BID Africa 1 – Small Grant Template
Final narrative report

Remember that all project activities <u>should be completed</u> within the implementation period of your project. The evaluation period must focus on final reporting and evaluation of your project.

Instructions

- Fill the template below with relevant information. If no result has been achieved on a specific point, **please indicate the reason of the delay and expected date of completion.** Use the information included in your project Full proposal (reproduced in annex III.a. of your BID contract) as a baseline from which to complete this template

- The information provided below must correspond to the financial information that appears in the financial report

- Sources of verification are for example links to relevant digital documents, news/newsletters, brochures, copies of agreements with data holding institutions, workshop related documents, pictures, etc. **Please provide access to all mentioned sources of verification** by either providing the link or sending a copy of the documents.

- This report must <u>first</u> be sent as a **Word document** to BID@GBIF.org and be pre-approved by GBIFS

- Once this report is pre-approved in writing by GBIFS, it must be signed by the BID project coordinator and sent by post to:
  The Global Biodiversity Information Facility Secretariat (GBIFS)
  Universitetsparken 15
  DK-2100 Copenhagen Ø
  Denmark

....

Template

1. Table of Contents

This programme is funded by the European Union

2. Project Information

2.1. Principal investigator and grant coordinator: Institution/network/agency name:

Amahowe Ogoudje Isidore. Head of Department of Conservation, Natural Resources and Biodiversity (National Forest Office of Benin)

2.2. Principal investigator name and role: Amahowe Ogoudje Isidore. Head of Department of Conservation, Natural Resources and Biodiversity

2.3. BID proposal identifier: **BID project code BID-AF2015-0030-SMA**

2.4. **Project title:** Digitalization and mobilization of biodiversity data of protected area and threatened species in Benin

2.4. Start date and end date of the reporting period:

01/06/2017 to 19/07/2017

2.5. Country(ies) in which the activities take place: Benin

3. Overview of results

3.1. Executive summary

Give a short summary of the activities implemented and the outcomes of the project for the whole implementation period (no more than 500 words maximum).

BID AF2015-0030-SMA project is funded by GBIF with the support of European Union for a total amount of 5000 EURO. The project has started on 01 June 2016 and is about to be completed on 31 August 2017. This fund has been used to mobilize biodiversity data on animal and plant species from W Reserve of Biosphere and Pendjari Reserve of Biosphere, and also data on a threatened species in Benin. In the framework of tis project a total number of 5475 records were mobilized, digitalized and published on GBIF site with the notable involvement of project partners including parks managers and ecological officers of W and Pendjari National Park. An important training session was organized towards 42 partners and staff of W and Pendjari parks, instead of 20 planned in the project document. This training was conducted by the project investigator and one project Assistant. It covered techniques of data mobilization, data entry, encoding, data quality checking and data publishing. Afterward, the project partners have been fully engaged in data mobilization activities. Occurrence data of animal species were obtained either from sheets or datasets of previous wildlife census, patrols sheets, while occurrence data of plant species were mobilized from sparse forest inventory sheets, forest biomass inventory dataset and a dataset on species composition of Afzelia's populations from previous studies. A total of 2062 data on plant species, while 3413 records were made on animal species. Furthermore, in the framework of this project, our partners from the W and Pendjari Biosphere Reserve showed their availability to continue mobilizing data through a signature of commitment letter. In addition, two of our team members
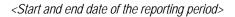
participated into the online BID Capacity Enhancement Workshop, where they improved their knowledge on data mobilization and publishing.

3.2. Progress against expected milestones:

Expected milestones/activities	Completed? Yes/No	Explanatory notes	Sources of verification
Completed capacity self-assessment questionnaire for data holding institutions (http://www.gbif.org/resource/82785)	yes	Already completed	
The instituton that will publish your data is registered with GBIF.org For registered data publishers see: http://www.gbif.org/publisher/search	yes	National forest office was registered with GBIF.org	
The data users identified in the full proposal have documented their intended use of the mobilized data and provided early feedback	yes	Two commitment letter have been provided by the project partners which are working for data users institutions identified in the full proposal	Letter of comiitment availble
All mobilized data has been published to GBIF.org	yes	5475 records data were published on GBIF portal	
All published data meet the minimum requirements outlined in the Data Quality Requirements available at http://bid.gbif.org/en/community/data-quality/	yes	All the 5475 records data meet the minimum requirement	
The training outcomes of the project have been documented, including the number of people receiving certification through the BID Capacity Enhancement workshops, the number of people trained in nationally organized events, and the evaluation of the impacts of these training activities	yes	42 persons were trained and they are currently mobilizing new data to be published	
Final capacity self-assessments have been completed with sustainability plans	yes		
All uses of the mobilized data have been documented	yes	Mobilized data were published on GBIF and then used for ecological niche modelling four five key species (lant and animal species)	Report of Ecological niche modelling of four mammal species and one threatened plant species in Benin
Best practices and lessons learned have	yes		

been documented			

3.3. Project deliverables and activities

Refer to the table in section 2.2 "Deliverables, activities and reporting criteria" of your BID full proposal. Provide updates on the status of each of planned deliverables. We remind you that all deliverables should be completed at the time of drafting this report (end of implementation period). In the event of unexpected delay, please provide detailed explanatory notes and indicate planned completion date. Add as many rows as needed.

