

Annual plan 2023

Operational document for staff and partners



« Etats des lieux de la Biodiversité en RDC », August 2022, Kisangani, RDC, photo@Hilde Keunen

Annual plan for the period 1 January 2023-31 December 2023

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ACRONYMS

ARES	Académie de Recherche et d'Enseignement Supérieur
APN	African Parks
AVIGREF	Associations Villageoises de Gestion des Réserves de Faune
BELSPO	Belgian Science Policy Office
CAMES	Conseil Africain et Malagache pour l'enseignement supérieur.
CBD	Convention on Biological Diversity
CBFP	Congo Basin Forest Partnership
CBNRM	Community based natural ressources management
CEBioS	Capacities for Biodiversity and Sustainable Development
CENAGREF	Centre National de Gestion des Réserves de Faune
CEPA	Communication, Education and Public Awareness
CHM	Clearing House Mechanism
CHM-IAC	CHM Informative Advisory Committee
CHM- IT	Clearing House Mechanism Information Tools
CIFOR	Center for International Forestry Research
CITES	Convention on International Trade in Endangered Species of wild fauna and flora
COHERENS	Coupled Hydrodynamic Ecological Model for Regional Shelf Seas
COMIFAC	Commission des Forêts d'Afrique Centrale
COP	Conference of the Parties
CSB	Centre de Surveillance de la Biodiversité
D4D	Digital for Development
DDD	Direction de Développement Durable
DGD	Directorate-general for Development Cooperation and Humanitarian Aid
ENABEL	Belgian Development Agency
ES	Ecosystem service
FAQ	Frequently Asked Questions
GTI	Global Taxonomy Initiative
IA	Institutional Actor
ICCN	Institut Congolais pour la Conservation de la Nature, Kinshasa, D.R. Congo
ICT	Information and Computer Technology
IDCP	Indicative Development Cooperation Plan
IEBR	Institute of Ecology and Biological Resources, Hanoi, Vietnam
INRB	Institut National de Recherche Biomédical
IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
IRD	L'Institut de recherche pour le développement
IRHOB	L'Institut de Recherches Halieutiques et Océanologiques du Bénin
ITM	Institute for Tropical Medicine Antwerp
KLIMOS	Interdisciplinary and interuniversity research platform generating capacity for the sustainability transition
MEDD	Ministère de l'Environnement Développement Durable
MEPN	Ministère de l'Environnement et de la Protection de la Nature
MRV	Measurement, Reporting and Verification
MTE	Mid-term evaluation
NGO	Non-Governmental Organisation

NP	National Park
NBSAP	National Biodiversity Strategy and Action Plan
OBPE	Office Burundais pour la Protection de l'Environnement
OECD	Organisation for Economic Co-operation and Development
OECD-DAC	OECD Development Assistance Committee
PSU	Publication Service Unit RBINS
RBINS	Royal Belgian Institute of Natural Sciences
AfricaMuseum	Royal Museum for Central Africa
SBI	Subsidiary Body for Implementation
SBSTTA	Subsidiary Body on Scientific, Technical and Technological Advice
SDG	Sustainable Development Goals
SO	Specific Objective
UAC	Université d'Abomey- Calavi , Benin
UA	Universiteit van Antwerpen, Belgium
UB	Université du Burundi
UNIGOM	Université de Goma
ULB	Université Libre de Bruxelles, Belgium
UNIKIN	Université de Kinshasa, DR Congo
UNIKIS	Université de Kisangani, DR Congo
UNILU	Université de Lubumbashi, DR Congo
UOB	Université Officielle de Bukavu, DR Congo
UN	United Nations
UNEP	The United Nations Environment Programme
UNESCO	The United Nations Educational, Scientific and Cultural Organization
UNESCO-MAB	The UNESCO Man and Biosphere Programme
VLIR-UOS	Flemish Interuniversity Council, Cooperation for development, Belgium
VNMN	Vietnam National Museum Of Nature
WCMC	The UN Environment Programme World Conservation Monitoring Centre
WWF	World Wildlife Fund

IDENTITY SHEETS

General data

ID	Name	Acronyme	Country	Address	Tel.	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)2627 45 87	ljanssens@naturalsciences.be	http://www.biodiv.be/cebios/	Federal scientific institution	Research and outreach in natural sciences	
Manager	Luc Janssens de Bisthoven		Belgium	CEBioS, RBINS	+32(0)2627 45 87	ljanssens@naturalsciences.be				
Contact person	Luc Janssens de Bisthoven									
Local partners	Université Abomey-Calavi	UAC	Benin	B.P.526 Abomey-Calavi		mhouinat@yahoo.fr		Public university	Academic	
	Office Burundais pour la Protection de l'Environnement	OBPE	Burundi	BP 56 Gitega		hatungimanaberchmans@yahoo.fr	https://bi.cbd.net/	Agency of the Ministry	Management 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	Avenue des Cliniques; Commune de la Gombe B.P. 888 Kinshasa 1			dg@iccn.cd	State agency	Management National Parks	

	Institut de Recherches Halieutiques et Océanologiques au Bénin	IRHOB	Bénin					Research Institute	Protection coastal systems	
	Ministries of Environment of Benin, Burundi, DR Congo, Guinea, Togo, Niger, Morocco, Palestinian Territories, Uganda, Tanzania and their agencies		Various countries in Sahel, Palestina, Magreb and East Arfica					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, Belgian NGO’s
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

RBINS-CEBioS: ANNUAL PLAN 2023 (5th year of PHASE II)

INTRODUCTION

This annual plan for 2023 concerns the 5th and last 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 steering committee of the CEBioS programme recommended to submit the annual plan 2023 during the first half of 2023, because of a substantial delay of activities and expenditures in 2019 and 2020. This was due to a combination of delayed political approval in 2019 and the outbreak of the Covid pandemic in 2020, which led to the postponing of many activities (see timeline, annex 7). The expenditure period of 2020 has been prolonged until May 2022 for the same reasons.

The ALOSEPI evaluation bureau has been chosen to evaluate CEBioS (10 year strategy and 2018-2023) and AfricaMuseum in 2023. Part of the evaluation will be a mission to RDC and Burundi. Other activities involve interviews of CEBioS, DGD, Belspo, alumni and other stakeholders and an online survey. The evaluation will serve as a base for recommendations to formulate the next phase (2024-2028) and strategy (2024-2033).

Annexes:

The Intervention logic, mission, objectives, expected results and a schematic overview of the Theory of Change for this second phase of the programme can be consulted in annex 1 at the end of this document.

The annexes 2-6 come as separate files. Annex 2 provides the complete log frame for CEBioS. Annex 3 presents the budget table for the period 2021-2023. Annex 4 to 6 provide the log frames and operational plans of our institutional partners, respectively 'Université Abomey-Calavi' (UAC, Benin), 'Office Burundais pour la Protection de l'Environnement' (OBPE, Burundi) and 'Centre de Surveillance de la Biodiversité' (CSB, DR Congo). The operational plan for the 'Institut de Recherches Halieutique et Océanologique du Benin' (IRHOB, Benin) is provided in the text of this annual plan 2023. Annex 7 provides the timeline of the programme, adapted to external factors provoking some delays.

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1- OPERATIONAL PLAN 2023 (AT LEVEL OF RESULTS & ACTIVITIES) AND CORRESPONDING BUDGETS

The annual plan of 2023 follows the five-year **log frame (Annex 2)** and is presented at the level of the **Results** and the **Activities** in Table 1. The four Results (capacities/ CHM/ MRV/ awareness) are transversal and ventilate across the four Specific Objectives (SO which are defined in function of the targeted public: scientists/ implementing authorities/ policy makers/ development actors) (see log frame).

The right column in Table 1 gives- at the activity level- an indication about the corresponding 2023 budgets, as indicated in the **budget table (Annex 3)**, with the corresponding budget reference numbers.

