

# Annual plan 2016

## Building capacities for biodiversity and development



photo@Luc-Janssens-de-Bisthoven, Bénin

### Annual plan for the period 1 January 2016 - 31 December 2016

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## Acronyms

ABS	Access and Benefit Sharing
BIP	Biodiversity Indicators Partnership
BTC	Belgian Technical Cooperation
CBD	Convention on Biological Diversity
2010 BTCT	2010 Biodiversity Target Cross-linking Tool
CHM	Clearing House Mechanism
CITES	Convention on International Trade in Endangered Species of wild fauna and flora
CNEDD	Conseil National de l'Environnement pour un Développement Durable, Niger
COHERENS	Coupled Hydrodynamical Ecological Model for Regional Shelf Seas
COMIFAC	Commission des Forêts d'Afrique Centrale
COORD	Programme Coordination and Management
COP	Conference of the Parties
CSB	Centre de Surveillance de la Biodiversité
DEVCO	European development Cooperation Directorate General
DGD	Belgian Development Cooperation
EDIT	European Distributed Institute of Taxonomy
ERAIFT	Ecole Régionale Post-Universitaire d'Aménagement et de Gestion Intégrés des Forêts et Territoires Tropicaux
FABAC	Forum des Acteurs Belges Actifs en RD Congo
FWO-Vlaanderen	Fonds voor Wetenschappelijk Onderzoek – Vlaanderen
GEO BON	Group on Earth Observations Biodiversity Observation Network
GTI	Global Taxonomy Initiative
ICCN	Institut Congolais pour la Conservation de la Nature, Kinshasa, D.R. Congo
ICT	Information and Computer Technology
IEBR	Institute of Ecology and Biological Resources, Hanoi, Viet Nam
IMAB	Inventories Monitoring and Assessment of Biodiversity
INECN	Institut National pour l'Environnement et la Conservation de la Nature, Bujumbura, Burundi
IPBES	Intergovernmental Platform on Biodiversity and Ecosystem Services
IRD	Institut de Recherche pour le Développement
IRHOB	Institut de recherches Halieutiques et Océanologiques du Bénin
ISCNET	Institut Supérieur de Conservation de la Nature, de l'Environnement et du Tourisme , R.D. Congo
ISDR-GL	Institut Supérieur de Développement Rural des Grands Lacs, D.R. Congo
ISP Mb-Ng	Institut Supérieur Pédagogique de Mbanza-Ngungu, D.R. Congo
LEGERA	Laboratoire d'Ecologie et de Gestion des Ressources Animales, D.R. Congo
LEM	Law Enforcement Monitoring
MATEE	Ministère de l'Aménagement du Territoire, de l'Eau et de l'Environnement , Morocco
MIST	Management Information System

MRV	Measurement Reporting and Verification
MUMM	Management Unit of the North Sea Mathematical Models
NFP	National Focal Point
NGO	Non-Governmental Organisation
NP	Nagoya Protocol
NBSAP	National Biodiversity Strategy and Action Plan
NWU	North-West University, South Africa
OBPE	Office Burundais pour la Protection de l'Environnement
OESO-DAC	Organisation for Economic Cooperation and Development-Development Cooperation directorate
PEET	Partnerships for Enhancing Expertise in Taxonomy
PM	Person Month
PNKB	Parc National de Kahuzi-Biega
PN	Parc National
PNU	Parc National de l'Upemba
POL	Policy Support
PTK	Portal Toolkit
RBINS	Royal Belgian Institute of Natural Sciences
RDC	D.R. Congo
RDCBL	Réserve et Domaine de Chasse de Bombo-Lumene
SACEP	South Asia Co-Operative Environment Programme
SBI	Subsidiary Body on Implementation
SBSTTA	Subsidiary Body on Scientific, Technical and Technological Advice
SDSN	Sustainable Development Solutions Network
SSC	South-South Cooperation
TST	Trans Sectorial Team
UAC	Université d'Abomey- Calavi , Benin
UA	Universiteit van Antwerpen, Belgium
UB	Université du Burundi
ULB	Université Libre de Bruxelles, Belgium
UNIGOM	Université de Goma
UNIKIN	Université de Kinshasa
UNIKIS	Université de Kisangani, D.R. Congo
UNILU	Université de Lubumbashi, D.R. Congo
UOB	Université Officielle de Bukavu, D.R. Congo
VLIR	Flemish Interuniversity Council, Belgium
WPEI	Working Party on International Environmental Issues (EU)

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## Introduction

Biodiversity is included not only in Sustainable development Goal 14 on oceans and coasts, and Goal 15 on terrestrial ecosystems, but also plays an important role in targets under several other Goals: Goal 2 (hunger and food security), Goal 6 (water and sanitation), Goal 11 (cities) and Goal 12 (sustainable consumption and production). These goals are obviously strongly related to development. In order to highlight the relevance of the CEBioS programme for the Belgian cooperation and the Belgian international obligations for biodiversity and development cooperation, a table (annex 4) with all relevant targets of the recently approved **Sustainable development Goals** is provided. CEBioS contributes directly to 22 (sub)targets spread over SDGs 1, 2, 4, 6, 10, 12, 14, 15 and 17, and more indirectly to 7 (sub)targets of the SDGs 2, 5, 9, 13 and 17.

The year 2016 is the third year of the 10 year strategy 2014-2023 and of the 5 year plan 2014-2018. 2016 will see a consolidation of interventions started in previous years, with some further optimisation of administrative and financial processes (contracts, reporting and evaluation flows, management cycle within DO Nature of RBINS) and further exploration of partnerships, external funding and co-funding with other Belgian or international actors. Due to the multi-annual format of the programme, some extra initiatives will be financed with outstanding saldos from the years 2014 and 2015. Our institutional cooperation will mainly focus on Benin, DR Congo and Burundi for habitat monitoring, and Vietnam and Peru for marine modelling.

**SO1 (knowledge):** the in situ **GTI workshops** on taxonomy and ecosystem services and the **GTI internships** for early career scientists from the South in Belgium will continue on a competitive basis as in the past, with special attention to institutional anchorage and long term support for successful candidates. The GTI internships will in 2016 focus on scientists having already benefited one or two time from the grant in the past, in order to allow them to deepen their capacity building in their field of interest. A **first alumni workshop** will be organised in Benin in June, in order to valorise a selected number of GTI alumni, allow exchange of best practices, build up an alumni network in Africa and produce vulgarization and policy brief outputs.

**AbcTaxa** plans for 2016 the dissemination of 1 volume, as well as the production of a new volume. The negotiations about topic and contents of latter are under way, but likely it will be on polystomes (vertebrate parasites) or on good practices in methods that enable molecular systematics.

The production of **lexica** in DRC (Itombwe reserve), Burundi (Kibera and Ruvubu National parks) and Bénin (Pendjari National Park) is well advanced and will be continued and some finalised in 2016. These lexica form important landmarks for the convergence between science and conservation.

Concerning **DR Congo**, the cooperation with **ICCN**, universities and the national CHM will be further strengthened. The academic support to Masters and PhDs will continue on themes relating biodiversity and poverty eradication at UNIKIN (Bombo Lumene Reserve), UNILU (Lusishwi clear forest and termites, a

pilot project with a drone) and at UNIKIS (e.g. ticks) in order to strengthen capacities of the faculté des Sciences and CSB. Several scientists from CSB-UNIKIS will be trained at RBINS. As a follow-up of the CEBioS training at CSB in 2015, a dedicated MRV call (**SO5**) will be specifically focused on DR Congo: research institutes will implement MRV projects (see SO5) and report to the 'Centre de Surveillance de la Biodiversité' in Kisangani in concertation with the Ministry of Environment and with the expectation that the provincial antennas for biodiversity will take up an important role. Indeed, the CSB will build out its capacities as a **secondary CHM** with the support of the CHM in Kinshasa and CEBioS. We expect also to sign a comprehensive **MoU with the CSB** in 2016, integrating different aspects of support by RBINS. This will enhance the local structures in DR Congo to better implement MRV and hence the Aichi targets and the National Biodiversity Strategy and Action Plan, recently endorsed. Possibly a new World Bank project, if approved (pending), will integrate CEBioS activities at CSB as well.

On the PR side, CEBioS will continue **optimising its web site** in order to make projects, publications and the cooperation with some institutes (e.g. CSB) more visible, as well as develop some information folders.

A new cooperation is starting with ICCN in the **Parc National des mangroves (PNM)** in the province of Bas-Congo, Moanda, RDC. A pre-master student from KU Leuven will spend 2 months at CEBioS for mapping existing knowledge on mangrove crabs (literature, collections) and their bioindicator value in order to assess their importance for sensibilisation and information towards ecotourism activities in the park. The other two months she will work on dragonfly conservation issues with the Conservation Biology group of RBINS, another team of the BIOPOLS group. We are in the process of preparing an **MoU with the PNM**, which is also involved into research in parasites and manatees with RBINS and UA. KLIMOS is interested to conduct research on the mangroves of the PNM as well.

A **regional workshop to exchange best practices in habitat monitoring** with the participation of our partners from Bénin, RDC and Burundi will be organised, most probably in Bukavu next to the P.N. de Kahuzi-Biega.

CEBioS will support the Biodiversity day event of 20 May organised by the National Focal Point CBD with prizes linked to development cooperation and sustainable development linked to a contest.

The **cooperation with Burundi** through a three year programme (2014-2016) with OBPE and a 2015-2016 South Initiative VLIR-UOS project with Université du Burundi (North lead: VUB) and OBPE as co-promotor is temporally jeopardised by the political situation. CEBioS stays in contact with the Burundese partners through communication and meetings outside Burundi (e.g. Bénin at the regional CHM workshop, February 2016). Depending on the recommendations by Foreign Affairs, CEBioS still would like to implement the planned field work, however with considerable delays and the necessary caution. A regional meeting of the newly created mycological network in cooperation with Botanical Garden Meise will be organised in 2016 with external competitive funding by BELSPO (networking), in Eastern Congo with the participation of the Burundese colleagues.

Concerning **Benin**, a regional CHM workshop has been organised in February 2016 in Cotonou, followed by an informal mid-term evaluation of the cooperation programme with Université Abomey-Calavi (2014-2016), focused on the habitat conservation management linked mainly to bush fire in the Pendjari National Park. We would also like to start contacts with the private sector active in development in Benin to explore for possible cooperation. In addition, the closing workshop of the 2015-16 MRV call (SO5) is foreseen for October 2016 in Cotonou, as well as a GTI alumni workshop, planned for June. The Belgian embassy in Cotonou took note of the possibility to ask advice to CEBioS for the preparation of the new cooperation programme from 2018 onwards.

Concerning **Peru**, 2016 is the third and last year of the institutional cooperation with IMARPE. An end of term workshop on the impact of the project in December 2016 or beginning of 2017 will determine the results, outputs and impact. For **Vietnam**, the staff of IMER will further develop their modelling capacities and develop new avenues for sediment models in Halong Bay. A midterm workshop will be organised in September 2016. Scientists from Peru and Vietnam will spend training time in Belgium in 2016. A new cooperation on marine or freshwater modeling in **Benin** (Institut de Recherches Haléutiques et Océanologiques du Bénin, IRHOB) will be started, with a formulation mission in May. This new cooperation might replace or complement Peru and/or Vietnam, two countries not anymore in the priority list of the bilateral cooperation, while we are still considering possible cooperation with an institute in Zanzibar for phase II.

**SO2 (information) and SO3 (awareness):** based on the creation in 2015 of a large information booth about CEBioS and following the successful Symposium 'Biodiversity and development, a global heritage' of 26 November 2015 (<http://www.biodiv.be/cebios2/news/event-biodiversity-and-development-a-global-heritage-rbins-26-11-2015>), dissemination of the importance of the link between biodiversity and development, but also more specifically 'One Health', will continue through different channels and communication, through informative flyers and facilitation to invite experts from the South to an international One Health conference organised by SPF Environment. CEBioS' contribution to the Digital Agenda in the South includes training of partners within the CHM network both in Belgium and in our partner countries (national and regional) and implementation of projects for strengthening local CHM and awareness raising – for RDC in cooperation with VVOB, with special attention to the best practices in information strategies and the guidelines from the CBD (SO2 and 3). The training package on biodiversity and ecosystem services for DGD staff will be further developed together with KLIMOS for use in the South, aiming at Belgian and African actors in development, and possibly based on external competitive funds. The integration of biodiversity into the **KLIMOS toolkit** and into development cooperation projects will be further optimised and applied.

**SO4 (mainstreaming):** several **demands from diplomatic posts** with 'drawing rights' involve CEBioS, e.g. Tanzania and Palestina for on-going programmes or the negotiation of a new programme. CEBioS will provide advice on biodiversity indicators, MRV and CHM, and training options are explored depending on available man power and budget.

in 2016 the timeline and the terms of reference for the **mid-term evaluation of the programme will be formulated with DGD and BELSPO**. At the same time, CEBioS is involved in a **peer review of the Belgian actors active in policy support towards DGD**, with interview by a consultant planned in February-April. CEBioS has participated to the ACNGs exercise commissioned by DGD to make up the Joint Cooperation Actions in 2015 for Benin, Burundi and RDC. CEBioS will further participate to the Joint Strategic Framework in 2016 for Peru, Vietnam, Burundi, RDC, Bénin, Uganda, Guinée, Niger and Tanzania. The year 2016 will very much be devoted to preparations for the COP13 CBD meeting at the end of the year in Mexico in cooperation with the National Focal Points CBD, SBSTTA, GTI and IPBES. CEBioS participates to SBSTTA20 and SBI-1, as well as COP13. It is invited to consider participation in new mainstreaming or capacity building programmes by CBD and IPBES, and is also contributing to the discussions at OECD and an IPBES African regional assessment. Possible funding by BIOBRIDGE will be explored through contacts at CBD secretariat. CEBioS will continue to support the cooperation between BELSPO and the International Foundation for Science (IFS, Sweden) through dissemination of information, facilitation of scientific cooperation and eventual input to IFS juries, meetings and workshops. New avenues of cooperation with BTC, NGOs and the private sector will be explored. Integration of CEBioS interventions concerning digital agenda (Archives of former national parks of Belgian Congo, CHM) will be made more known and applied, as several demands are on-going (Fonds leopold III, Virunga National Parc).

**SO5 (MRV) and SO6 (P. of Nagoya):** as explained above, a call on Aichi targets and indicators for MRV devoted to DR Congo will be launched. Closing workshops of previous call and opening workshop of the new call will be carried out with an important component of training by experts. These workshops will form the basis of long-term strengthening of the biodiversity antennas within the former provinces of D.R. Congo, through a pilot project approach, starting with our 2016 MRV call and aiming for World Bank funding allowing follow-up over the course of several years. The current MRV practices by CEBioS will be presented at international congresses or side events (e.g. GEOBON, COP). Participation to COP/MOP meetings about the Protocol of Nagoya will further strengthen the Belgian expertise. In 2016 CEBioS will submit a scientific paper in co-authorship with KLIMOS on the use of Environmental Impact Analyses in ODA.

#### **Other interventions with external funding:**

Concerning **DR Congo**, besides the ongoing and recurrent activities described under SO1, two areas of interventions are being explored or will be further strengthened in 2016: (1) cooperation with ICCN concerning the **Parc National des Mangroves (see above)**, with special attention to the fauna (e.g. crabs as indicator species and iconic organisms to be used in eco-touristic education, cooperation with VUB, KU Leuven and UA), and with probable signing of an MoU, (2) cooperation with **UNILU and MRAC on a South Initiative (VLIR-UOS)** involving capacity building for an Environment Master programme (Biodiversité et exploitation durable des zones humides, mission planned in March). On a concrete demand by ICCN to CEBioS Un. of Bukavu will start mapping the biodiversity of the **Ruzizi delta**. Depending on external funding, capacity building and socio-economic studies on the fisheries problematics in **Lake Tanganyika** could be developed with local institutes (e.g. Uvira). Meanwhile a pre-master student (KU Leuven) will do some bibliographic work on this subject in cooperation with RMCA.

Concerning **Tanzania**, CEBioS participates as co-promoter in a **VLIR-UOS North South South project** with NM-AIST (Arusha) on the development of an integrated management plan for Lake Manyara. The role of CEBioS is the scoping of traditional and local perception and knowledge with local stakeholders in order to feed and support the biological data in a bid to formulate policy recommendations and a decision support system. A first successful stakeholder's meeting took place in December 2015 and will be further valorised through a survey of stakeholders through the support of the Belgian NGO TRIAS. A pre-master student (KU Leuven) will assist CEBioS in developing this survey.

Furthermore, funding was acquired, through VLIR-UOS and with KU Leuven, Université Mohammed V (Rabat, **Morocco**) and partners from Belgium, France, Cameroon, Ivory Coast and the US, for the following Short Training Initiative (KOI/STI): "Building an African network for sustainable management of aquatic biological resources supported by genetics and parasitology". The KOI will take place in September.

A GBIF grant is being asked to co-finance the MRV workshops in DR Congo.

Luc Janssens de Bisthoven, Coordinator

Brussels, 13-05-2016

## Annual Plan overview

### General objective

In its capacity of National Focal Point to the Convention on Biological Diversity (CBD) and national reference centre for biodiversity, the Royal Belgian Institute of Natural Sciences uses the CBD as an overall framework for action.

The general objective of the pluri-annual programme 2014-2018 is to **build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020**, as a contribution to poverty reduction and sustainable development worldwide.

### Specific objectives

In its foreseen framework programme for 2014-2018, the RBINS identifies six specific objectives to achieve by 2019. These objectives highlight how the responsibilities are shared for the programme's implementation.

The RBINS and its partners aim:

1. To strengthen the **scientific and technical knowledge base** on biodiversity and on its linkages with ecosystem services and poverty reduction;
2. To enhance the **information base** on these issues and on associated governance processes;
3. To **raise awareness and communicate** on the importance of biodiversity and ecosystem services for poverty reduction and sustainable development, and on associated governance processes.

The RBINS together with DGD-D2.4. and its partners aim:

4. To improve the **mainstreaming of biodiversity and ecosystem services** in policy sectors that have a high relevance for development;
5. To improve the knowledge on the **measurement, reporting and verification (MRV)** of policy choices and activities linked to biodiversity and ecosystem services;
6. To raise awareness on, and build capacities for, the implementation of the **Nagoya Protocol (NP) on Access and Benefit Sharing (ABS)**.
7. **Programme Coordination and Management (COORD)** is devoted to coordination and management, as well as transversal issues such as project communication, networking and outreach.

## Budget

The 2016 budget is composed of the original 2016 budget, plus the balances of 2014+2015 in a multi-annual framework.

Table 1: Indicative budget 2016

<b>Budget réel 2016 avec reliquats 2014 et 2015</b>				
	<b>Reliquat 2014</b>	<b>Reliquat 2015</b>	<b>Budget initial 2016</b>	<b>Budget 2016 avec reliquats 2014 et 2015</b>
<b>SO 1 - Strengthen the scientific and technical knowledge base</b>				
ER 1.1 - Scientific and technical expertise is built	-5,011.65 €	-35,160.94 €	60,000.00 €	19,827.41 €
ER 1.2 - Quality scientific knowledge is produced	-3,002.57 €	18,959.87 €	199,550.00 €	215,507.30 €
ER 1.3 - Monitoring data yield indicators	-6,030.41 €	1,110.05 €	20,000.00 €	15,079.64 €
ER 1.4 - Scientific outputs accessible	9,316.50 €	34,034.41 €	50,000.00 €	93,350.91 €
Salaries M.-L. Susini, F. Muhashy, M. Vanhove, K. Baetens, K. Vrancken	39,609.99 €	2,616.13 €	150,657.00 €	192,883.12 €
<b>Total</b>	<b>34,881.86 €</b>	<b>21,559.52 €</b>	<b>480,207.00 €</b>	<b>536,648.38 €</b>
<b>SO 2 - Enhance the information base</b>				
ER 2.1 - Expertise in information management is built	-49,432.20 €	9,588.61 €	50,000.00 €	10,156.41 €
ER 2.2 - Information flows are improved	-12,184.64 €	3,443.41 €	60,500.00 €	51,758.77 €
ER 2.3 - Information used in governance	-30,676.37 €	-9,025.86 €	25,000.00 €	-14,702.23 €
Equipment ICT & technical development	2,999.05 €	-5,145.72 €	4,000.00 €	1,853.33 €
Salaries M.-L. Susini, H. de Koeijer, K. Vrancken (5+6+3 pm)	8,059.02 €	-918.51 €	67,897.00 €	75,037.51 €
<b>Total</b>	<b>-81,235.14 €</b>	<b>-2,058.07 €</b>	<b>207,397.00 €</b>	<b>124,103.79 €</b>
<b>SO 3 - Contribute to awareness raising</b>				
ER 3.1 - Baselines provide insight on awareness level	-7,874.21 €	10,085.00 €	10,000.00 €	12,210.79 €
ER 3.2 - Awareness and engagement are raised	48,055.93 €	-9,533.96 €	75,000.00 €	113,521.97 €
ER 3.3 - Communication and awareness raising in Belgium	0.00 €	1,130.08 €	5,000.00 €	6,130.08 €
Salaries M.-L. Susini, H. de Koeijer, M. Vanhove, K. Vrancken (1+4+3+6 pm)	24,245.37 €	-3,073.46 €	50,148.00 €	71,319.91 €
<b>Total</b>	<b>64,427.09 €</b>	<b>-1,392.34 €</b>	<b>140,148.00 €</b>	<b>203,182.75 €</b>
<b>SO 4 - Improve the mainstreaming of biodiversity</b>				
ER 4.1 - Expertise of Belgian Dev. Coop. built	3,000.00 €	7,966.40 €	8,000.00 €	18,966.40 €
ER 4.2 - Biodiversity is mainstreamed in BDC activities	3,665.83 €	10,000.00 €	10,000.00 €	23,665.83 €
Salaries L. Janssens de Bisthoven + Han de Koeijer (6+2pm)	12,265.10 €	-3,526.02 €	50,378.00 €	59,117.08 €
<b>Total</b>	<b>18,930.93 €</b>	<b>14,440.38 €</b>	<b>68,378.00 €</b>	<b>101,749.31 €</b>
<b>SO 5 - Improve knowledge on MRV (&amp; indicators)</b>				
ER 5.1 - Expertise of DGD and RBINS built	5,400.41 €	2,917.20 €	3,000.00 €	11,317.61 €
ER 5.2 - Methodologies are available	11,000.00 €	8,518.37 €	20,500.00 €	40,018.37 €

Salaries M. Vanhove, A.-J. Rochette (2+9 pm)	12,895.65 €	-1,534.24 €	38,236.00 €	49,597.41 €
<b>Total</b>	<b>29,296.06 €</b>	<b>9,901.33 €</b>	<b>61,736.00 €</b>	<b>100,933.39 €</b>
<b>SO 6 - Raise awareness &amp; built capacities on ABS NP</b>				
ER 6.1 - DGD and RBINS familiar with Nagoya Protocol	3,964.38 €	4,989.60 €	5,500.00 €	14,453.98 €
ER 6.2 - Awareness is raised	500.00 €	-1,509.42 €	19,500.00 €	18,490.58 €
Salaries M. Vanhove (2 pm)	-1,278.84 €	4,030.44 €	17,163.00 €	19,914.60 €
<b>Total</b>	<b>3,185.54 €</b>	<b>7,510.62 €</b>	<b>42,163.00 €</b>	<b>52,859.16 €</b>
<b>Coordination and management</b>				
ER - Programme is efficiently, effectively managed	1,151.46 €	457.17 €	2,000.00 €	3,608.63 €
Salaries L. Janssens de Bisthoven, V. Pinton, M. Agarad (6+12+12 pm)	16,521.57 €	-7,150.14 €	113,629.00 €	123,000.43 €
<b>Total</b>	<b>17,673.03 €</b>	<b>-6,692.97 €</b>	<b>115,629.00 €</b>	<b>126,609.06 €</b>
<b>TOTAL GENERAL</b>	<b>87,159.37 €</b>	<b>43,268.47 €</b>	<b>1,115,658.00 €</b>	<b>1,246,085.84 €</b>

12/05/2016

For reference, the original budget as determined by the 5 year plan is given:

SO 1 - Strengthen the scientific and technical knowledge base				2016
Expected result	Activities	Target/year	Amount/unit	
<b>ER 1 - Scientific and technical expertise is built</b>	- Individual grants	15	4,000 €	60,000 €
<b>ER 2 - Quality knowledge is produced</b>	- Collaborative projects with institutions			199,550 €
<b>Ancient IMAB</b>	All instit. projects			124,550 €
	OBPE (Burundi)			22,000 €
	ICCN (RDC)			24,000 €
	Bénin (UAC)			25,500 €
	Kisangani			27,050 €
	Coherens			26,000 €
<b>Ancient GTI</b>	All projects			75,000 €
	project 1*			15,000 €
	project 2			15,000 €
	project 3			15,000 €
	project 4			15,000 €
	project 5			15,000 €
<b>ER 3 - Monitoring data yield indicators</b>	Pilot projects	2	10,000 €	20,000 €
<b>ER 4 - Scientific outputs accessible</b>	Production of tools (incl Abc Taxa)		50,000 €	50,000 €
	ABC TAXA	1	25,000 €	25,000 €
	Other	1	20,000 €	20,000 €

	Dissemination activities (varia)	lump sum		5,000 €
<b>Total activities</b>				<b>329,550 €</b>
<b>Salaries (2 scientific, 0,3 technical B)</b>				150,657 €
Total with salaries				<b>480,207 €</b>
SO 2 - Enhance the information base				
<b>ER 1 - Expertise in information flows is built</b>	- Enabling activities (training)	4	12,500 €	50,000 €
<b>ER2 - Information flows are improved</b>	- Collaborative projects with institutions	5	12,100 €	60,500 €
<b>ER 3 - Information used in governance</b>	- Networking activities	5	5,000 €	25,000 €
<b>Equipment ICT &amp; technical development</b>		lump sum		4,000 €
<b>Total activities</b>				<b>139,500 €</b>
<b>Salaries (1,5 scientific, 0,3 technical B)</b>				67,897 €
Total with salaries				<b>207,397 €</b>
SO 3 - Contribute to awareness raising				
<b>ER1 - Baselines provide insight on awareness level</b>	- Pilot studies (indicators & baselines)	1	10,000 €	10,000 €
<b>ER 2 - Awareness and engagement are raised</b>	- Projects in countries	5	15,000 €	75,000 €
	- Activities in Belgium	1	5,000 €	5,000 €
<b>Total activities</b>				<b>90,000 €</b>
<b>Salaries (0,5 scientific, 0,2 technical B)</b>				50,148 €
Total with salaries				<b>140,148 €</b>
SO 4 - Improve the mainstreaming of biodiversity				
<b>ER 1 - Expertise of Belgian Dev. Coop. built</b>	- Training and information of staff	lump sum		8,000 €
<b>ER 2 - Biodiversity is mainstreamed in BDC activities</b>	- Provision of advice and support			10,000 €
<b>Total activities</b>				<b>18,000 €</b>
<b>Salaries (0,75 scientific)</b>				50,378 €
Total with salaries				<b>68,378 €</b>
SO 5 - Improve knowledge on MRV (& indicators)				
<b>ER 1 - Expertise of DGD and RBINS built</b>	- Knowledge acquisition by RBINS/DGD	lump sum		3,000 €
<b>ER 2 - Methodologies are available</b>	- Indicators on resource mob and poverty			500 €

	- Pilot projects on feeding data to indicators	see obj 1		20,000 €
<b>Total activities</b>				23,500 €
<b>Salaries (0,5 scientific)</b>				38,236 €
Total with salaries				61,736 €
SO 6 - Raise awareness & build capacities on ABS NP				
<b>ER 1 - DGD and RBINS familiar with Nagoya Protocol</b>	- Knowledge acquisition by RBINS/DGD	lump sum		5,500 €
<b>ER 2 - Awareness is raised</b>	- Projects to be determined (in BE at first)	lump sum		19,500 €
<b>Total activities</b>				<b>25,000 €</b>
<b>Salaries (0,25 scientific)</b>				17,163 €
Total with salaries				<b>42,163 €</b>
SO 7 Coordination and management				
<b>ER - Programme is efficiently, effectively managed</b>	- Coordination, networking, communication	lump sum		2,000 €
<b>Total activities</b>				<b>2,000 €</b>
<b>Salaries (0,5 scientific, 1 tech B, 0,5 tech C)</b>				113,629 €
Total with salaries				<b>115,629 €</b>
Total activities				<b>627,550 €</b>
Total with salaries				<b>1,115,658 €</b>
Administrative costs (7,75%)				<b>86,500 €</b>
<b>Grand total</b>				<b>1,202,158 €</b>

## Staff 2016

**The 2016 work programme will cover the salary costs of the following staff members:**

1. Dr. Janssens de Bisthoven Luc (12 person-months, PM): Management and coordination, policy support (COORD, SO4)
2. Dr. Muhashy Habiyaremye François (12 PM): Biodiversity monitoring (SO1)
3. Dr. Susini Marie-Lucie (12 PM): Taxonomy officer for GTI and support for CHM teaching activities (SO1, 2, 3)
4. Ir. de Koeijer Han (12 PM): Biodiversity information management (SO2, SO3 and SO6)
5. Dr. Baetens Katrijn (6 person-months (PM)): Ecosystem management, modelling (SO1, 1.2.4.(D) marine modeling)
6. Dr. Vanhove Maarten (12 PM: SO1, 4, 5, 6): MRV, protocol of Nagoya, awareness, cooperation with Klimos.
7. Pinton Vincent (12 PM): Accounting and logistics (COORD)

8. Vrancken Kristien (12 PM, 80%): Graphics, layout, web development for the GTI, IMAB and CHM programme components (SO1, 2, 3).
9. Agarad Mariam (12 PM, 60%): secretariat and logistics (COORD)
10. Ir. Anne-Julie Rochette (12 PM, 100%): MRV, protocol of Nagoya, awareness, cooperation with Klimos, CEBioS advice to the 'drawing rights' from DGD and the diplomatic posts.

