



# BID Africa 2017 – Small Grant Template

## Final narrative report

### Instructions

- Fill the template below with relevant information. **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 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 direct 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 direct link or sending a copy of the documents.
- This report must first be sent as a **Word document** to [GBIF@GBIF.org](mailto:GBIF@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

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### Template

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## 2. Project Information

- 2.1. Principal investigator and grant coordinator: Institution/network/agency name:  
 Faculty of Sciences, University of Douala



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**2.2. Principal investigator name and role:**

Maurice TINDO

**2.3. BID proposal identifier:**

BID-AF2017-0151-SMA

**2.4. Project title:**

Data mobilization for crop protection against native and invasive pest species for sustainable agricultural production in Cameroon

**2.5. Start date and end date of the reporting period:**

31/01/2019 and 31/03/2019

**2.6. Country(ies) in which the activities take place:**

Cameroon

### 3. Overview of results

**3.1. Executive summary**

*Give a short summary of the activities implemented and the outcomes of the project for the reporting period (500 words maximum)*

Agricultural production continues to be hampered by both native and invasive insect pests. Adequate biological information is essential for their timely identification and management. The aim of this project is to mobilize biodiversity information embedded on specimens in three agricultural insect collections in Cameroon. IRAD and IITA insect collections have been visited several times and insect pest specimens have been continuously sorted from others, labels upgraded, uniquely identified by adding labels. Information on specimens has been entered into created databases (GBIF templates) for each institution. Up to now, more than 4768, 5637 and 500 specimens are captured into IRAD, IITA and FS-UDo database respectively. The validity of scientific names copied from labels in IRAD collection (the oldest one) has been checked using GBIF tools (Global Names Resolver, Names parser and species matching). EOL, Names index and merely search on the internet were also conducted to obtain a current valid name, their authority and date of species description. From both Insect collections, about 500 specimens have been newly identified during the project. In the IRAD collection, more than 2198 scientific names out of the 4768 available have been successfully validated. However, collection localities were validated only for 3644 specimens out of which, 2227 were successfully georeferenced. A portion of IRAD, UDo and IITA data base containing 2227, 2986 and 300 specimens respectively were checked, sorted, duplicates eliminated, validated and published on the GBIF protail through IPT Cameroon hosted by GBIF France. Data validation process is still on going as a permanent activity on both collections and the published datasets will be continuously upgraded in the future. The insect pest list generated from all collection was integrated in the national pest list under construction by The Ministry of Agriculture and Rural development. This list is a basic tool used by Agric agents in charge of phytosanitary surveillance at the national territory.

Two workshops on good practices in data mobilization through the GBIF portal have been organised in Douala (45 participants) on 23 November 2017 then in Yaoundé (15 participants) on the 1<sup>st</sup> December 2017 followed with bench training. The content of the workshop focused on general presentation of the GBIF network, the search, collection and uses of data from the GBIF portal, good practices for data organisation, georeferencing, data



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quality and the publication process. Training scheme consisted both of oral and practical sessions. Trained student in Douala and technicians in Yaoundé are actively involved in capturing information on labels attached to each sorted specimen in created databases. One person from the project attended the Capacity Enhancement workshop on Data Mobilization and shared learned skills with project members through bench training. The same candidate participated in the second training organized in Cape Town from 9-14 April 2018 on biodiversity data use for decision making. This participant has been assigned a "BIODIVERSITY DATA MOBILIZATION BADGE at the BASIC LEVEL" by the GBIF Secretary on October 12, 2018.



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### 3.2. Progress against expected milestones:

Give an overview of all the expected milestones for your project from the beginning until now (see Annex IV of your contract)