Table 1: annual planning **2023** and related budgets

Results	Ind. Nr.	Indicator	Baseline	Target Year 2023	Details of annual planning at the level of Results & Activities	Budget € (only at level of activities, indicative)	Budget Ref. Nr. Rx.y-z x= SO (1-4) y= Result (1-4- z= ref nr. in budget
Result 1 -The capacities of scientists, (implementing) authorities, decision makers and policymakers are strengthened to enable them to contribute to the sustainable use and conservation of biodiversity	20	Number of persons of which the capacities have been strengthened (per CB type) (for all results)			(numbers indicated may be higher than target numbers of log frame)		
		Men	80-90%	60	CHM: 20 GTI: 7 male trainees are expected to come to Belgium (in framework of 2023 call) GTI: 10 through capacity development projects of RBINS/Meise researchers MRV: 0 OBPE institutional: 5 CSB institutional: 10 IRHOB: 2 Pilot projects on statistics : 10 Awareness: 20 training policy briefs , regional CHM training include a day on awareness		
		Women	10-20%	20	CHM: 8 GTI: 2 female trainees are expected to come to Belgium (2023 call) GTI: 3 through capacity development projects of RBINS/Meise researchers MRV: 0 CSB institutional MRV: 4,		

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					Pilot projects on statistics: 2 OBPE institutional: 2 Awareness: 13 training policy briefs , regional CHM training include a day on awareness		
		Total	40/year	80	CHM: 48 GTI: 9 GTI: 13 through capacity development projects of RBINS/Meise researchers MRV: 0 CSB institutional: 15 Pilot projects habitat monitoring, data bases, SIG, statistics (remote sensing): 10 OBPE institutional: 3 IRHOB: 2 Awareness : 53		
		Benin	5	5	Habitat monitoring : 2 PhD Marine modelling : 2 students at IRHOB & UAC +GTI: UAC (2), Parakou (2)		
		Burundi	10	15	OBPE institutional: 5 Other: 8 Habitat monitoring : 1 student + GTI: OBPE (1)		
		DR Congo	10	20	CSB institutional: 15 Pilot projects statistics: 5 Habitat monitoring : 3 students		
21	Number of trainings (per CB type) (for all results)		5/year	10	CHM: 6 GTI: 2 MRV:0 Pilot projects on statistics 2 Awareness:4 (one in French, three in English) Nagoya Protocol training North : 1		
22	Level of satisfaction with the quality of capacity building (per CB type) (for all results)			7	After each training, the trainees will be asked to fill in a form with some questions related to the quality of the capacity building and a scoring system. The combined replies to question 20 in annex (survey) will provide the average quotation for this indicator.		
23	Level of self-reported motivation and ability to apply new knowledge and skills (per CB type) (for all results)			7	After each training, the trainees will be asked to fill in a form with some questions related to the self-assessment of increased or acquired capacity and a scoring system. The combined replies to questions 18 and 19 in annex (survey) will provide the average quotation for this indicator.		
24	Number of AbcTaxa publications produced with support of the programme		4 for 4 years	1	3 AbcTaxa volumes are in the pipeline on the reptiles of Cuba, the sponges of Peru and the edible mushrooms of West Africa		

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	25	Number of presentations or posters presented by South researchers (participation supported by CEBioS) at scientific congresses related to biodiversity and development	1-5/year	3	Within the institutional collaborations, GTI, MRV and other activities, South researchers will present posters and hold presentations, according to the opportunities offered and within reach of budget		
	26	Number of datasets on biodiversity established by National Parks and other important biodiversity hotspots as a result of capacity development CEBioS	1-2	2	CSB institutional: 1, consisting of several sub-sets for the biodiversity rich areas studied in 2019-2020-2021-2022 OBPE : 1 or several data sets monitoring habitats of national parks)		
	27	Number of agenda items led by CEBioS staff for Belgium in OECD, IPBES, SBSTTA, COP, expert meetings of CBD, EU and other organisations	5-10 in 5 years	3	2023-24, being a SBI and SBSTTA year CEBioS will be pilot or co-pilot for Belgium and the EU on a number of policy items, such as eg, capacity building, technical and scientific cooperation, communication and public awareness in support of the Belgian delegation. Due to Belgian presidency of the EU we will have to put more attention to this. CEBioS will attend SBI-4-5 and SBSTTA 25-26		
	28	Number of partner country staff supported by CEBioS activities, attending international policy conferences	2-3/ 2 year	3	CEBioS will support 0 civil servants from partner institutions to attend as no money foreseen in the budget. If we see that there are relics from other budget posts from the same SO we might use the funds for this.		
Activities							
1. Coaching of students in terrestrial/freshwater biology and ecosystem services directly by CEBIOS staff to apply for grants, write abstracts for conferences, write papers		Following specific demands by partners, parts of GTI, marine modelling and institutional cooperation with RDC, Benin and Burundi. See also operational plans of institutional partners in annexes 4, 5 and 6.			13000 (RDC) 3000 (pilots) and others	R1.1-3 (RDC students) R1.1-6	
2. Coaching of students directly by CEBIOS staff for marine modelling (SDG 14.2 & A) to apply for grants, write abstracts for conferences, write papers		Coherens capacity building Students do field trips. See also operational plan of IRHOB in text.			3000 (oper.) 5000 (mission) & 3000 (oper.)	R1.1 -4	
1. GTI call and coaching of students by RBINS and external scientists through "N-S" calls		2 projects selected under 2023 call, possibly more if budget relicts available			17000	R1.1 -2	
2. Coaching of students through GTI call and earmarked budgets through "S-N" calls		-11 grantees will be selected through our annual call			45000	R1.1 -1+ part of inst. cooperation: R1.1 -7 R1.1 -9	

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3. Organising, co-organising by CEBioS (direct or indirect) or participating in larger events (symposia , summer schools, uptake meetings)	- Second International Conference on Biodiversity of the Congo Basin	Separate budget	N/A staff time or in kind contribution of staff time R2.2.-24
4. -Attending juries by CEBioS staff	Participation in the GBIF-jury and others on demand.	3000	R3.2-28
5. 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)	If any other suitable opportunity arises and budget allows, CEBioS staff will present its work at conferences, symposia etc., still on unspent lines of budget 2022. Will be spent on the Kisangani conference in March 2023.	1000	R4.4-34
6. Supporting South scientists to attend international scientific congresses	According to the opportunities offered and if budgets allow (for instance if an activity in an institutional collaboration cannot take place, its budget could be attributed to the participation in a conference) At least one South scientist will be supported for participation in an international scientific congress. (any opportunity will be taken from awareness budget)	0	R3.1--26
7. Supporting South partners to organise (inter)national scientific congresses	-Working with the CSB team to prepare for the second International Conference on Biodiversity of the Congo Basin -Working with the National Congolese Ministry for the Environment and Sustainable development and with the CSB to prepare for the organisation of the workshop(s) needed to prepare for the updating of the 'Etat des Lieux de la Biodiversité en RD Congo' before, during and after the conference in Kisangani	A dedicated DGD budget is allocated for both activities, except for the activities after the conference which will be covered in the Institutional collaboration with the CSB.	
8. Disseminate AbcTaxa to South partners or North partners (sales) by the secretariat of CEBioS	New dissemination strategy : we will no longer send all volumes to all National Focal Points. We prefer to send the volumes to interested partners in several eligible countries. We have investigated if the volumes are being used, by whom, and for what purpose, therefore we asked them to answer our online survey (available in FR and ENG), however with very little response. There is VIP list of important institutes to which the volumes are sent. The secretariat keeps the updated list so she knows to which institutes we have sent / will send the volumes.	12000	R1.1-5
9. Organize closing MRV workshops explaining policy brief, eventually back to back with other events	No MRV workshop in 2023.	0	R1.3-12
		0	R2.3-22

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10. Organise awareness methodology and communication workshops for CEBioS-alumni	-Training to GTI-Alumni during their stay in Belgium -Training of CHM managers during the networking meeting	Part of 45000 (GTI) 25000 (networking CHM);	R1.1-1 and R2.2-20,
11. Implement South trainings in habitat monitoring	- One regional training on monitoring of habitats dynamics in Benin and in Burundi (20 persons) - Special attention will go to the use of the collected data in appropriate data bases and their publication at GBIF, CHM and other relevant websites.	3500 (mission Ben.), 17000(op.Benin) 3500 (mission Bur.), 13900 (op. BUR) No budg. for RDC	R2.1-14: (Benin) R2.1-15: Burundi
12. Identify, formulate and implement research projects related to value chains of ecosystem services	2 subjects in DRC, 1 in Burundi, 2 in Benin See also operational plans of institutional partners in annexes 4, 5 and 6.	Part of : 37000 (OBPE) 7000 (UAC) and missions (resp. 3000, 1000,)	R1.1 -7 R1.1 -8 R1.1 -9

13. Collect data on transects in protected areas	Burundi (Reserve transfrontalière de la Ruzizi+ Ruvubu+Kibira) ; Benin (PN Pendjari+W ; Starting data collection data collection for 1 lexicon on the Mono cross-border biosphere reserve)	13500 (Ben.) 13900 (Bur.) no budg. (RDC)	R2.1-14 R2.1-15 R2.1-16
14. Co-produce lexica with local partners	A lexicon on the 'Biosphere Reserves of Pendjari and W " (Benin) will be published	5000	R2.1-17
15. Attend international policy meetings for OECD, IPBES	None planned in 2023, but revision of summary of assessment of IPBES is done	N/A	
16. Attend SBSTTA and COP of CBD	participation by at least one CEBioS staff member	5000	R3.1-25
17. Support and promote South attendance to SBSSTA, COP etc.	none	0	R3.1-26
18. Organise NP trainings in North	At least 1 trainings sessions will be organised in collaboration with the national focal point for the Nagoya Protocol, IRSNB and Synthesis II project.	No budget	

Results	Ind. Nr.	Indicator	Baseline	Target Year 2023	Details of annual planning at the level of Results & Activities	Budget € (only at level of activities, indicative)	Budget Ref. Nr. Rx.y-z x= SO (1-4) y= Result (1-4- z= ref nr. in budget
Result 2 : CHM and other IT tools in service of national research, monitoring and management are functional	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	40-50	50	A call for digitisation of gray literature will be launched for the partner countries. The digitised content should be posted on the national CHM. Students will do scanning work of archives at the RBINS.		