**In addition, the programme will receive considerable support from other RBINS staff:**

- C. Hoedemaeker (RBINS, Publication Unit) involved in AbcTaxa desk-editing
- E. Verheyen will implement activity under SO1, expected result 1.2.3. (C) (cooperation with UNIKIS).
- B. Lauwaert (RBINS-MUMM) will provide help for all matters related to marine modeling.
- Patrick Luyten for supporting marine modeling activities, a.o. in Vietnam.
- Y. Samyn (RBINS), chief editor for AbcTaxa, involved in the redaction of contents and general coordination.
- About a dozen researchers and technical staff will be involved in the training activities, notably in the fields of taxonomy and biodiversity monitoring (SO1).
- Several IT experts will offer their technical support for the hosting and management of websites (CHM) and for the set-up of the helpdesk related to the modelling of coastal ecosystems in the marine modeling activity.
- Staff from the communication department will offer support in the promotion of the activities of the programme of work.
- Staff from the Accounting Department will help V. Pinton in processing and taking care of all the financial transactions.

## Table 2: summary of main institutional partnerships

It should be noted that when partners countries are promotor of a project or programme in cooperation with RBINS, they contribute in matching funds between 10 and 50 % with own means. This ensures ownership and a sustainable approach.

Active continuous partnerships are marked in green

Formal agreements signed by the RBINS
Institute of Ecology and Systematics, Havana, Cuba (2006)
National Museum of Natural History of Havana City, Cuba (2006)
Institute of Ecology and Biological Resources, Hanoi, Vietnam (2007)
Institut Congolais pour la Conservation de la Nature (ICCN), Kinshasa, D.R. Congo (2007)
Université de Kisangani, Kisangani, D.R. Congo (2010)
WWF and ERAIFT, D.R. Congo (2010)

Institut National pour l'Environnement et la Conservation de la Nature (OBPE), Burundi (2010)
Instituto del Mar del Peru, Callao, Peru (IMARPE has become a formal cooperation since September 2014)
Institute of Marine Environment and Resources, Hai Phong, Vietnam (IMER will become formal cooperation in 2015)
Faculté des Sciences Agronomiques de l'Université d'Abomey-Calavi, (UAC, Benin (2014))

Main CHM partners since 1999
<b>Formal agreement</b>
Institut National pour l'Environnement et la Conservation de la Nature (OBPE), Burundi
<b>Long term partnerships (CHM network)</b>
Ministère de l'Environnement et du Développement Durable, Burkina Faso
Direction Générale des Forêts et des Ressources Naturelles, Benin
Centre National de Floristique, Université de Cocody, Abidjan, Côte d'Ivoire
Ministère de l'Environnement, Conservation de la Nature et Tourisme, D.R. Congo
Direction Nationale de La Biodiversité et des Aires Protégées, Guinea
Instituto da Biodiversidade e Áreas Protegidas (IBAP), Guinea-Bissau
Ministry of Environment, Science and Technology, Ghana
Ministère de l'Aménagement du Territoire, de l'Eau et de l'Environnement (MATEE), Morocco
Conseil national de l'Environnement pour un Développement durable (SE/CNEDD), Niger
Ministère de l'Aménagement du Territoire et de l'Environnement, Algeria
Agence de l'Environnement et du Développement Durable, Ministère de l'Environnement et de l'Assainissement, Mali
Commission des Forêts d'Afrique centrale (COMIFAC)
South Asia Co-operative Environment Programme (SACEP)

Partnerships under consideration
Institut Supérieur de Conservation de la Nature, Environnement et Tourisme, D.R. Congo
NEMA, Kenya
Ministry of environment, Tanzania
Institut de recherches Halieutiques et Océanologiques du Bénin (IRHOB)

**Still in partnership but not in active list funded by DGD, because not in official partner countries:**

Semi-formal agreements (marine modeling) 2008-2012
Numerical Modeling Laboratory of Oceanic Processes, Instituto Oceanografica, Univ. Sao Paulo, Brazil
Bandung Institute of Technology, Bandung, Indonesia
National Institute of Oceanography, Goa, India
National Marine Environment Forecast Centre, Beijing, China
Centro de Investigaciones Oceanográficas e Hidrográficas, Colombia (since 2011)
Ministère de l'Environnement, de la Protection de la Nature et du Développement Durable, Cameroon
Centro de Investigaciones Oceanográficas e Hidrográficas, Colombia (since 2011)
Office National pour l'Environnement, Madagascar

## **Specific objective 1. The RBINS strengthens the scientific and technical knowledge base on biodiversity and on its linkages with ecosystem services and poverty reduction.**

### ***Background***

Despite technological advances such as DNA barcoding or cyber taxonomy and large scale programmes such as the European EDIT or the United States' PEET project, taxonomic knowledge remains scarce and there seems to be only little, if any, speeding up of the rates of species description. To make matters worse, capacity needed to maintain and build taxonomy and taxonomic collections is fragmented or even non-existing in developing countries where the bulk of biodiversity is situated. Governments, through the Convention on Biological Diversity, have acknowledged the existence of this problem and have termed it the "taxonomic impediment". To alleviate this obstacle the Global Taxonomy Initiative (GTI) has been installed and made operational. One of the staff of the DGD-unit at RBINS is the Belgian focal point for GTI. In Belgium, the Royal Belgian institute of Natural Sciences, as the National Focal Point to the GTI, coordinates and organizes the activities needed to implement the objectives of the GTI.

In 2015, activities will keep on focusing on the provision and facilitation of taxonomic training both in Belgium and in our partner countries: transfer of technology to selected institutions, delivery of taxonomic expertise to colleagues in the South, and access of taxonomic data via our website (<http://www.taxonomy.be/>). Whenever possible, we will orientate activities such as research projects so as to favour the integration of a poverty-reduction vision. We will continue to support the series Abc Taxa by the publication and distribution of one new manual, along with the distribution of already published manuals. Through two of its former sub-programmes, "Tackling the taxonomic impediment" (GTI) and "Supporting biodiversity inventories, monitoring and assessments" (IMAB), now re-named under SO 1, our cooperation programme is strengthening the scientific and technical knowledge base on biodiversity. It does so by capitalizing on the robust expertise of RBINS in the following aspects : i) the identification, monitoring and assessment of components of biodiversity (from taxonomic identification to ecological studies), (ii) the study and modelling of ecosystem functioning and (iii) the scientific foundations of conservation biology. Our mission of building scientific capacities in developing countries has proven efficient and will remain central in the on-going framework programme.

It should be noted that CEBioS provides short term capacity building without the objective of obtaining a degree (Ms or PhD). However, many scientists are in the process of obtaining their thesis through research and CEBioS directly contributes to obtaining this degree through access to tools, material and knowledge. Therefore, in the logframe the number of graduates is given as a target, albeit being indirect or 'proxy'.

## SO1 and the Sustainable development Goals

2.a Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development and plant and livestock gene banks in order to enhance agricultural productive capacity in developing countries, in particular least developed countries

4.b By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries

6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

12.2

By 2030, achieve the sustainable management and efficient use of natural resources

14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries

15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements

15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development

15.b Mobilize significant resources from all sources and at all levels to finance sustainable forest management and provide adequate incentives to developing countries to advance such management, including for conservation and reforestation

### **Expected results**

1.1. Scientific and technical **expertise** is built to acquire knowledge

- individual grants (competitive call)

1.2. Quality scientific **knowledge** is produced to serve science-based policy

- A : workshops in South (competitive call)
- B : institutional partnership with ICCN (RDC), OBPE (Burundi), UAC (Bénin)
- C : academic support to UNIKIS
- D : institutional partnership with IMER (Vietnam) and IMARPE (Peru)

1.3. Monitoring data is fed into **national indicator processes**

1.4. Scientific **outputs** are made accessible to users

## **Expected result 1.1 Scientific and technical expertise is built**

### **Description:**

Individual grants for short term assignments are organised through competitive calls (study visits, participation in workshops or conferences, networking...) that will include the possibility of distance support (e.g. counselling and e-coaching). Such grants will primarily target early-career scientists and high level scientists who need access to specialised equipment (molecular lab, electron microscopy, digital photography...). These beneficiaries should preferentially come from partners which are eligible for a partnership agreement, and which Belgium included in their Programmes of Indicative Cooperation sectors with a clear link to biodiversity and poverty eradication.

### **Logframe (partim):**

Expected results (output)	Output indicators
<b>1.1 Scientific and technical expertise is built</b>	National authorities use the information provided by SO1 in the national indicator processes 12-18 students trained / year will produce: 8 posters and/or oral presentations given at national or international events/ year; 5 publications in scientific journals or general media/ year; 3 who graduate (Master or Ph. D.)/ year;
<b>Activities</b>	
1.1.1. organise the external call, selection and mobility of 12-18 trainees per year	
1.1.2. follow-up of the young scientists for scientific output and graduation	

Table 3: logframe (partim) for SO1, 1.1.

### **Activities:**

At the end of the year 2015, the 2015 trainees will be evaluated based on their scientific reports and on the evaluations from their Belgian tutors. In December 2015, we will launch a new call for proposals to select 15 trainees to be trained in 2016 (See table 1). Only GTI trainees who benefitted from our support in 2014 and/or 2015 will be eligible in 2016. The selected projects will have not only to tackle taxonomic issues but also to clearly state their relevance towards poverty eradication and multiplier possibilities.

The call for proposals will be launched at the end of 2015 (mid-December) and open for applications for 2 months (until mid-February 2016). As usual, applicants will be able to apply directly on <http://www.taxonomy.be> through an online form. The selection procedure will take place from mid-February to mid-March 2016. Applications will be evaluated by both GTI team members and by a selection

of Belgian experts (from the RBINS) according to their research field. The study visits will start at the beginning of April 2016. Study visits will last 4 weeks.

While selecting trainees, priority will be given to applicants living and working in one of the 14 priority partner countries and/or working in institutions linked to the RBINS by a MoU.

**Budget:**

Activities	Targets	Operations	Missions	Total
<b>1.1.1.Organise the external call, selection and mobility of 15 trainees coming from the partner countries</b>	<b>Students in taxonomy and professional taxonomists in the South</b>			
Launch and dissemination of the external call to the relevant partners and networks				
Selection of the trainees (max. 15 people) by the Belgian GTI team and RBINS taxonomists				
Organisation of the trainings (logistics)				
15 foreign taxonomists come to Belgium and stay for 3-4 weeks to perform their taxonomic research	Students in taxonomy and professional taxonomists in the South	60,000		60,000
<b>1.1.2.Follow-up and assessment of the projects</b>	<b>Students in taxonomy and professional taxonomists in the South</b>			
Follow-up of the young scientists for scientific output and graduation	idem			
Assessment of the projects	NA			
Total		60,000		60,000

Table 4: Budget for SO1, 1.1.

***Expected result 1.2 Quality scientific knowledge is produced and used for the better understanding and management of biodiversity in partner countries***

**Description:**

**Collaborative projects will be organised with partner institutions** that cover training, research support to improve small infrastructures (such as material for scientific collections, lab work, training in the use and application of models to manage ecosystem services) and networking. Such projects will be undertaken with well-established partners that have signed a partnership agreement; there are a number of selection

criteria for such partnerships, such as a significant operational role and mandate in the national strategy and policies at national and international level, a positive track record of past cooperation (e.g. grants, work on archives, workshops, and trainings), requests for additional cooperation. This expected result focuses on the generation and appropriate use of scientific knowledge related to taxonomy, ecology and ecosystems (function, services). Due to historical reasons, budget line and content reasons, **it is subdivided into four parts (A to D)**, each dealing with one aspect and related to different partners and concepts of work (see below).

All activities undertaken to achieve this expected result, whether training workshops, research projects or equipment support, are developed in the framework of long-term partnerships. They all intend, in addition to the mentioned expected result, to consolidate partner institutions and enhance their role in their respective countries.

### **Outcome per institutional partner (SO1-1.2., B, C, D, with references to 1.3-1.4))**

Scientists apply their expertise, enabling them to better study and understand biodiversity and ecosystem services linked to poverty eradication and better promote and disseminate the value of biodiversity to society, with enhanced access to and use of field guides, manuals, lexica and tools. Rangers monitor and report habitat changes of areas of high interest for biodiversity (1.2.)

The staff of the partner institutions carry out research more efficiently and effectively on biodiversity and ecosystem services (1.2.,1.3., and 1.4. )

National indicator processes receive input (1.3)

#### **1.2 Quality scientific knowledge is produced / B**

##### **ICCN (DR Congo)**

after five years, ICCN is able to better monitor the dynamics of habitats in its protected areas, both at the implementation level (rangers using tools), as at the management level (reporting, analysing trends and deciding on specific interventions). ICCN has a better knowledge of the value of the ecosystem services and can use this information to promote green economy such as eco-tourism.

##### **INECN (Burundi)**

after five years, INECN is able to better monitor the dynamics of habitats in its protected areas, both at the implementation level (rangers using tools), as at the management level (reporting, analysing trends and deciding on specific interventions). ). INECN has a better knowledge of the value of the ecosystem services and can use this information to promote green economy such as eco-tourism, mushroom collection, pollination, etc.

##### **UAC (Benin)**

after five years, UAC and partners (AVIGREF, CENAGREF) is able to better provide scientific answers to monitor the dynamics of habitats in its protected areas and buffer zones (Penjari), both at the implementation level (rangers using tools), as at the management level (reporting, analysing trends and deciding on specific management and conservation interventions, policy briefs), especially concerning pastoralism and bush fire and its implications for poverty and biodiversity. The conflict between nature conservation and pastoralism is better understood and appropriate actions are undertaken to ease this tension for the benefit of the people and the wildlife. The dynamic cycle of fire is better understood in order to take appropriate actions to control it more optimally for the benefit of people, wildlife, and biodiversity in general. IMER (Vietnam)

**1.2 Quality scientific knowledge is produced / C**

**UNIKIS and CSB (DR Congo)**

after five years, UNIKIS and CSB are more able to investigate the biodiversity in the tropical rain forest linked to poverty reduction, both at the implementation level (research), as at the management level (reporting, analysing trends and deciding on specific interventions) and are part of the global scientific community with more scientific output and extra-muros funding. CSB and UNIKIS are more able to carry out research in promising fields which can help support the local green economy, such as collection of mushrooms, fisheries, insect consumption etc.

**1.2 Quality scientific knowledge is produced / D**

**IMARPE (Peru)**

after five years, IMARPE is able to better monitor the dynamics of habitats in marine upwelling zones of the Peruvian coast, enabling them to inform the fisheries authorities which measures should be taken in order to promote sustainable fisheries, which is to the benefit of the local fish industry and the marine biodiversity.

**IMER (Vietnam)**

after five years, IMER is able to better monitor the dynamics of habitats in shallow ecosystems with endangered coral reefs such as Halong Bay, and hence to make the most ecologically sensitive decisions for management, taking into account the ecosystem services for the local communities.

**Logframe (partim):**

Expected Results	Output Indicators
<p><b>1.2 Quality scientific knowledge is produced</b></p> <p><b>(4 parts: A, B, C, D)</b></p> <p>1.2.1.(A) taxonomic research is strengthened</p> <p>1.2.2.(B). the monitoring of habitats for the management of ecosystems is strengthened</p>	<p><b>A</b></p> <p>number of trained students / year will produce ; publications in scientific journals and general media; graduates (Master or Ph. D.); in-country training courses as multiplier effect and additional people trained. Results will be valorised through publication in renowned science journals. They will also be used under SO1.4. A and B to produce vulgarisation tools.</p> <p><b>B</b></p> <p>At least one training per country is organized and is followed by two applications campaigns on the field. 30 people trained in the habitat monitoring, Syllabi produced and/or updated (see also 1.4.B) 4 articles published in peer reviewed journals, 4 lexicons will be finalized and used, see also SO1-4b over 5 years : 2 PhD students, 6 master students finalised their thesis, 5 oral contributions (participation to meetings, conferences, lectures, seminars...) 5 information exchange sessions have been organised in relation with poverty reduction related subjects of the studies.</p> <p><b>C</b></p>

<p>1.2.3. (C). taxonomic research and the monitoring of lowland forests at the University of Kisangani is strengthened</p> <p>1.2.4.(D) Application of the COHERENS model for integrated coastal management and monitoring of ecosystems</p>	<p>3 PhD students identified  3 PhD students/year followed training supervised by expert in Belgium/elsewhere (total=15)  For 3 PhD students: 1 local visit/2years by supervisor (total=9)  1 'atelier de restitution'/year for the 3 PHD students after their training framed in the context of poverty reduction related subjects of the studies (total=4+the PhD defence)  2 publications in scientific journals/PhD student (total=6).</p> <p>D  A review of the presentation of the specific research questions of the partner institutes  Number of scientific output (presentations, conference)  Number of qualified trainee ex-post reports within the visitors programme  3 policy briefs are to be produced by the partners  Documentation of the Developed modules for COHERENS available.</p>
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<h2>Activities</h2>	
<p>1.2.1.(A) Supporting taxonomic research through  Prospecting new partnerships in e.g. East Africa  Call for 4-5 'classical' projects  Follow-up of projects and publications/dissemination/reporting</p>	
<p>1.2.2.(B). Supporting the monitoring of habitats for the management of ecosystems through  For DRC, Burundi, Bénin</p> <p><b>Training + Follow up</b></p> <ul style="list-style-type: none"> <li>•Workshops + Follow up subsequent practice</li> <li>•Syllabi preparation</li> <li>•Expert missions</li> <li>•Supplying Basic Equipment and documentation</li> <li>•Collecting data on habitats state – Data base (feeding + exploitation )</li> <li>•Lexica (Redaction + Publication)</li> </ul> <p><b>Promotion of research</b></p> <ul style="list-style-type: none"> <li>•Contribution to the identification of the topics</li> <li>• Supporting theses: preparation + publications</li> <li>•Help to Implement the recommendations issued by research</li> <li>•Attending the yearly Coalition pour la Conservation au Congo (CoCoCongo Coalition pour la Conservation au Congo –CoCoCongo Une plateforme d'appui à la conservation des Aires Protégées regroupant l'ICCN et ses partenaires) meeting</li> </ul>	
<p>1.2.3. (C). Cooperation with the University of Kisangani for the taxonomic study and the monitoring of lowland forests through  Selection of 3 PhD candidates with a relevant research programme  Training of the selected PhD candidates in Belgium (RBINS, RMCA, Flemish and Francophone universities, &amp; when necessary foreign experts)  Expert missions for local follow up of progress made by 3 PhD students  Financial support for field work, equipment, documentation, transport</p>	

Financial support for 3 PhD thesis defence
<p>1.2.4.(D) Application of the COHERENS model for integrated coastal management and monitoring of ecosystems through</p> <ul style="list-style-type: none"> <li>Setting up and implementing partnerships</li> <li>Supporting development of web sites</li> <li>Supporting visitor programmes</li> <li>Facilitating communication between independent participants</li> <li>Distance E-coaching</li> <li>Producing marine policy reports</li> <li>Coaching towards an independent use of the COHERENS model and its applications</li> <li>Coaching in developing site-specific applications with the code in function of policy needs, i.e. develop a site specific biological module or wastewater module</li> <li>Workshop for advanced users</li> <li>Support with scientific arguments for stakeholders</li> <li>Establishing links between physics, sedimentation and biodiversity is scientifically documented.</li> </ul>

Table 5: logframe (partim) for SO1, 1.2.

## Activity 1.2.1. (A). Supporting taxonomic research

1.2.1.(A) taxonomic research is strengthened

- Prospecting new partnerships in e.g. East Africa
- Call for 4-5 'classical' projects
- Follow-up of projects and publications/dissemination/reporting

### Introduction

**The first part A (activity 1.2.1. of expected result 1.2.),** 'taxonomic research is strengthened', specifically involves **workshops and the application of these workshops through joint field work** with students and staff in selected partner countries of the Belgian cooperation. The output of these trainings are scientific publications, as well as field manuals to guide the professional in his work to better study and understand the biodiversity of selected fragile or hotspot ecosystems, in order to produce enough knowledge for policy purposes of conservation and sustainable management at the level of species, landscape, ecosystem. The aspect of linking the conservation of biodiversity to sustainable development is always taken into account, especially by demonstrating in the field with the field actors what kind of ecosystem services are beneficial to the local people and communities, and which social, human and ecological costs would result from the disappearance or ill-functioning of these ecosystem services. The trained persons will act as 'ambassadors of biodiversity and/or development' in their country and generate multiplier effects. This applies also to the parts B, C and D. The selection of such interventions happens through competitive calls in the framework of the Global taxonomy Initiative (GTI).

### Taxonomic workshops in situ

A **new internal call for proposals** will be addressed to RBINS taxonomists in 2016. The same selection criteria as those set in 2015 will help select the projects.

As usual, at the end of the project, researchers will be asked to provide a list of their outputs such as publications in scientific journals, posters, presentations given at international meetings, etc. The outputs will be published on our website <http://www.taxonomy.be> for public awareness and knowledge dissemination. The network of CHMs will also be used, whenever possible, in order to disseminate the project results to a broader audience. All participants will be asked to fill in an evaluation form as well.

In 2016, we plan to fund a maximum of 4 projects but this is subject to change regarding the number and quality of received submissions. If more than 4 good-quality project applications are received, priority will be given to projects already initiated in 2014 or 2015. At the end of the projects, the promoters will need to add an evaluation together with the report. Each project will be allocated 15,000 €.

## **Cooperation with selected institutes in privileged partner countries**

This part of the programme will enable us to provide our partners with equipment (such as microscopes, books, *etc.*) necessary for their research.

As usual, in 2015, support will be provided according to *ad hoc* requests made by our institutional partners and depend upon available funds.

## **GTI alumni workshop**

In 2016, for the first time, we plan to organize a GTI alumni workshop.

Rich from the experience she gained at the IFS workshop held in Ouidah in December 2014 where Marie-Lucie Susini was invited as a facilitator and biodiversity specialist, she would like to organise a GTI alumni workshop in 2016.

The GTI NFP has a vast pool of GTI alumni. The first external call to provide access to Belgian collections and expertise took place in 2004. Since then, a total of 13 external calls have been launched providing funding to more than 130 students and young researchers from our partner countries. Most of our GTI alumni come from French speaking countries located in West and Central Africa. Unfortunately, nothing has been done in the past to stay in touch with our alumni and we want to change this!

We would like to organise a special GTI alumni workshop in 2016. This workshop will take place in West-Africa for our francophone alumni (more than 80% of our alumni). The best choice would be Cotonou, Benin since Benin is one of our main partner countries and we have a lot of GTI alumni from the University of Abomey-Calavi. This workshop will be a perfect occasion to follow the evolution of our former trainees, get material for public awareness (on [taxonomy.be](http://taxonomy.be) + national CHM websites), stimulate lively exchanges of best practices and create a real GTI alumni network!

First, we plan to organise an online survey on [www.taxonomy.be](http://www.taxonomy.be) for all francophone GTI alumni to testify on their current position and research activities, the outcomes of their work since their last visit in Belgium and other relevant information (like what kind of support they would need...). Moreover, this survey will be a very interesting resource material for our external mid-term assessment.

Using the online survey, we will select a panel of the most interesting testimonies and invite the young researchers to participate in the alumni workshop (12 to 15 people). We will try to assure a good gender balance in the selection.

The workshop will be a combination of plenary presentations and active group sessions. GTI alumni will be able to present their work. The Belgian facilitator(s) will give several presentations on current CEBioS activities, on funding opportunities by Belgian and international donors, on scientific writing (which is often a limitation for French-speaking young scientists), etc.

A day will be dedicated to an active workshop where GTI alumni will produce a short article of scientific popularization in order to explain their work. This article will be posted to their national CHM websites and [www.taxonomy.be](http://www.taxonomy.be). These articles are one of the mandatory outputs from the contracts they have signed and from our 2014-2018 pluriannual plan (production of vulgarisation tools, p. 53).

We will also have discussions on how the results of the research can be used to influence policy makers in the partner countries.

The current budget estimate for the workshop is 20,000 €. Remaining funds from 2014 and 2015 from budget line 1.2.1 (15,000 €) could be used for this workshop. The remaining 5,000 € for ML Susini and another CEBioS staff member's trip will come from budget line 1.4.2 (dissemination of tools).

It will be nice to secure sufficient fund in the future to organise these workshops on a regular basis (every 3 years for instance - each time a cycle of 'GTI students' ends).

**Budget for 1.2.1. (A) :**

Activities	Targets	Operations	Missions	Total
<b>Supporting taxonomic research</b>				
Prospecting new partnerships in east Africa	Taxonomists in east Africa			
Launch and dissemination of the internal call for in-country courses/ workshops	RBINS researchers			
Selection of the applications and expert mobilisation for in-country courses				
Realisation of the projects in the South	RBINS researchers + relevant experts in the South	55,000	20,000	75,000
Follow-up of the projects				
Assessment of the projects				
Total		55,000	20,000	75,000

Table 6: budget for SO1, 1.2.1. (A)

## Activity 1.2.2. (B). Supporting the monitoring of habitats for the management of ecosystems

### 1.2.2.(B). For DRC, Burundi, Bénin

Supporting the monitoring of habitats for the management of ecosystems through

#### **Training + Follow up**

- Workshops + Follow up subsequent practice
- Syllabi preparation
- Expert missions
- Supplying Basic Equipment and documentation
- Collecting data on habitats state – Data base (feeding + exploitation )
- Lexica (Redaction + Publication)

#### **Promotion of research**

- Contribution to the identification of the topics
- Supporting theses: preparation + publications
- Help to Implement the recommendations issued by research
- Attending the yearly Coalition pour la Conservation au Congo (Coalition pour la Conservation au Congo –Une plateforme d'appui à la conservation des Aires Protégées regroupant l'ICCN et ses partenaires) meeting

### Introduction

The second part B (activity 1.2.2. of expected result 1.2.) is very much related to the expertise present at RBINS, required for the implementation of the CEBioS programme on **habitat monitoring within tropical ecosystems**, especially protected areas. Part B concerns our **institutional partnerships** about habitat monitoring in Africa (RDC, Burundi, Bénin), while parts C and D concern academic support to UNIKIS and CSB, and marine modeling in Peru and Vietnam, respectively.