Deliverable	Related activity	Completed ? Yes/No	Explanatory notes	Sources of verification
10 persons are trained and get the necessary skills in data mobilization	Organize a training Workshop training on data mobilization	Yes	42 persons were trained on data mobilization, enc	Workshop Report available
3000 records on mammal species	Mobilize data on mammal species from W and Pendjari National Parks	Yes	3413 occurrence data of animal species were mobilized and published on GBIF portal	Published on GBIF portal
400 records on plant species of W and Pendjari National Parks	Mobilize data on plant species from parks belonging	Yes	1147 occurrence data on plant species were mobilized from various forest inventory works in W and Pendjari Biosphere Reserves	And published on GBIF portal
500 records of *Afzelia africana*	Mobilize occurrence data on *Afzelia africana*	Yes	920 occurrence data of Afzelia africana were mobilized from a dataset of a previous study on a threatened species : Afzelia africana *Sm and Pers*	And published on GBIF portal
Project partners continue to publish biodiversity data beyond the project period	Sign the commitment letter	Yes	The letter of commitment was signed by the project partners in the two Biosphere Reserves and the project Investigator	
Deliverables for GOAL 2 - Apply biodiversity data in response to conservation priorities				
Ecological niche modelling for 04 mammal species such as *Panthera leo*, *Loxodonta africana*, *Hippotragus equinus and Syncerus caffer*	Perform the ecological niche modelling	Yes	Technical Report available to park managers and decision makers	Report available
Ecological niche modelling of *Afzelia africana*		Yes	Technical Report available to park managers and decision makers	Report available

3.4. Datasets published on GBIF.org

If the dataset is not yet published, please indicate detailed explanation about causes of delays". Add as many rows as needed.

Dataset title	Publishing institution	DOI or URL/Planned hosting institution	Date/expected date of publication	Explanatory notes
Forest inventory for above ground carbon estimation in Biosphere Reserve of W.	GBIF	http://www.gbif.org/dataset/fdbbecb9-3e8b-4fbe-aca4-bde861e63e8a doi:10.15468/looi3y	8 September 2016	Diameter at breast height (DBH) and total height were measured for all tree species within the plot. This work comes from a database made by Yetein et al. (in press) who carried out a study on "Dynamic of land cover/land use and above ground carbon estimation in Biosphere Reserve of W. We recorded all the tree species from this database. From the classification of the main land cover types operated with year 2013 Landsat satellite imagery, 53 plots of 0.2 ha (100 m x 20 m plots) were randomly established. Then, Diameter at breast height (DBH)(cm) and Height (m) were measured on all tree species on the plots. A total number of 721 records were made in this study.
Collection of Occurrence data on mammal species during wildlife census in W Biosphere Reserve in 2013 and 2015.	GBIF	http://www.gbif.org/dataset/fe903576-72e1-446a-b019-479f537adabe doi:10.15468/rjsks7	7 September 2016	These occurrence data were collected systematically during wildlife census within the W park and its huntings zones as well. All the animal observation geographical points were recorded using GPS by fauna guards. These data were directly registered on paper sheets on field and controlled by team leaders. A total number of 1581 records were made on mammal species in 2013 and 2015 (respectively 745 records in 2013 and 836 in 2015)
Collection of occurrence data on animal species in the Biosphere Reserve of Pendjari in 2001, 2004, and 2013.	GBIF	http://www.gbif.org/dataset/cf3753af-0fde-4de8-9bae-efa08bf5c2f6 doi:10.15468/8pimcc	7 September 2016	Data on mammal species were collected during wildlife census on foot during monitoring linear transects. All the animal observation geographical points were recorded using GPS by fauna guards and ecological staff. These data were directly registered on paper sheets on field and controlled by team leaders. A total number of 1925 occurrence data on animal species were collected during the annual census in 2001, 2004 and 2013 in the Biosphere Reserve of Pendjari
Species composition in twelve (12) Afzelia africana Sm & Pers populations in Benin.	GBIF	http://www.gbif.org/dataset/c58954ee-dd85-406a-a328-2cfe60c65145 doi:10.15468/9wycdn	7 September 2016	We collected all the plant species including tree and herbaceous species within twelve (12) populations of *Afzelia africana* in two different climatic zones in Benin (Sudanian and Sudano- Guinean zones).