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and used by scientists, authorities, their partners, and target) publics -	30	Number of CHM technical and IAC meetings participation attended by CEBioS staff	2/year	2	Potential participation in IAG-TSC, ABS-CH IAC, CEPA-IAC and Capacity building for the Nagoya Protocol IAC. Depending on the nomination by the secretariat.		
	31	Number of people enabled to train contributors to the CHM in partner countries					
		Men	8	8	The CHM networking events will be organised for Francophone and anglophone countries.		
		Women	2	2	The CHM networking events will be organised for Francophone and anglophone countries		
		Total	10	10	The CHM networking event will be organised for Francophone and anglophone countries		
	32	Number of national trainings organised by CHM trainees	2-4	4	CHM national training will be given in 2 countries, timing to be decided on their momentum in adapting the Bioland tool. Burundi, Guinea, Comoros, Ghana have requested national training.		
33	Number of persons reached in national trainings organised by trainees	40-60	50	During each national training (see indicator 32) we can expect to reach 12-15 people. OBPE also organises national trainings in their global allocation			
34	Number of visitors to CHM web sites	250.000	330000	Following the national training sessions, more visitors can be expected on the national CHMs. Google analytics will be used to check this, however in the Bioland tool the first year there is less traffic expected			
Activities							
19. Organising national content management workshops for scientists		During national CHM trainings partner countries will be asked to also include scientists from Universities and research institutes in the training workshops			10000	R2.2-18	
20. Encouraging scientific posts on the CHM		Posting of projects, project reports is encouraged in GTI, awareness and MRV projects. Parts of the work delivered in institutional collaborations will be posted to the CHM as well (rough data-sets, field reports...)/ CHM call			0	R2.2-19b	
21. Doing scanning sessions of archives at RBINS and in the countries		-3 job students will be hired on overhead at RBINS (approval by RBINS pending) -Digitalisation of grey literature will be organised.			35000 (CHM call)	R3.2-27	
22. Organisation of networking and training events for national CHM		2 national training workshops will be organised, including one by OBPE 2 networking meeting about CHM			0	R1.2-10	
23. Participation in meetings for development of IT tools in the framework of CBD and EU		. Through the EU-project 'CO-OP4CBD' project participation in the Bioland development discussions			10000 (CHM worksh.missions)/ 15000 (worksh. CHM) 25000 (netw. CHM) 5000 (netw. CHM missions)	R2.2-18 R2.2-19 R2.2-20	
24. Involvement in development or application of mainstreaming tools		Global Center for Knowledge support services for biodiversity will be developed with CEBioS in the Steering Committee			0	R2.2-19	
25. Attend CHM technical and IAC meetings		Participation in IAG-TSC, ABS-CH IAC, CEPA-IAC and Capacity building for the Nagoya Protocol IAC			5000	R3.1-25 see above, act. 26	

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26. Attend CHM-related activities such as contests, prizes	Participation in Award jury to be decided on demand	3000	R3.2-28:see above, ind. 30
27. Organise CHM trainings in partner countries	See activity 25		
28. Stimulate partners to participate in CHM related activities	none	0	R3.1-26: see act. 28

Results	Ind. Nr.	Indicator	Baseline	Target Year 2023	Details of annual planning at the level of Results & Activities	Budget € (only at level of activities, indicative)	Budget Ref. Nr. Rx.y-z x= SO (1-4) y= Result (1-4- z= ref nr. in budget
Result 3 – Scientists, in collaboration with implementing authorities are able to valorise and communicate about their research related to monitoring and managing ecosystems and services, among authorities and decision makers	35	Number of tools (Policy Briefs, lexica , etc) published that facilitate the application of scientific knowledge to ensure the monitoring of habitats and of ecosystem health		3	Through MRV & awareness projects (posters, manuals, videos)		
			1/1.5 year	0	Lexica: on Rusizi (Burundi + RDC) and Virunga (DRC) are being prepared.		
			12 in 4 years	4	Policy Briefs: MRV Policy Briefs: some MRV awareness projects targeting decision makers will produce policy briefs (at least 2)		
	36	Number of CEBioS trainees that become involved in the production of lexica and policy briefs with the support of CEBioS	estimated 10-20 per product	30	Lexicon on the “Pendjari and W biospheres Réserves ” will be ready for publication in 2023		
	37	Number of projects on MRV awareness raising completed		12	A call for MRV awareness projects was launched after the awareness training in Bujumbura in October 2022. 12 projects will be selected		
Activities							
29. Create flyers, posters, video's, by and with alumni or partners					MRV : creation during awareness projects 2022-2023 CSB institutional: 2 OBPE institutional activities on MRV :1	6000	R2.4-23
30. Organise local meetings with specific target groups					-MRV : MRV projects were implemented in 2019-2021. The consequent awareness projects have been initiated under budget 2022 and may contain this type of meetings -OBPE institutional activities on MRV :1	6000	R2.3-21

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31. Assure the targeted dissemination of the tools produced					A survey has established the target groups and all outputs are inventoried. Finetuning an inventory management system for CEBioS publications like <i>Abctaxa</i> , lexicons, highlights and policy briefs. For <i>Abc taxa</i> : see strategy of dissemination. Distribution of other publications is at the request of colleagues. Policy briefs and lexica are disseminated during the staff missions. <i>AbcTaxa</i> is disseminated on demand. New web site CEBioS, GTI and <i>abcTaxa</i> & Newsletter		
32. Publish activity reports to CHM					For every sub-program (GTI, MRV, awareness, institutional collaborations) and other activities, local promoters are required to publish their activity reports on the local CHM.	No budget, unless part of a CHM call project 35000	R3.2-27
33. Organise MRV formulation and training workshops Fr and Engl					None in 2023		
34. Organise MRV calls Fr and Engl					None in 2023	0	R1.3-11
35. Implement and follow up on MRV projects					-Follow-up of the MRV work of the CSB and OBPE will be assured during the follow-up missions for the institutional collaboration.	No budget	
36. Organise MRV closing workshops Fr and Engl, back to back with awareness methodology workshops					none	0 0	R1.3-12 R2.3.-22
37. Organise MRV awareness calls Fr and Engl					Awareness calls for both language groups have been organised after the closing workshops and awareness training in Bujumbura ,October 2022.	6000	R2.3-21
38. Implement and follow up on awareness projects					MRV awareness projects in 2022-2023	6000	R2.3-21
39. Create policy briefs with and by CEBioS-alumni					MRV: some MRV awareness projects targeting decision makers may produce policy briefs (at least 2)	N/A	
Results	Ind. Nr.	Indicator	Baseline	Target Year 2023	Details of annual planning at the level of Results & Activities	Budget € (only at level of activities, indicative)	Budget Ref. Nr. Rx.y-z x= SO (1-4) y= Result (1-4- z= ref nr. in budget
Result 4 - The awareness about governance, monitoring, sustainable	38	Number of awareness raising meetings with different target groups, organised by CEBioS partners	ca 3-5/year	5	-Within the awareness raising projects that are estimated 5 - 12 this year one can expect to have at least one meeting per project. -MRV and GTI : some of the projects are organising such meetings as part of the awareness projects 2022-2023. (25 in log frame =mistake)		

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use and management of biodiversity is raised	39	Number of vulgarizing documents effectively published (videos; posters; flyers; or articles in popular media) by partners, eventually with support of CEBioS	5	7	Given the capacity building activities within the institutional collaborations, the subprogrammes GTI, CHM, awareness and MRV, we expect some outreach material to be produced by the partners. Quantity depends on the contents of the projects proposed during the calls and on their own initiative in the case of the institutional collaborations. (27 in log frame, =mistake)		
	40	Number of projects on awareness raising carried out (except MRV, see ind. 37)	2-5/year	2	One call for awareness raising CHM projects will be launched. Depending on the quality and the funding requested by the partners 4-8 projects can be accepted. (11 in log frame, =mistake)		
Activities							
40. Attend/organise national or regional deciders meetings					At EU level, VLIR-UOS events (e.g., "community talks"), WPIEIs, Steering Group Biodiversity Be, Agriculture group DGD, Coalition against Hunger ...		
41. Attend/organise side events and CEPA sessions at COPs and other national and international meetings;					none	0	See activity 28, 29 and 31 R3.4-30
42. Promote biodiversity and development with private sector in the South					- various initiatives with CSB in RDC - SECORES workshop tbc Pascale-B project in Burundi on water catchment and biodiversity with Louvain cooperation and JFW	25000 (op) + 3000 (missions)	R4.1-33
43. Promote biodiversity and related tools in strategic dialogue and learning trajectories					By acting as observers in the JSF's for RDC, Benin and Burundi, and the implications in SECORES	5000	R4.1-32
44. Organise training on awareness					none	See also budget synergy fund 25000+ 3000	R4.1-33
45. Calls to raise awareness of target groups					A call for awareness raising projects will be organised as each year	20000 5000	R3.4-29 R3.4-31
46. Calls and surveys to measure change in perception of target groups.					This activity is planned in 2023.		
47. Organise GTI awareness calls Fr and Engl					none		