The enhancement of the capacities of our partners is mostly focused on the sector of **forests**, which is one of the most relevant ecosystem to the Belgian Development Cooperation. Our special interest in tropical forests is also justified by the enormous value of their biodiversity and the considerable value of the services it provides for local human development (food, medicines, fuel, climate change mitigation...) as well as global ecological stakes (such as carbon sequestration). Ecosystem functioning is what guarantees the existence of the ecosystem services necessary for human activities. Being able to evaluate future situations or scenarios on the basis of existing conditions and predict changes in biodiversity and ecosystem functioning is thus not only crucial for the design and implementation of conservation plans but also for assessing the availability of ecosystem services and its potential impact on poverty. This part contributes also the most to research on ecosystem services and individual plant species having an economic and ecological value. It confers thus a certain scientific credibility to CEBioS concerning its own expertise, since its direct interventions in the field combine training and research.

## **Digitisation and dissemination of archives on national parks:**

In addition to these activities, we will pursue the digitisation of archives on national parks. We will proceed with the digitisation of paper publications, as well as the encoding of data. The website with all the relevant information is publicly available at <http://www.apncb.be> . Apart from D.R. Congo and in Burundi where these publications have been shipped, they will be sent also to the UAC in Bénin.

## **Partner countries of the Belgian cooperation targeted in Africa: D. R. Congo, Burundi and Benin.**

1. Within **DR Congo**, this component contributes specifically to the institutional strengthening of the **ICCN**, by training rangers in habitat monitoring and by contributing in a participative way to the production of vulgarization tools, especially the lexicons of the vegetation dynamics of protected areas managed by the ICCN. It is actually almost a kind of action research, since the rangers actively collect data which can be used both for the management of the parks and the research by students coming from the universities of Bukavu, Goma, Lubumbashi, Kinshasa and others. Our partnership with the ICCN for the period 2008-2012, as renewed since 2013, according to the terms of reference of this collaboration remains a pillar of this programme. Our capacity building activities have been supporting the 'Law Enforcement Monitoring' (LEM) programme of the ICCN, which has ensured the follow-up of the application of wildlife protection legislation and the monitoring of illegal wildlife trade use. The data generated on wildlife and habitats serve as a basis for the management of the protected areas, as well as the production of educative lexica for awareness and dissemination purposes. In 2016, the effort will further focus on the applications of the most relevant results from the point of view of interactions between fauna with their habitats and ecosystem management in selected habitats of the rain forest (area of Kinshasa) and the clear forests (Miombo) and dry forest (Muhulu, Katanga). Simultaneously, we will continue to boost the assessment of ecosystem services in the remnant forests of the RDC Bombo Lumene.
2. In **Burundi** (*The following plans for Burundi are on provision of the current security and political evolution in Burundi*), the same concept is applied with some nuances to the **OBPE**, responsible for the protected areas, **mostly in hill or highland ecosystems**. Our successful work with ICCN inspired "Office Burundais pour la Protection de l'Environnement (OPBE)", which expressed its interest in starting a similar collaboration with us since 2010. From 2013, the staff trained through our programme on the monitoring of the dynamics of habitat began to collect has been collecting data on these changes, particularly from reference stations chosen on the basis of their high degree of vulnerability and / or their potential value in green economy. The transect followed in the Kibira National Park, a rare place to monitor chimpanzees in these fragments of mountain forests is one of the interesting stations. In 2016, this activity will be consolidated by a campaign of new observations on the evolution of the habitats in order to increase the data serving to interpret the interrelations between wild animals with their habitats. The OBPE is preparing a lexicon for Kibira and Ruvubu national parcs.

3. In **Bénin**, this concept is applied as well, however with special attention to the ecological issues typical for the **Sudanese and Sahelian zones**, where overgrazing by **pastoralism** and **bush fire prevail as important structuring factors and stressors**. **The work in Bénin** combines the unique participation of the Université Abomey Calavy (UAC), together with the CENAGREF (responsible for the national parcs) and a consortium of village representatives (AVIGREF<sup>1</sup>) who have their seat in the 'conseil d'administration' of the CENAGREF. This highly participative process should ensure that the research carried out by UAC remains well connected to the realities of the field and that the recommendations take into account the often conflicting agendas of nature conservation and economic development through sustainable development concepts. This activity enables RBINS experts to transfer on demand their knowledge to academicians and students of partner institutions by involving them in the various stages of their research projects. The Université d'Abomey- Calavi (UAC) in Benin expressed its strong interest in the methodology implemented in ICCN and OBPE parks. Following the formulation mission carried out by the RBINS delegates in 2014, formal agreement for a long term partnership was signed by the two institutions. UAC's scientific research on ecosystem dynamics is advanced. The Université d'Abomey- Calavi is drawing on our expertise in order to popularize this knowledge and valorize it for the management of ecosystems in Benin, more specifically the National Parc of Pendjari. As part of the 2016 programme, we will support the process of self-appropriation of scientific knowledge on the use of bush fire and their impacts on the habitats and animals in the Pendjari NP. Activities will consist mainly of :

- The observations regarding the impact of bush fire on the habitats will be collected by the personal of the Pendjari NP.
- The results will be recorded in a database by the UAC students.
- More research will be done by the UAC in order to consolidate the knowledge on bush fire and their impact on the habitats and components of biodiversity; the RBINS will contribute to identification of new topics and will support theses on this topic. At least one article on the results will be published.
- Our help will be provided to park rangers and other stakeholders to begin to implement recommendation inspired by the whole available knowledge.

### **Valorisation of results**

Obviously, many elements from the partnerships in Bénin, Burundi and RDC overlap. Exchange of skills, techniques and expertise, as well as best practices and lessons learnt will be promoted in the next years. Possible subjects which might be taken for a regional workshop or an event even in Belgium are 'bushmeat' and 'mushrooms', two ecosystem services very much related to forests, hence very relevant for e.g. the DGD strategy on environment. For 2016 OBPE will attend a regional CHM workshop in Bénin, hence allowing to have contacts with the partner UAC in Bénin for exchange of best practices.

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<sup>1</sup> Associations Villageoises de Gestion des Réserves de Faune

## Details per partnership

### 1. Partnership with ICCN in R.D. Congo

*(The cooperation with UNIKIS is explained under 1.2.3. (C))*

#### Input from the Belgian Embassy in Kinshasa

- The objectives of the CEBioS programme fit well into the strategic framework of the Ministry of Environment, Programme National d'Environnement, Forêts, Eau et Biodiversité (PNEFEB 2d especially the points (4) conservation of biodiversity and (5) strengthening of institutional capacities.
- Good cooperation with ICCN, UNIKIS, CSB, ERAIFT and UNILU is strongly encouraged.

#### Institutional partnerships and synergies in DR Congo

The cooperation framework of RBINS in RDC is based amongst others on a MoU, signed with ERAIFT, WWF, MRAC, Meise and RBINS.

The cooperation with ICCN is based on a MoU signed in 2008 for the period 2008-2012 and is automatically prolonged under silence procedure. The cooperation with ICCN is based on a series of ad hoc service contracts for small projects of ± 4-10,000 Euro. These contracts are standard and include parties, respective responsibilities and tasks, budget, timeline, and reporting obligations and are set up based on demand and mutual interests. The same applies for cooperation with universities in RDC, such as UNILU, UOB, UNIKIN and others, often in cooperation with ICCN. Due to the enormous surface of the country, the centralised bureaucracy of ICCN, it was until now estimated to be the most optimal way of working in DRC. Moreover, the initiated cooperation with VVOB in DRC in 2013 has now resulted into a full-fledged awareness project at the level of pilot vocational agronomy schools and will be implemented in 2015 under SO3 (awareness), as one of the selected projects in last call in 2014.

#### Monitoring of habitats, field work

- The 2016 activities are a follow-up of the programme carried out in 2014 - 2015 and this one consisted of applying of the results that were found most relevant during the period 2008-2013. An assessment of the data that were collected previously in the **Katanga province** (including the Parc National de l'Upemba, PNU) showed that remnants of dry forests of Muhulu type, which represent the most advanced stage and steady habitats (climax) in the area of woodland, were generally found on soils of termite mounds. This finding is particularly interesting in terms of conservation. Indeed we know also from the research carried out at the UNILU and the UGent (Mujinya 2012) that such soils extend on about 1/5th of the Zambezi basin. It is also known that each termite mound is characterised by very complex food chains (Malaisse 1978, 1997). This is

why the ICCN wishes to monitor the dynamics of habitats on termitosols, on a model site, where activities to promote the ecosystem services that are inherent to termite mounds will be carried out also. Since 2013, the woodland Reserve of Luswishi (30 km from Lubumbashi) has been used as the field of this initiative. Our agreement with the ICCN allows the UNILU to be involved.

- **In the RDC Bombo Lumene**, our 2016 programme will focus on observations on the forest regeneration favoured by the strengthening of their conservation after their destruction in 2013. Concerning the other protected areas, we will continue to help put in practice the capacities acquired by the rangers during the earlier work programmes through the supervision of the implementation of the 'LEM Habitats'. Both the rangers and students will be involved:

Training will be provided to the rangers, so as to help them to better use the LEM files to record the observations on the habitats in synergy with the young researchers who will investigate on the forests dynamics.

Miss Kamana, H. Florence (UNIKIN), Mr Baudouin Matuba (ERAIFT-ICCN) and Miss B. Bokoma Eveline, a new researcher attached to the RDCBL recently, will work along the transect installed in 2015 in the forest surrounded by savannah in the MUA locality. They will complement the delimitation of permanent plots on which they will assess the regeneration considering changes in the floristic composition and structure of secondary forests that dominate.

- **In the "Réserve transfrontalière de la Ruzizi"**, following the request that we received from the General Directorate of the ICCN, our support is asked to the UOB in order to update the knowledge of the reserve above, as reference for its restoration. This will be postponed until the security situation clarifies.

#### Monitoring of habitats, lexica

In addition the lexicon, whose data were gathered in 2013-2014 and included in a draft document (2015) on the habitats of the Itombwe Reserve, will be edited. This manual has the same relevance as lexicons published in the frame of the previous programme and it will increase the knowledge of the exceptional value of the Itombwe ecosystems and thereby it will support the process started by ICCN to include this southern part of the Albertine Rif into the World Heritage.

#### Summary and output

The support hence will consist in the following activities:

1. The monitoring of the forests regeneration favoured by the strengthening of their conservation after their destruction in 2013 in the RDCBL
2. Providing the baseline of the knowledge of the "Réserve Transfrontalière de la Ruzizi"
3. Publication of the lexicon on the habitats of the "Réserve Naturelles de l'Itombwe"
4. The dynamics of habitats on termitosols, on a pilot site in the 'Réserve de la Luswishi' .
5. The use of the data collected through the LEM programme and other available data to interpret the relations between habitats and fauna.

## 6. The provision of basic equipment for the herbaria.

As already outlined above, the promotion of ecosystem services will be an important component of the 2016 programme. This activity will be developed especially in terms of strengthening scientific knowledge.

- Publication of the results on the “Exploration of the stations of wild coffee in the mountains of the Réserve Naturelle de l’Itombwe; the harvest of biological material; gathering ethnobotanical and ecological data”. This work was carried out in the framework of the contract RBINS-UOB No. 2015 / So1-BES-2.2 / 63
- Support to a mission for data checking on the ecology of fungi species harvested by Mrs Biringanine Mugoli Elysee (UOB) during the field campaign carried out in the RNI by the team of Prof. Masumbuko Ndabaga Céphas (UOB) through the implementation of the contract mentioned above.
- Support to the 2nd field mission of Mr Rizinde Habimana Jean Claude (assistant at the UNIGOM) in the PNVi to complete the data of his memoir of DEA at the UNKIS, this in accordance with the contract of RBINS - UNIGOM N° 2015/SO 1-BES-2.2/62 implemented in 2015. Subject: “Contribution à l’inventaire et l’écologie des champignons comestibles du Parc National des Virunga sur l’axe Beni-Mutwanga-Masambo”. Supervision by Prof. Honorine Ntahobavuka Habiman (UNIKIS), Dr Jérôme Degreef (Meise Botanical Garden) and Dr François Muhashy Habiyaemye (RBINS).
- Continuation of the assessment of ecosystem services in the Kiswishi forests. This will require the support of the RBINS to the preparation of 2 PhD theses:
  - «Quantification et la monétarisation des services écosystémiques d’approvisionnement inhérents aux termitières des écosystèmes du Miombo » by **François Ntumba Ndaye** (assistant at the UNILU). This research is co-supervised by Prof Basil and Ngoie Mujinya Bazirake Schutcha (UNILU) and Dr François Muhashy (RBINS).
  - « Interactions interspécifiques et des conditions environnementales sur le comportement de construction des termites du genre *Cubitermes* dans le Katanga méridional » by **Patrick Kasangiji A Kasangiji** (assistant at the UNILU), under the supervision of Prof. Basile Mujinya Bazirake.

## 2. Institutional partnership with OBPE in Burundi

- A South Initiative (75000 Euro for 2015-2017) from VLIR-UOS has been approved where RBINS and OBPE are co-promoters and UB and VUB are promoters. It is about the monitoring of the dynamics of lake Tanganyika. The Belgian embassies of Burundi, but also from other countries bordering Lake Tanganyika expressed their interest. After three failed attempts in 2015 to start the project, due to the volatile political situation, CEBioS and VUB will try again in 2016 to launch the project, albeit with lower expectations, due to the difficulty to do field work.

First, some material for water analysis will be sent in February. A shift of funds from 2015 to 2016 will be asked to VLIR-UOS. With these funds, about 10 students of the Université du Burundi will be able to start field work, as far as the situation remains safe. A meeting with the Burundese colleagues might take place in summer 2016 in East Congo to evaluate the work progress.

- **Institutional partnership RBINS-OBPE, operational plan**

2016 is the last year of the 3 yrs cooperation agreement between RBINS and OBPE. This means that a new agreement needs to be made at the end of 2016, depending on an evaluation of the results, impact and political environment.

**Titre du programme: Programme de recherche, échange d'information, sensibilisation et conservation de la biodiversité au Burundi**

RESUME

Le programme de «Recherche, échange d'information, sensibilisation et conservation de la biodiversité au Burundi» vise à consolider les différentes composantes retenues dans le mémorandum d'accord 2014-2016 à savoir la recherche, l'échange d'information et la conservation de la Biodiversité au Burundi. Actuellement, on est à la troisième année de son exécution. Le présent plan 2016 vise à consolider le système de suivi de la dynamique des habitats dans trois parcs Nationaux de la Kibira, Rusizi. Il faudra également renforcer l'herbarium de l'OBPE. Un guide sur la flore et les habitats du Parc National de la Rusizi pour le suivi de leur évolution sera confectionnés. Trois publications seront confectionnées sur base des études faites sur le suivi de la dynamique des habitats et la faune batrachologique des milieux aquatique sera explorée. Ce Plan 2016 travaillera également sur les services écosystémiques dans le souci de visualiser la contribution des pollinisateurs à la productivité des cultures, les influences anthropiques sur la survie des pollinisateurs et la valorisation des rotins. Le plan 2016 vise également la sensibilisation de différents groupes cibles sur les problèmes de la biodiversité à travers des ateliers. Des ateliers de sensibilisation seront ainsi organisés dans le cadre du Protocole de Nagoya pour consolider un cadre de collaboration entre les chercheurs et les tradipraticiens sur l'accès aux ressources génétiques médicinales et du partage des avantages découlant de leur utilisation. Pour opérationnaliser de plus en plus le CHM-Burundais, un consultant sera engagé pour assister le point focal du CHM dans la collecte et la diffusion des informations. Les points focaux interinstitutionnels devront poursuivre des réunions périodiques pour assurer une plus grande implication et engagement et plus d'expertise technique. Il sera aussi question de produire du Bulletin Scientifique N° 2 dans sa nouvelle forme de bulletin Scientifique sur l'Environnement et la Biodiversité. Le projet aidera également à consolider un plan stratégique de la recherche sur la diversité biologique pour la mise en œuvre de la SNPAB.

RI1-Renforcement des systèmes de suivi de la dynamique des habitats et de la biodiversité pour une bonne conservation des aires protégées;

RI2-Evaluation et valorisation des services écosystémiques dans les aires protégées;  
RI3-Développement de la prise de conscience sur des questions pertinentes de la biodiversité;  
RI4-Renforcement des mécanismes d'échange d'information sur la biodiversité.

Pour cette année 2016, OBPE toujours avec l'appui de l'IRScNB voudrait poursuivre et finir la mise en œuvre du programme étant donné que c'est la dernière année.

## 2. OBJECTIFS DU PROJET

Le présent projet vient opérationnaliser le programme. Il doit donc s'inscrire dans son résultat attendu global qui est «La consolidation des mécanismes de suivi de la biodiversité, d'échange d'information, de sensibilisation du public pour la conservation de la biodiversité et des services écosystémiques au Burundi». Les résultats intermédiaires (RI) doivent rester les mêmes que le programme.

## 3. RESULTATS ATTENDUS ET ACTIVITES

### 3.1. Activités par résultat attendu

#### Résultat attendu 1: La dynamique des habitats et la biodiversité des aires protégées du Burundi sont mieux connues et comprises

Au niveau de ce résultat, il s'agira de consolider les activités déjà menées au cours de ces dernières années dans la mise en place d'un système fonctionnel de suivi de la dynamique des habitats. Il s'agira également de promouvoir la recherche sur les écosystèmes aquatiques des aires protégées du Burundi en se concentrant sur les batraciens. Les activités retenues pour l'année 2016 sont les suivantes:

- 1.1.1. Publier dans des revues internationales les 10 études faites sur la dynamique des habitats aux Parcs Nationaux de la Rusizi, de la Ruvubu et de la Kibira;
- 1.2.1. Etablir un système fonctionnel de collecte des données sur les types d'habitats et leur évolution;
- 1.2.2. Mettre en place et à jour une base de données et transférer continuellement les données;
- 1.2.3. Renforcer la gestion des collections de flore, en particulier celle des plantes dominantes qui, en tant que telles, servent de référence pour la reconnaissance des habitats;
- 1.4.1. Mener une recherche sur les Batraciens des milieux aquatiques.

#### Résultat attendu 2: Des services écosystémiques des aires protégées évalués et valorisés

Au niveau de ce résultat, plusieurs études ont été déjà menées au cours de ces dernières années sur les services écosystémiques passant de la phase de l'amélioration des connaissances à la phase de renforcement des capacités. Actuellement, le programme veut passer à la phase de valorisation en montrant le rôle de pollinisation dans la production alimentaire, les influences anthropiques dans la survie

des pollinisateurs. Il sera aussi question de produire le rotin artificiel pour le préserver en milieu naturel. Ainsi, les activités retenues pour l'année 2016 sont les suivantes:

- 2.3.1. Mener des recherches sur la taxonomie des pollinisateurs;
- 2.3.1. Mener une étude sur la contribution des pollinisateurs à la productivité des cultures (Haricots);
- 2.3.3. Mener une recherche sur le rotin (palmier rotang);

#### Résultat attendu 3: Des publics cibles sont sensibilisés à la biodiversité

Ce résultat attendu vise la sensibilisation de différents groupes cibles sur les questions pertinentes de la biodiversité. Il doit se fonder sur les guides fixés. Pour les questions en rapport avec le Protocole de Nagoya, il faudra mettre en place et renforcer un accord collaboratif entre les Chercheurs et les Tradipraticiens sur base des outils bien ficelés.

Ainsi, les activités retenues pour l'année 2016 sont les suivantes:

- 3.2.3. Organiser des séances de sensibilisation à la mise en place d'un accord de collaboration entre les Chercheurs et les Tradipraticiens (autres activités à la suite des résultats de 3.2.2. du plan 2015).
- 3.3.3. Organiser des séances de sensibilisation sur les problèmes clés de la biodiversité suivant les groupes cibles (suite aux résultats de 3.3.2. du plan 2015) (les administratifs provinciaux et communaux, décideurs, les communautés locales et autochtones);

#### Résultat attendu 4: Renforcement du CHM et du MRV

Autour de ce résultat attendu, le projet cherche à rendre toujours opérationnel le CHM-Burundais. Le Point Focal National a besoin d'être encore appuyé par une personne ressource œuvrant en consultant dans la collecte et la diffusion des informations. Les points focaux interinstitutionnels, les personnes et les ONGs qui nourrissent le site Web du CHM devront poursuivre des réunions périodiques pour assurer une plus grande implication et engagement et plus d'expertise technique. Sous ce résultat attendu, le présent projet vise ensuite à consolider des supports non web pour diffuser les informations à plusieurs groupes cibles. Il cherche donc à continuer à appuyer la production et la diffusion du Bulletin Scientifique sur l'Environnement et la Biodiversité. De plus, il y aura l'élaboration et la publication du plan stratégique de la recherche sur la biodiversité décliné de la SNPAB. Ainsi, les actions retenues en 2016 sont les suivantes:

- 4.1.3. Suivi via entre autres l'organisation de réunions périodiques des Points focaux interinstitutionnels du CHM;
- 4.1.4. Recruter un consultant chargé d'appuyer le Point Focal du CHM dans la collecte et le postage des informations sur le site web du CHM pour 12 mois;
- 4.2.1. Publier et diffuser annuellement le bulletin scientifique de l'OBPE;
- 4.2.2. Elaborer le plan stratégique de la recherche sur la biodiversité pour la mise en œuvre de la SNPAB.

### 3.2. Indicateurs des résultats attendus

Résultat attendu 1: La dynamique des habitats et la biodiversité des aires protégées du Burundi sont mieux connues et comprises

- Un protocole de terrain continuellement opérationnel dans la collecte des données;
- Des herbiers sont constamment consultables aux Parcs Nationaux de la Kibira, Ruvubu et de la Rusizi;
- L'herbarium de l'OBPE bien consolidé et constamment visité;
- un guide sur la flore et les habitats du Parc National de la Rusizi pour le suivi de leur évolution;
- Trois articles sur la dynamique des habitats aux Parcs Nationaux de la Rusizi, de la Ruvubu et de la Kibira publiés dans des revues internationales;
- Une étude sur les Batraciens des milieux aquatiques;

Résultat attendu 2: Des services écosystémiques des aires protégées évalués et valorisés

- Etude montrant le % de la contribution des pollinisateurs à la productivité des cultures (Haricots);
- Etude sur les influences des actions anthropique sur la survie des pollinisateurs;
- Une plantation des rotins (palmier rotang) sous les palmeraies;

Résultat attendu 3: Développement de la prise de conscience sur des questions pertinentes de la biodiversité

- Un plan d'action stratégique (assorti d'un mécanisme d'enquête évitant la biopiraterie) de recherche sur les ressources génétiques médicinales;
- un cadre de collaboration entre les Chercheurs et les Tradipraticiens pour la recherche sur les ressources génétiques médicinales (mémoire d'accord entre les Chercheurs et les Tradipraticiens);
- Niveau de conscientisation accrue pour l'implication des administratifs provinciaux et communaux, Décideurs, les communautés locales et autochtones dans la conservation de la biodiversité.

Résultat attendu 4: Renforcement des mécanismes d'échange d'information sur la biodiversité

- Le CHM joue son rôle pour atteindre les groupes cibles qui le connaissent et l'utilisent;
- Consultant, contrat de service, évaluation constante du travail fourni;
- Publication du numéro de bulletin;
- Un cadre fonctionnel de consultation et de concertation des points focaux pour la mise en œuvre de la SNPAB.
- Un plan stratégique de la recherche sur la diversité biologique pour la mise en œuvre de la SNPAB.

#### 4. INFRASTRUCTURES ET RESSOURCES HUMAINES NECESSAIRES

L'OBPE devra fournir une salle de travail au Bureau de liaison de Bujumbura pour faciliter le travail du consultant d'appui au PFN CHM. Le personnel des Parcs Nationaux de la Kibira, Rusizi et Ruvubu (Chefs des parcs, Chefs des secteurs et gardes forestiers) seront chargés du suivi de la dynamique des habitats. Monsieur Masabo Onesphore, cadre biologiste chargé de l'enregistrement et du traitement des données sur le suivi de la dynamique des habitats devra poursuivre les activités d'encodage et vérification. Il devra également faire des missions trimestrielles pour collecter les informations en même temps que les responsables des aires protégées. La gestion au quotidien du programme sera effectuée par Monsieur Nzigidahera Benoît, Point Focal du CHM-Burundais et sera assisté par Madame Kamangaza Consolate comme Assistante administrative et financière et devra en même temps jouer le rôle d'Assistante du Point Focal du CHM-Burundais avec comme rôle de publier les informations sur une page web propre au fonctionnement du CHM. Le Directeur Général de l'OBPE jouera le rôle de coordination.

#### 5. DURABILITE ET IMPACTS DU PROJET

Ce projet cherche à renforcer et pérenniser les systèmes déjà mis en place dans le domaine de suivi de la dynamique des habitats, de services écosystémiques, d'échange d'information et de conservation de la biodiversité.

#### 6. RISQUES POTENTIELS ASSOCIES AU PROJET

Il n'y a pas de risques potentiels liés au projet. Cependant, en cas de déploiement du personnel formé dans le cadre du projet, cela handicapera le déroulement des activités envisagées. En cas d'insécurité accrue, les activités pourraient être ralenties.

### **3. Institutional partnership with UAC in Benin**

2016 is the last year of the 3 years cooperation agreement between RBINS and UAC. This means that a new agreement needs to be made at the end of 2016, depending on an evaluation of the results and the impact. A mid-term evaluation has been made back to back with the regional CHM workshop in February 2016.

#### **Benin: implementation of scientific knowledge on fire and grazing for the monitoring of habitats:**

- In the agreement with UAC, the National Park Pendjari in the north western part of Bénin, is the most privileged site for the implementation of this collaboration.

- In 2014, we organized one workshop, whose objective was to simplify scientific knowledge that has been published on fire and grazing in order to make them more accessible and usable by the actors in the country's protected areas. The workshop was held in the Tanguiéta village (Pendjari). The UAC scientists, the managers of the park and the AVIGREF (village association) delegates were involved. A set of relevant vocabulary was selected in order to be expressed in French popular words and to translate the result into local languages. During the same year an additional vocabulary was constituted.
  
- In 2015 this output will be sufficient to make a content of the first lexicon intended to boost the management of fire and grazing in a way that alleviate pressure on the habitats and their biodiversity.
  
- We will also support a campaign to collect standardized observations on habitat change in relation to these phenomena. A database will be established and fed by these observations that will be collected by the rangers in the park.
  
- The UAC and RBINS will provide the assistance needed to manage these data. The RBINS will provide the basic equipment (GPSs, Cameras, herbarium tools) required to carry out the work above on the field.
  
- Regarding research on the variation of ecosystem services in relation with fire and /or overgrazing, RBINS support will be ensured to two students who will prepare their memoirs:
  - SABI LOLO ILOU Bernadette Master/FLASH/Géo/UAC on the Impact des feux de végétations sur les services écosystémiques de la réserve de Biosphère de la Pendjari au nord Bénin'
  
  - GBEFFE Alain, DEA AGRN/FSA/UAC on the 'Productivité et Diversité des Groupes Fonctionnels des Communautés Végétales façonnées par le Feux et les Termitières dans la Réserve de Biosphère de la Pendjari'.