Expected milestones/activities	Completed? Yes/No	Explanatory notes	Sources of verification
<p>Completed capacity self-assessment questionnaire for data holding institutions</p> <p><a href="https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions">https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions</a> (EN)</p> <p><a href="https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees">https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees</a> (FR)</p> <p><b>(Early Progress report milestone)</b></p>	YES	Files have been downloaded, completed for each collaborating institution and submitted to GBIFS	Filled files at GBIFS
<p>At least one national data publishing institutions are registered with GBIF.org</p> <p>Guidelines to become a publisher: <a href="https://www.gbif.org/become-a-publisher">https://www.gbif.org/become-a-publisher</a></p> <p><b>(Early Progress report milestone)</b></p>	YES	IRAD is registered with GBIF as a data publishing institution. IITA Cameroon and University of Douala have been recently endorsed by CAMBIF and registered.	<p><a href="https://www.gbif.org/publisher/a4e7734f-58a3-4833-b7bd-20bb470bce0f">https://www.gbif.org/publisher/a4e7734f-58a3-4833-b7bd-20bb470bce0f</a></p> <p><a href="https://www.gbif.org/publisher/8209c5a8-2200-4fe4-98c2-b3a56366661e">https://www.gbif.org/publisher/8209c5a8-2200-4fe4-98c2-b3a56366661e</a></p> <p><a href="https://www.gbif.org/publisher/d678603b-a9cf-4187-926a-fbc566aa1b2b">https://www.gbif.org/publisher/d678603b-a9cf-4187-926a-fbc566aa1b2b</a></p>
<p>At least one person from the project team has completed the certification process following the BID Capacity Enhancement workshop on Data Mobilization organized as a part of the BID programme Africa 2015 or the BID programme Africa 2017</p> <p><b>(Early Progress report milestone)</b></p>	YES	One person from the project attend the BID Capacity Enhancement workshop and has been awarded a Biodiversity Badge	Workshop participants list
<p>Knowledge dissemination activities have been scheduled following the first BID Capacity Enhancement workshop</p> <p><b>(Early Progress report milestone)</b></p>	YES	This was done through bench training	
<p>At least one dataset has been published to GBIF.org (<b>Midterm report milestone</b>)</p>	YES	A portion of IRAD, UDo and IITA data base containing 2227, 307 and 2967specimens	<p><a href="http://ipt-cameroun.gbif.fr/resource?r=irad-cameroon-insect-collection">http://ipt-cameroun.gbif.fr/resource?r=irad-cameroon-insect-collection</a></p> <p><a href="http://ipt-">http://ipt-</a></p>



		respectively have been published in the IPT Cameroon.	<a href="http://cameroun.gbif.fr/resource?r=fs-udoinsect">cameroun.gbif.fr/resource?r=fs-udoinsect</a>  <a href="http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect">http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect</a>
The data users identified in the full proposal have documented their intended use of the mobilized data and provided early feedback ( <b>Midterm report milestone</b> )	YES	The insect pest list underconstruction is been used for training of Agric agent in charge of phytosanitary surveillance at the national level.	Report of the training and regular phytosanitary surveillance
All mobilized data have been published to GBIF.org ( <b>Final report milestone</b> )	YES	Portion of IRAD, UDo and IITA data base containing 2227, 307 and 2967specimens	<a href="http://ipt-cameroun.gbif.fr/resource?r=irad-cameroun-insect-collection">http://ipt-cameroun.gbif.fr/resource?r=irad-cameroun-insect-collection</a>  <a href="http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect">http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect</a>  <a href="http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect">http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect</a>
All published data meet the minimum requirements outlined in the Data Quality Requirements available at <a href="https://bid.gbif.org/en/community/data-quality/">https://bid.gbif.org/en/community/data-quality/</a> ( <b>Final report milestone</b> )	YES	All these data sets have been checked and validated by the project coordinator and the project mentor before publication	<a href="http://ipt-cameroun.gbif.fr/resource?r=irad-cameroun-insect-collection">http://ipt-cameroun.gbif.fr/resource?r=irad-cameroun-insect-collection</a>  <a href="http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect">http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect</a>  <a href="http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect">http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect</a>
The training outcomes of the project have been documented, including the number of people receiving certification through the BID Capacity Enhancement workshops, the number	YES	45 and 15 persons have been trained in Douala and Yaoundé	None



<p>of people trained in nationally organized events, and the evaluation of the impacts of these training activities</p> <p><b>(Final report milestone)</b></p>		<p>respectively. List of participants and workshop report are attached to this report. However, the evaluation of the impact of the training activities has not been conducted. This will be done later</p>	
<p>Final capacity self-assessments for national biodiversity information facilities have been completed with sustainability plans.</p> <p><a href="https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions">https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions</a> (EN)</p> <p><a href="https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees">https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees</a> (FR)</p> <p><b>(Final report milestone)</b></p>	YES	<p>No significant changes compared to the ones filled at the beginning of the project</p>	<p>Filled files have been sent to the BID project secretary</p>
<p>All uses of the mobilized data have been documented</p> <p><b>(Final report milestone)</b></p>	YES	<p>Information on pest list from the three datasets have been integrated to national list of pest underconstruction by MINADER</p>	<p>The draft of the national pest list is available as an heavy word document</p>
<p>Best practices and lessons learned have been documented</p> <p><b>(Final report milestone)</b></p>	YES	<p>With the assistance of the project mentor, we have been able to revisit data publication process through IPT. Now we can easily publish and update our datasets. Both collections benefited from additional curatory activities and reorganisation</p>	<p>See author of publication in the IPT Cameroon. <a href="http://ipt-cameroun.gbif.fr">http://ipt-cameroun.gbif.fr</a></p> <p>Digital copies of both collection are available (Dataset)</p>