Communication strategy : *CEBioS staff, accompanied by its communication officer, building on their experience, is developing/implementing a communication strategy aimed at affirming CEBioS' identity as a key facilitator of capacity building for biodiversity in the South. The numerous activities are also made more visible and this improved perception allows CEBioS to reach its target audiences more effectively.*

2. DESCRIPTION OF ANNUAL PLAN 2023 PER COUNTRY

Benin

- **Planning for the institutional cooperation with IRHOB on marine modeling**

The institutional cooperation with the 'Institut de Recherches Halieutique et de l'Océanologique du Benin' (IRHOB) is mainly based on capacity development in marine modelling for the staff. This is done with COHERENS, an open software developed at RBINS, relating water currents with biodiversity related dynamical processes such as erosion and migration of fish and shrimp larvae in the Lake Nokoe channel in Cotonou. CEBioS is in the process of hiring an agent for implementing Coherens. Meanwhile, the group 'Ecomod' of RBINS-OD Nature is taking care of the scientific coaching. An restitution and identification mission is planned for summer 2023 to discuss the future of the cooperation for the next phase and to reconstitute the current results to the stakeholders of Lake Nokoe.

Table 2: annual plan IRHOB, 2023

Activity/ Sub-activity	2023			
	Q1	Q2	Q3	Q4
Base de données disponible				
Spécifier les données nécessaires au projet	X			
Collecte des données existantes				
Collecte de nouvelles données nécessaires au projet				
Modèle couplé hydrodynamique-particules du système lac Nokoué-océan				
Implémentation du modèle COHERENS au système lac Nokoué-océan (personne A)	X			
Implémentation du module de particules et adaptation aux crevettes (personne B)	X	X		
Développer un plan de recherche pour l'application du modèle COHERENS hydrodynamique-particules				
Modèle du cycle de vie des crevettes d'intérêt commercial au Bénin développé				
Développement et implémentation du modèle de cycle de vie des crevettes (personne C)				
Développer un plan de recherche pour le développement du modèle de cycle de vie des crevettes				
Sélectionner personne C sur base d'un stage de maîtrise (incluant une formation)				
Des spécialistes formés sur le modèle COHERENS sont disponibles				
Formation des spécialistes à l'utilisation de COHERENS				
Transférer les compétences pour former de nouveaux spécialistes	X	X	X	X
Etat des connaissances sur les différentes espèces de crevettes d'intérêt commercial au Bénin				
Collecte de données sur l'habitat des crevettes (zones de ponte, cycle de vie)				
Les acteurs (communes, pêcheurs, communautés locales, ...) sont informés des résultats du projet				
Restitution des résultats auprès des acteurs (communes, pêcheurs, communautés locales, ...)	X	X	X	X
Organiser des campagnes de sensibilisation auprès des acteurs (communes, pêcheurs, communautés locales, ...)	X	X	X	X
Réalisation des outils de communication (posters, dépliants, plaquettes, ...)	X			
Organiser des émissions radiophoniques et de télévision				X
Publish in open source scientific journals, conferences, present results to peers. Attend meetings or external trainings	X	X	X	X

Summary of Budget for IRHOB, Benin (Euros):

Total Investments	0
Total Operations	15,000
Total missions	5,000

- **Planning of the institutional cooperation with Université Abomey-Calavi (UAC)**

For the log frame, see Annex 4

The cooperation with the 'Laboratoire d'Ecologie Appliquée' (LEA, UAC) continues with focus on the Pendjari National Parc and the Parc National du W (transborder park with Niger and Burkina Faso). UAC is also linked to the 'Université de Parakou', with work on regional mushrooms. Fire management, habitat monitoring and the 'transhumance' of protected areas are the main themes of this cooperation.

An update of the existing Lexicon of the Pendjari+ W is to be published. Moreover, the UAC wishes to start data collection on habitats dynamics and Ecosystem services in the Mono cross-border biosphere reserve (South Benin). One regional workshop on the management of vegetation fires will be organized. An identification mission is planned for summer 2023 to discuss the future of the cooperation for the next phase.

Summary of Budget for UAC, Benin (Euros):

Total operational costs per transversal theme / year	42000
Total Investments	0
Total Operations	37500
Total missions	4,500

- **Looking for synergies & complementarities in Benin and Guinée**

CEBioS as such, and as part of the Joint Strategic Framework SECORES is looking for synergies in Benin with :

- Uni4Coop (also member of SECORES) on mangroves (local meeting done in 2021)
- Joint For Water (also in SECORES) on integrated water management (online meetings and local meeting)
- Enabel: possibilities to apply Coherens in the Port Autonome de Cotonou (local meeting done in 2021)

It is also interesting to mention possible cooperation on Mount Gangan (eco-tourism) in Guinée with Enabel (online meetings and visit by the CEO of Enabel at RBINS in 2022). CEBioS taken up as possible partner. Latest update: project aborted due to unrealistic timeline.

Burundi

- The ‘Office Burundais pour la Protection de l’Environnement’, OBPE

For the log frame, see Annex 6

The cooperation between CEBioS and the OBPE will continue with special attention to the preparation of the Lexicon on the Rusizi National Park, the sensibilisation of actors, including the agricultural sector linked to Belgian ACNGs to the thematic of biodiversity and the research on value chains linked to e.g. bamboo, rotan, pollination, mushrooms, black soldier fly, as well as reforestation efforts around water wells in cooperation with Arboretum Rusizi and Join For water.

Support for external funding to Lake Tanganyika integrated management (continuation of LATAWAMA project of Enabel) will be sought as well and advice is available to the Belgian embassy for EU and Enabel/UNDP project ‘PACECOR’ for issues relating water management and biodiversity especially related with the EU/Belgian project for the NPs Rusizi and Kibira and the Belgian funding for BIOFIN.

CEBioS is associated partner with the EU Horizon project “PASCALE-B”, which is led by Louvain Coopération and aims at strengthening Burundese civil society in its action on natural resources, sanitation and biodiversity. One mission in this external project is budgeted for CEBioS.

As co-lead of the SECORES working group on ‘Measuring resilience’ (see 8-External projects), CEBioS will set-up a collaboration with OBPE and University of Burundi to supervise a tandem of two students (one from Belgium and one from Burundi) for their master theses on assessment methods for measuring social-ecological resilience.

Furthermore, CEBioS explores possibilities with Enabel and Embassy to assign infrastructure funding in the UNDP or EU projects to the rehabilitation of the termite-ravaged roof of the Bujumbura research unit antenna of OBPE, harbouring the important patrimonium of national taxonomical collections. Ideally it could be expanded with additional collection space and the installation of a mini-museum.

The ALOSEPI evaluation bureau has been chosen to evaluate CEBioS (10 year strategy and 2018-2023) and AfricaMuseum in 2023. Part of the evaluation will be a mission to Burundi in April-May 2023.

Summary of budget for OBPE, Burundi (Euros):

Total operational costs per transversal theme / year	58000
Total Investments	0
Total Operations	51500
Total missions	6,500

RD Congo

The ALOSEPI evaluation bureau has been chosen to evaluate CEBioS (10 year strategy and 2018-2023) and AfricaMuseum in 2023. Part of the evaluation will be a mission to RDC (Lubumbashi, Kinshasa and Kisangani) in May 2023.

- **The ‘Centre de Surveillance de la Biodiversité’, CSB**

For the log frame, see Annex 5

<https://centresurveillancebiodiversite.org/>

Major points of attention in 2023

- As already announced in 2022, the CSB will in 2023 work on its restructuring, in an effort to improve its governance structure. The required changes, which should have become effective in April 2023, are delayed for reasons out of control of the centre. In this framework, the CSB will continue, amongst others, to prepare for a ‘Conseil d’administration’ to be held in the near future. The required documents and reports are being prepared. A renewed directors’ committee will be put in place and a reorganisation of the centre’s financial services is planned.
- Planning efforts will have to be increased since the organisation of the 2nd International Conference on Biodiversity of the Congo Basin’ March 6-10, 2023 has been a unique opportunity to network and discuss activities and collaborations with new potential partners (Sweden, GIZ-Lomami, herpetology network, Senckenberg Institute, CYBN,...)
- The strengthening of the cooperation with the General Secretariat of the MEDD and its administrations (DDD and ICCN) remains a key point in the collaboration with CEBioS. During the preparation of the ‘Etat des lieux de la biodiversité en RD Congo’ (summer 2022 and validation March 2023), in which the CSB has played a central role, it became clear that fellow-researchers, provincial administrations, the MEDD and other stakeholders expect the CSB serve as their interface for the compilation of the next National Report and the SPANB. The CSB will also continue to act as a focal point for the exportation of scientific material in the framework of the Nagoya Protocol and for CITES.
- The CSB will continue to play its role as secondary CHM for the DRC, implying, amongst others, the regular posting of scanned recent grey literature present at the Faculty of Science of UNIKIS, as well as field reports and academic work of the Faculty of Science/CSB to the CHM-website.
- It will also continue to act as a focal point for the dissemination of other useful information (calls for proposals, grant opportunities, interesting publications etc.) into its extended network of biologists-, administrations and NGO’s in other regions, institutions, universities of the country.
- In the past years, the CSB has successfully hosted several training workshops for Congolese and other partners. It will continue to do so to strengthen its vocation as a Centre of Excellence for Biodiversity in the region.