Plan d'activité pour la coopération institutionnelle avec l'UAC au Bénin pour l'année 2016

Logique d'intervention	Année 2016								
	av	mai	juin	juil	aout	sept	Oct	nov	dec
<b>Luc : correspond bien au cadre logique et au chronogramme de 2014-2016 (17-03-2016)</b>									
<b>RI1 Les connaissances scientifiques préexistantes sont transférées vers les acteurs, y compris le CHM</b>									
1.3.3. Mise en œuvre de modules d'information/formation au profit des étudiants sur la CDB, le CHM et le Protocole de Nagoya sur l'APA.							xxxx	xxxx	xxxx
1.3.4. Publication de la synthèse des recherches passées sur le CHM		xxxx							
<b>RI2 De nouveaux outils de gestion des feux et parcours dans des aires protégées sont disponibles pour un meilleur suivi</b>									
2.5. Le lexique est produit, et disponible en version électronique et papier, et distribué		xxxx							
<b>RI 3 Les connaissances scientifiques sur les feux et les parcours sont accrues et adaptées</b>									
3.1. La recherche sur les feux et parcours est effectuée	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
3.2. Les résultats des recherches sont transférés ou restitués aux gestionnaires du PN de la Pendjari (Cenagref, DPNP, Avigref)							xxxx	xxxx	xxxx
3.3. Les nouveaux résultats sont disséminés et vulgarisés (étudiants, chercheurs, riverains des aires protégées)									
3.3.1. Atelier de concertation avec les chercheurs pour définir et harmoniser les orientations en matière de sensibilisation sur la base des résultats de recherche (groupes cibles, messages clés et besoins de sensibilisation, formats, etc.)					xxxx	xxxx	xxxx	xxxx	xxxx
3.3.2. Publication des nouveaux résultats de recherche sous la forme adéquate sur le site Web du CHM et autres réseaux adéquats			xxxx						
<b>RI 4 Le suivi de la dynamique des habitats au PN de la Pendjari par les gestionnaires est renforcé et mis en œuvre</b>									
4.2. Les gestionnaires appliquent les critères pertinents pour la collecte des données sur la dynamique des							xxxx	xxxx	xxxx

habitats et tiennent compte des résultats dans les plans de gestion du PNP									
4.3. Une base de données sur le suivi de la dynamique des habitats est établie et utilisée à l'UAC par les chercheurs et étudiants. La base de données est partagée avec les gestionnaires (Supplying Basic Equipment and Documentation)							XXXX	XXXX	XXXX
<b>RI 5 La sensibilisation sur la conservation de la biodiversité est augmentée</b>									
5.1. Les décideurs, élus locaux sont sensibilisés					XXXX	XXXX	XXXX	XXXX	XXXX
5.1.1. Atelier de sensibilisation des décideurs et élus locaux riverains au PNP sur la biodiversité et les acquis du projet.					XXXX	XXXX	XXXX	XXXX	XXXX
5.2. Les riverains, les AVIGREFS sont sensibilisés					XXXX	XXXX	XXXX	XXXX	XXXX
5.2.1. Atelier de sensibilisation des AVIGREF riverains au PNP sur la biodiversité, les acquis du projet et leurs implications pour la conservation.					XXXX	XXXX	XXXX	XXXX	XXXX
5.2.2. Campagnes de sensibilisation dans chaque village riverain sur la biodiversité, les acquis du projet et leurs implications pour la conservation					XXXX	XXXX	XXXX	XXXX	XXXX
5.3. du matériel de sensibilisation est produit, disséminé					XXXX	XXXX	XXXX	XXXX	XXXX
5.3.1. Production et validation de matériel de sensibilisation sur la biodiversité et les acquis du projet pour chaque groupe cible.					XXXX	XXXX	XXXX	XXXX	XXXX
5.4. Le CHM relate les activités et partage les produits de sensibilisation									
5.4.1. Collecte et mise en forme de données pour améliorer la section recherche scientifique sur le CHM (recueil et résumés des mémoires, articles, livres, etc. pour publication)					XXXX	XXXX	XXXX	XXXX	XXXX
5.4.2. Publication de tous les ateliers et activités du projet sur le site Web du CHM Bénin					XXXX	XXXX	XXXX	XXXX	XXXX
5.4.3. Publication des outils de sensibilisation sur le CHM et les autres réseaux importants.					XXXX	XXXX	XXXX	XXXX	XXXX

## Budget for 1.2.2.

Activities	Targets	Operations	Missions	Total
<b>Burundi (indicative, negotiation on-going)</b>				
<b>Training + Follow up/ Burundi</b>				
1.2.2.1•Workshops + Putting into practice the acquired knowledge		7000		7000
1.2.2.2 Syllabi preparation				
1.2.2.3 Expert missions			4000	4000
1.2.2.4 Supplying Basic Equipment and documentation				
1.2.2.5 Collecting data on habitats state – Data base (feeding + exploitation )	2000 fiches LEM	5000		5000
1.2.2.6 Lexica (Redaction + Publication)	1			
<b>Promotion of research/ Burundi</b>				
1.2.2.7 Contribution to the identification of the topics	2			
1.2.2.8 Supporting theses: preparation + publications	2	6000		6000
1.2.2.9 Help to Implement the recommendations issued by research				
<b>Subtotal</b>		<b>18000</b>	<b>4000</b>	<b>22000</b>
<b>DR Congo</b>	<b>Targets</b>	<b>Operations</b>	<b>Missions</b>	<b>Total</b>
<b>Training + Follow up/ DRC</b>				
1.2.2.10 Workshops + Follow up subsequent practice				
1.2.2.11 Syllabi preparation				
1.2.2.12 Expert missions	1		5500	5500
1.2.2.13 Supplying Basic Equipment and documentation		4000		4000
1.2.2.14 Collecting data on habitats state – Data base (feeding + exploitation )	1600 fiches LEM	6000		6000
1.2.2.15 Lexica (Redaction + Publication)	1			
<b>Promotion of research/ DRC</b>				
1.2.2.16 Contribution to the identification of the topics	3			
1.2.2.17 Supporting theses: preparation + publications	2	8500		8500
1.2.2.18 Help to Implement the recommendations issued by research	1			
<b>Subtotal</b>		<b>16000</b>	<b>5000</b>	<b>24000</b>

<b>Benin (indicative, negotiation on-going)</b>	<b>Targets</b>	<b>Operations</b>	<b>Missions</b>	<b>Total</b>
<b>Training + Follow up/ Benin</b>				
<b>1.2.2.19</b> Workshops + Follow up subsequent practice	1			
<b>1.2.2.20</b> Syllabi preparation	1			
<b>1.2.2.21</b> Expert missions	1		4500	4500
<b>1.2.2.22</b> Supplying Basic Equipment and documentation		2000		2000
<b>1.2.2.23</b> Collecting data on habitats state – Data base (feeding + exploitation )		8000		8000
<b>1.2.2.24</b> Lexica (Redaction + Publication)	1			
<b>Promotion of research/ Benin</b>				
<b>1.2.2.25</b> Contribution to the identification of the topics	2			
<b>1.2.2.26</b> Supporting theses: preparation + publications	1	7000		7000
<b>1.2.2.27</b> Help to Implement the recommendations issued by research		4000		4000
<b>SubTotal</b>		<b>21000</b>	<b>4500</b>	<b>25500</b>
<b>Burundi</b>		<b>18000</b>	<b>4000</b>	<b>22000</b>
<b>RDCongo</b>		<b>19000</b>	<b>5000</b>	<b>24000</b>
<b>Bénin</b>		<b>21000</b>	<b>4500</b>	<b>25500</b>
<b>TOTAL</b>		<b>58000</b>	<b>13500</b>	<b>71500</b>

Table 7: budget for SO1, 1.2.2. (B)

## Activity 1.2.3.(C) Cooperation with the University of Kisangani for the taxonomic study and the monitoring of lowland forests

1.2.3. (C). Cooperation with the University of Kisangani for the taxonomic study and the monitoring of lowland forests through

- Selection of 3 PhD candidates with a relevant research programme
- Training of the selected PhD candidates in Belgium (RBINS, RMCA, Flemish and Francophone universities, & when necessary foreign experts)
- Expert missions for local follow up of progress made by 3 PhD students
- Financial support for field work, equipment, documentation, transport
- Financial support for 3 PhD thesis defences

### Introduction

**The third part C (activity 1.2.3. of expected result 1.2.)** specifically deals with the remotely located but highly significant Université de Kisangani in RD Congo. Significant, because located within the Congo basin and the associated lowland tropical rain forest, being extremely relevant for its hotspot biodiversity and climate regulation function at the planetary scale. We support local staff to obtain a local PhD on subjects relevant to the study of biodiversity and the link to ecosystem services (food, medicinal purposes), and hence sustainable development and income generation. This is closely linked to the work of the 'Centre de Surveillance de la Biodiversité' or CSB, that was inaugurated in June 2014. Moreover, this work is done in concert with other actors such as ARES and VLIR-UOS, also active at UNIKIS. More specifically, RBINS is supporting the training of young Congolese scientists ("chefs de travail" with a master level degree) of the LEGERA (Laboratoire d'Ecologie et de Gestion des Ressources Animales) team of the Faculty of Sciences of the Université de Kisangani, UNIKIS (DR Congo) in the broader framework of the "Centre de Surveillance de la biodiversité (CSB)" that is no longer funded by the DGD since end 2014. The planned actions provide for a strong scientific local support for the young (less experienced) CSB-team; together with the strengthening of UNIKIS academic community. Our continued contribution towards the development of the scientific capacity of the Faculty of Sciences of UNIKIS will be combined with other sources of funding such as the VLIR-UOS IUC project in Kisangani that has a biodiversity sub project ( 2nd phase started in April 2014). Our approach involves the local selection of the most promising candidates that will be assisted by international experts to develop and execute original PhD research projects that meet specific development problems with a biodiversity component. Hence the local/regional/national population will benefit from the increased local expertise in these sectors through the application of the acquired knowledge, and the introduction of state-of-the-art courses on these subjects for university students.

### Selection of 3 eligible PhD students

The following three candidates will be invited for three research visits in Belgian institutions (RBINSc, Institute of tropical medicine, and the University of Antwerp). Below a summary of the planning for 2016:

1. **Casimir Nebesse Mololo** (topic: the exploitation of natural resources: the bush meat issue, Belgian supervisor: Erik Verheyen (RBINS) & Marijke Verpoorten (UAntwerpen), Congolese supervisor: Prof Dudu Akaibe Migurimu (UNIKIS))
2. **Prescott Musaba** (topic: Inventory and phylogeny of bats and their pathogens in the region of Kisangani, Belgian supervisor: Erik Verheyen (RBINS), Herwig Leirs, Victor Van Caekenberghe (UAntwerpen) & Anne Laudisoit (UAntwerpen, CIFOR), Congolese supervisor: Prof Guy Crispin Gembu Tungaluna (UNIKIS)).
3. Instead of Dadi Falay, whose training will be assured by Dr Jan Jacobs (ITG) we have selected **Steve Ngoy** as a new trainee (topic: "Le role des ticks comme vecteurs de zoonoses chez les rongeurs". promoteur Gembu Crispin Tungaluna (UNIKIS), co promoteurs Erik Verheyen & Anne Laudisoit (UAntwerpen, CIFOR))

### **Identification of suitable expert supervisors**

Unless the currently selected expert supervisors wish to discontinue to assist us with the training of their trainee, no changes are anticipated.

### **Support for field work, documentation, transport**

Based on a budget to be proposed by each trainee and his promoters, each trainee will be awarded funding to facilitate the collection of material in the field. Normally the expenses that will be covered will consist of documentation (books, literature), costs associated with field work (fuel, ...), and costs associated with the work in Belgium (lab work, transport and registration to scientific meetings).

### **Training of the 3 selected candidates in Belgium**

Each candidate will be invited for 2,5-3 months that coincides with the availability of the Belgian expert, and the working schedule of the trainee. The local experts will provide guidance through discussions, courses in data analyses, documentation, and laboratory facilities, should this be required. The work schemes of each candidate will have to be approved by the promoters prior to the arrival of the trainee in Belgium. At the end of each stay, each trainee will have to provide a working plan for the continuation of his activities (for example field work) that will need to be approved by the promoter before the trainee returns to the DR Congo.

### **Output and expected outputs**

1. Casimir Nebesse Mololo started his work at the end of 2013. It is anticipated that the field work of 2014, and the subsequent stay in Belgium should allow him to have a good inventory of the mammal species that are sold on the local bush meat markets, including a listing of the relative prices of various bush meat products versus grown meat (beef, pork, goat chicken), and the relative gastronomic preferences of the local consumer for each of these animals protein sources. These kind of data form a good basis for the valuation of such ecosystem services of the lowland forest.

2. Prescott Musaba started his work in 2014. Based on the earlier field work and the methodological guidance of his local supervisor he has made a considerable collection of bat specimens and tissues for molecular research. With the support of the CSB it is anticipated that he will be able to obtain the necessary samples from the rest of the DR Congo territory.
3. Falay Sadiki Désiré who still was a trainee in 2014 has one paper in press (Laudisoit A., Dadi F., Amundala N., Dudu A., Gouy de Bellocq J., VanHoutte N., Matteo B, Verheyen E., Wilschut L., Parola P., and Socolovschi C). High prevalence of *Rickettsia typhi* and *Bartonella* species in rats and fleas, Kinsangani, Democratic Republic of the Congo. Am. J. Trop. Med. Hyg., 90(3), 2014, pp. 463-468.

His second paper Falay D., Kuijpers L.M.F., Phoba M.-F, De Boeck H., Lunguya O., Vakanyaki E., Bertrand S., Vanhoof R., Devlieger H., Van Geet C., Verheyen E., Ngbonda D., Jacobs J. (submitted). Microbiological and clinical findings of an outbreak of non-typhoid Salmonella blood stream infection associated with severe anemia, Oriental Province, Democratic Republic of the Congo. PLOS Neglected Tropical Diseases was resubmitted and it seems plausible that he will be able to prepare drafting a second scientific publication at the end of 2015, or early 2016.

In 2016, Erik Verheyen (EV) will visit UNIKIS several times in the context of other projects (REFORCO project, COBIMFO, COBAFISH, and VLIR CUI). These visits will allow him to meet the local promoters and the trainees in order to facilitate a smooth interaction with the local PhD students. During each visit EV schedules a scientific seminar “evolutionary biology”, and one on “the development of scientific communication skills”.

### Budget for 1.2.3.

Activities	Targets	Operations	Missions	Total	On saldos
1.2.3.1 Selection of 3 eligible PhD students					
1.2.3.2 Identification of suitable expert supervisors					
1.2.3.3 Support for field work, documentation transport		2100			2100
1.2.3.4 Training of 3 selected PhD candidates in Belgium		27050		27050	
1.2.3.5 Expert missions for local follow-up of PhD students			On other projects	On other projects	
1.2.3.6 Ateliers de restitution in Kinsangani		350			350
1.2.3.7 Publications in scientific journals					
1.2.3.8 Financial support for defence of 3 PhD theses					
<b>Total</b>		<b>29500</b>		<b>27050</b>	<b>2450</b>

Table 8: budget for SO1, 1.2.3. (C)

## Activity 1.2.4. (D). Application of the marine modeling to integrated coastal management and monitoring

1.2.4.(D) Application of the COHERENS model for integrated coastal management and monitoring of ecosystems through

- Setting up and implementing partnerships
- Supporting development of web sites
- Supporting visitor programmes
- Facilitating communication between independent participants
- Distance E-coaching
- Producing marine policy reports
- Coaching towards an independent use of the COHERENS model and its applications
- Coaching in developing site-specific applications with the code in function of policy needs, i.e. develop a site specific biological module or wastewater module
- Workshop for advanced users
- Support with scientific arguments for stakeholders
- Establishing links between physics, sedimentation and biodiversity is scientifically documented.

### Introduction

The fourth part D (activity 1.2.4. of expected result 1.2.) deals with the sustainable management of the marine environment. The marine environment differs from the terrestrial in the sense that it is a fluid medium, hence it is more difficult to monitor and manage biodiversity directly. A way to overcome this is to use models that help to understand and predict what will happen. The cornerstone of these management tools is a circulation model. This has as a consequence that each project starts with a physical study of the circulation in the region. RBINS has in-depth knowledge about **marine mathematical models**, **with** an in-house developed model called 'COHERENS'. This model is being developed by MUMM, situated in the Gulledele campus of RBINS in Brussels, a department of the Operational Direction 'Nature' of RBINS. CEBioS finances the capacity development of staff in selected countries of the Belgian cooperation such as Vietnam and Peru. The experts provide workshops in these countries and train invited scientists on the model in Belgium. COHERENS is an open source **mathematical model** used for the monitoring and management of the near-coastal zone, estuaries, lagoons, reservoirs and lakes (<http://www.odnature.be/coherens> ).

This project falls under the execution of the **Aichi targets** listed by the **Nagoya convention** (COP10, XI2, targets 6, 8, 10 and 11). The main objectives of the project are, first, to consolidate the knowledge of marine modelling for coastal protection and management in collaboration with the partners already involved in the project, and second, to apply the model in more complex research questions.

**The specific objectives of this marine part of the CEBioS programme** are to generate scenarios of water, sediment and biota transport of coastal areas, hence providing the necessary scientific scenarios needed to have an integrated coastal management plan. It assists managers and decision makers to take scientifically sound measures for coastal management. The main issues are the integration of economic development of the coastal area and the need to safeguard the areas which are important for biodiversity and ecosystem services, such as mangroves and reefs. Concrete applications are tailor-made for each partner as it concerns marine ecosystems with specific features and different country policies. The developed models will forecast the reactions of coastal ecosystems under different sets of physical, chemical and biological conditions. It is particularly useful for environmental impact assessments (e.g. dispersion and impact of potential pollutants and their effects on mammals and birds) and for the management of coastal seas (e.g. establishment of protected areas or of aquaculture farms).

### **Partner institutes**

1. Institute of Marine Environment and Resources (IMER, Haiphong, Vietnam)
2. IMARPE in Peru. These research institutes explicitly expressed their interest in implementing COHERENS on a systematic basis in their departments and have some pending research questions where our coaching is valuable.

#### **1. Vietnam**

The operational plan of cooperation RBINS-IMER can be found in the table below. The project progression strategy is to develop/finalize a hydrodynamic model (done in 2015), then proceed to develop a sediment model to end up with an ecosystem health tool. In 2016 we will work on sediment information collection and modelling and the preparation for the ecosystem health tool.

#### **Planned visit, Belgium, September 2016**

During September 2016 Vietnamese scientists will visit Belgium. The following points will be addressed during that meeting:

- *Sediments: report on sampling and analysis.* In 2016 the partners will focus on gathering and analyzing sediment data from satellite data to feed the model, we expect some progress and some first results to be reported by this visit. The knowledge will be incorporated in a sediment model .
- *Report the preparatory work done for the ecosystem health study.* In 2016 the development of a tool that makes a link between sediment, sediment movements and ecosystem health will be prepared. This by means of sampling, analysis and a spatial pattern study of organisms attached to sediments.
- *Prepare the internal workshop*
- *Set up a sediment model*

The Vietnamese delegation is visiting Belgium during December 2015, during that visit the progress strategy and planning will be discussed in more detail.

### Workshop, Vietnam, November 2016

The skills and knowledge developed in the framework of the project will be dissipated in IMER by means of an internal workshop. The Vietnamese delegation is visiting Belgium during December 2015, during that visit the organization of the workshop will be discussed in more detail.

### External RBINS calls and exit strategy

Taking part in external calls is an ad hoc process and though it is not a specific goal of 2016, we will take the opportunity as it presents itself, as done in the past (the 2015 TEAM call).

Activities	2016
<b>1. Improved knowledge of sediment fluxes and sedimentation balance and their tools to investigate</b>	
Coordination of the work done by colleagues	x
Identify the design and criteria of comparison	
Result analysis	
Remote sensing analysis of suspended sediments	x
Software upgrade	
Technical workshop at IMER, informal mid-term evaluation	x
<b>2. Knowledge transfer about particle tracking module</b>	
Training of one IMER staff member in particle tracking	
<b>3. validation with biology, linking sediment and particle tracking model with ecosystem health (e.g. sea grass, coral reefs, ...)</b>	
Sampling of organisms attached to or interacting with sediments (depending on available funds)	x
Analysis of samples taken	x
Spatial comparison of organism composition on sediments from the river to HLB (depending sample quality)	x
<b>4. IMER staff is trained in sediment model applications (sediment and particle tracking)</b>	
Hydrodynamic model reassessment	
Sediment model	x
Validation and comparison	
<b>5. participation to external RBINS calls</b>	
<b>6. stakeholder awareness about implications of model for conservation of biodiversity and sustainable use (sea grass, coral reefs, ...)</b>	
Final workshop with external stakeholders	
Several IMER seminars	x

2. Peru: our partners in Peru prepared the programme foreseen for the period 2014-2016 during a joint CEBioS-IMARPE formulation mission in summer 2014. The goal is to develop several management tools for different regions, each region has it's own needs and hence a different approach of developing a management tool is needed. The regions are Chimbote (sedimentation

issues), Paracas (el nino issues because of high biodiversity (eco-tourism) and importance of fisheries, Callau (waste pipe) and Secchura (phosphorus pollution threatens fisheries and aquaculture).

### Visit, Belgium, March 2016

During this visit the following things are discussed:

- The application of the 4 hydrodynamic models (see report 2015)
- The progress of the sedimentation model
- The implementation of the particle tracking model
- The exit strategy
- The closure meeting

### Closure meeting, December 2016 (or beginning of 2017)

### Operational plan cooperation RBINS-IMARPE (2014-2016)

Activity	2016
Training in Belgium on the use of marine numerical tools look for correct physical boundary conditions (bathymetry, tides, wind, rivers, ...) run the model for different periods and validate the results writing a thesis e-consultation	
setting up a plankton model do the necessary adjustments to the plankton code train people in the use of plankton models e-consultation	X
setting up a sedimentation model do the necessary adjustments/manipulations to the code train people in the use of sedimentation models e-consultation	X
setting up a particle tracking model do the necessary adjustments to the code train people in the use and manipulations of these type of tools e-consultation	X X X X

**Formulation meeting in Cotonou, Bénin** for cooperation 2017-2018 with **IRHOB**, estimated budget 4000 Euro. Katrijn Baetens and Marie-Lucie Susini Ondafe will moderate this formulation.

**Budget for 1.2.4.**

Activities	Targets	Operations	Missions	Total	With unspent 2014
1.2.4.(D)1 Identification (Benin)			6000		6000
1.2.4.(D)2 Set up meeting Vietnam				6000	
1.2.4.(D)9 Hosting scientist(s)		20000+7000		20000	7000
<b>Total</b>		27000	6000	<b>26000</b>	<b>13000</b>

Table 9: budget for SO1, 1.2.4. (D)

***Expected result 1.3 Monitoring data is fed into national indicator processes***

**Description:**

**Pilot projects** that will enable biodiversity monitoring data to be fed into national indicator processes. It will be important to valorise the work carried out by our partners (target: people trained under SO1, 1.1. and 1.2) who are involved in biodiversity monitoring studies, so that their data can be useful for, and used in, current indicator processes on the status of biodiversity. This will enable science based communication in various national and international bodies and documents. Sound baselines and measurements of biodiversity are needed to be able to provide meaningful trends. To enable our partners to contribute to these indicator processes, training and dedicated follow-up will be required to ensure the quality of the produced data.

*These activities also directly contribute to fulfill specific objective 5, on measurement, verifying and reporting processes (MRV).*

**Logframe (partim):**

<b>Expected Results</b>	<b>Output indicators</b>
1.3 Monitoring data is fed into national indicator processes	in at least 4 partner countries of the Belgian development cooperation data from monitoring activities are integrated in at least one of the indicators for the follow up of the respective national strategy.
<b>Activities</b>	
1.3.1.Launch call for project on Aichi target indicators	

Table 10: logframe (partim) for SO1, 1.3.

## Activities

By 2015 at the latest, all parties to the Convention on Biological Diversity will be required to present a National Biodiversity Strategy and Action Plan (NBSAP) in line with the **Strategic Plan for Biodiversity 2011-2020** and including specified national Aichi targets with relevant **indicators**. When national targets and indicators are determined by partner countries, collaboration with authorities will be established in order to draw on our specific expertise in collecting data to feed the indicator processes. RBINS and the CEBioS team can bring in expertise especially for Aichi targets 3 (ecosystems), 6 (fisheries), 7 (sustainable agriculture and aquaculture), 8 (pollution), 9 (invasives), 14, 18 (conservation). In the meantime, research projects carried out by students or early-career scientists associated with partner institutions, that are promoting the collection of data that are relevant for achieving Aichi targets, will be supported, e.g. in carrying out the aforementioned projects funded by VLIR, in which both data collection, data processing and scientific communication to stakeholders are included. We will continue to apply for additional external funding for work on the science/policy interface regarding biodiversity in the South (e.g. Belspo, FWO-Vlaanderen, scholarship through universities in Belgium or in the South). Results will be valorised through their validation and publication in renowned science journals as well as through the national strategy monitoring systems that will be promoted under specific objective (SO2)2: enhancement of the information base on biodiversity .

We will launch each year a **call for projects directed at cooperation partners** that will work on gathering indicator data for Aichi objectives related to habitat/ecosystem monitoring, species data and have a relation with poverty eradication. In 2016, the selected projects of the 2015 MRV call will be followed and evaluated, while a call focusing on the D.R.Congo will be launched.

Part of the budget under 1.3.1. will be allocated to MRV activities (SO5).

### Budget for 1.3.1.

		operational	missions	total
<b>1.3.1.</b>	1.3.1.Launch call for project on Aichi target indicators	17000	3000	20000

Table 11: budget for SO1, 1.3.

## ***Expected result 1.4. Scientific outputs are made accessible to users***

### **Description:**

Tools will be produced and contribution will be made to processes that support research and its dissemination (publications, websites, end-user meetings, participation in communities of practice...). The relevance of all these scientific activities for development is to be ensured by prioritizing the acquisition of knowledge and the establishment of projects in sectors that contribute to development policies, such as sustainable forest management, sustainable use of natural resources (including for agriculture and energy), sustainable water management, sustainable coastal and marine management

(including use of natural resources from the marine environment), issues linked to health policy, management of invasive alien species and pest species, biodiversity conservation, ecotourism and trade.

**Logframe (partim):**

Expected Results	Output Indicator
<p><b>1.4 Scientific outputs are made accessible to users</b></p>	<ul style="list-style-type: none"> <li>• At least 5 Abc Taxa manuals have been produced during the 5-year period dissemination per volume</li> <li>• Supporting/disseminating materials formerly produced</li> <li>• 4 lexicons,</li> <li>• Syllabuses produced and/or upgraded,</li> <li>• participation by staff members in 5 events relevant to taxonomic popularisation tools development/capacity building.</li> <li>• feedback on the use of courses available.</li> <li>• results of at least 5 projects and public awareness activities under SO1-1 and SO1-2 are published on the internet on <a href="http://www.taxonomy.be">www.taxonomy.be</a> or a national CHM website if available.</li> </ul>
<p><b>Activities</b></p>	
<p><b>1.4.1. Taxonomic scientific tools</b> production and dissemination of AbcTaxa manuals</p> <p><b>1.4.2. Popularization tools</b> production of lexicons production/upgrade of syllabi dissemination of tools (other than Abc taxa) participation in international congresses on taxonomy and/or ICT for development and training follow-up on feedback of use of courses archiving output on GTI and CHM websites</p>	

Table 12: logframe (partim) for SO1, 1.4.

