenses by CEBioS gave ground to confusion and errors.

CEBioS staff took those recommendations at heart and implemented several measures to improve the situation and to meet the well justified criteria put forward by the auditors.

## **RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

At this stage, two years into the current programme phase, we can state that substantial progress has been made, allowing everyone to have a much better overview and access to data, making reporting activities for instance less cumbersome than before and streamlining the accounting process and coherence with the accounting of the RBINS itself:

- Our server is now organised according to the budget structure, such that contracts, documentation, budgets etc can be stored and consulted in an orderly way
- Excel tables were set up to monitor the 'run-through' time of contracts in the RBINS' and CEBioS's administration (from signatures to payments, to reporting and closing of the project). This has enabled us, in collaboration with RBINS staff, to identify bottle-necks and find solutions when needed
- An Excel system was set up to record expenses in such a way that comparison with the accounting system of the RBINS is automated.
- Lists of contracts, missions and publications are now kept up to date and are easily accessible on the server
- Monitoring sheets for the programme indicators have been created and are being used.

### **Monitoring of the implementation of the programme**

Weekly staff meetings during which all staff members (irrespective of status or rank) report on their activities of the past week and their projections for the coming week(s) are contributing to the monitoring of the programme implementation. During those meetings the planification and coordination of missions, workshops, meetings, the contacts with the JSF's and other partners are discussed as well as administrative or logistical bottlenecks. This exercise contributes greatly to the programme monitoring (so far that staff is in demand when cancelled or sends bullet points when on mission) which is also being kept track of in data-sheets, listing the indicators.

### **Monitoring of workshops**

- All CEBioS interventions are accompanied by post intervention surveys in order to get enough feedback for improvements and feed the indicator table. After workshops or training sessions a survey was filled out by a majority of the participants, whenever possible in an electronic way, otherwise on printed forms. The results of those surveys are available at CEBioS. Apart from comments on practical issues (hotel rooms, food, internet connection, per diems) the participants indicate in most cases to be very satisfied with the information provided, the format and the quality of the participating experts. In general they mention the workshop has been (very) relevant for their proper work. Most participants indicate to be able to transfer the acquired skills and knowledge and they plan to effectively do so. These surveys, combined by frequent informal contacts help the CEBioS staff to always improve its capacity building modalities and processes.

Example of surveys :

- Benin partners meeting at UAC, November 2021
- Data-base management and GIS in Kisangani, March 2022
  - . Level of satisfaction with the quality of capacity building: average score of 7.6/10



## **RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)**

- . Level of self-reported motivation and ability to apply new knowledge and skills: average score of 8.4/10
- . Level of estimated potential to transfer the acquired skills: average score of 7.9/10

For the **CHM networking workshop/training** the replies to the questionnaire :

- Level of satisfaction with the quality of capacity building : average score of 9.1 /10
- Level of self-reported motivation and ability to apply new knowledge and skills: average score 8.3 /10

### ***Gender***

The involvement of women in CEBioS's activities in the partner countries remains an issue due to the local sociological and cultural conditions. CEBioS staff, at whatever occasion occurs, will point out the number of women, present at an activity, and initiate a short discussion about their under-representation. In our internal juries for competitive calls, we are sensitive to encourage women to apply and to win projects.

## Annex 1: social media & web site statistics

### Facebook

Mois	Mentions J'aime la page	% d'augmentation	
Janvier	180	1,69%	
Février	185	2,78%	
Mars	188	1,62%	
Avril	194	3,19%	
<b>Mai</b>	<b>285</b>	<b>46,91%</b>	
Juin	308	8,07%	
Juillet	319	3,57%	
Août	324	1,57%	
Septembre	331	2,16%	
Octobre	335	1,21%	
Novembre	345	2,99%	
Décembre	353	2,32%	
Mois	Couverture des publications	Vues de pages	Visiteurs
Janvier	359	23	11
Février	2.207	44	28
Mars	1.048	44	21
Avril	1.556	76	45
Mai	2.807	86	64
Juin	1.119	26	17
Juillet	901	19	15
Août	/	21	9
Septembre	2.293	41	19
Octobre	595	11	5
Novembre	2.199	45	23
Décembre	1.842	52	39