- During the last 4 years, the CSB has been collecting socio-ecological and biological data in four different non-protected areas, to set up the baseline for monitoring activities in the future (an institutional MRV activity). The consolidation of those data will take place in 2023. This should be possible, now that some of the difficulties to do so (knowledge on data-base set-up and management, cartography, and statistical knowledge) have been or will be dealt with.
- Several missions are planned in 2023 with Hilde Keunen and Thomas Wouters to:
 - Introduce Thomas to the tasks of Hilde, going into retirement at the end of 2023
 - Discuss about the new plan 23 and plan 24-28
 - Implement plan 2023.

Collaboration- projects

During the last couple of years, the CSB has been much more solicited for partnerships in projects or collaborations. Those for which CEBioS assures facilitation or provides advice, are mentioned below. There are many others, as for instance the expertise the CSB is offering to the PN Maiko to develop a Strategic Plan, conducting inventories in the PN Lomami and so on.

- CSB is a partner in the UNESCO-Yangambi project (UNESCO, UGent, financed by DGD) which aims at restoring the governance structure of the Yangambi Biosphere Reserve and creating a climate-biodiversity centre of excellence in the BR by combining the expertise of the Flux-tower team with the expertise of the CSB. CSB counts on funds in the budget to rehabilitate some laboratories and its building as well as on acquiring new vehicles. CEBioS' missions in this project are financed by Unesco through UGent.
- In its effort to support CIFOR with the sustainable development of the Yangambi landscape, the CSB will continue to provide logistical support to multiple projects initiated by UGent (Prof Boeckx) and the RMCA in Yangambi.
- The biosecurity unit of the CSB is deployed in several large international projects developed by or with the University of Antwerp.
- With the recent reinforcement of the botanical activities at the CSB, the collaboration with the Botanic Garden Meise is intensified.
- Synergies with the Belgian NGOs Bos+ and Join For Water (in the Tshopo Province), and ViaDonBosco (culture of mushrooms, Bukavu area) in the framework of SECORES, the strategic thematic framework on Ecosystem Resilience, are ongoing.

Planned Training

- The annual taxonomy grant (GTI) granted to the CSB, will be dedicated to work on Pteridophytes under the responsibility of the Botanical Garden of Meise.
- A training on the foundations of scientific research, good practices, ethical aspects of science, started in 2022, will continue 2023 .
- Building on a VLIR-Teams project of UGent which aims at providing users of statistical methods – researchers and science students (e.g., biology and medicine) – with the basic knowledge to apply techniques and data analysis tools in a correct way by providing a course as a Local Open Online Courses (LOOC), free and publicly available on the servers

of the CSB, a group of CSB-agents will be trained in basic statistics. After a test, a limited number of candidates will be offered the opportunity to follow, during at least six months, a weekly course, taught by local experts, to deepen their knowledge on statistics and to experience how different techniques can be helpful to analyse the data in their possession. This course will be (informally) certified. It fits in the exercise to be able to analyze and interpret the collected data over the past 5 years.

Budget

- Part of the 2023 budget is set aside for the continued professional reinforcement of the CSB staff (attending conferences, organising local awareness activities, ...) according to the opportunities that will arise.
- The lack of proper local financing persisting, the allocated budget includes a contribution to the internet connexion of the centre, and the maintenance of their material assets, while a dedicated team of CSB staff continues to focus on generating revenues with the centre’s assets (renting out of its meeting room, vehicles etc).

Summary of Budget for CSB, RD Congo (Euros):

Total operational costs per transversal theme / year	48000
Total Investments	0
Total Operations	41,000
Total missions	7,000

- **The Institut Congolais pour la Conservation de la Nature (ICCN) and public universities in RD Congo**

There is no specific log frame or dedicated budget table for these activities, as they are spread across several capacity development interventions and several institutions across the DRC. The budget can be found under the related indicators in Table 1 or in annex 3 (general budget).

More specifically, CEBioS activities with ICCN are focused on the monitoring of habitats and the production of tools (lexica) that facilitate the application of scientific knowledge to monitor habitats and ecosystem health.

A planned meeting with the new DG of ICCN on visit to Belgium was unfortunately cancelled in last minute. Nevertheless, CEBioS colleague François Muhashy met the new DG and colleagues at ICCN Kinshasa and reported on their needs and expectations for the next years in his mission report.

1 lexicon on the ‘Réserve Transfrontalière de la Ruzizi’ (DRC and Burundi) is written and will be released in 2023 or 2024. The data of another lexicon on the Virunga National Park will not be completed due to the ongoing wars in the province of North Kivu.

Research to consolidate the knowledge on habitats and biodiversity and to valorise ecosystem services of the protected areas in DRC:

- a. With the ICCN, UNIGOM, UNIKIS: Ndamiyehe Ncutirakiza Jean-Baptiste (M)
"Contribution à l'amélioration des prédictions des stocks et flux de biomasse à partir d'une caractérisation tridimensionnelle de la structure des forêts tropicales dans l'écorégion que la Réserve MAB de Yangambi." 1 PhD. This thesis will be presented during the 2nd semester 2023.
- b. With the ICCN, UNILU: Sebagenzi Guy David (M)
"Effet du nivellement des termitières géantes et de l'épandage de leurs matériaux sur la variabilité spatio-temporelle de la fertilité des Ferrasols - Exploration des liens entre la production de biomasse et la variabilité spatiale des sols à l'aide des caméras multi spectrales (RedEdge Micasense) monté sur le drone" - 1 PhD who will build up on the basis of the capacity acquired with a drone in phase I.
- c. With the ICCN, UNILU, ULg/Gembloux: Mashagirot Gráce (F)
"Quantification des services écosystémiques de régulation et de support rendus par les espaces végétalisés urbains de la ville de Lubumbashi (SE de la R.D. Congo)." 1 PhD will be presented during the 4th semester 2023
- d. With the ICCN, UNILU: Muganguzi Ntare Trésor (M)
Influence des activités minières et agricoles sur la macrofaune du sol dans la province du Haut-Katanga (R.D. Congo).
- e. With ARES/ UCL-UNIGOM: Rizinde Hakizimana Jean -Claude (M)
"Diversité taxonomique, écologique et fonctionnelle des champignons comestibles de la Région des Grands Lacs." 1 PhD, building on the ARES project, itself a spin-off of the Belspo financed "Réseau des mycologue de l'Afrique Centrale", itself a spin-off of previous CEBioS projects. In this framework, the habitats of the mycoflora are monitored in the Virunga National Park; which led to begin collecting data that will constitute a lexicon; this activity will continue in 2023. The thesis will be presented before the end of this year.
- f. With ULg/Gembloux-UNIGOM: Niyibizi Gakuru Patient (M)
« Développement de méthodes alternatives de lutte contre les ravageurs des cultures maraichères dans les hautes terres de l'Est de la R.D. Congo et perspectives d'un itinéraire technique ». This research is being carried out in the vicinity of the Virunga National Park and is expected to help promote biological control and ecological agriculture in the surroundings.
- g. With ULg/Gembloux-JBM-KUL- UNIKIS: Tumaini Hatangi (M)
"Évaluation de la résilience de *Coffea canephora* au changement climatique dans le Bassin du Congo ». 1 PhD.
- h. With the UB -UNIGOM: Bahati Runigi Guy (M)
"Étude de la dynamique floristico-dendrométrique des forêts des sites sacrés du PNKB » .
1 master.

Other countries

The CEBioS interventions focus on Benin, Burundi and RD Congo for most interventions and more specifically on institutional cooperation.

However, sub-programmes involving **open calls** for micro-projects such as the GTI (including Vietnam and Cambodia), the CHM, awareness and MRV, target also other eligible countries (list see 5 year programme). Each call focuses on a specific set of countries, depending on the language, the regional aspect or the themes chosen.

Global Taxonomy Initiative (GTI)

Normally, 2 GTI calls for capacity development activities are launched every year:

One for GTI scholarship grants and one for GTI capacity development grants.

A new GTI capacity development grants call will be launched to select 2 projects of RBINS researchers for *in situ* training. The eligibility criteria are based on pertinence to development, value chains and sustainable development. Additional projects might be subsidized, provided budget reliquats are found.

A call for GTI scholarship grants will be launched to welcome 9-11 alumni trainees who will come back for a second or third time.