**Activity 1.4.1. Taxonomic scientific tools**

*Abc Taxa: a series of manuals for taxonomic capacity building*

The publication of taxonomic tools will continue to be supported via the production of one Abc Taxa manual per year and the development of training material on the GTI website ([www.taxonomy.be](http://www.taxonomy.be)). Prioritization will be given to taxonomic groups that have impact on the livelihood of local populations. Although, Dr. Yves Samyn the chief editor of the *Abc taxa* series is no longer a member of our team, we plan to further support the publication of the *Abc taxa* series.

**AbcTaxa** plans for 2016 the dissemination of 1 volume in 2016 as well as the production of a new volume. The negotiations about topic and contents of latter are under way, but likely it will be on polystomes (vertebrate parasites) or on good practices in methods that enable molecular systematics.

### **Activity 1.4.2. Popularization tools**

Over the years, the collaboration with partner institutions for the monitoring of habitats has led to the production of popularization tools of high relevance for the management of ecosystems, especially protected areas. The development of such tools will continue to be encouraged and supported in the following years. Drawing on the successful experience of the « Habitats de la Réserve et Domaine de chasse de Bombo-Lumene - Lexique Kiteke des plantes observées dans ces milieux », it is planned to produce and publish about 4 additional lexicons: one in RD Congo in partnership with ICCN, two in Burundi in partnership with INECN and one in Benin in partnership with UAC. The production of syllabuses is also foreseen: one in RD Congo (ICCN), two in Burundi (INECN) and two in Benin (UAC).

Taxonomic popularization tools are also expected to be developed as the result of projects supported under expected result SO1.1. Indeed, as applicants will be required to demonstrate their direct or indirect contribution to the conservation of biodiversity and/or ecosystem services and to the fight against poverty in their country, one means of meeting this criteria is the development of tools destined for a wider audience (including competent authorities, local populations, etc.).

In order to continuously update internal capacities in dissemination technologies and methods, participation to international workshops or conferences will be necessary. One event per year will be selected for its relevance and attended to by a staff member.

The CEBioS programme is also contributing since 2014 in man-hours to the desk editing (lay-out) of a table photo book about nature and culture in Katanga, in cooperation with a local NGO and RMCA. It is expected that this book will be launched at the level of the gouverneur in Katanga in 2015, and that one staff member will be invited to attend.

### Budget for 1.4.

Activities	Targets	Operations	Missions	Total	On saldos
<b>1.4.1. Taxonomic scientific tools are produced and disseminated</b>					
Production and dissemination of AbcTaxa manuals	Taxonomists in the South	25000		25000	
<b>1.4.2. Popularization tools</b>	General public, rangers, scientists in the South	17000		17000	
Production of lexicons					
Production/upgrade of syllabi					
Dissemination of popularization tools (other than Abc Taxa manuals)=>alumni workshop		5000		5000	
Participation in international congresses on taxonomy and/or ICT for development and training			3000	3000	
Follow-up on feedback of use of courses					
Archiving output on GTI and CHM websites/ 2016: alumni workshop		9000	6000		15000
<b>Grand total</b>				<b>50000</b>	<b>15000</b>

Table 13: budget for SO1, 1.4.

## Budget for SO1

Activities		Operations	Missions	Total
1.1	Scientific and technical <b>expertise</b> is built to acquire knowledge/ individual grants (competitive call)	60,000 €		<b>60,000 €</b>
1.2	Quality scientific <b>knowledge</b> is produced to serve science-based policy			
	A : workshops in South (competitive call)	55000	20000	75000
	B : institutional partnership with ICCN (RDC), OBPE (Burundi), UAC (Bénin)	58000	13500	71500
	C : academic support to UNIKIS	27050		27050
	D : institutional partnership with IMER (Vietnam), IMARPE (Peru)	20000	6000	26000
	Subtotal 1.2.	<b>160050</b>	<b>39500</b>	<b>199550</b>
1.3	Monitoring data is fed into national indicator processes	17000	3000	<b>20000</b>
1.4	Scientific outputs are made accessible to users	47000	3000	<b>50000</b>
subtotal		<b>284050</b>	<b>45500</b>	<b>329550</b>
Salaries				150,657 €
Total for 2016				<b>480,207 €</b>

Table 14: Summary of budget for SO1 (in Euro)

## Specific objective 2. The RBINS plays a leading role in the enhancement of the information base on biodiversity, on its linkages with ecosystem services and poverty reduction and on associated governance processes

### **Background**

The CBD's 'Clearing-House Mechanism' (CHM) is an essential tool for the implementation of biodiversity policy. It develops and strengthens cooperation and networking between stakeholders of various fields of biodiversity – governments, NGOs, consultants, academic institutions, environmentalists and others. By doing so, it enables the mainstreaming of scientific information into policies and plays a role in raising the awareness of all types of audiences on the importance of biodiversity.

The development of networks of websites forms the main pillar of the CHM approach for this programme. These websites are designed to host electronic information (policies, best practices, scientific papers, etc.) and databases (species, habitats, experts, etc.). As a corollary to the electronic networks, the CHM also fosters strong and active human networks, which are crucial for the gathering and restitution of the information and data

The Belgian CHM partnership is unique under the Convention on Biological Diversity and has proven its usefulness over the years. We will therefore continue our work, taking into account both the requirements from the new CBD Strategic plan 2011-2020 and the newly formulated strategy for our framework programme.

The 2016 programme will continue providing several **training opportunities at national level**, as well as its **recurrent support to CHM**. A regional workshop will be organised in Côte d'Ivoire for the West African countries through a South-South project started in 2014. Morocco has expressed the interest of several Arabic countries to start their CHM among which the Palestine territories. Morocco will submit a South-South project proposal to this end. We will initiate a multi-annual work programme, particularly towards the consolidation of our contribution to governance processes.

#### **Outcome:**

- Information is the basis of empowerment. Empowerment of the civil servants and decision makers allow them to be more aware of the global and local issues about biodiversity and sustainable development. This enables them to inform the large public, hence enhancing their ownership and increasing the transparency of governance processes. The support of CHM processes contributes to that and to a more efficient science-policy interface, and hence a more science based policy in the long term.

- After five years, The targeted institutes (in Algeria, Benin, Burundi, Congo, Mali, Morocco, Niger, Burkina Faso, Cameroon, Côte d'Ivoire, Madagascar and others) are in a better position to organise awareness raising campaigns through the CHM and other media, and are better able at identifying and applying relevant biodiversity indicators in their national reporting and strategy.
- The national CHMs are better structured, maintained and updated and offer user-friendly quality information on biodiversity and poverty reduction.
- The partner institutes have more mutual South-South contacts, exchanges and cooperation.
- Partner institutions better fulfil their role as a national information centre on biodiversity (2.2., 2.3.) (see annex 4 for the list of partner focal points)
- Level of networking and activity increased at governance level (2.2 and 2.3)

#### SO2 and the Sustainable Development Goals

9.c Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020

17.8 Fully operationalize the technology bank and science, technology and innovation capacity-building mechanism for least developed countries by 2017 and enhance the use of enabling technology, in particular information and communications technology

17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships

### ***Expected results***

- 2.1. Expertise in information management is built.
- 2.2. Information flows are improved.
- 2.3. Information is used to advise governance processes.

### ***Expected result 2.1 Expertise in information management is built***

#### **Description:**

One of the main roles of the CHM is to be a network of networks. To be able to fulfil this role, the CHM focal point must not only be able gather information to be put on the web, but it also needs to mobilise biodiversity stakeholders around specific issues. This is why we organise webmaster training sessions and networking workshops together, generally in the form of a one-day of networking back-to-back to the webmaster training course.

In 2016, we plan to provide several training sessions at national level in combination with South-South Cooperation partners of our partner countries and a training course in Belgium in cooperation with DGD-D2.4. and other departments. Based on the feedback from the training courses we will continue to update manuals on the utilization of the PTK for users and use the training material from the courses to update

the e-learning modules. We will continue developing the manual for the 2020 Biodiversity Targets Cross-linking Tool for the follow-up of the implementation on national level of the national Biodiversity and Action Plan (NBSAP) and also an e-learning module.

**Logframe (partim):**

Expected results (ER)	Output indicators
<p><b>2.1. Expertise in information management is built</b></p>	<ul style="list-style-type: none"> <li>• 10 national training workshops,</li> <li>• 120 persons trained,</li> <li>• follow-up training has been organised in at least 8 partner countries.</li> <li>• 5 countries participate in the information management/ CHM network through South-South Cooperation (SSC) with one of our partner countries.</li> <li>• 70 % of the partner CHM sites have 20 pages added or updated /year.</li> <li>• Tool to follow-up the implementation of the national strategy is actively used in at least 5 countries</li> </ul>
<p><b>Activities</b></p>	
<p>2.1.1. two national training workshops per year            2.1.2. 1-2 follow-up trainings per year            2.1.3. one south south collaboration/yr initiated            2.1.4. Promotion of tool in at least 1 country /year</p>	

Table 15: logframe (partim) for SO2, 2.1.

**Activity 2.1.1. two national training workshops per year**

Partner countries are using the European CHM Portal Toolkit (CHM PTK) to manage information flows through the CHM and the web on the implementation in their country of the Convention. The partner countries have expressed their continuous need to refresh and update their competences, given the developments in technology as well as changes of active partners in their countries. In some countries the CHM national focal point is also responsible for the implementation of the ABS Clearing House as COP11 reiterated through relevant decisions that ABS-CH should be part of the CHM taking into account that ABS is one of the pillars of the CBD. Under specific Objective 6 (SO6), joint training activities will take place to develop our partners competences in the field of ABS.

As specified in previous annual plans, with each country, a capacity building strategy (this includes communication strategy) is being developed to ensure a follow up by the national focal point with the trainees after the training. This strategy includes one national training by the Belgian CHM as well as

several one or 2-day follow-up trainings (activity 2.1.2.) organised and given by the national focal point to ensure a continued participation and update by the trainees.

This year the training sessions will take place in Niger (February 2016) and DR Congo,. Moreover, Burkina Faso, Mali and Guinea-Bissau have expressed their interest to be trained by the Belgian CHM focal point in the near future. Most probably some of them will receive a training in 2016 as well.

Depending on the evolution of a Worldbank project for all Universities in RD Congo a training will be organised for the provincial focal points of DR Congo in collaboration with the CSB, Kisangani. 80 % of the funding for this training is supposed to be covered by the Worldbank.

E-learning/coaching consists of three distinct phases, already described in previous annual plans (preparatory distance online course, face-to-face training, post training e-coaching).

To complete the above mentioned training sessions or to serve as a basis for any interested party, online training modules are available and continuously updated to assist them to install and develop their national CHM (e-coaching). The teaching modules are developed in French and English and are posted on the CHM training website (<http://training.biodiv.be/formationptk>).

In 2014-2018, we continue developing and updating our online learning modules on the functionalities of the PTK. One of the priority modules to be added will be on the tool to follow up the implementation of national strategies linked to the Aichi targets as mentioned above.

#### **Activity 2.1.2. 1-2 follow-up trainings per year**

The 2 follow up training sessions will be organised in countries that have organised a national training workshop, in 2016 this will be the case for Niger and Guinea-Bissau. During these sessions the participants will first discuss work done since the national training by the participants and difficulties they encountered. Participants will look for solutions to these problems together and make a revised plan of work till the next training session. In the second part of the sessions the participants will be given the opportunity to add information to the CHM and learn new skills.

Training material for the follow-up training session will be prepared by the Belgian CHM in cooperation with the national focal points. The sessions will take place in countries that have received training in the current year, the year before or on demand.

#### **Activity 2.1.3. one south south collaboration/yr initiated**

Since COP10 and COP11 the role of the CHM for the follow up of the implementation of the Convention on global and national level has increased. Many countries that were partners during the first work programme 2003-2008 are asking the Belgian CHM to assist them in revamping their national CHM. These countries were not able to participate in the change towards using the EU PTK content management system as from 2006 they were no longer eligible for cooperation activities. Also other countries that have heard about the Belgian CHM cooperation show their interest. As it has not been possible to reply to all those partner requests, as many are not on the list of 14 possible partner countries of the Belgian development cooperation, we have tried to assist them by seeking active partner countries that could support them through South-South cooperation. Although hosting of their national CHM is possible

without any financial implication, capacity building in non-partner countries is not possible. We therefore propose partner countries that are involved in South-South Cooperation to invite non-partner countries in their region to participate in national training sessions.

We will work through a call for proposals.

In 2016 there might be a sub-regional training organised through South-South cooperation by Morocco for the Palestine Territories, Jordan and Syria. Morocco will submit a proposal towards this in the beginning of 2016 when the demands by those countries has been expressed.

#### **Activity 2.1.4. Promotion of tool in at least 1 country /year**

In 2016 and the following years a new element will be added to the PTK to follow up the implementation of national biodiversity strategies and to facilitate the reporting process to the CBD and its Aichi targets. To implement the tool it will be useful to add a training and information component to facilitate the adaptation of the tool. This can be done during the national training sessions or during the network meeting with partner countries. This year it will be done during the regional workshop for Francophone countries, beginning of February 2016.

We will perform consultancies on demand from countries that have received specific GEF funding to develop their national CHMs. Countries will be asked to provide transport, lodging and a daily allowance.

### ***Expected result 2.2 Information flows are improved***

#### **Description:**

We will complete our training offer by directly supporting the work of the CHM focal points, as the development and maintenance of CHM websites of partner countries is often hindered by various technical problems (e.g. slow bandwidth, frequent power shortages, decentralised offices with little or no equipment, lack of manpower, etc.).

Also, meetings of national CHM steering groups that give advice on how to develop the national CHM, are often hampered by lack of funding to organise meetings. It is in this light that we have supported partner countries to develop national CHM strategies that will hopefully be integrated in the national biodiversity strategies. However, this does not guarantee that the countries will also allocate resources or sufficient resources to improve information flows through the national CHM. We see more positive signs in countries that have well established steering committees and a CHM strategy. These countries do not ask for projects to continue the work of the steering committees. We will therefore focus on countries that haven't yet established a CHM committee to establish one and get it working.

In the past we have organised calls for small grants to strengthen national CHMs. Some countries have developed projects to strengthen special sections of their national CHM and through this activity get partners more involved in the exchange of information through the CHM.

From the call organised in 2014, the following projects extend their activities into 2015 or beyond:

- Benin: Promotion de la coopération sous régionale pour la mise en œuvre du centre d'échange d'informations sur la biodiversité (CHM)
- Bénin : Mise en œuvre du volet CHM du Programme de coopération scientifique UAC – IRSNB

From the call organised in 2015, the following projects extend their activities into 2016 or beyond:

- Morocco: « Développement et alimentation des Centres d'Echange d'Informations sur la Diversité Biologique régionaux »
- Burundi : « Contrat panneaux solaires »
- Ivory Coast : « Collecte de données scientifiques sur la flore, la faune et les services écosystémiques de la zone refuge de la Biodiversité d'agbaou (sud-ouest ivoirien) et Enrichissement du site CHM de la Côte d'Ivoire à partir des données »
- RD Congo : « Informer et sensibiliser les décideurs politiques et d'autres acteurs de la biodiversité en République Démocratique du Congo »
- Tanzania : "Promotion and operationalization of Tanzania national CHM"

However countries have informed us that the small grants were not sufficient to involve agencies and organisations that were not based in the capitals to participate in the projects. The intention of the activities in this work programme is to enlarge the information flow and involve more local partners and stakeholders. There will be one call for proposals per year that will enable four to five projects to be accepted. We will open the call not just for one-year projects but also for three-years projects that will work towards a well-established network, include a communication strategy with well-defined stakeholders, including policy makers and indigenous and local communities through relevant ONGs.

In 2016, there will be a new call for proposals that will enable three to six projects to be accepted. One project will be on our support of the work of the "Office Burundais pour la Protection de l'Environnement" (OBPE), the former "Institut National pour l'Environnement et la Conservation de la Nature" (INECN) in Burundi. A Memorandum of Understanding was developed with the OBPE in 2014 that includes components under SO1, SO2, SO3 and SO6. A mission is foreseen in 2016 to provide technical support. Due to civil strife in Burundi the 2015 programme will be extended in to 2016 and we hope that the 2016 programme can start towards the end of May 2016.

**Logframe (partim):**

Expected results (ER)	Output indicators
2.2. Information flows are improved	<ul style="list-style-type: none"> <li>• CHM websites running and regularly updated: 50% of websites updated Alternative indicator : information added on the CHM partner websites during 2014-2018 has increased with 20 % compared to the period 2008-2012.</li> <li>• Number of information meetings with different stakeholders in partner countries</li> <li>• OBPE strengthened : CHM website updated on a regular base (pages added/year and number of visitors per year compared to baseline of 2012), Library documented and used (number of books added in the library database, number of visitors to the library), 5+ scientific bulletins published</li> </ul>
<b>Activities</b>	
2.2.1. one call per year for CHM consolidation	

Table 16: logframe (partim) for SO2, .2.2.

**Activities:**

One **call** at the start of 2015 with 3 to 6 accepted project proposals. The projects will depend on the countries and their priorities. They can be national reinforcement or South-South cooperation as mentioned above. Projects that have a clear strategic plan for the results after the 3 years, will be given priority.

In the light of the MoU we have already received the demand by the **Office Burundais pour la Protection de l'Environnement (OBPE, former INECN)** to continue working on the work started in 2013 to reinforce the reference centre on biodiversity and nature in general. They also proposed our involvement with the network connection for the site as well as the publication of the scientific bulletin.

We will pursue our efforts to increase **synergies** with activities under specific objective 1, especially between the activities under expected result SO1.2 and partner institutions in DR Congo. This responds to the continued interest expressed by the Congolese CHM focal point to involve the UNIKIS and the CSB in the Congolese CHM.

We will also promote synergies with SO 6 on the ABS-Clearing House. Where possible projects that include an ABS component will be higher ranked under calls for projects.

**Selection criteria** are listed in the call online, see CHM Reinforcement call :

[http://www.biodiv.be/cooperation/chm\\_coop/chm-partnering/call\\_reinforcement/call-reinforcement-chm-web-sites-2014](http://www.biodiv.be/cooperation/chm_coop/chm-partnering/call_reinforcement/call-reinforcement-chm-web-sites-2014)

Awareness call : [http://www.biodiv.be/cooperation/chm\\_coop/chm-partnering/public\\_awareness/call-education-and-public-awareness-projects-2014-open](http://www.biodiv.be/cooperation/chm_coop/chm-partnering/public_awareness/call-education-and-public-awareness-projects-2014-open)

### **Expected result 2.3 Information is used to advise governance processes**

**Description:**

One of the main roles of the CHM is to be a network of networks of all stakeholders in biodiversity conservation and utilization. The CHM website is one of the ways to share information, be it reports, meeting notes, results of research, baseline studies and other. Information sharing is still not integrated in the spirit of all and therefore it is important to continue to show its importance in national contexts to know what is known, what is being done to improve the knowledge and how to translate it into policies. Through national CHM strategies some countries have established a framework to ensure that information is shared and also used for governance processes. However due to budgetary constraints it is not always possible to organise the necessary meetings to ensure that people are aware of the available information and also use it. Also exchange of experiences is very important.

Networking activities are encouraged also at supra-national level, as to foster cooperation and links between countries. Our support takes the form of regional training courses or workshops involving participants from several countries in a given region or sub-region.

Regional workshops will be organised in Benin and in Côte d’Ivoire(negotiations under way).

We will also further develop with the European Commission, the Secretariat to the CBD and the European Environmental Agency the Target Cross-linking tool. This tool will also facilitate reporting to other Multi-lateral Environmental Agreements.

**Logframe (partim):**

Expected results	Output indicators
<p><b>2.3. Information is used to advise governance processes</b></p>	<ul style="list-style-type: none"> <li>• Level of activity of the network of partners: One regional workshop organised,</li> <li>• number of participation in EU and global governing activities by Be and partner countries.</li> <li>• EU tool for the follow up of the reporting on the national strategies is used in at least 5 countries for the reporting to CBD, related biodiversity Conventions and agreements.</li> <li>• Number of information meetings with different stakeholders in partner countries.</li> </ul>
<p><b>Activities</b></p>	
<p>2.3.1. Networking and organising 1 meeting/yr of CHM nfp of partner countries and governance</p>	
<p>2.3.2. one Mission /yr international meeting</p>	

Table 17: logframe (partim) for SO2, 2.3.

**Activities:**

The activities under this programme component will be on a national and international level. On a national level it will allow the national CHM focal point to organise stakeholders meeting on a regular bases. This can be included in the call for projects under SO2.2.

Typically, we participate in meetings organised by the CBD Secretariat (for the global CHM) and by the European Environment Agency (for the European Community CHM). In 2016 there will probably be one CHM-IAC meeting back to back to a SBSTTA meeting and several skype conferences, a regional meeting for the EU CHM, a workgroup meeting for the development of the PTK, a regional meeting on NBSAPs as well as COP13 organised by the CBD Secretariat and more. The participation in some of these meetings will be ensured by the organisers.

**At the international level the activities will be three-fold:**

We will also continue synergies with the Dutch CHM, which supports the CHMs of Ghana, Palau and Grenada. With the French CHM negotiations are under way to support Madagascar. The CHM-IAC presidency by Han de Koeijer will be continued and ensure that follow up to COP decisions on capacity building, the CHM and technical and scientific cooperation will be implemented by the Secretariat and the partner countries. We will continue to follow up on questions from former partner countries like Comores, Congo, Gabon, Chad, Madagascar Sudan etc... which started their CHM through GEF funding and/or with our assistance, but are not eligible anymore to participate in the formal partnership.

A memorandum might be signed in 2015 with the CBD Secretariat with financial assistance from the Japan fund for hosting and developing a new webtool for countries that cannot be part of the CHM partnership under the DGD-RBINS programme. This Memorandum might also include participation in a regional meeting for Eastern European Countries and one elsewhere.

**Equipment for SO2**

This part of the programme consist of ensuring that material is available to optimise the functioning of not only SO2 but also the other SOs. It is possible under this activity to purchase equipment for partner countries that will promote the overall functioning of the national focal points. Also material like new servers at RBINS to host all the CHM partner sites and possible databases, training materials for trainings in Belgium, licences for specific software and more can be put under this activity. Especially requests from institutes with whom the RBINS has signed MoUs will be considered.

## Budget for SO2

<b>SO2</b> <b>To enhance the information base on biodiversity and on its linkages with ecosystem services and poverty reduction and on associated governance processes (CHM)</b>		<b>budget</b>
		2016
<b>2.1.</b>	<b>ER2.1 - Expertise in information flows is built</b>	
2.1.1.1	training workshops in Belgium	10000
2.1.1.2	national training workshops	20000
2.1.2.	follow-up trainings per year	10000
2.1.3.	south south collaboration	10000
2.1.4.	Promotion of reporting tool	
	<b>subtotal</b>	<b>50000</b>
<b>2.2.</b>	<b>ER2.2. Information flows are improved</b>	
2.2.1.	Launch and dissemination of the call for projects	
2.2.1.1	Selection of the projects	
2.2.1.2	Realisation of the projects in the South	60500
2.2.1.3	Follow-up of the projects	
2.2.1.4	Assessment of the projects	
	<b>subtotal</b>	<b>60500</b>
<b>2.3.</b>	<b>ER2.3. Information is used to advise governance processes</b>	
2.3.1	Networking and organising of meeting with partners	25000
2.3.2	Mission international meeting	
	Equipment	4000
	<b>Subtotal</b>	<b>29000</b>
<b>Total</b>		<b>139,500</b>
<b>Salaries</b>		67,897 €
<b>Total with salaries</b>		<b>207,397 €</b>

Table 18: summary of the budget for SO2

### **Specific objective 3. The RBINS contributes to awareness raising and communication on the importance of biodiversity and ecosystem services for poverty reduction and sustainable development, and on associated governance processes.**

#### ***Background***

A good understanding of biodiversity and ecosystem services is crucial to achieving its conservation and sustainable use for the benefit of all. For many years already, the CHM focal points have been playing a major role in the dissemination of information and outreach to various audiences. Support to CHM of partner countries not only targets the increase of CHM visibility, but also the visibility of biodiversity as a crucial component for sustainable development, hence raising the awareness of different target groups, such as civil servants and the general public.

Over the years, we have worked through calls for project proposals launched annually. These calls for proposals have proved quite successful, with 20 projects undertaken since 2005. Raising awareness has of course been the core of these calls. However, measuring the state and evolution of public awareness has lately been at the centre of our concern.

In 2016, we will continue to support awareness raising activities through calls for proposals whilst pursuing our reflexion towards the establishment of baselines and the identification of suitable indicators.

#### ***Expected results***

3.1. Baselines provide an insight on the level of awareness and/or commitment.

3.2. Awareness and commitment are raised.

3.3 Communication and awareness raising in Belgium

Outcome:

selected partner countries are better aware of baseline data of awareness about CBD when preparing policies and DGD when preparing ICP's (3.1.)

the awareness about the importance of biodiversity and ecosystem services is risen in partner countries at different levels (governance, general public) is enhanced/taken into account in policy making and implementation (3.2)

the awareness in relevant sectors in particular DGD and the actors of the Belgian cooperation in Belgium on biodiversity and ecosystem services related to development cooperation is increased and taken up in the preparation of the new indicative cooperation programmes with the partner countries (3.3)

NGAs and NGO programmes are involved in this exercise (3.3)

### SO3 and the Sustainable development Goals

4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development

12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature

17.19 By 2030, build on existing initiatives to develop measurements of progress on sustainable development that complement gross domestic product, and support statistical capacity-building in developing countries

### 2015 UEBT Biodiversity Barometer shows additional efforts needed to reach UN targets on biodiversity awareness

*Montreal, 25 June 2015* – An average of 69% of respondents in nine countries say they have heard of biodiversity, but additional outreach efforts are needed for the world to reach global targets on biodiversity awareness set under the Convention on Biological Diversity (CBD).

According to IPSOS research conducted for the Union for Ethical BioTrade (UEBT) in 2015 among 9,000 persons in Brazil, Ecuador, Germany, France, India, Mexico, Netherlands, UK and USA, biodiversity awareness is rising in general, with millennials showing a particularly high degree of awareness. However, the rate is not rising sufficiently quickly to make a difference to biodiversity conservation efforts.

“To reach the 2020 targets on biodiversity awareness, bolder awareness raising efforts are needed not only

by governments, but also by businesses and others,” says Braulio Ferreira de Souza Dias, Executive Secretary of the CBD, in response to the survey results. “As we come to the second half of the United Nations Decade on Biodiversity, let us all work together to reach out and increase understanding on biodiversity.”

*Press release, CBD*

### ***Expected result 3.1. Baselines provide an insight on the level of awareness and/or commitment***

#### **Description:**

The national and CBD strategies are referring to the need that public awareness should be raised to ensure among others that biological diversity is high on the political agenda, people value it and see the need to conserve it. Aichi target 1 is targeting this. However, in order to develop indicators, to have activities on and to monitor changes in public awareness, one needs to have a basic view on what the public understands about biodiversity and what they understand about its role in their daily life, i.e. in terms of the benefits from ecosystem services. Also, to be able to measure the changes brought about by the strategies, one needs to make baseline studies at the start and towards the end of the strategies in order to be able to compare the data and to detect impacts and trends.