Spatial distribution of a threatened multi-use species Afzelia africana Sm & Pers in Benin (West- Africa)	GBIF	http://www.gbif.org/dataset/f39014fa-89bf-4717-bcfc-0fb8841c32c1	19 janv. 2017	"Distribution of Afzelia africana was based on the collection of occurrence data on the species. This was conducted by mobilizing geographical data three occurrence datasets from previous studies on the species. A total number of 915 occurrence data were recorded.

3.5. Examples of use of biodiversity data available through GBIF

Use the table to document use or planned use of data available through GBIF as part of your project. You may want to refer to the section 2.5 'Plan to support the integration of biodiversity information into policy and decision-making processes' of your BID full proposal. Please provide the DOI for datasets published on GBIF or data downloaded from GBIF in the "Dataset" column. Briefly describe how the data have been used or are planned to be used in the "Data use" column (ca. 50 words). Provide the date or approximate time frame in months for the use or planned use in the "Date/time frame" column. Please provide links to any documents or webpages documenting the use in the "Sources of verification" column. Add as many rows as needed.

Dataset	Data user	Data use	Date/time frame	Sources of verification	Notes
http://www.gbif.org/dataset/fe903576-72e1-446a-b019-479f537adabe	Project staff/National Forest Office	Modelling the spatial distribution of species and predict their response to future climate and provide necessary recommendation for long term conservation	01 /03/ 2017	Technical report available	
http://www.gbif.org/dataset/cf3753af-0fde-4de8-9bae-efa08bf5c2f6	Project staff/National Forest Office	Modelling the spatial distribution of species and predict their response to future climate and provide necessary recommendation for long term conservation	02/03/ 2017	Technical report available	
http://www.gbif.org/dataset/f39014fa-89bf-4717-bcfc-0fb8841c32c1	Project staff/National Forest office and local expert	Modelling the spatial distribution of species and predict their response to future climate and provide necessary recommendation for long term conservation	02 /03/ 2017	Technical report available	

3.6. Events organized as part of the project

List all the events that have been organized as part of your project. Please provide links to any documents or webpages documenting the use in the "Sources of verification" column. Add as many rows as needed.

Full title	Organizing institution	Dates	Number of participants	Sources of verification
Training Workshop training on data mobilization at Tanguieta and Kandi	DGEFC	25 to 29 july 2017	42 participants	Workshop Report available

4. Implementation of BID project activities

Refer to section 2.2 "Deliverables, activities and reporting criteria" in your BID full proposal. Provide updates on each of the activities using the reporting criteria and other sources of verification as appropriate.
Sources of verification are for example links to relevant digital document, news, newsletter, brochures, copies of agreements with data holding institutions, workshop related documents, pictures, etc.

4.1. Goal 1: Increase available biodiversity data, within and beyond the grant period

Activity 1 name: Organize a training Workshop on data mobilization

A total number 42 persons were trained on data mobilization in Tanguieta and Kandi. The workshop report is available

Please use same activity name as the one given in section 2.2 "Deliverables, activities and reporting criteria" in your BID full proposal.

Description of any implementation during the reporting period

Sources of verification: Workshop report

Activity 2 name: Mobilize data on mammal species from W and Pendjari National Parks

A total number of 3413 data on mammal species were mobilized and published on GBIF portal. 3000 data were expected to be published as our gaol. Thus we made and achievement of 113.76%

Description of any implementation during the reporting period

Sources of verification: data published on GBIF portail.

[Add as many activities as given in your full proposal under "Deliverables, activities and reporting criteria" for goal 1]

Activity 3 name: Mobilize data on plant species from parks belonging

1147 data on plant species were mobilized and published bon GBIF portal. 400 data were expected to be mobilized. Therefore we have made a progress of 286.75%

Description of any implementation during the reporting period

Sources of verification: data published on GBIF portail.

Activity 3 name: Mobilize occurrence data on *Afzelia africana*. 500 occurrence data were expected. We have already mobilized and published 915 occurrence data of *Afzelia africana* on GBIF portal. But no data was published yet on GBIF portal. We can estimate our achievement about 183 %.

Description of any implementation during the reporting period

Sources of verification: data published on GBIF portail.