The Belgian GTI NFP official website (www.taxonomy.be) has been totally restructured and migrated to a WordPress instance hosted on the server of the RBINS: <https://taxonomy.naturalsciences.be/>.

Example of call GTI for short term scholarships: <https://taxonomy.naturalsciences.be/specific-training/short-term-scholarships/>

Example of call GTI for capacity development projects:

<https://taxonomy.naturalsciences.be/specific-training/capacity-development-projects/>

Clearing House Mechanism and awareness

Each year, a call for CHM and a call for awareness micro-projects is launched. It targets ministries and their national focal points for CHM, or other CBD related. Mostly this type of calls targets the Sahel countries (Benin, Togo, Niger, Tchad, Ivory Coast, Guinée Conakry etc...), where CEBioS developed a dedicated network during phase I. However, East African countries are possible as well (Kenya, Tanzania, Uganda, Mozambique).

Examples of calls:

CHM

<https://www.biodiv.be/implementation/cooperation/chm-cooperation/calls-reinforcement-websites/calls-reinforcement-websites/current>

Awareness

<https://www.biodiv.be/implementation/cooperation/chm-cooperation/calls-public-awareness-activities/call-2022>

Monitoring-Reporting & Verification (MRV)

The MRV programme runs projects mainly in the DR Congo, Benin, Uganda and some other countries, depending on the submitted proposals (calls launched in 2019, after the formulation and formation workshops). Fr and Engl projects were executed in 2020 and 2021. Closing workshops were organized in October 2022, gathering scientists and decision makers of each project, to share best practices, communicate results and strengthen the Science-Policy interface. In 2023, the MRV project holders will implement awareness projects to disseminate the results of their 2020-2021 MRV projects.

Example of call:

<http://www.biodiv.be/cebios2/calls/mrv-calls/2019-appel-atelier-formulation-fr>

3. HUMAN RESOURCES

CEBioS is part of OD Nature, at the Royal Belgian Institute of Natural Sciences (RBINS).

All staff at CEBioS is contractual (CDI), except indicated otherwise.

No staff is based in the South, except for a period of a few years (2019-2022) when CEBioS was represented by a local volunteering colleague in Benin for activities related to 'SECORES' and the Joint Strategic Framework of the Belgian ACNGs in Benin.

The CEBioS staff supported by the programme includes in 2023:

- 1 **coordinator**, full-time
- 1 support **secretariat** officer, full-time, stopped in March 2023, will be replaced asap (bottlenecks at level of administrations).
- 1 **financial** officer, full-time
- 1 **graphic** designer officer, half-time of 4/5, worked during 2022-April 2023 halftime for CEBioS and halftime for the Publication Support Unit (PSU). Since May 2023 again fulltime CEBioS.
- 1 **communication** officer, GTI Focal Point and CHM-policy-awareness support , full-time
- 5 **scientific** officers
 - a. 1 scientific officer full-time will retire by the end of 2023 and need to be replaced during the year 2023. She is responsible for MRV, CSB, Yangambi project. She will be replaced by a new person, already active at CEBioS (see e.).
 - b. 1 scientific officer full-time is responsible for Habitat monitoring and lexica in RDC, Burundi and Benin and will also retire by the end of 2023. A new vacant position for an ecologist will be launched to replace him for the habitat monitoring aspects and integrating new tools such as GIS and remote sensing.
 - c. 1 scientific officer, 90% responsible for science support, MRV and GTI
 - d. 1 scientific officer, full-time responsible for CHM, policy, awareness

- e. 1 scientific officer, half-time on preparation of Kisangani conference. From May 2023 onwards he will start the gradual replacement of one retiring colleague for the CSB dossier.
- 1 **Marine modeller & remote sensing** expert, half-time on CEBioS and halftime on CLIMDIS BELSPO project (climate modelling in Vietnam): on sick leave since April 2021. Replacement scheduled in 2023 as a 4/5, pending budget.

4. THE LOG FRAME OF PHASE II

See annex 1 (at the end of this document) and annex 2, Excel file

5. BUDGET OF YEAR 2023

See Excel file in annex 3, including those of the institutional cooperation.

Summary of general budget planned for 2023 (Euros):

Total operational costs per transversal theme / year	1,138,150
Total direct costs per year	1,265,420
Total Investments (operational costs + management costs)	0
Total Operations (operational costs + management costs)	462,000
Total missions (operational costs + management costs)	72,000
Total Personnel (operational costs + management costs)	731,420
Structural costs 7%	88,579
Total Budget 2022	1354000

The budget 2023 has been slightly modified as follows:

The annex 3 (Budget 2021-23) is the **latest budget (see second tab in the file)**, slightly adapted for salaries (current situation, higher salaries due to indexation as well as retirements at the end of 2023 with replacements) and some activities to compensate for salaries (mainly related to synergies with ACNGs in joint strategic frameworks). The totals remain unchanged and correspond to the Royal Decrees. The SO1, SO2 and SO3 remain unchanged or were slightly modified at < 15% of original budget.

SO4 was modified at more than 15% (green markings):

Budget post in SO4	Original/modified	2021	2022	2023
Operational costs (total)	Original	86,100	104,700	158,583
	Modified	116,377	132,170	174,550
R4.1	Original	9,500	9,500	9,033
-33 Synergy fund to promote specific synergy projects with civil society and private sector in agriculture and conservation	Original			
	Modified	29,500	24,500	25,000
R4.4-34 increase awareness in North (CEBioS) and South for the partners of the Belgian development cooperation,	Original	1,000		1,000

civil society, often back to back with attending SD-activities				
	modified	6,277		1,000
R4.1-33 Synergy fund to promote specific synergy projects in agriculture and conservation	Original			
		3,000	3,000	3,000
	modified	8,000	15,470	3,000

Important notice:

Due to a decision at the federal level not to waive the ‘precompte professionnel’ anymore, an increase of 20% of most salaries will substantially stress the budget. This is not related in this planning, but will be discussed ‘en cours de route’ during the steering committee meetings.

6. MONITORING & EVALUATION, GENDER

As mentioned by indicators 22 and 23, evaluations of the quality of the provided training and the workshops are assessed after each intervention with a scoring system, off- or online. Tracer and impact studies assessing impacts of the Programme at the level of the target publics will be held from 2022 onwards. Gender proportions is recorded at all interventions and an effort will be made to increase female participation, however please note the extremely low baseline of <10% female presence in different settings and activities in the countries where CEBioS is active.

An important activity in 2023 will be the coordination and implementation by BELSPO of the mid- (second phase 2018-2023) and end term evaluations (whole 10 year strategy) of the CEBioS Programme. To that effect, 40.000 EUR is scheduled for 2022 and 30.000 for 2023. This sums up to 70.000 EUR to be used for both evaluations which will start in the first half of 2023.

7. Planning and reporting in 2023

Given the fact that 2023 is the last year of the second and last 5 year phase, many important documents need to be prepared and/ or updated :

Administrative framework

The **Protocol** between RBINS, AfricaMuseum, and the ministers of development cooperation and Science Policy needs to be updated. A first proposition for changes has been sent to DGD beginning of 2023. The evaluation Bureau Alesopi will bring recommendations as well. By the end of May 2023.

Strategy

A new **10-year strategy** needs to be written. It will cover the period 2024-2033. It has to be adapted to :

- The Global Biodiversity Framework, replacing the Aichi Targets, as decided at COP15 of CBD.
- The nexus approach, e.g. ,
 - o Nexus biodiversity & climate
 - o Nexus biodiversity and resilience
 - o Nexus biodiversity and food security
 - o Nexus biodiversity and water
- Other conventions such as the RAMSAR convention on Wetlands

Reporting

The following **reports** have to be written:

- Report 2021 (should be ready by the end of April 2023)
- Report 2022-2023 (due in 2024)
- Report Phase 2 & Highlights of 2019-2023

Planning

The following **planning** needs to be done:

- 5-year plan 2024-2028
 - o Including Annual plan 2024

A two-day retreat by CEBioS will be organised in June 2023 in order to formulate the new strategy and programme 2024-2028.

8- External projects

A number of external projects are submitted or are running.