This programme element will allow the following activities :

- 2-3 year programmes with selected partner countries to
  - decide on useful **indicators** for the level of public awareness in their countries;
  - to undertake standardised **baseline studies** and
  - to develop public **awareness strategies** to raise the awareness on specific subjects.
- This work will be done in several selected partner countries in cooperation with the national focal points, national universities and if budget allows, Belgian lead universities. The results will be published on the national CHMs but also through the CBD CHM as best practices or international journals. The Belgian embassies will be involved in this process as much as possible.
- Special attention will be placed on raising the awareness on ABS and the Nagoya protocol so there will be a strong link with SO6.
- The topic of awareness plays a large role in the institutional programmes with OBPE (Burundi) and UAC (Bénin) and is incorporated into their logframes. These partners participate with the competitive calls.

**Selection criteria** are listed in the call online, see CHM Reinforcement call :

[http://www.biodiv.be/cooperation/chm\\_coop/chm-partnering/call\\_reinforcement/call-reinforcement-chm-web-sites-2014](http://www.biodiv.be/cooperation/chm_coop/chm-partnering/call_reinforcement/call-reinforcement-chm-web-sites-2014)

Awareness call : [http://www.biodiv.be/cooperation/chm\\_coop/chm-partnering/public\\_awareness/call-education-and-public-awareness-projects-2014-open](http://www.biodiv.be/cooperation/chm_coop/chm-partnering/public_awareness/call-education-and-public-awareness-projects-2014-open)

Towards the end of the programme 2014-2018 the studies from the start of the programme need to be redone to check what the actual changes in awareness has been.

**Logframe (partim):**

Expected Results	Output Indicators
3.1 Baselines provide an insight on the level of awareness and/or commitment	<ul style="list-style-type: none"> <li>• Number of public awareness projects completed,</li> <li>• At least 3-5 countries will reply to the special call for projects and develop indicators for public awareness.</li> <li>• In 2018 and 2019 these countries and countries that did their baseline studies and indicators development in 2011-2012 will receive can submit projects for funding to redo the same studies as undertaken in the first years. This will facilitate them to study effects and change in conception of the Public awareness work done under SO3.2.</li> </ul>
Activities	
3.1.1. one call/year for awareness baseline projects in the South	
3.1.2. The results should be used for the reporting towards the Aichi targets and the relevant indicators in the reporting tool that countries will use under SO2-1 and SO5.	

Table 19: logframe (partim) for SO3, 3.1.

**Activities:**

At the beginning of 2016, we will organise a **call** with as specific theme the **elaboration of baseline studies on Target 1 of the Aichi targets**. As it is subject to an open call, countries for this kind of interventions are not yet known a priori, although we would like to focus on the countries where we have contacts and functioning CHM's (e.g. Bénin, Niger, Morocco, Côte d'Ivoire, , Democratic Republic of Congo, Burundi). Awareness raising is a typical mixed issue of top-down process (invitation to submit a project according to Aichi target 1) and bottom-up (identification of needs at local level and application of locally adapted instruments). The issue about increasing the awareness about the fact that awareness is important is sometimes the first step to tackle with in the less developed countries. In that sense, the demand driven aspect of awareness raising can only start, once this kind of first level awareness is growing. Priority will be given to projects that best meet the above-mentioned criteria.

***Expected result 3.2. Awareness and commitment are raised*****Description:**

Based on the results of the target audiences and subjects for which public awareness needs to be raised as a result of SO3.1, the partner countries and local institutions and organisations through the CHM and CBD focal points can submit projects under a **call for proposals**. Priority will be given to:

- proposals that could become "best practices" and can be replicated in other partner countries;
- projects that involve 2 or more countries that will work together on the same subject or around trans-boundary national parks;
- projects that involve awareness raising on the Nagoya Protocol and access and benefit sharing;
- projects that are the result of SO1 research and that have a high potential for awareness raising on the biodiversity or the species or habitats where the studies have been undertaken.
- Projects seeking synergies between actors, both Belgian and local.

One time actions don't have as much impact as recurrent actions when it involves public awareness. We will stimulate projects that run over several years. Projects will try to use as many different media types as possible, however national television will be difficult seen the costs involved to get a camera team. However, possible ideas include e.g. radio talks, theatre, art projects, eventually combined with visits to rural villages in buffer zones of protected areas and exhibitions.

The approach will take many of the elements explained by the concept of "CEPA" (e.g. <http://www.cbd.int/cepa/> ), promoted by CBD and IUCN and involving communication, capacity development, education, empowerment, participation, partnerships and some interventions (actions). This concept will be integral part of the calls.

**Logframe (partim):**

Expected Results	Output Indicators
3.2 Awareness and commitment are raised	Indicators on public awareness show a positive development between 2014 and 2018. PA Materials are developed and used in different countries.
Activities	
3.2.1. special awareness project calls in South organised	

Table 20: logframe (partim) for SO3, 3.2.

**Activities**

We intend to finance **4 projects a year** but preferably even more if the quality of the project proposals is good enough. The amount allocated can vary per project . A project that will run in 2-3 countries at the same time will get more money allocated than a one shot project. The expertise of the Institute on educational matters and how to target different audiences as well as the technical lay-out of awareness material will be fully utilised.

Since awareness and communication strategies in developing countries are requiring special expertise, different from the European experience, the DGD-unit will eventually seek expert support from communication, education and awareness specialists (universities, NGOs, NGAs, e.g. VVOB). We will stimulate the partner countries to use also the expertise of local NGO's to ensure full participation of gender and the local population.

**Projects from the 2014 call, still being implemented during 2016 are:**

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**Benin 1**   Projet de sensibilisation et de mobilisation des parties prenantes pour la mise en œuvre de la stratégie nationale biodiversité 2011 – 2020 (end : 30 November 2016)

**Bénin 2**   Sensibilisation des acteurs nationaux sur la conservation de la biodiversité au Bénin (end : 30 November 2016)

**Burundi**   Vers une sensibilisation effective pour une prise de conscience pour conservation de la biodiversité (=part of institutional cooperation with OBPE)

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**Projects from the 2015 call, still being implemented during 2016 are :**

**Maroc** : « Etude de base des indicateurs de sensibilisation, de communication et d’engagement pour mesurer la perception du public à l’égard de la Biodiversité au Maroc » (End foreseen in May 2016)

**Benin** : « Information et sensibilisation de la population sur la pollution des eaux au Bénin » (End : 30 March 2016)

**Côte d’Ivoire** : « Projet d’éducation et de sensibilisation sur les Espèces Exotiques Invasives (EEE) en Côte d’Ivoire » (End, 31 January 2016)

**Togo** : « Sensibilisation et d’éducation sur la promotion de la biodiversité à l’intention des principaux acteurs intervenant dans la conservation de la diversité biologique au Togo » (End : 30 April 2016)

This year we will also finance the participation of some of our partners to **COP13** in order to present the results of their SO2 and SO3 projects during COP13, Cancun, Mexico. Taken into account the success of the side event on MRV during SBSTTA 19, we might also present some results of the MRV projects during COP13.

***Expected result 3.3 Communication and awareness raising in Belgium***

**Description:**

The results of SO1 - SO3 can be used to raise awareness in Belgium and at international level to the problems that people face in development countries while using and conserving their biodiversity. This will of course depend on the results of the other objectives but it can also steer the call for proposals under SO3.2. A good example has been the project on the importance of pollinators in 2010. The amount reserved in the budget under this programme component will probably be not enough to organise something each year. However the amount reserved over 3 years can make a very good public awareness

campaign in Belgium on what Development Cooperation and partners do towards biodiversity conservation and sustainable utilisation of its components in partner countries.

Also there is an opportunity to pass the message on the international decade on biodiversity that is hardly known in Belgium.

**Logframe (partim):**

Expected Results	Output Indicators
<p><b>3.3 Communication and awareness is raised in Belgium</b></p>	<ul style="list-style-type: none"> <li>• Number of people reached in Belgium through stands and events</li> <li>• number of related communication material (posters, brochures),</li> <li>• number of people attending awareness raising events or receiving material, etc.: 4-5 public awareness projects completed</li> <li>• Number of events with new stand</li> <li>• New stand</li> <li>• Number of awareness presence in events</li> <li>• courses</li> </ul>
<p><b>Activities</b></p>	
<p>3.3.1.Organisation of 1 special PA event in Belgium focused on biodiversity</p> <p>3.3.2.Biodiversity Decade and development cooperation (depending on additional funding to be found).</p> <p>3.3.3.Use special occasions like Belgian development days, Couleur café and others to promote the awareness of the Belgian public on biodiversity in general and biodiversity in developing cooperation.</p> <p>3.3.4.Development of a stand on "biodiversity and development cooperation" to be integrated in the campaign "give life to your planet" stand</p>	

Table 21: logframe (partim) for SO3, 3.3.

**Activities:**

The training of Belgian civil servants (DGD) as intended under specific objective 4, is also part of awareness raising in Belgium.

This expected result involves the continuous update of our web site, which is also found in the specific objective “coordination and management’. The CEBioS stand that was produced in 2015 will be displayed at several occasions, among which the event organised by the CBD National Focal Point (NFP) to celebrate the 20 years since which the CBD has been ratified by Belgium, and several Brussels-based environmental outreach events such as “Bruxelles Champêtre/Landelijk Brussel”. We will also contribute to the selection and rewards of the winners of the contest ‘1001 ideas to save biodiversity’ organised by the CBD NFP. A

brochure, to be finalised in 2017, will be developed to consolidate the stand, explain our activities and raise awareness on biodiversity and development. The training of Belgian civil servants (DGD) as intended under specific objective 4, is also part of awareness raising in Belgium. CEBioS is also co-organising an awareness-raising and state-of-the-art meeting on the concept of One Health (in collaboration with colleagues from, among others, the FPS Environment, the Institute of Tropical Medicine, the ULg and the BBPf). We will make use of this occasion to underline the importance of stakeholder involvement, capacity building and traditional knowledge systems in linking science to health policy and practice. Furthermore, at least two scientists from CEBioS partner institutes in the South will be offered the possibility to actively participate to this workshop, probably with a focus on medicinal plants (Unikin, partners of F. Muhashy) and rodent vector-borne diseases (Unikis, partners of E. Verheyen).

## Budget for SO3

Activities		operational	missions	total
<b>ER 3.1</b>	<b>Baselines provide an insight on the level of awareness and/or commitment.</b>	10000		10000
<b>3.1.1.</b>	3.1.1. one call/year for awareness baseline projects in the South	10000		10000
<b>3.1.1.1</b>	Launch and dissemination of the call for projects			
<b>3.1.1.2</b>	Selection of the projects			
<b>3.1.2.</b>	3.1.2. The results should be used for the reporting towards the Aichi targets and the relevant indicators in the reporting tool that countries will use under SO2-1 and SO5			
<b>3.1.2.1</b>	Realisation of the projects in the South			
<b>3.1.2.2</b>	Follow-up of the projects			
<b>3.1.2.3</b>	Assessment of the projects			
<b>ER 3.2.</b>	<b>ER3.2. Awareness and commitment are raised</b>	67000	8000	75000
<b>3.2.1.</b>	3.2.1. special awareness project calls in South organised			
<b>3.2.1.1</b>	Launch and dissemination of the call for projects			
<b>3.2.1.2</b>	Selection of the projects			
<b>3.2.1.3</b>	Realisation of the projects in the South	67000		67000
<b>3.2.1.4</b>	Follow-up of the projects		8000	8000
<b>3.2.1.5</b>	Assessment of the projects			
<b>ER 3.3.</b>	<b>Communication and awareness raising in Belgium</b>	5000		5000
<b>3.3.1</b>	Organisation of 1 special PA event in Belgium focused on biodiversity	5000		5000
<b>3.3.2</b>	Biodiversity Decade and development cooperation			
<b>3.3.3</b>	Use special occasions			
<b>3.3.4</b>	Development of a stand on "biodiversity and development cooperation"			
<b>Total</b>		82000	8000	90000
<b>Salaries</b>				50,148 €
<b>Total with salaries</b>				140,148 €

Table 22: summary of the budget for SO3

## **Specific objective 4. The RBINS and DGD unit D2.4 improve the mainstreaming of biodiversity and ecosystem services in policy sectors that have a high relevance for development.**

### ***Background***

As a research institution, the RBINS possesses a long-running expertise on biodiversity and ecosystem management. As a museum, its educational activities are key instruments for the spreading of scientific knowledge. And through its mandate as Belgian National Focal Point to the Convention on Biological Diversity and its involvement with other agreements such as the Convention on Migratory Species and CITES, as well as the coordination of the Belgian platform for Biodiversity, it has acquired experience at the policy level. Over the years, this unique position has generated a valuable expertise at the interfaces of science, policy and education. The 'biodiversity team' of the RBINS is now clustered in the 'BIOPOLS' (Belgian Biodiversity Centre for Policy support) group, being a working group under the new operational Direction 'Nature' of RBINS. This will create additional synergies between the CEBioS-programme, the National Focal Points and the Belgian platform for Biodiversity, as well as the MUMM involved in policy work around marine policy.

RBINS puts this expertise at the service of the Belgian Development Cooperation and of other interested parties in Belgium, in order to enhance the dialogue and develop strong partnerships between scientists, decision-makers and society.

At the national level, the DGD-programme staff actively participates to the following fora:

- Steering Committee 'Nature'
- Steering Committee 'CBD'
- various BELSPO, RBINS, RMCA, Botanical Garden of Meise seminars
- various DGD and SPF Environment seminars

At the international level, the DGD-programme staff actively participates (also in the framework of the other specific objectives) to the following fora in 2016, where mainstreaming activities are important:

- SBSSTA 20
- SBI
- WIPEI
- EU DEVCO and European working groups
- Various CHM working meetings
- CoCocongo (indicative), depending on availability and interactions with ICCN in RD Congo
- Various expert groups and fora (e.g. OESO-DAC ENVIRONET, SDSN, GTI, ANG, KLIMOS, IFS, GEOBON)
- IPBES

Outcome:

More capacities in Belgian cooperation about biodiversity (4.1.)

More reference to biodiversity and ecosystem services in Belgian cooperation (PICs, mixed commissions...) by integration of the Aichi targets and risk assessment of the planned cooperation interventions (4.2)

#### SO4 and the Sustainable Development Goals

1.b Create sound policy frameworks at the national, regional and international levels, based on pro-poor and gender-sensitive development strategies, to support accelerated investment in poverty eradication actions

17.14 Enhance policy coherence for sustainable development

### ***Expected results***

4.1 Expertise of Belgian Development Cooperation is built

4.2 Biodiversity and ecosystem services are mainstreamed in activities supported by the Belgian Development Cooperation

### ***Expected result 4.1. Expertise of Belgian Development Cooperation is built***

#### **Description:**

For the past few years, we have been participating in a number of meetings and events as one of the scientific institutions involved in development cooperation. We have also been involved in supporting the multilateral processes linked to the CBD through our support to DGD and our participation in the national coordination process on biodiversity (through the Coordinating Committee on International Environmental Policy).

In 2016, we will continue to provide these services. We will also continue our work to raise the profile of biodiversity across sectors, not only within the development cooperation arena but also across other sectors dealing with economy and trade. The means to do so will remain fairly modest, as for example through meeting attendance, awareness raising (see SO3), networking and lobbying. However, we expect that closer collaboration with D2.4 will help determine new activities aiming at building a strong and permanent expertise of the various actors of the DGD on the values of biodiversity and ecosystem services for development. Amongst possible activities, we can note the provision of training workshops for distinct stakeholders of the Belgian Development Cooperation (BTC, NGOs, NGAs, relevant departments of DGD, private sector through KAURI). Based on the two-day training provided at DGD on November 16<sup>th</sup>-17<sup>th</sup>, 2015, we will develop a more extensive package together with KLIMOS, aiming at acquiring external

funding (e.g. through VLIR). Our team will strive to answer the various requests for scientific support that arrive at the RBINS.

Examples of support include:

- advice on the implementation of biodiversity-related activities in partner countries,
- advice on proposed, submitted or running projects financed by DGD, such as KLIMOS
- investigating, together with KLIMOS, on how biodiversity is included into EIA by other cooperation agencies
- participation to the preparation of ‘commissions mixtes’ of bilateral cooperation,
- support to environmental mainstreaming e.g. in « Trans-Sectorial Teams » (TSTs),
- punctual support for the follow-up of multilateral agreements,
- support to the decision-making process of the ministerial office, the identification and formulation of positions in international debates and processes (UN, EU, OECD,...)
- contribution to publications and other outreach activities of DGD,
- raising the profile of biodiversity during thematic meetings organised by DGD,
- attendance to meetings discussing biodiversity and development issues,
- identification of people, institutions and organisations working for biodiversity worldwide,
- providing training on biodiversity issues, i.e. illustrating the importance of biodiversity for economic and social development and poverty reduction.

Some staff members are active as GTI- and CHM-focal points, as well as being actively involved with the ABS-CH position of the EU (Han de Koeijer).

**Logframe (partim):**

Expected results	Output Indicators
4.1 Expertise of Belgian Development Cooperation is built	4 training workshops organised for the target groups decided by DGD, Capacities of DGD to include biodiversity in ex-ante SEA and EIA for cooperation projects are raised. Increase of biodiversity protection measures in the development cooperation
Activities	
4.1.1. Training provided: (Based on request) around the theme “biodiversity, ecosystem services and development cooperation”	

Table 23: logframe (partim) for SO4, 4.1.

**Activities:**

Expertise of the various actors of Belgian Development Cooperation will be built through the organization of training workshops. Training content and material will be developed in collaboration with D2.4 staff and

adapted to the characteristics of Belgian Cooperation Development (partner countries, development sectors, etc.). The training content will also match the needs and peculiarities of each target group: work processes, project scale, cooperation partners...

Four groups of actors have been identified: the Belgian Development Agency (BTC), the personnel from main Belgian NGOs or NGAs ('ONG programme'), staff from relevant services of the DGD and development cooperation Attachés. As Attachés presence in Belgium is scarce, the duration of the training will have to be adapted and synced with the Attachés days. The next training will take place in 2016 or at the beginning of 2017.

The DGD- project unit at RBINS aims at becoming an excellence centre about the link between biodiversity conservation and development or poverty alleviation. Therefore, its web site has recently been created in order to increase (i) visibility, (ii) transparency, (iii) information sharing with all stakeholders and (iv) information sharing with the broader public. This relates to SO2 and 3 as well. Since this is done with own PTK-tools, it was a zero operational cost activity.

***Expected result 4.2. Biodiversity and ecosystem services are mainstreamed in activities supported by the Belgian Development Cooperation***

**Description:**

Most of the activities undertaken in our programme strive to build capacities within the scientific community of partner countries, acknowledging the critical role of scientific knowledge for the conservation and sustainable use of biodiversity.

**Logframe (partim):**

Expected results	Output Indicators
4.2 Biodiversity and ecosystem services are mainstreamed in activities supported by the Belgian Development Cooperation	Number of consultancy requests from DGD staff Number of processes
Activities	
4.2.1. At least 8 consultancy requests honoured on demand  4.2.2. Follow-up of at least 5 processes (e.g. COP, SBSSTA, PIC...)	

Table 24: logframe (partim) for SO4., 4.2.

**Activities:**

As of 2016, participation and support of RBINS in processes of importance such as the negotiation and elaboration of Indicative Cooperation Programmes (PIC) should be initiated and systematised at an early stage to ensure that they take in to account effectively environmental and biodiversity issues. This is also the case for RBINS contribution to the work of « Trans-Sectorial Teams » (TSTs). The participation into the PIC processes should include a mission at the start of the process to give an introduction to relevant stakeholders in the partner countries. However, as has been the case in 2013 and the beginning of 2014, delegation of local persons of confidence to on-going processes of mixed commissions is done, since RBINS lack permanent representation abroad. This was the case for the forum 'FABAC' in DR Congo (Forum des Acteurs Belges Actifs en RD Congo), organised by the Belgian embassy in Kinshasa.

Support will also continue to be carried out on a demand-driven basis for other types of procedures or activities. Next to the ones listed under 4.1, examples of support include:

- continue the current support in the CBD process on themes relevant to development cooperation,
- consultancies in selection procedures of IFS, VLIR-UOS and ARES
- the participation of M. Vanhove as a lead author within the IPBES African regional assessment.
- Punctual guest lectures at Belgian universities about the link between biodiversity and development

CEBioS is also part of a peer review exercise by the 'Dienst Bijzondere Evaluatie' for Belgian actors providing policy support to DGD.

Marie-Lucie Susini, as the Belgian GTI National Focal Point will participate in SBSTTA20 that will take place in Montreal, Canada from 25 to 29 April 2016. Indeed SBSTTA19 made recommendations related to the GTI and the GTI Coordination Mechanism will meet at SBSTTA20 and discuss on how to encourage Parties and other Governments in 2017-18 envisioning the activities in support of the GTI for achieving Aichi Biodiversity Targets at various levels. Moreover, on-going capacity building activities can be demonstrated at a Kiosk during SBSTTA20 and ML Susini will present the capacity-building activities of the Belgian GTI NFP. The results of the GTI alumni workshop will be very useful for the kiosk, thus it is important that the workshop takes place before April 2016.

Following her participation in SBSTTA20, it is likely that ML Susini will participate in COP13 in December 2016 in Mexico, as GTI NFP and certainly pilot on several issues linked to biodiversity and development.

## Budget for SO4

SO4 To improve the mainstreaming of biodiversity and ecosystem services in policy sectors that have a high relevance for development		Budget		
		operations	missions	Total
<b>IR 1</b>	<b>4.1 Expertise of Belgian Development Cooperation is built</b>	<b>8000</b>		<b>8000</b>
<b>4.1.1.</b>	Training provided: (Based on request) around the theme “biodiversity, ecosystem services and development cooperation”			
<b>IR2</b>	<b>4.2 Biodiversity and ecosystem services are mainstreamed in activities supported by the Belgian Development Cooperation</b>		<b>10000</b>	<b>10000</b>
<b>4.2.1</b>	At least 8 consultancy requests honoured on demand			
<b>4.2.2</b>	Follow-up of at least 5 processes (e.g. COP, SBSSTA, PIC...)		10000	10000
<b>Total</b>		<b>80000</b>	<b>10000</b>	<b>18000</b>
<b>Salaries</b>				<b>50,378 €</b>
<b>Total with salaries</b>				<b>68,378 €</b>

Table 25: summary of the budget for SO4.

## Specific objective 5. The RBINS and DGD unit D2.4 improve the knowledge on the measurement, reporting and verification (MRV) of policy choices and activities linked to biodiversity and ecosystem services.

### **Background**

The RBINS, as CBD National Focal Point, has been the coordinator of the Belgian reporting obligations under the Convention on Biological Diversity. Till recently, such reporting under the CBD was largely confined to descriptive information. With the adoption of the Strategic Plan for Biodiversity 2011- 2020 and the Aichi Biodiversity Targets, countries, including developing countries, will have to formulate indicators and gather data that will feed these.

The elaboration and formulation of indicators (largely a regional competence in Belgium) and the establishment / follow-up of formal 'MRV' processes is a relatively new field of expertise for us and we will need to build our own capacities to become fully operational. This year will be used to explore the most relevant means of building our capacities in synergy with DGD Service D2.4, which benefits from many years of experience in the follow-up of all three Rio conventions (climate, biodiversity, desertification). The recent recruitment of Dr. Maarten Vanhove and Ir. Anne-Julie Rochette are instrumental in this. They started in January 2015, in order to develop this specific objective, together with SO6. Given existing expertise within CEBioS/RBINS and in Belgium, we will focus on certain Aichi targets, some of which currently poorly documented for indicators. In general, the proposed focus Targets are linked to the use of ecosystem-services and socio-economic impact. Examples include Targets 2 (integration of BD values), 3 (incentives), 6 (fishery), 7 (sust. management), 8 (pollution), 9 (IAS), 11 (ecological network), 14 (ecosystems and essential services), 18 (TK).

<b>SO5 and the Sustainable Development Goals</b>
15.8 By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species
17.6 Enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and innovation and enhance knowledge sharing on mutually agreed terms, including through improved coordination among existing mechanisms, in particular at the United Nations level, and through a global technology facilitation mechanism
17.9 Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the sustainable development goals, including through North-South, South-South and triangular cooperation
17.15 Respect each country's policy space and leadership to establish and implement policies for poverty eradication and sustainable development

17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries

17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships

17.19 By 2030, build on existing initiatives to develop measurements of progress on sustainable development that complement gross domestic product, and support statistical capacity-building in developing countries

## ***Expected results***

5.1. Expertise of the RBINS on MRV is built.

5.2. Methodologies to assess progress towards the Aichi Targets are available

Outcome:

RBINS provides advice on MRV to different authorities

Tool developed used to monitor and report achievement of Aichi targets in Belgium and in partner countries

## ***Expected result 5.1. Expertise of the RBINS on MRV is built***

### **Description:**

To get capacity on the MRV procedures and best practices is a learning process, both at RBINS, DGD as in the developing countries. The scale may differ, from NBSAPs to environmental reporting on one particular sector (e.g. mining industry). It is related to dissemination, e.g. through the CHM (SO<sub>2</sub>).

In 2016, we will continue our internal capacity building through collaborations within Belgium and abroad, either with teams specialising in impact assessment and indicator development, and with institutions where data or collections are available which can be mobilised for MRV of biodiversity and biodiversity policy.

**Logframe (partim):**

<b>Expected results (ER)</b>	<b>Output Indicators</b>
5.1. Expertise of the RBINS on MRV is built.	The EU reporting tool for NBS's is developed in cooperation with the CHM network The reporting tool is used for the follow up of the implementation of national strategies and the reporting towards the Aichi targets
<b>Activities</b>	
5.1.1. expertise concerning MRV built up in conjunction with DGD	

Table 26: logframe (partim) for SO5, 5.1.

**Activities:**

During the first two years of the programme, activities focused on consolidating all relevant information on MRV and **identifying existing best practice**, via the literature and contact with experts. This mapping of expertise, research and development projects in Belgium will continue in 2016 in order to increase the efficiency of science-policy interface, facilitating a better transfer of science to real world scenarios of sustainable development. It will be explored how other institutes or expertise can be mobilised to collaborate with RBINS for concrete applications in developing countries and for reporting about development cooperation at the Belgian level.

At the CBD level, follow-up of the progress of the Ad Hoc Technical Expert Group (AHTEG) on Indicators for the Strategic Plan for Biodiversity 2011 – 2020 will be an essential part of the RBINS capacity building throughout the multiannual plan.

Based on results under expected result SO5.2, a **transversal assessment** will be carried out on MRV links with all programme activities. The assessment will aim at identifying all activities that can help establishing methodologies for MRV in the context of Belgian Development Cooperation (one aspect already under way) and, on the other hand, determine what activities can/should be monitored through new MRV methodologies.

Sustainable Development Solutions Network (SDSN) of the United Nations: peer review and input of contents for web site and panel papers.

All internal capacity building efforts will be closely tied to lessons learned in activities under SO5.2. Moreover, SO5 is also linked to the interventions under SO1, 1.3..