4.2. It was expected Goal 2: Apply biodiversity data in response to conservation priorities

Activity 1 name: Perform Ecological niche modelling for 04   mammal species such as *Panthera leo, Loxodonta africana, Hippotragus equinus and Syncerus caffer*

Description of any implementation during the reporting period: Ecological niche modelling was performed on 04   mammal species: Panthera leo, Loxodonta africana, Hippotragus equinus and Syncerus caffer *and the current and the future distribution of the each species were assessed accounting the climate change scenari.*

Sources of verification: Technical report is available

Activity 2 name: Perform Ecological niche modelling of *Afzelia africana*

Description of any implementation during the reporting period: Ecological niche modelling was performed on *Afzelia africana and the current and the future distribution of the each species were assessed accounting the climate change scenari.*

Sources of verification: Technical report is available

[Add as many activities as given in your full proposal under "Deliverables, activities and reporting criteria" for goal 2]

5. Updated calendar for the BID project implementation and evaluation period

The calendar should be completed in the same way as in the Full Project Proposal, but should include any expected changes. Provide reasons for any expected changes in section 5.1 'Explanatory Notes'.

Implementation period (maximum 12 months, starting 1 June 2016 at the earliest)																									
Implementation period start date and end date (dd/mm/yy)																									
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Notes
<Activity name>																									
<Activity name>																									
<Activity name>																									

This programme is funded by the European Union

BID   **GBIF**

Evaluation period (maximum 6 months, ending 31 December 2017 at the latest)							
Evaluation period start date and end date (dd/mm/yy)							
Activity	1	2	3	4	5	6	Notes
<Activity name>							
<Activity name>							

Implementation period (maximum 1 months, starting 1 June 2016 at the earliest)																									
Implementation period start date and end date (dd/mm/yy)																									
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Notes
Mid-term evaluation & reporting						x																			
Organize training workshop on data mobilization, encoding, mapping and publishing		x																							
Mobilize data on mammal species		x	x	x	x																				
Mobilize data on plant species from parks		x	x	x	x	x																			

Activity	1	2	3	4	5	6	7	8																Comments
Mobilize data on *Afzelia africana*	x	x	x	x	x																			
Sign the commitment letter		x	x																					This activity was planned from 8 to 12 month, but because of the budget constraint, we were obliged to complete this earlier at the 2 nd month
Ecological niche modelling						x	x	x																This activity was completed around 7 and 9th month

5.1. Explanatory notes:

 All the planned activities have been completed successfully

6. Sustainability plans

Explain the approach that will be taken to ensure the sustainability of the project's results after the end of your project (500 words maximum)

7. Beneficiaries/affiliated entities and other cooperation

7.1. Relationship with project partners

Please describe the relationship between your project coordinating team/institution and your project partners, and with any other organisations involved in implementing your BID project.

The project coordination team had a good relationship with the Directorate of the W and Pendjari National Parks that are all partners of the project entitled BID AF2015-0030-SMA. Particularly the ecological officers are fully engaged in data mobilization and are all available to continue the data mobilization beyond the project period. As far as the Node manager is concerned, we got a wonderful relationship with him. We participated into a workshop organized by other partners in the framework of data mobilization, processing and quality checking. All these have improved our insight on the data available on GBIF portal and their importance for decision taking in favour to biodiversity conservation.

 BID   GBIF

7.2. Links to other projects and actions

Where applicable, outline any links and synergies you have developed with other actions, e.g. GBIF nodes, other BID funded projects, etc. If your organization has received previous grants in view of strengthening the same target group, how far has your BID project been able to build upon/complement the previous project(s) ?

I have participated in data mobilization and publishing with others data mobilization work in the framework of GBIF projects directed by Prof Jean C. Ganglo who is gthe Node Manager of Benin.
AMAHOWE I O (2017). Data on animal species in the Biosphere Reserve of W Bénin. Data mobilized in the framework of JRS Biodiversity Foundation funded project in Benin. Direction Générale des Eaux, Forêts et Chasse. Occurrence Dataset https://doi.org/10.15468/0hcl8c
AMAHOWE I O, AISSAN R (2017). Monitoring the dynamics of a medicinal tree species Haematostaphis barteri Hook. F. in Benin. Direction Générale des Eaux, Forêts et Chasse. Occurrence Dataset https://doi.org/10.15468/yfnuxt

Please refer to the BID guidelines

7.3. Visibility of the BID project

How is the visibility of your BID project being ensured?

During the implementation of project activities, especially the workshop training in Tanguieta and Kandi the logo of GBIF and European Union and the project partners such as the National Forest Office, Pendjari National Park and W NAtionl Park were used on matereials and posters. In all the project outcomes   and reports, these logos are mentioned.

Short summary
Sources of verification
https://www.gbif.org/dataset/27f86b34-76dc-485d-a833-b158c6d79bf4

7.4. Visibility of the EU contribution

How is the visibility of the EU contribution being ensured within your project implementation?

Short summary: During the workshop, the logon of EU was mentioned on the poster that was displayed on the worshop venue and outside. In addition his logo is on all the documents and outcomes of this project.

Sources of verification: http://www.gbif.org/event/82808

 This programme is funded by the European Union