Nr.	Project	Promoter	Involvement of CEBioS	Duration	Budget
1	ZACORES	CEBioS	Dr. Anne Laudisoit, scientific volunteer at RBINS-CEBioS will implement this project in Zanzibar. It is a tri-partite contract between Artelia (France), Association (civil society in Zanzibar) and CEBioS. CEBioS, through Anne, guarantees the scientific quality of coral reef restoration and awareness activities.	2023	CEBioS will receive 15000,- EUR from Artelia (France), which will be dispatched to Association in Zanzibar.
2	C-URGE	KULeuven	Professor Katrien Pype (KULeuven) and Prof. Constanza Para (KULeuven) are promoters of a PhD-student from Canada who will spend 9 months in Muanda (RDC) to investigate ethnographically the aftermath of a climate adaptation and poverty reduction project of UNDP. The student will spend in 2024 3 months as obligatory 'secondment' with CEBioS which is 'associated partner'. It is a Horizon Project	2023-2025 Start in September 2023. Secondment most probably in 2024	No budget involved
3	SECORES	Join For Water	CEBioS is a founding member of SECORES, the network of the thematic joint strategic framework on resilience of social-ecological systems, approved by DGD. Luc is chairman for 2023-2024. In 2023, a student, Ilya, is planning to be in Burundi to analyze resilience in cooperation with Uni4coop, OBPE and University of Burundi, and under the supervision of Prof. Jean Hugé (Open University The Netherlands), CEBioS and Prof. Jacques Nkengurutse (Un. Du Burundi).	From 2023 onwards	No budget involved. From 2024 onwards, CEBioS will contribute annually 15000,-EUR to SECORES as do the other members (JFW, WWF, Bos+, Uni4COOP and Via Don Bosco) (approved by steering committee of 09-11-2021)

4	PASCALE-B	Louvain Cooperation	This Horizon EU project aims at strengthening the civil society in Burundi for natural resources, biodiversity and WASH. CEBioS is associated to mainstream biodiversity. • PASCALE-B IBIDUKIKIJE - Projet d'Appui à la Société Civile Active dans Les domaines de l'Environnement et la Biodiversité au Burundi \\datastorew\biodiv\2-CEBioS\2019-2023\SO4-DevActors-civSoc-privSect\R41-CB\4133-synergies-cebios\Burundi\EU-BUR-JFW-LC	2023-2025	1 mission is set aside for CEBioS to be involved in a workshop
5	FEDtWIN	RBINS, Prof. Koen Martens and UHasselt, Prof. Maarten Vanhove	CEBioS is associated to a newly approved FEDtWIN mandate who should start in 2023. It concerns biodiversity of freshwater systems in Africa, e.g. Ramsar sites.	2023 onwards	No budgets involved
6	2 nd Conference on biodiversity of Congo Basin	RBINS and Centre de Surveillance de la Biodiversité (RDC)	CEBioS is involved in its preparation with the funds of DGD and implementation in RDC with and by CSB with 'Procure' as sous-traitant.	1 week in March 2023	135.520 EUR from DGD
7	UNESCO Yangambi	UGent, Prof. Pascal Boeckx	DGD funds are used in a Unesco-UGent-CSB consortium to finance capacity building and maintenance of the flux tower. CEBioS, is involved as coach of the CSB.	2023	Via the UGent, CEBioS can access funds for missions for monitoring and coordination purposes
8	Training mushroom cultures in DRC	Via Don Bosco	In 2021-2022 CEBioS and VVOB organized training on mushroom culture in Technical Agricultural Schools in Kongo-Central. An adapted version of this successful project will be implemented by the NGO Via Don Bosco in its professional training centres for unemployed youngsters in Bukavu	2023 onwards	CEBioS contributes the costs related to the work of the hired experts (Professors)
9	ARES	Several universities in Belgium, RDC and Rwanda	François is involved in coaching several PhDs on mushrooms in the Virunga region.	2020 onwards	No funds, in kind scientific contribution by CEBioS
10	CO-OP4CBD	Alternet (INBO)	Biopols represents RBINS in this EU project. NFP and Han coordinate this. 1 FTE was hired on the funds and facilitates the scientific base and CHM towards the CBD.	2022 onwards	Salary of 1FTE who works for Biopols, where CEBioS is part of
11	PSP (VLIR-UOS)	KULeuven, UHasselt	CEBioS is associated. Provision of policy advise to DGD on climate & biodiversity & resilience	2024 onwards	Submitted, not selected
12	IvoBon	Helmholtz Institute (Germany)	This Biodiversa+ project aims at optimizing monitoring of biodiversity in 6 sites of Ivory Coast and Liberia and create a regional Geobon. CEBioS would provide the science-policy interface aspects through dedicated multi-stakeholder workshops. Possibility to hire 1 FTE	2024 onwards	Submitted (250K)

13	Lomami in RDC	Cooperation RBINS-Senckenberg (Frankfurt)	This new initiative (research, management etc. in Lomami NP) is in the making for implementation in 2024, in the wake of fruitful discussions during the Kisangani Conference. CEBioS as part of RBINS is asked to participate. It might be linked to the Team Europe Initiative for Africa, promoted by Belspo.	2024 onwards	MoU being drafted, possibilities through Biodiversa+
14	PACECOR	DUE/ENABEL/PN UD	CEBioS is mentioned as advising body. Biodiversity in Burundi with OBPE/ • Projet d'Appui à la Conservation des ECOSystèmes du bassin hydrographique de la Rusizi (PACECOR) au Burundi \\datastorew\biodiv\2-CEBioS\2019-2023\SO4-DevActors-civSoc-privSect\R41-CB\4133-synergies-cebios\Burundi\PACECOR-euproject	2023 onwards	Contrat de partenariat, to be confirmed
15	RUBICOM	UA	CEBioS is co-promotor with University of Antwerp in this VLIR-UOS South Initiative on research in Rusizi, Burundi, RDC with OBPE, Université du Burundi.	2024 onwards	Selected, 70K for 2 years. Missions and workshops
16	CANATHIST	RBINS	CEBioS is associated in this Belspo project to handle Belgian collections in the South (Han has details)	2024	tbc
17	Belspo-Stereo	KULeuven	Desertification	2024	250K tbc
18	Belspo Vietnam	KBIN-Tervuren	Modelling VT en Benin/ Genev & Maarten VSB/ Jerome hotspots VT	2024	To be proposed to MOST in June 2023

ANNEXES

Annex 1- (in this document)

INTERVENTION LOGIC, MISSION, OBJECTIVES, EXPECTED RESULTS AND THEORY OF CHANGE

Annex 2- (Excel-file)

Logical Framework Phase II- CEBioS Programme

Annex 3- (Excel-file)

Budget Phase II, 2021-2023, adapted

Annex 4- (Excel-file)

Log frame & operational plan UAC (Benin)

Annex 5-(Excel-file)

Log frame & operational plan CSB (RDC)

Annex 6- (word-file)

Log frame & operational plan OBPE (Burundi)

Annex 7- (in this document)

Timeline of CEBioS

Intervention logic, mission, objectives, expected results and Theory of Change

1- Intervention logic

The log frame (annex 1) for the period 2020-2023 of phase II of the CEBioS programme consists of 4 specific objectives, 4 Results and 40 indicators

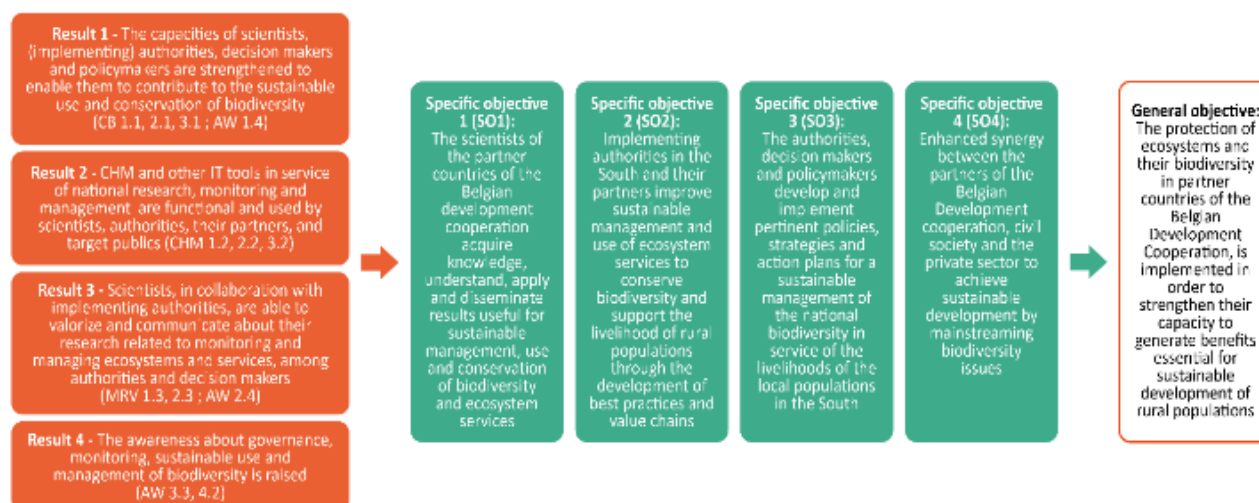


Fig. 1. The log frame of the CEBioS programme, yr 2-5 of phase II.

Mission Phase II

The CEBioS programme contributes to the achievement of the SDGs related to climate change and biodiversity (SDGs 13, 14, 15) by the DGD partner countries, in order to reduce poverty (SDG 1), hunger (SDG 2) and improve good health and well-being (SDG 3).

The CEBioS programme contributes to the achievement of the 2020 (and beyond) strategic plan of the Convention on Biological Diversity (CBD) through the (post)Aichi targets and its related protocols by the DGD partner countries.

**General objective Phase II
(indicators 1-2)**

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

Specific objectives

The four specific objectives are:

SO 1: The scientists of the partner countries of the Belgian development cooperation acquire knowledge, understand, apply and disseminate results useful for sustainable management, use and conservation of biodiversity and ecosystem services.