MRV expertise building can be considered at various levels: the data collection level, technical capacities for indicators establishment, use of MRV for policies, international collaboration

## Data collection and translation for the science/policy interface

Collection of data, and valorising them for the science/policy interface, in testcases in the framework of larger research projects with external funds BRAIN (and where CEBioS can be co-promotor), such as KLIMOS, VLIR-UOS, ARES... in order to feed data to empower our partners in the South to implement Aichi targets. While a number of applications with VLIR were successful, our BRAIN and FWO project applications were not retained. Examples are mentioned in the following table:

Project topic	Country	Partner institute South	Partner institute North	Aichi Target
Macro-invertebrates as bio-indicators and in ecotourism	D.R.Congo	ICCN (Parc Marin des Mangroves)	KU Leuven (MSc internship) ULB	6, 8, 11
Integrated management of African lakes	Tanzania	NM-AIST Tanzania National Parks various stakeholders	KU Leuven (VLIR-NSS, MSc internship)	6, 7, 11, 14, 18
Amphibian health for conservation, indicators, ecotourism	South Africa	NWU	KU Leuven (VLIR, sandwich PhD)	11, 14, 18
Habitat monitoring of wetlands	Burundi	OBPE, Unibu	VUB (VLIR-SI)	6, 8, 11
Impact assessment of pollution on aquatic ecosystems	D.R.Congo	Unilu	KU Leuven, UA, RMCA (VLIR-SI)	6, 8
Sustainable management of aquatic biological resources	Morocco (host) with participants invited from Benin, Burkina Faso, Cameroon, D.R.Congo, Ivory Coast, Madagascar, Morocco	UM5 (host) + home institutes of participants Université Félix-Houphouët-Boigny, Université Yaoundé I (invited experts South)	KU Leuven (VLIR-STI) IRD RMCA College of Charleston (USA)	6, 7, 8, 9
use of existing collections or herbaria for	a range of African countries, mainly D.R.Congo	CSB ICCN Unilu	RMCA BGM	6, 7, 9

determining baselines and to identify bioindicators of anthropogenic change		ISP Mb-Ng CRH-U ...	MUNI UHasselt IRD	
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### Technical capacities for indicator establishment

- Technical capacities identified during the 2015 MRV call as contributing to the establishment of indicators should be a focal subject for our internal capacity building (e.g.: data acquisition and publishing, database management, GIS, ecosystem services valuation,...)
- Develop a policy brief/best practices/opinion paper on MRV based on our experience from launching the 2015 call. Think about a journal to publish the policy brief: both in the peer-reviewed scientific literature (criterion for becoming a partner in the BIP) as sensibilisation in the sector of policy/development/nature conservation.

### Use of MRV for policies

- Review of ToR and identification of indicators for environment for the preparation of DGD cooperation programmes;
- Explore ways to make scientific data usable and improve the science/policy interface (including providing an extension to existing projects, see examples above)

### International context

- Become a partner of the BIP (Biodiversity Indicator Partnership)
- Actively attend international workshops on biodiversity indicators, e.g. Leipzig, July 2016: GEO BON Open Science Conference (“Biodiversity and Ecosystem Services Monitoring for the 2020 Targets and beyond”) and GEO BON All Hands Meeting
- Keep informed on evolutions of existing proposed biodiversity indicators: EBV (Essential Biodiversity indicators), AHTEG proposition, BIP tool, SEBI indicators, information on MRV for REDD+
- Participate in a side-event on biodiversity indicators (to be confirmed) at CBD COP 13 to share experience on the MRV call developed in SO5.2.

## ***Expected result 5.2. Methodologies to assess progress towards the Aichi Targets are available***

### **Description:**

The development of methodologies are necessary for the three levels of MRV, measurement, reporting and verification. This terminology is mostly used in conjunction with the United Nations Framework Convention on Climate Change (UNFCCC), REDD+ and environmental assessments, e.g. for the mining

industry. It is important for DGD, RBINS and the DGD programme to remain updated concerning the global trends in MRV in order to apply it as much as possible in the mainstreaming, policy support, and NBSAPs in developing countries. The budget of SO 1.3 directly contributes to this process.

**Logframe (partim):**

Expected results (ER)	Output Indicators
5.2. Methodologies to assess progress towards the Aichi Targets are available	National indicators are developed and used for reporting towards the Aichi targets
<b>Activities</b> 5.2.1 MRV tools are developed and implemented (e.g. through project calls and other)	

Table 27: logframe (partim) for SO5, 5.2.

**Activities:**

Partnerships are undertaken, with a view to stimulating dialogue between science and policy, with **ministries and universities in partner countries and relevant Belgian experts** (to be determined) in order to launch pilot projects on best practice. The objective will be to develop, assess or put into practice indicators developed by various countries in the framework of their National Biodiversity Strategies. Selected countries for this analysis will preferably be current partner countries of our programme. Other countries (either in the North or South) could be chosen for the quality of the proposed indicators. In 2016, this call will build on our long-term collaboration with the environmental authorities of the D.R.Congo and focus on the network of antennas for biodiversity of the former provinces. Other Congolese government or official higher education institutions will also be allowed to apply, pending the relevance of their activities to the Congolese NBSAP and maintaining the “tandem” approach of the 2015 MRV call, linking governance and science actors in joint projects.

- Contents:
  - A government authority in collaboration with an institute/research center providing relevant data
  - Objective: fill the gap between data collection and use by the government authority for reporting/follow-up of the state of biodiversity and biodiversity policies
  - Ask if technical support is requested (involve Belgian researchers specialized in the field)
  - Opening workshop to discuss priorities and requests from the partner countries, and offering content relevant to MRV processes, such as GBIF, GIS, economic valuation of ecosystem services, ethnobiology...
  - Closing workshop to discuss best practices, lessons learnt, conclusions and perspectives (in 2016 for 2015 call: October, Cotonou, Benin)

- Criteria for selection:
  - Sustainability: follow-up of the indicators for the next years
  - Available data & institutional experience locally and in Belgium
  - Structure for MRV proposed/in place/analysed in the country: Importance of a coherent institutional structure for MRV from data provision to data delivery, reporting
  - Relevance with BIP objectives and NBSAP
  - Jury: CEBioS scientific staff members; external specialist from BIP; specifically for 2016 call, focusing on D.R.Congo: external specialist from Congolese ministry of environment
- Proposed indicators to which the MRV call 2016 may contributed (based on drafts of the new Congolese NBSAP, as discussed with the NFP):

2 Réduction des pressions exercées sur les habitats naturels	- Tendances concernant l'état et la vulnérabilité des écosystèmes
	- Pourcentage d'habitats naturels convertis
3. Pêche durable	- Tendances concernant l'étendue, la fréquence et/ou l'intensité des pratiques de pêche destructrices
4.1. Gestion des aires protégées	- Tendances concernant l'efficacité de gestion des aires protégées
	- Pourcentage d'aires protégées dotées d'outils de gestion pertinents
4.2. Réseau d'aires protégées représentatif des régions écologiques du pays.	- Taux de couverture nationale des aires protégées
	- Tendances en matière de couverture représentative des aires protégées et d'autres actions locales, y compris des sites d'importance particulière pour la biodiversité et pour les écosystèmes terrestres et des eaux intérieures
5. Sauvegarde des espèces de faune et de flore menacées d'extinction	- Tendances en matière d'abondance et de répartition des espèces sélectionnées
6.2. Promotion des paiements des services environnementaux	- Tendances concernant les services environnementaux valorisés
7. Restauration	- Couverture des écosystèmes restaurés

It will be possible to **develop methodologies** to measure progress on other indicators if the majority of the partner countries are using more or less comparable indicators. Assessed indicators that will be considered will then be used to measure progress of relevant activities undertaken in this programme, such as activities developed under SO1.

The development of indicators for the measurement of **progress** is also part of our programme via the activities under specific objective 3. The results of these activities will feed discussions at various levels (with partner countries, within CBD processes, etc.) and will hopefully be disseminated for wider implementation. After a call for French-speaking partner countries (2015), D.R.Congo (2016) and English-speaking partner countries (2017), the next call will favour follow-up applications from the first round, to allow the evaluation of progress over the course of three years.

As for **reporting** methodologies, one of the efforts will be focused on the new tool that is under development at the EU CHM. The Belgian CHM is an active player in the **construction of a tool** that will be at the centre of the reporting processes on Aichi targets. The use of this new tool by partners countries will be ensured through the training activities planned under SO2.1.

### Budget for SO5

		operations	missions	total
<b>IR 1</b>	5.1. Expertise of the RBINS on MRV is built.		On external projects	
<b>5.1.1</b>	5.1.1. expertise concerning MRV built up in conjunction with DGD	3000		3000
<b>5.1.1.1</b>	5.1.1. expertise concerning MRV built up in conjunction with DGD			
<b>5.1.1.2</b>	recruitment of new scientist for contribution to OS4, 5, 6			
<b>IR2</b>	5.2. Methodologies to assess progress towards the Aichi Targets are available			
<b>5.2.1</b>	5.2.1 MRV tools are developed and implemented (e.g. through project calls and other)			
5.2.1.1	- Indicators on resource mob and poverty	500	0	500
5.2.1.2	- Pilot projects on feeding data to indicators	20000		20000
Total		23500	0	23500
<b>Salaries</b>				38,236 €
<b>Total with salaries</b>				61,736 €

Table 28: summary of the budget for SO5

## Specific objective 6. The RBINS and DGD unit D2.4. raise awareness on, and build capacities for, the implementation of the Nagoya Protocol on Access and Benefit Sharing in Belgium and in developing countries.

### **Background**

In Belgium there is relatively limited experience on genetic resources, access and benefit sharing provisions or traditional knowledge associated to the use of genetic resources.

The new programme framework rightly makes of the Nagoya protocol the sixth pillar of our activities. As a preparation for years to come, members of the team started in 2014 documenting and building capacities on this matter. Also, the ABS-Clearing House will be linked to the national CHM.

### **Expected results**

6.1. The RBINS and DGD are familiar with the obligations under the Nagoya Protocol.

6.2. Awareness of the scientific community on the Nagoya Protocol is raised. As outlined in the section below, capacities will first be built within RBINS. Information and training for other stakeholders, including DGD, was due to start as of 2014. Due to a delay in recruitment, and to the fact that The Protocol of Nagoya has only been ratified in October 2014, SO 6 will be more developed from 2015 onwards. Meanwhile, ABS clearing house received a lot of attention in 2014 with the work of Han de Koeijer.

Outcome:

RBINS provides advice to Belgian cooperation on Nagoya Protocol and DGD is better informed about the NP. Nagoya Protocol is better known in partner countries

#### **SO6 and the Sustainable Development Goals**

2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

15.6 Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources, as internationally agreed

**Expected result 6.1. RBINS and DGD are familiar with the obligations under the Nagoya Protocol**

**Description:**

The year 2015 will be devoted to the follow-up of the Nagoya Protocol on Access and Benefit-Sharing, its implementation at the Belgian, European and international (cooperation partners) level. The consolidation of internal capacities is a prerequisite for the provision of training and support to DGD, our partners and any other relevant stakeholder.

Several members of the team are already part of both the Belgian and European working groups on the Nagoya Protocol and have attended meetings and workshops held in 2012, 2013 and 2014 regarding this matter. The Intergovernmental Council on the Environment of Belgium has extended the responsibility for the mandate of the CHM to include the ABS Clearing House (ABS-CH) in November 2013. Han de Koeijer has followed on the development of the ABS Clearing House in 2014 and 2015, and will continue doing this in 2016 with other colleagues.

**Logframe (partim):**

Expected results	Output Indicators
<p><b>6.1. The RBINS and DGD are familiar with the obligations under the Nagoya Protocol.</b></p>	<p>Number of meetings on NP attended            Number of staff members aware of the implications of Nagoya Protocol implementation: 2 members of staff trained            Researchers and other stakeholders are aware on the implications of the NP on their way to work.</p>
<p><b>Activities</b></p> <p>6.1.1. A flyer has been developed about "the Nagoya Protocol and implication for collecting species in non-European countries".</p> <p>6.1.2. One to 2 briefing papers on developments of the NP will be prepared each year.</p> <p>6.1.3. to attend meetings to get acquainted with the Protocol of Nagoya and to follow up developments</p>	

Table 29: logframe (partim) for SO6, 6.1.

**Activities:**

One of the main activities will be to follow the development of EU and Belgian legislation as well as on developments on the global level. This implies involvement of one person in the ABS/Nagoya Protocol working group at both levels. Participation in about 3 international meetings is foreseen in 2016.

Participation to the international working group on capacity building for the Nagoya Protocol is also part of the activities as Han de Koeijer was accepted by the Secretariat as expert.

Information on the implementation of the NP in the partner countries will be followed closely. The national legislation of the partner countries will be analysed to check their implications for the collection of specimen in the countries. Special attention will be put on implications for the export of species for research purposes by national researchers that will come to Belgium under DGD funding.

Briefing papers will be sent on a regular basis to the DGD to inform them on issues that have implications for developing cooperation. Now that the Nagoya protocol is ratified, an information flier for Belgian target publics will be produced. Prior to that, we intend to identify the knowledge gaps and anxieties amongst concerned scientists, collection managers, curators.

***Expected result 6.2. Awareness of the scientific community and other stakeholders on the Nagoya Protocol is raised*****Description and activities:**

Scientists from Belgium will continue to collect species. We will continue to seek a better efficiency at the science-policy interphase. Whenever they bring those species in to Belgium, the Belgian Government will probably have the obligation to check that the necessary information in relation to Prior Informed Consent (PIC) and Mutual Agreed Terms (MAT) for the use of the species has been respected.

In order to ensure that scientists that travel abroad for collection purposes are aware of the extra paperwork, they need to be informed of the implications of the NP.

Information on ABS and the NP will be communicated through the national CHM. A special section will be developed in collaboration with the ABS national focal point of Belgium. For 2016, some partner countries, such as Ivory Coast have expressed their desire to organise a regional meeting on ABS-CH. We will explore the possibility to support such initiatives.

Logframe (partim):

<b>Expected results</b>	<b>Output Indicators</b>
6.2. Awareness of the scientific community and other stakeholders on the Nagoya Protocol is raised.	A special section on the Belgian Clearing House on "Frequently Asked Questions on the Nagoya Protocol" has been developed and is updated regularly.. Number of fliers Number of information sessions
<b>Activities</b>	
6.2.1. information sessions are organised 6.2.2. development of section on NP in CHM. 6.2.3. Further actions will depend on the decisions during COP11 and NP COP/MOP1	

Table 30: logframe (partim) for SO6, 6.2.

**Budget for SO6**

		Operation	Missions	Total
<b>IR 1</b>	<b>6.1. The RBINS and DGD are familiar with the obligations under the Nagoya Protocol.</b>			
6.1.1	A flyer has been developed about "the Nagoya Protocol and implication for collecting species in non-European countries".	5500		5500
6.1.2	One to 2 briefing papers will be prepared each year			
6.1.3	to attend meetings to get acquainted with the Protocol of Nagoya and to follow up developments			
<b>IR2</b>	<b>6.2. Awareness of the scientific community and other stakeholders on the Nagoya Protocol is raised.</b>			
6.2.1	information sessions are organised	13500	6000	19500
6.2.2	development of section on NP in CHM			
6.2.3	Further actions			
	<b>Subtotals</b>	<b>19000</b>	<b>6000</b>	<b>25000</b>
<b>Total</b>				<b>25000</b>
<b>Salaries</b>				<b>17,163</b>
<b>Total with salaries</b>				<b>42,163 €</b>

Table 31: summary of the budget for SO6

## 7. Programme coordination and management

### ***Background***

The year 2016 will be a consolidation and a further development and extension of the networks, modalities and systems established by the coordinator for a results-based coordination and management of CEBioS in the framework of the starting 10 year strategy 2014-2023, phase I (2014-2018).

#### **Outcome:**

The project is properly coordinated and managed in order to implement smoothly the 16 expected results under the 6 specific objectives

### ***Expected Results***

- 7.1. Coordination
- 7.2. Management

#### **Description:**

The CEBioS programme is a policy support and capacity building unit under the Operational Direction 'Natural environment' or 'Nature' of RBINS (headed by the operational director Dr. Patrick Roose). It is coordinated and managed by the coordinator (Luc Janssens de Bisthoven), an administrative support staff (3 persons: Mariam Agarad, Vincent Pinton, Kristien Vrancken) and 6 scientists (Han de Koeijer, François Muhasy, Marie-Lucie Susini, Maarten Vanhove, Anne-Julie Rochette, Katrijn Baetens), with the active support of senior scientist Erik Verheyen, concerning the capacity building in Kisangani (RDC).

**Logframe (partim) :**

7. Coordination and Management	Key indicators (OVI) and targets
<b>Expected results (ER)</b>	<b>Output Indicators</b>
7.1. Coordination	Annual plan Annual report Recruitments Trainings Project website Fliers, stand New partners, synergies and projects
7.2. Management	Number of trainees in Belgium Number of qualitative trainings, workshops, symposia, projects, awareness campaigns and functioning CHM websites in developing countries Audit Paperwork Functional computers, equipment (servers...)
<b>Activities</b>	
7.1.1. preparation of the year programme and preparation of the annual report 7.1.2. Human resources and internal capacities 7.1.3. Communication with direction of RBINS, DGD and other stakeholders and visibility 7.1.4. Prospection for synergies, partners, projects and external funding 7.1.5. motivation, support and incitement of staff to reach targets within strategy and activity programme including mid-term evaluation and general coordination	
7.2.1. organisation of the mobility of the trainees to Belgium 7.2.2. financial management 7.2.3. administration 7.2.4. ICT	

Table 32: logframe (partim) for ‘coordination and management’

**Activities:**

- 7.1.1. preparation of the year programme and preparation of the annual reports, both for RBINS and for DGD. It is a recurrent activity.

- Highlights per trimester, to be reported to RBINS.
- 7.1.2. Human resources and internal capacities. It is a continuous process. Special attention is given to 'development circles' and the coordinator regularly attends special training in team development.
- 7.1.3. Communication with direction of RBINS, DGD and other stakeholders and visibility. Day to day activities and embedding into the RBINS platform 'BIOPOLS' as a unit within the operational Direction 'Nature' of RBINS.
- 7.1.4. Prospection for synergies, partners, projects and external funding. Reacting on calls, but also networking with NGOs and NGAs (e.g., IFS, VVOB, VLIR-UOS, ARES, Dienst Bijzondere Evaluatie, BELSPO, Gemeenschappelijke Contextanalyses).
- 7.1.5. Motivation, support and incitement of staff to reach targets within strategy and activity programme including mid-term evaluation (preparation in 2016) and general coordination. Implementation of the 'development circles' compulsory for the administrative and technical staff of the federal government.
- 7.2.1. Organisation with the secretariat of the mobility of the trainees to Belgium. Procedures are continuously updated and improved to be a professional organisation and an excellence centre for Biodiversity and sustainable development.
- 7.2.2. Financial management. Day to day activity, special attention to financial and narrative report flows, contract flows, and close cooperation with the financial service of RBINS.
- 7.2.3. Administration. Day to day, issues of personnel
- 7.2.4. ICT. Purchase of small equipment and servers in cooperation with the ICT department of RBINS according to budget, helping with establishment of a more formalised ICT strategy within DO 'Nature'. Han de Koeijer has the lead in this.
- General aspects of representation, networking and communication, formulation and evaluation missions

## Budget for Coordination

		Operations	Missions	Total	On saldos and external projects
<b>7.1.1</b>	Preparation of the year programme (AP) and preparation of the annual report (AR)				
<b>7.1.2</b>	Human resources and internal capacities				
<b>7.1.3</b>	Communication with direction of RBINS, DGD and other stakeholders and visibility				
<b>7.1.4</b>	Prospection for synergies, partners, projects and external funding				10000
<b>7.1.5</b>	Motivation, support and incitement of staff to reach targets within strategy and activity programme, including mid term evaluation and general coordination		2000	2000	
<b>7.2.</b>	<b>Management</b>				
<b>7.2.1</b>	Organisation of the mobility of the trainees to Belgium				
<b>7.2.2</b>	Financial management				
<b>7.2.3</b>	Administration				
<b>7.2.4</b>	ICT				
<b>Total</b>			<b>2000</b>	<b>2000</b>	
<b>Salaries</b>				<b>113,629 €</b>	
<b>Total with salaries</b>				<b>115,629 €</b>	

Table 33: summary of the budget for SO7

The role of the programme coordination is to ensure the coherence and integration of the various components of the cooperation protocol. It also plays an important role of synchronisation with the activities of all project partners: the other RBINS departments, other institutions such as the RMCA, BG of Meise and universities, NGOs, as well as administrations in Belgium and abroad, including the Belgian embassies. As part of our networking activities, we will continue to exchange information and experiences with other Belgian and international actors involved in biodiversity-related issues. Among our usual partners, we will continue working closely with the CBD Secretariat, in Montreal, as well as with other UN-agencies and programmes and with IUCN and others (e.g. WWF, the group 'conservation biology' of RBINS etc).

Annex 1: Log-frame matrix (for 5 years, 2014-2018)

See next pages

Annex 2: operational plan (2016)

See Exel file

Annex 3: Sustainable Development Goals and CEBioS objectives

## Annex 1: Logical framework for the period 2014-2018 of the DGD-RBINS programme

The baseline for the targets can be consulted in the following table, taking the outputs of the last five years:

	2008	2009	2010	2011	2012	Total 5 years
Calls:	4	4	4	4	4	20 calls
Int. Meetings:	3	3	4	1	3	14 intern meetings
Projects South:	3	11	7	6	8	35 projects South
Trainings S+field wrk:	10	12	9	12	11	54 training/worksh/ field w South
Trainings North:	1	1	8	1	2	13 training North
Trained persons:	180	274	307	390	177	1328 trained
Graduates	5	0	1	7	1	14 PhD
ABCtaxa	1	1	3	2	1	8 abc Taxa
Lexica		1		1	1	3 lexica
Pub Other (third)	>10	19				>60 publ by third
Archives			3 series/90 books	4 series	5 series	12 series / 90 books digit and sent
Symp, sem in Belg	1	1	1 major event CEPA	1 survey	1 self ass/ 3	>8 seminars/sympos in Belgium

## Complete LOGFRAME of the DGD-RBINS Programme 2014-2018

Overall objective	Indicators (OVI)*	Source of Information (SOV)	Assumptions
<p>To build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, as a contribution to poverty reduction and sustainable development worldwide,</p> <p>with emphasis on ecosystem services and policy support</p>	The loss of biodiversity is significantly reduced (global headline indicators)	International reports such as the Global Biodiversity Outlook and others	Governments, organisations and stakeholders have taken actions to stop the loss of biodiversity. Indicators are available to measure this.
	<p>Implementation of National Biodiversity Strategies and Actions Plans (NBSAPs). Integration of biodiversity issues in Poverty Reduction Strategy Papers.</p>	National and thematic reports of countries submitted to the Convention on Biological Diversity	Policy makers have the information they need to take good decisions on the conservation and sustainable use of biodiversity. Governments are committed to CBD implementation.

Specific objectives (SO)	Expected results (ER)	Key indicators (OVI) (see details in text for lay-out reasons)	Source of Information (SOV)	Assumptions
		Outcome indicators		
SO1 To strengthen the scientific and technical knowledge base on biodiversity and on its linkages with ecosystem services and poverty reduction		<ul style="list-style-type: none"> <li>• Scientists' apply their expertise, enabling them to better study and understand biodiversity and ecosystem services and better promote and disseminate the value of biodiversity to society (1.1. and 1.2.) Production of papers, policy briefs and participation to conferences, seminars etc... are indicators for the good functioning of scientists</li> <li>• Selected partner institutions carry out their mandate related to biodiversity (add 1.2, 1.3. and 1.4.)</li> <li>• Rangers monitor and report habitat changes of areas of high interest for biodiversity (1.2.)</li> <li>• the staff of of the partner institutions carry out research on biodiversity and ecosystem services (1.2.,1.3., and 1.4. )</li> <li>• The mathematical Coherens model, aimed at predicting scenarios of water and sediment transport as well as biotas is applied, to answer questions about marine biodiversity by partner countries. A North South South network for Coherens users is functioning. Integrated coastal management plans are developed by local authorities (1.2.)</li> <li>• National indicator processes receive input (1.3)</li> <li>• Number of Scientific output accessible and disseminated and used by stakeholders. (1.4.)</li> </ul>		

			Output indicators and targets		
1.1. Scientific and technical expertise is built	ER Nr.	1	<ul style="list-style-type: none"> <li>•National authorities use the information provided by SO1 in the national indicator process</li> <li>o12-18 students trained / year will produce: 8 posters and/or oral presentations given at national or international events/ year;</li> <li>o5 publications in scientific journals or general media/ year;</li> <li>o3 who graduate (Master or Ph. D.)/ year;</li> </ul>	Reports of training, evaluations of trainees and trainers	The requested expertise is found at the RBINS and in Belgium. Trained professionals are able to put their acquired knowledge in practice. Authors and reviewers are available to contribute to the AbcTaxa manuals and to the teaching material.
<p>1.2 Quality scientific knowledge is produced and used for the better understanding and management of biodiversity in partner countries (4 parts: A, B, C and D)</p> <p>1.2.1.(A) Supporting taxonomic research</p> <p>1.2.2.(B). Supporting the monitoring of habitats for the management of ecosystems</p> <p>1.2.3. (C). Cooperation with the University of Kisangani for the taxonomic study and the monitoring of lowland forests</p>		2	<p>A</p> <ul style="list-style-type: none"> <li>•number of trained students trained / year will produce ;</li> <li>opublications in scientific journals and general media;</li> <li>ograduates (Master or Ph. D.);</li> <li>oin-country training courses as multiplier effect and additional people trained. Results will be valorised through publication in renowned science journals. They will also be used under SO1.4. A and B to produce vulgarisation tools.</li> </ul> <p>B</p> <ul style="list-style-type: none"> <li>•At least one training per country is organized and is followed by two applications campaigns on the field. 30 people trained in the habitat monitoring,</li> <li>•Syllabi produced and/or updated (see also 1.4.B)</li> <li>•equipment purchased.</li> <li>•4 articles published in peer reviewed journals,</li> <li>•4 lexicons will be finalized and used, see also SO1-4b</li> <li>•over 5 years : 2 PhD students,</li> <li>•6 master students finalised their thesis,</li> <li>•5 oral contributions (participation to meetings, conferences, lectures, seminars...)</li> <li>•5 information exchange sessions have been organised in relation with poverty reduction related subjects of the studies.</li> </ul> <p>C</p> <ul style="list-style-type: none"> <li>•3 PhD students identified</li> <li>•3 PhD students/year followed training supervised by expert in Belgium/ elsewhere (total=15)</li> <li>•For 3 PhD students: 1 local visit/2years by supervisor (total=9)</li> </ul>	Degrees, peer reviewed scientific publications, new projects, data produced, workshop reports, List of questions and solution of problems addressed in E-coaching and user forum (Coherens)	