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

CEBioS Web site		News Items						
Publications								
Mois	Date	Sujet	Personnes atteintes	Clics	Menti ons J'aime	Commentaires	Parta ges	Réacti ons négativ es
Janvier	14/01/20	Season's greetings from the BEES Market	220	23	14	0	1	0
Février	7/02/20	Recruiting an administrative colleague	113	16	6	0	6	0
	13/02/20	CERUKI conference on mushrooms at the ISP	89	1	7	0	0	0
	14/02/20	<b>Looking for a new Scientific Programme Officer</b>	<b>1.646</b>	<b>175</b>	<b>33</b>	<b>3</b>	<b>23</b>	<b>0</b>
	19/02/20	<b>Video – Summary of the EVAMAB workshop in Ethiopia</b>	<b>198</b>	<b>34</b>	<b>27</b>	<b>2</b>	<b>7</b>	<b>0</b>
	24/02/20	Video – What is the EVAMAB project?	99	10	4	0	4	0
	27/02/20	Video – Why are MABs important?	93	3	8	0	1	0
Mars	2/03/20	<b>Workshop in Entebbe about biodiversity data (MRV)</b>	<b>638</b>	<b>69</b>	<b>21</b>	<b>2</b>	<b>2</b>	<b>1</b>
	3/03/20	Video of Jérôme Constant's mission to Vietnam	20	/	5	0	0	0
	6/03/20	Wilfried Sintondji (Katrijn's trainee) on Etélé	84	3	6	0	0	0
	12/03/20	Han at the OEWG-2 in Rome	100	13	9	0	0	0
	20/03/20	<b>Paper on ES assessment tools in African BRs</b>	<b>234</b>	<b>33</b>	<b>18</b>	<b>1</b>	<b>1</b>	<b>0</b>
Avril	2/04/20	WWF's essay about pandemics and ecosystems	84	8	11	0	2	0
	7/04/20	Final summary of the EVAMAB project	72	3	9	0	1	0
	8/04/20	Safeguarding project of Nature Tropicale ONG	208	9	18	0	1	0
	10/04/20	Paper: farmers' perspectives on PES in Uganda	71	7	10	0	0	0
	15/04/20	Sylvain Gozigan's video on his salinometer	88	8	7	1	1	0
	16/04/20	Wilfried Sintondji's video on Lake Nokoué, Benin	81	5	10	1	1	0
	23/04/20	Venuste Nsengimana for World Health Day	65	2	3	0	0	0
	28/04/20	Our activities related to zoonoses and ecosystems	204	10	12	0	1	0

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Mai	29/04/20	<b>Assessment of Lake Manyara basin, Tanzania</b>	<b>689</b>	<b>33</b>	<b>27</b>	<b>0</b>	<b>3</b>	<b>0</b>
	30/04/20	<b>Article in Journal Karibu about the CSB</b>	<b>235</b>	<b>31</b>	<b>16</b>	<b>0</b>	<b>2</b>	<b>0</b>
	6/05/20	<b>Recruiting a Scientific Officer</b>	<b>776</b>	<b>61</b>	<b>13</b>	<b>0</b>	<b>10</b>	<b>0</b>
	8/05/20	2020 GTI external call for proposals is open	93	17	11	0	4	0
	18/05/20	ACARE's first annual report	239	6	13	0	1	0
Juin	22/05/20	<b>First video for 'Together for Biodiversity' (FR)</b>	<b>395</b>	<b>/</b>	<b>42</b>	<b>1</b>	<b>9</b>	<b>0</b>
	22/05/20	<b>First video for 'Together for Biodiversity' (NL)</b>	<b>238</b>	<b>/</b>	<b>38</b>	<b>0</b>	<b>8</b>	<b>0</b>
	22/06/20	<b>Image for 'Together for Biodiversity'</b>	<b>1.036</b>	<b>36</b>	<b>38</b>	<b>5</b>	<b>6</b>	<b>0</b>
Juillet	1/07/20	Paper: farmers on water hyacinth control	283	19	9	4	1	0
	8/07/20	Report on 'Preventing the Next Pandemic'	210	12	10	0	2	0
	9/07/20	Text by WWF-Belgium, co-signed by CEBioS	81	6	2	0	0	0
	17/07/20	(Post from RBINS) workshop at Lake Manyara	75	14	3	0	0	0
	22/07/20	Repost of the video for 'Together for Biodiversity'	19	/	2	0	0	0
Septembre	7/09/20	Paper on preventing zoonotic pandemics	95	4	8	0	0	0
	10/09/20	<b>New image of 'Together for Biodiversity'</b>	<b>1.145</b>	<b>38</b>	<b>47</b>	<b>4</b>	<b>6</b>	<b>0</b>
	15/09/20	Video of celebrities for 'Together for Biodiversity'	83	/	4	0	5	0
	25/09/20	<b>New lexicon on Ruvubu NP (Burundi)</b>	<b>429</b>	<b>28</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>0</b>
Octobre	12/10/20	<b>New CHM NFP website</b>	<b>423</b>	<b>35</b>	<b>20</b>	<b>4</b>	<b>4</b>	<b>0</b>
	16/10/20	Partage - video from Plan International Vietnam	5	/	1	1	0	0
	28/10/20	Partage - tip from Plan International Vietnam	1	/	3	0	0	0
Novembre	3/11/20	Paper on fisheries management in Uvira	90	0	6	0	0	0
	12/11/20	Partage - "green drive" from Rikolto in Vietnam	74	2	3	0	0	0
	13/11/20	Paper on the bushmeat market in Brussels	433	6	6	0	3	0
	16/11/20	Scholarship offers by the KU Leuven	87	5	4	0	2	0
	17/11/20	Letter to Science about EcoHealth	579	9	12	0	3	0