(indicators 3-6)

SO 2: 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.

(indicators 7-10)

SO 3: 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.




(indicators 11-16)

SO 4: Enhanced synergy between the partners of the Belgian Development cooperation, civil society and the private sector to achieve sustainable development by mainstreaming biodiversity issues.

(indicators 17-19)

Expected Results

The following **4 Expected Results** (called ‘**Results**’ in the log frame), support the four specific objectives (SO 1-4) and are primarily related to the CBD Aichi targets 1, 17 and 19. Once the post-2020 global biodiversity framework (postponed because of Covid) will be defined, the next annual programme will be updated accordingly. Meanwhile, we refer to the Aichi targets of the CBD strategy 2010-2020.

<p>1</p>	<p>Result 1 - The capacities of scientists, (implementing) authorities, decision makers and policymakers are strengthened to enable them to contribute to the sustainable use and conservation of biodiversity (indicators 20-28)</p> <p>Capacity building is the core of the CEBioS programme, especially under SO1 (for academics) and SO2 (for state implementing partners, agencies), but also under SO3 to inform and train about policies (e.g. Nagoya Protocol) and SO4 where CEBioS plays a role in training civil society actors on biodiversity issues. Capacity building is mainly referred to in Aichi Target 19.</p>
<p>2</p>	<p>Result 2 - 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 (indicators 29-34)</p> <p>The CHM is a web-based tool promoted by the UN CBD to meet Aichi Target 19:</p>  <p>Target 19 By 2020, knowledge, the science base and technologies relating to biodiversity, its values, functioning, status and trends, and the consequences of its loss, are improved, widely shared and transferred, and applied.</p> <p>Support and development of other IT tools, platforms or models to mainstream biodiversity or to harmonise planning and reporting of Aichi targets (and post Aichi after 2020) for CBD and to harmonise with other international conventions, is included in this digital transversal approach and is tailored to fit in with all SOs.</p>
<p>3</p>	<p>Result 3 - Scientists, in collaboration with implementing authorities, are able to valorise and communicate about their research related to monitoring and managing ecosystems and services, among authorities and decision makers (indicators 35-37)</p> <p>The Measurement-Reporting & Verification (MRV) concept stems from the carbon discussion in the context of climate change. MRV is now also applied in the biodiversity & development nexus, offering a powerful approach to tackle the translation from science to policy to development by valorising scientific data to feed local and national indicators for reporting and verification of biodiversity policies and strategies. MRV facilitates the cooperation between the academic world, the authorities and decision-makers in order to convert academic results into concrete value chain options for livelihoods and tools for the sustainable use and management of the ecosystem services offered by biodiversity. MRV is especially prominent under SO1 and SO2. It mainly contributes to Aichi target 17:</p>  <p>Target 17 By 2015 each Party has developed, adopted as a policy instrument, and has commenced implementing an effective, participatory and updated national biodiversity strategy and action plan.</p>
<p>4</p>	<p>Result 4 - The awareness about governance, monitoring, sustainable use and management of biodiversity is raised (indicators 38-40)</p> <p>Awareness and communication are key to realise knowledge and technology transfers for capacity building and in the science-policy-development interface and they are an integral part of all SOs. Both topics are prominently present in the COP conferences under the CEPA fairs side events, this to meet with Aichi target 1:</p>  <p>Target 1 By 2020, at the latest, people are aware of the values of biodiversity and the steps they can take to conserve and use it sustainably.</p>

Description of CEBioS' Theory of Change

In order to understand the theory of change of the CEBioS programme, the specific objectives (SO) and their results are represented in the three spheres of outcome mapping:

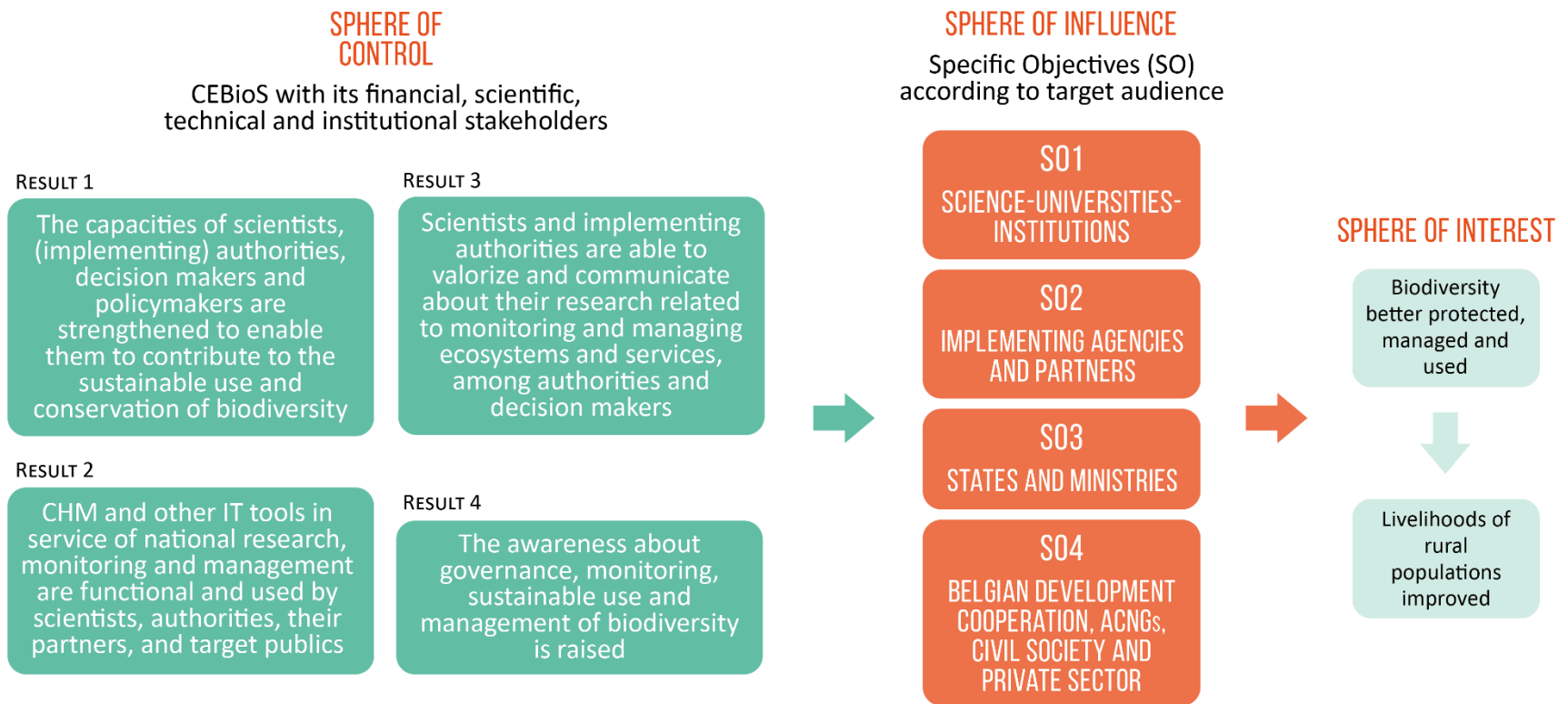


Fig. 2. The 4 Specific Objectives (SO) and the 4 Results of the CEBioS programme, phase II, in a perspective of a theory of change. The green boxes ('Results') are describing the results obtained with our modalities of intervention.

TIMELINE OF CEBIOS

Updated proposed timeline

Given the urgency to have the next strategy and 5-year plan approved by January 2024, the following timeline is proposed after discussion of the PV of the 19th steering committee between CEBioS and DGD (20-01-2023):

New strategy of 10 years

Should be finalised for September 2023, in order to be presented to the Minister.

Proposition:

- Keep TOC and 4 SOs, since it works well;
- Replace Aichi CBD targets by 23 targets of Global Biodiversity Framework (just approved at COP-15, December 2022)
- Add RAMSAR convention on wetlands
- Explain choices of thematics, partners, countries
- Add component of nexuses for biodiversity & water, resilience, climate and food security

New 5-year plan 2024-2028

Should be finalised before the end of August 2023, so it can be approved. Both the strategy and the 5-year plan should be written in parallel in order not to lose time. The recommendations of the external evaluation (expected in June 2023) will be added.

Report 2021

Has to be ready by June 2023. This, combined with proof of 80% expenditure for 2022, will allow payment of the last part of the 5-year program (year 3 of the multi-year 2021-2023).

Reports 2022 & 2023

To be delivered by June 2024. Either as one report (to be confirmed by DGD) or separate.

Report 2019-2023 & Highlights

Not clear, hopefully before end of 2024.

Protocol

Update to be done in last trimester 2023, to be presented at strategic committee meeting (organisation by DGD & Belspo).

Visual timeline

Approximate visual timeline of budget expenditures during the five year programme, delayed due to delayed decisions and the pandemic.