	1.2.4.(D) Application of the COHERENS model for integrated coastal management and monitoring of ecosystems		<ul style="list-style-type: none"> <li>•1 'atelier de restitution'/year for the 3 PHD students after their training framed in the context of poverty reduction related subjects of the studies (total=4+the PhD defence)</li> <li>•2 publications in scientific journals/PhD student (total=6).</li> </ul> <p>D</p> <ul style="list-style-type: none"> <li>•A review of the presentation of the specific research questions of the partner institutes</li> <li>•Number of scientific output (presentations, conference)</li> <li>•Strategic management plans concerning Coherens for the institute and local authorities</li> <li>•Number of qualified trainee ex-post reports within the visitors programme</li> <li>•3 policy briefs are to be produced by the partners</li> <li>•Documentation of the Developed modules for COHERENS available.</li> </ul>		
	1.3. Monitoring data is fed into national indicator processes.	3	<ul style="list-style-type: none"> <li>•in at least 4 partner countries of the belgian development cooperation data from monitoring activities are integrated in at least one of the indicators for the follow up of the respective national strategy.</li> </ul>	National reports	
	1.4. Scientific outputs are made accessible to users	4	<ul style="list-style-type: none"> <li>•At least 5 Abc Taxa manuals have been produced during the 5-year period dissemination per volume</li> <li>• Supporting/disseminating materials formerly produced</li> <li>• 4 lexicons,</li> <li>• Syllabuses produced and/or upgraded,</li> <li>• participation by staff members in 5 events relevant to taxonomic popularisation tools development/capacity building.</li> <li>• feedback on the use of courses available.</li> <li>• results of at least 5 projects and public awareness activities under SO1-1 and SO1-2 are published on the internet on <a href="http://www.taxonomy.be">www.taxonomy.be</a> or a national CHM website if available.</li> </ul>	Abc Taxa manuals, GTI website with teaching material and information. teaching materials; purchase and shipment orders of small equipment	
Specific objectives (SO)	Expected results (ER)	ER	Key indicators (OVI)	Source of Information (SOV)	Assumptions
<b>Outcome indicators</b>					
SO2 To enhance the information base on biodiversity and on its linkages with ecosystem services and poverty reduction and on associated governance			<p>Information is the basis of empowerment. Empowerment of the civil servants and decision makers allow them to be more aware of the global and local issues about biodiversity and sustainable development. This enables them to inform the large public, hence enhancing their ownership and increasing the transparency of governance processes. The support of CHM processes contributes to that and to a more efficient science-policy interphase, and hence a more science based policy in the long term.</p> <ul style="list-style-type: none"> <li>• Professionals in 10 partner countries and 5 neighbouring non-partner countries through South South cooperation are participate to their national CHM (2.1., 2.2.) Number of people (not CHM nfp) that add information to the sites.</li> <li>• Partner institutions fulfil their role as a national information centre on biodiversity (2.2., 2.3.)</li> </ul>		

processes (CHM)			<ul style="list-style-type: none"><li>• level of networking and activity increased at governance level (2.2 and 2.3)</li></ul>		
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		Output indicators and targets			
	2.1. Expertise in information management is built	5	<ul style="list-style-type: none"> <li>• 10 national training workshops,</li> <li>• 120 persons trained,</li> <li>• follow-up training has been organised in at least 8 partner countries.</li> <li>• 5 countries participate in the information management/ CHM network through South-South Cooperation (SSC) with one of our partner countries.</li> <li>• 70 % of the partner CHM sites have 20 pages added or updated /year.</li> <li>• Tool to follow-up the implementation of the national strategy is actively used in at least 5 countries</li> </ul>	Reports of training, evaluations of trainees and trainers	Trainees stay in post after the training and are able to put the acquired knowledge in practice. Managerial and logistic issues the updating and on-line publication of CHM websites. Partners have sufficient human resources to undertake non-Internet activities.
	2.2. Information flows are improved	6	<ul style="list-style-type: none"> <li>• CHM websites running and regularly updated: 50% of websites updated Alternative indicator : information added on the CHM partner websites during 2014-2018 has increased with 20 % compared to the period 2008-2012.</li> <li>• Number of information meetings with different stakeholders in partner countries</li> <li>• INECN strengthened : CHM website updated on a regular base (pages added/year and number of visitors per year compared to baseline of 2012), Library documented and used (number of books added in the library database, number of visitors to the library), 5+ scientific bulletins published</li> </ul>	Websites, web statistics	
	2.3. Information is used to advise governance processes	7	<ul style="list-style-type: none"> <li>• Level of activity of the network of partners: One regional workshop organised,</li> <li>• number of participation in EU and global governing activities by Be and partner countries.</li> <li>• EU tool for the follow up of the reporting on the national strategies is used in at least 5 countries for the reporting to CBD, related biodiversity Conventions and agreements.</li> <li>• Number of information meetings with different stakeholders in partner countries.</li> </ul>	Workshops reports,reports of meetings at national, regional and international level, reports of public awareness projects	
		<b>Outcome indicators</b>			
SO3 To raise awareness and communicate on the importance of biodiversity and ecosystem services for poverty reduction and sustainable development, and on associated governance processes			<ul style="list-style-type: none"> <li>o selected partner countries are better aware of baseline data of awareness about CBD when preparing policies and DGD when preparing ICP's (3.1.)</li> <li>o the awareness about the importance of biodiversity and ecosystem services is risen in partner countries at different levels (governance, general public) is enhanced/taken into account in policy making and implementation (3.2)</li> <li>o the awareness in relevant sectors in particular DGD and the actors of the Belgian cooperation in Belgium on biodiversity and ecosystem services related to development cooperation is increased and taken up in the preparation of the new indicative cooperation programmes with the partner countries (3.3)</li> <li>o NGAs and NGO programmes are involved in this exercise (3.3)</li> </ul>		

Specific objectives (SO)	Expected results (ER)	ER	Key indicators (OVI)	Source of Information (SOV)	Assumptions
			<b>Output indicators and targets</b>		
	3.1. Baselines provide an insight on the level of awareness and/or commitment.	8	<ul style="list-style-type: none"> <li>Number of public awareness projects completed,</li> <li>At least 3-5 countries will reply to the special call for projects and develop indicators for public awareness.</li> <li>In 2018 and 2019 these countries and countries that did their baseline studies and indicators development in 2011-2012 will receive can submit projects for funding to redo the same studies as undertaken in the first years. This will facilitate them to study effects and change in conception of the Public awareness work done under SO3.2.</li> </ul>	Ministry and other stakeholders reports	Willingness to work on baselines at relevant authorities
	3.2. Awareness and engagement are raised	9	<ul style="list-style-type: none"> <li>Indicators on public awareness show a positive development between 2014 and 2018.</li> <li>PA Materials are developed and used in different countries.</li> </ul>	Public awareness projects reports	Partners have sufficient human resources to undertake non-Internet activities.
	3.3. Communication and awareness raising in Belgium	10	<ul style="list-style-type: none"> <li>Number of people reached in Belgium through stands and events</li> <li>number of related communication material (posters, brochures),</li> <li>number of people attending awareness raising events or receiving material, etc.: 4-5 public awareness projects completed</li> <li>Number of events with new stand</li> <li>New stand</li> <li>Number of awareness presence in events</li> <li>courses</li> </ul>	Folders, fliers, stands, press releases, interviews, picture and movie material	
Specific objectives (SO)	Expected results (ER)	ER	Key indicators (OVI)	Source of Information (SOV)	Assumptions
			<b>Outcome indicators</b>		
SO4 To improve the mainstreaming of biodiversity and ecosystem services in policy sectors that have a high relevance for development			<ul style="list-style-type: none"> <li>More capacities in Belgian cooperation about biodiversity (4.1.)</li> <li>More reference to biodiversity and ecosystem services in Belgian cooperation (PICs, mixed commissions...) (4.2)</li> </ul>		
			<b>Output indicators and targets</b>		
	4.1. Expertise of Belgian Development Cooperation is built	11	<ul style="list-style-type: none"> <li>4 training workshops organised for the target groups decided by DGD,</li> <li>Capacities of DGD to include biodiversity in ex-ante SEA and EIA for cooperation projects are raised. Increase of biodiversity protection measures in the development cooperation</li> </ul>	Reports of trainings, evaluation of trainees and trainers	RBINS staff is requested to undertake these activities.
	4.2. Biodiversity and ecosystem services are mainstreamed in activities supported by the Belgian Development Cooperation	12	<ul style="list-style-type: none"> <li>Number of consultancy requests from DGD staff</li> <li>Number of processes</li> </ul>	Attendance to meetings, e-mails answered, notes elaborated, reports, briefing notes, workshops attended	DGD staff and Belgian decision-makers are aware of RBINS expertise.
Specific objectives (SO)	Expected results (ER)		Key indicators (OVI)	Source of Information (SOV)	Assumptions

		Outcome indicators				
SO5 To improve the knowledge on the measurement, reporting and verification (MRV) of policy choices and activities linked to biodiversity and ecosystem services			RBINS provides advice on MRV to different authorities Developed tool used to monitor and report achievement of Aichi targets in Belgium and in partner countries			
		<b>Output indicators and targets</b>				
	5.1. Expertise of the RBINS on MRV is built	13	The EU reporting tool for NBS's is developed in cooperation with the CHM network The reporting tool is used for the follow up of the implementation of national strategies and the reporting towards the Aichi targets	Monitoring tool, information on own web site	Needs and questions at DGD and RBINS well defined	
	5.2. Methodologies to assess progress towards the Aichi Targets are available.	14	National indicators are developed and used for reporting towards the AICHI targets	Monitoring tool	Willingness to use the tool Efficiency of the tool high	
Specific objectives (SO)	Expected results (ER)	ER	Key indicators (OVI)	Source of Information (SOV)	Assumptions	
		<b>Outcome indicators</b>				
SO6 To raise awareness on, and build capacities for, the implementation of the Nagoya Protocol on Access and Benefit Sharing			RBINS provides advice to Belgian cooperation on Nagoya Protocol Nagoya Protocol better known in partner countries			

			Output indicators and targets		
	6.1. The RBINS and DGD are familiar with the obligations under the Nagoya Protocol	15	<ul style="list-style-type: none"> <li>Number of meetings on NP attended</li> <li>Number of staff members aware of the implications of Nagoya Protocol</li> <li>implementation: 2 members of staff trained</li> <li>Researchers and other stakeholders are aware on the implications of the NP on their way to work.</li> </ul>	Follow-up reports, own web site	RBINS staff is involved in national and international platforms on ABS
	6.2. Awareness of the scientific community and other stakeholders on the Nagoya Protocol is raised	16	<ul style="list-style-type: none"> <li>A special section on the Belgian Clearing House on "Frequently Asked Questions on the Nagoya Protocol" has been developed and is updated regularly..</li> <li>Number of fliers</li> <li>Number of information sessions</li> </ul>	Reports on taken actions, auto-evaluations, documentation on CHM	Interest and commitment with scientific community and other stakeholders of partner countries
Specific objectives (SO)	Expected results (ER)	ER	Key indicators (OVI)	Source of Information (SOV)	Assumptions
			<b>Outcome indicators</b>		
7. Coordination and Management			The project is properly coordinated and managed in order to implement smoothly the 16 expected results under the 6 specific objectives		
			<b>Output indicators and targets</b>		
	7.1. Coordination	17	<ul style="list-style-type: none"> <li>Annual programme</li> <li>Annual report</li> <li>Recruitments</li> <li>Trainings</li> <li>Project website</li> <li>Fliers, stand</li> <li>New partners, synergies and projects</li> </ul>	Annual planning Annual report Concept notes on demand Internal trainings/workshop presentations Internal protocols and procedures correspondence	Support of operational directorate 'Nature'  Support of DGD2  Open and transparent cooperative attitude from RBINS colleagues
	7.2. Management	18	<ul style="list-style-type: none"> <li>Number of trainees in Belgium</li> <li>Number of qualitative trainees, trainings, workshops, symposia, projects, awareness campaigns and functioning CHM websites in developing countries</li> <li>Audit</li> <li>Paperwork</li> <li>Functional computers, equipment (servers...)</li> </ul>	financial plans financial reports mid term evaluation	Smooth procedures and clear communication lines
Activities see under	<b>Means:</b> 6 M Euro <b>Details:</b> annex 3 (Exel)  SO1 Act 1,570,100.0 € Sal 754,445.5 € Tot 2,324,545.5 €  SO2 Act 677,500.0 € Sal 340,005.1 €				Pre-condition: agreement between Belspo and DGD (or ministeries) signed

Tot 1,017,505.1 €

SO3

Act 535,000.0 €

Sal 251,125.3 €

Tot 786,125.3 €

SO4

Act 88,000.0 €

Sal 252,278.8 €

Tot 340,278.8 €

SO5

Act 140,504.0 €

Sal 191,476.1 €

Tot 331,980.1 €

SO6

Act 83,000.0 €

Sal 85,945.7 €

Tot 168,945.7 €

COORD

Act 30,000.0 €

Sal 569,019.1 €

Tot 599,019.1 €

#### Activities SO1

1.1.1. organise the external call, selection and mobility of 12-18 trainees per year

1.1.2. follow-up of the young scientists for scientific output and graduation

1.2.1 (A). Supporting taxonomic research through

Prospecting new partnerships in e.g. East Africa

Call for 4-5 'classical' projects

Follow-up of projects and publications/dissemination/reporting

1.2.2.(B). Supporting the monitoring of habitats for the management of ecosystems through

For DRC, Burundi, Bénin

Training + Follow up/ DRC

•Workshops + Follow up subsequent practice

•Syllabi preparation

•Expert missions

•Supplying Basic Equipment and documentation

•Collecting data on habitats state – Data base (feeding + exploitation )

•Lexica (Redaction + Publication)

<p>Promotion of research/ DRC</p> <ul style="list-style-type: none"> <li>•Contribution to the identification of the topics</li> <li>• Supporting theses: preparation + publications</li> <li>•Help to Implement the recommendations issued by research</li> <li>•Attending the CoCoCongo meeting</li> </ul> <p><b>1.2.3 (C)</b> Cooperation with the University of Kisangani for the taxonomic study and the monitoring of lowland forests through</p> <ul style="list-style-type: none"> <li>• Selection of 3 PhD candidates with a relevant research program</li> <li>• Training of the selected PhD candidates in Belgium (RBINS, RMCA, Flemish and Francophone universities, &amp; when necessary foreign experts)</li> <li>• Expert missions for local follow up of progress made by 3 PhD students</li> <li>• Financial support for fieldwork, equipment, documentation, transport</li> <li>• Financial support for 3 PhD thesis defense</li> </ul> <p><b>1.2.4. (D)</b> Application of the COHERENS model for integrated coastal management and monitoring of ecosystems through</p> <ul style="list-style-type: none"> <li>• Setting up and implementing partnerships</li> <li>• Supporting development of web sites</li> <li>• Supporting visitor programmes</li> <li>• Facilitating communication between independent participants</li> <li>• Distance E-coaching</li> <li>• Producing marine policy reports</li> <li>• Coaching towards an independent use of the COHERENS model and its applications</li> <li>• Coaching in developing site-specific applications with the code in function of policy needs, i.e. develop a site specific biological module or wastewater module</li> <li>• Workshop for advanced users</li> <li>• Support with scientific arguments for stakeholders</li> <li>• Establishing links between physics, sedimentation and biodiversity is scientifically documented.</li> </ul>
<b>1.3.1.</b> Launch call for project on Aichi target indicators
<p><b>1.4.1.</b> Taxonomic scientific tools</p> <ul style="list-style-type: none"> <li>• production of abcTaxa</li> <li>• dissemination</li> </ul> <p><b>1.4.2.</b> Popularization tools</p> <ul style="list-style-type: none"> <li>• production of lexicons</li> <li>• production/upgrade of syllabi</li> <li>• participation international congresses</li> <li>• follow-up on feedback of use of courses</li> <li>• archiving output on GTI and CHM websites</li> </ul>
<b>Activities SO2</b>
<b>2.1.1.</b> two national training workshops per year
<b>2.1.2.</b> 1-2 follow-up trainings per year
<b>2.1.3.</b> one south south collaboration/yr initiated

2.1.4. Promotion of tool in at least 1 country /year
2.2.1. call per year for CHM consolidation
2.3.1. Networking and organising 1 meeting/yr of CHM nfp of partner countries and governance
2.3.2. one Mission /yr international meeting
<b>Activities SO3</b>
3.1.1. one call/year for awareness baseline projects in the South
3.1.2. The results should be used for the reporting towards the AICHI targets and the relevant indicators in the reporting tool that countries will use under SO2-1 and SO5.
3.2.1. special awareness project calls in South organised
<b>Activities SO4</b>
4.1.1. Training provided: (Based on request) around the theme "biodiversity, ecosystem services and development cooperation"
<b>Activities SO5</b>
5.1.1. expertise concerning MRV built up in conjunction with DGD
5.2.1. MRV tools are developed and implemented (e.g. through project calls and other)
<b>Activities SO6</b>
6.1.1. A flyer has been developed about "the Nagoya Protocol and implication for collecting species in non-European countries".
6.1.2. One to 2 briefing papers on developments of the NP will be prepared each year.
6.1.3. to attend meetings to get acquainted with the Protocol of Nagoya and to follow up developments
6.2.1. information sessions are organised
6.2.2. development of section on NP in CHM.
6.2.3. Further actions will depend on the decisions during COP11 and NP COP/MOP1
<b>Activities Coordination</b>

7.1.1. preparation of the year programme and preparation of the annual report

7.1.2. Human resources and internal capacities

7.1.3. Communication with direction of RBINS, DGD and other stakeholders and visibility

7.1.4. Prospection for synergies, partners, projects and external funding

7.1.5. motivation, support and incitement of staff to reach targets within strategy and activity programme including mid term evaluation and general coordination

7.2.1. organisation of the mobility of the trainees to Belgium

7.2.2. financial management

7.2.3. administration

7.2.4. ICT

## Annex 3: CEBioS interventions and the Sustainable Development Goals

Sustainable Development goals and targets	Link with CEBioS activities (in grey : indirect link)	
	Link	Details
<b><u>GOAL 1. End poverty in all its forms everywhere</u></b>	General objective	The general objective of the pluri-annual programme 2014-2018 is to build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, <u>as a contribution to poverty reduction</u> and sustainable development worldwide.
1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day	General objective	The general objective of the pluri-annual programme 2014-2018 is to build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, <u>as a contribution to poverty reduction</u> and sustainable development worldwide.
1.b Create sound policy frameworks at the national, regional and international levels, based on pro-poor and gender-sensitive development strategies, to support accelerated investment in poverty eradication actions	SO4	SO4: “To improve the mainstreaming of biodiversity and ecosystem services in policy sectors that have a high relevance for development”
<b><u>GOAL 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture</u></b>		
2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed	SO6	SO6 : “To raise awareness on, and build capacities for, the implementation of the Nagoya Protocol (NP) on Access and Benefit Sharing (ABS)”
2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality	ER 1.2	ER1.1: “Scientific and technical expertise is built” --> capacity building to monitor the dynamics of marine habitats enabled to inform the fisheries authorities which measures should be taken in order to promote sustainable fisheries

<p>2.a Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development and plant and livestock gene banks in order to enhance agricultural productive capacity in developing countries, in particular least developed countries</p>	<p>SO1, ER1.1, ER 1.2</p>	<p><b>SO1:</b> "The RBINS strengthens the scientific and technical knowledge base on biodiversity and on its linkages with ecosystem services and poverty reduction."  <b>ER1.1:</b> "Scientific and technical expertise is built"  --&gt; taxonomic research linked to agriculture are often conducted by GTI grantees (eg in 2015: pollinators, crop pests, biological control)  <b>ER1.2:</b> "Quality scientific knowledge is produced and used for the better understanding and management of biodiversity in partner countries"  --&gt; Institutional partnerships includes research linked to agriculture or provisioning services (pollinators, link pastoralism-nature conservation, edible mushrooms, marine modelling for sustainable fisheries)</p>
<p><b>GOAL 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all</b></p>		
<p>4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development</p>	<p>SO3</p>	<p><b>SO3:</b> "The RBINS contributes to awareness raising and communication on the importance of biodiversity and ecosystem services for poverty reduction and sustainable development, and on associated governance processes."</p>
<p>4.b By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries</p>	<p>ER1.1</p>	<p><b>SO1:</b> "The RBINS strengthens the scientific and technical knowledge base on biodiversity and on its linkages with ecosystem services and poverty reduction."  <b>ER1.1:</b> Scientific and technical expertise is built  --&gt; Grants are awarded for students to get trained in Belgium or by Belgian experts</p>
<p><b>GOAL 5. Achieve gender equality and empower all women and girls "</b></p>	<p>General programme</p>	<p>CEBioS programme seeks to support women as much as possible and ideally to reach a female proportion of up to 50 % of the grantees. In case of equal scientific capacities between female and male candidates, women will be selected.</p>
<p><b>GOAL 6. Ensure availability and sustainable management of water and sanitation for all</b></p>		
<p>6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes</p>	<p>General objective</p>	<p>The general objective of the pluri-annual programme 2014-2018 is to build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, as a contribution to poverty reduction and sustainable development worldwide.  --&gt; All SOs contribute -at different levels- to protecting ecosystems</p>

		<ul style="list-style-type: none"> <li>- South Initiative on Lake Tanganyika</li> <li>- North South South project on lake Manyara</li> </ul>
<b><u>GOAL 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</u></b>		
9.c Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020	SO2	<p>SO2. The RBINS plays a leading role in the enhancement of the information base on biodiversity, on its linkages with ecosystem services and poverty reduction and on associated governance processes</p> <p>2.1. Expertise in information management is built.</p> <p>2.2. Information flows are improved.</p> <p>2.3. Information is used to advise governance processes.</p>
<b><u>GOAL 10. Reduce inequality within and among countries</u></b>		
10.b Encourage official development assistance and financial flows, including foreign direct investment, to States where the need is greatest, in particular least developed countries, African countries, small island developing States and landlocked developing countries, in accordance with their national plans and programmes	General	Activities are financed and developed in accordance with national development priorities and policy frameworks, both of Belgium and of the developing countries (eg. partners' NBSAPs or through CEBioS participation in the mixed commissions for the preparation of the Indicative Development Cooperation Plans (IDCP))
<b><u>GOAL 12. Ensure sustainable consumption and production patterns</u></b>		
12.2 By 2030, achieve the sustainable management and efficient use of natural resources	General objective	<p>The general objective of the pluri-annual programme 2014-2018 is to build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, as a contribution to poverty reduction and sustainable development worldwide.</p> <p>--&gt; All SOs contribute at different levels to the sustainable management and use of <u>biological</u> resources (cf CBD 2nd main objective)</p>
12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	SO3	<b>SO3:</b> The RBINS contributes to awareness raising and communication on the importance of biodiversity and ecosystem services for poverty reduction and sustainable development, and on associated governance processes.
<b><u>GOAL 13. Take urgent action to combat climate change and its impacts</u></b>	General programme	The link between the conservation and sustainable use and management of biodiversity and climate change is obvious. The biodiversity and its ecosystem services play an essential role in mitigating and adapting processes to the negative effects of climate change.

13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	SO1, Activity 1.2.2	Activity 1.2.2. (B). "Supporting the monitoring of habitats for the management of ecosystems" The enhancement of the capacities of our partners is mostly focused on the sector of forests. Our special interest in tropical forests is justified by the enormous value of their biodiversity and the considerable value of the services it provides for local human development (including climate change mitigation...) as well as global ecological stakes (such as carbon sequestration).
<b>GOAL 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development</b>		
14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries	ER 1.1	ER1.2: "Quality scientific knowledge is produced and used for the better understanding and management of biodiversity in partner countries" --> institutional cooperation on marine modelling *Expected outcome in Vietnam (IMER): after five years, IMER is able to better monitor the dynamics of habitats in shallow ecosystems with endangered coral reefs such as Halong Bay, and hence to make the most ecologically sensitive decisions for management, taking into account the ecosystem services for the local communities. *Expected outcome in Peru (IMARPE): after five years, IMARPE is able to better monitor the dynamics of habitats in marine upwelling zones of the Peruvian coast, enabling them to inform the fisheries authorities which measures should be taken in order to promote sustainable fisheries, which is to the benefit of the local fish industry and the marine biodiversity.
<b>GOAL 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss</b>		
15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements	General objective of the programme	The general objective of the pluri-annual programme 2014-2018 is to build scientific and technical capacities for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, as a contribution to poverty reduction and sustainable development worldwide. --> All SOs contribute at different levels to the conservation and the sustainable use of biodiversity - South Initiative on Lake Tanganyika - North South South project on lake Manyara
15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally	SO1, ER 1.2	ER 1.2 "Quality scientific knowledge is produced and used for the better understanding and management of biodiversity in partner countries" Institutional cooperation under ER 1.2 mainly focus on forests, e.g. tropical rain forest (DR Congo), highland forest (Burundi), dry clear forest ('miombo') (DR Congo), and Sudanese and Sahelian forests, and grasslands (Benin).

15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development	ER 1.1, Activity 1.2.2	*ER1.1 (Scientific and technical expertise is built): GTI grants often include taxonomic research in mountain ecosystems *Institutional cooperation under 1.2.2 (Supporting the monitoring of habitats for the management of ecosystems) include habitat monitoring and fungi taxonomy of Kibira mountain forests in Burundi, training on inventory methodologies in the mountains of Kivu-Butembo in DRC
15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species	Transversal	All SOs contribute at different levels to this target
15.6 Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources, as internationally agreed	SO6	To raise awareness on, and build capacities for, the implementation of the Nagoya Protocol (NP) on Access and Benefit Sharing (ABS)
15.8 By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species	In various SOs	e.g.: ER1.1 Scientific and technical expertise is built --> GTI grants often include taxonomic research on invasive species ER3.2 Awareness and commitment are raised --> 2015 project in Ivory Coast « Projet d'éducation et de sensibilisation sur les Espèces Exotiques Invasives (EEE) en Côte d'Ivoire »
15.9 By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts	Activity 1.2.2	Institutional cooperation under 1.2.2 (Supporting the monitoring of habitats for the management of ecosystems) includes research and training on the valuation of ecosystem services
15.a Mobilize and significantly increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems	Transversal	Transversal
15.b Mobilize significant resources from all sources and at all levels to finance sustainable forest management and provide adequate incentives to developing countries to advance such management, including for conservation and reforestation	Activity 1.2.2	1.2.2.(B). The monitoring of habitats for the management of forest ecosystems is strengthened (institutional strengthening in INECN (Burundi), UAC and CENAGREF (Benin) and ICCN (DR Congo))
15.c Enhance global support for efforts to combat poaching and trafficking of protected species, including by increasing the capacity of local communities to pursue sustainable livelihood opportunities	Activity 1.2.2	Institutional cooperation under 1.2.2 (Supporting the monitoring of habitats for the management of ecosystems) includes research and training on the valuation of ecosystem services

<b>GOAL 17. Strengthen the means of implementation and revitalize the global partnership for sustainable development</b>		
17.6 Enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and innovation and enhance knowledge sharing on mutually agreed terms, including through improved coordination among existing mechanisms, in particular at the United Nations level, and through a global technology facilitation mechanism	Transversal, SO5	Such initiatives are lead transversally eg SO2, ER2.1 (Expertise in information management is built), Activity 2.1.3. one south south collaboration/yr initiated
17.8 Fully operationalize the technology bank and science, technology and innovation capacity-building mechanism for least developed countries by 2017 and enhance the use of enabling technology, in particular information and communications technology	SO2	SO2. "The RBINS plays a leading role in the enhancement of the information base on biodiversity, on its linkages with ecosystem services and poverty reduction and on associated governance processes" 2.1. Expertise in information management is built. 2.2. Information flows are improved. 2.3. Information is used to advise governance processes.
17.9 Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the sustainable development goals, including through North-South, South-South and triangular cooperation	Transversal, SO5	The general objective of the pluri-annual programme 2014-2018 is <u>to build scientific and technical capacities</u> for a more effective implementation of the Convention on Biological Diversity and its Strategic Plan for Biodiversity 2011-2020, as a contribution to poverty reduction and sustainable development worldwide.
17.14 Enhance policy coherence for sustainable development	SO4	SO4. "The RBINS and DGD unit D2.4 improve the mainstreaming of biodiversity and ecosystem services in policy sectors that have a high relevance for development."
17.15 Respect each country's policy space and leadership to establish and implement policies for poverty eradication and sustainable development	Transversal, SO5	Transversal
17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries	Transversal, SO5	Transversal

<p>17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships</p>	<p>Transversal, SO5</p>	<p>Promoting the Science-Policy interface and public-private partnership is a transversal objective of the programme and is illustrated in various SOs:  eg: SO5. The RBINS and DGD unit D2.4 improve the knowledge on the measurement, reporting and verification (MRV) of policy choices and activities linked to biodiversity and ecosystem services.  Partnerships are undertaken, with a view to stimulating dialogue between science and policy, with ministries and universities in partner countries in the framework of MRV calls</p>
<p>17.19 By 2030, build on existing initiatives to develop measurements of progress on sustainable development that complement gross domestic product, and support statistical capacity-building in developing countries</p>	<p>SO 3.1, 5.2</p>	<p>ER 3.1. Baselines provide an insight on the level of awareness and/or commitment  ER 5.2. Methodologies to assess progress towards the Aichi Targets are available  --&gt; Annual MRV calls are launched in order to improve the knowledge on the measurement, reporting and verification (MRV) of policy choices and activities linked to biodiversity and ecosystem services.</p>