## RBINS-CEBioS: ANNUAL REPORT 2020 (2<sup>nd</sup> year of PHASE II)

Décembre	22/11/20	Together for Biodiversity reboot	312	4	10	0	4	0
	<b>25/11/20</b>	<b>New PB: fishing in Lake Tanganyika</b>	<b>822</b>	<b>45</b>	<b>38</b>	<b>3</b>	<b>6</b>	<b>0</b>
	2/12/20	Book review of "L'invention du colonialisme vert"	86	12	5	2	0	0
	<b>18/12/20</b>	<b>Season's greetings from CEBioS (EN)</b>	<b>379</b>	<b>35</b>	<b>42</b>	<b>5</b>	<b>3</b>	<b>0</b>
	18/12/20	Meilleurs voeux de CEBioS (FR)	233	28	15	4	1	0
	<b>21/12/20</b>	<b>Interview of Luc in Le Vif/L'Express</b>	<b>580</b>	<b>28</b>	<b>32</b>	<b>2</b>	<b>3</b>	<b>0</b>
	22/12/20	End of year post - Together for Biodiversity	387	5	20	0	5	0
		<b>TOTAL</b>	<b>15.019</b>	<b>951</b>	<b>748</b>	<b>45</b>	<b>145</b>	<b>2</b>

### Définitions des termes utilisés

Mentions J'aime la page	Total des personnes qui "likent" la page (au dernier jour du mois en question).
% d'augmentation	Pourcentage de personnes en plus qui "likent" la page, comparé au mois précédent.
Couverture des publications	Nombre de personnes pour qui des publications de la page se sont affichées sur leur écran. Ce chiffre est une estimation et peut ne pas être précis.
Vues de page	Nombre de fois où la page a été affichée sur l'écran de quelqu'un.
Visiteurs	Nombre de personnes qui ont visité la page.
Personnes atteintes	Nombre de personnes qui ont vu la publication (que ce soit sur la page ou leur fil d'actualités).
Clics	Nombre de fois où quelqu'un a cliqué sur la publication (pour afficher la photo ou un lien, pour afficher plus de texte, peu importe).
Mentions J'aime	Nombre de "likes" (ou réactions) sur la publication, ainsi que sur les partages de celles-ci (dans le cas où certains l'auraient partagée sur leur propre mur).
Commentaires	Nombre de commentaires sur la publication, ainsi que sur les partages de celles-ci (dans le cas où certains l'auraient partagée sur leur propre mur).
Partages	Nombre de fois où la publication a été "republiée" sur le mur ou la page de quelqu'un d'autre.
Réactions négatives	Demandes pour masquer la publication (ou toutes les publications de la page) / "signaler comme indésirable" / "Je n'aime plus la page".

## **Annex 2: annual financial report 2020**

See Excel file in annex 2 for financial report according to DGD-format.