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### 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. 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
<b>Deliverables for GOAL 1 - Increase available biodiversity data, within and beyond the grant period</b>				
Specimens ready for digitization	Check, sort and organise specimens	<b>YES</b>	More than 5000 specimens from the three insects collection have been organised and related information is now entered in the created database. But this activity will continue	Databases and published dataset
Personnel, students from the three institutions or casual workers trained in data mobilization	Workshop and bench training	<b>YES</b>	Two workshops have been organized: one in Douala and another in Yaoundé.	Group pictures and workshop report
Database established	Data entry and georeferencing	<b>YES</b>	Database has been established for each institution. Data entry and validation are on going	GBIF template used for data entry
Database ready for publication	Quality check and validation	<b>YES</b>	More than 4000 specimens already entered in databases for the tree institutions have been checked, validated and published	Database for each participating Institution
Data publicly available on GBIF portal	Data publication	<b>YES</b>	Part of Data base from the three institution	<a href="http://ipt-cameroun.gbif.fr/resource?r=irad-cameroon-insect-collection">http://ipt-cameroun.gbif.fr/resource?r=irad-cameroon-insect-collection</a>



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			have been published	<a href="http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect">http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect</a>  <a href="http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect">http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect</a>
<b>Deliverables for GOAL 2 - Apply biodiversity data in response to conservation priorities</b>				
List of insect pests from these collections available	Compile the list of insect pests	YES	This list if no yet completed and still need some work	The first draft list sent to GBIFS, work is on going to improve it. This is an endless exercise but comprehensive list will be ready by October 2019
Distribution of the major insect pest known	Draw distribution map	NO	Need of additional data from surveys to draw a comprehensive distribution map	Additional field surveys are on going in the frame work of others projet. Distribution map of at least five insect pest will be ready by October 2019

### 3.4. Datasets published on GBIF.org

Refer to the table in section 2.4 “Biodiversity data mobilization plan” of your BID full proposal. If the dataset is not yet published, please indicate the name of the institution that is expected to host the data when published in the column “DOI or URL/Planned hosting institution”. Add as many rows as needed.

Dataset title	Publishing institution	DOI or URL/Planned hosting institution	Date/expected date of publication	Explanatory notes
FS-UDo Insect collection	Faculty of Science, University of Douala	<a href="http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect">http://ipt-cameroun.gbif.fr/resource?r=fs-udoinsect</a>	Already published	This collection in underconstruction
IRAD Insect collection	Institute for Agricultural Research for Development of Cameroon	<a href="http://ipt-cameroun.gbif.fr/resource?r=irad-cameroun-insect-collection">http://ipt-cameroun.gbif.fr/resource?r=irad-cameroun-insect-collection</a>	Already published	The first set has been published while continuing data validation, georeferencing and also data entry.
IITA Insect collection	International Institute of Tropical Agriculture, Cameroon Station/Congo Basin Institute	<a href="http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect">http://ipt-cameroun.gbif.fr/resource?r=iitacam_insect</a>	Already published	The first set can be published while continuing specimen identification and data entry



### 3.5. Examples of use of biodiversity data available through GBIF

Data mobilised through the BID programme, ultimately, should guide natural resource conservation and management policy. We require you to report on how you have integrated these data into these policy-making processes. You may want to refer to the section 2.5 “Plan to support the integration of biodiversity information into policy and decision-making process” of your original proposal as a reminder of your original commitments.

As part of that process, we request you to provide us with a summary of how you have used these data within the decision-making process and we have included some guiding questions below to help with that process. Please note that if your dataset has been combined with other datasets in analyses that guide the decision-making process, then this should be recorded too.

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#### Description

Has your project been successful in integrating data within the policy-making process? **YES**

Where did the demand for these data come from? **From the Subdirection in charge of phytosanitary intervention in the Ministry of Agriculture and Rural Development**

If yes, which policies have been developed using your data? **All Agric agents in charge of the phytosanitary surveillance of the national territory have been trained and instruct to produce and report at regular basis pest occurring in their respective area of intervention**

If no, what were some of the challenges you faced in getting your data into those processes?

Did you have a biodiversity data integration plan from the beginning of your project? **YES** If so, did you have to adapt your plan as the project progressed and why did you have to make those alterations?

In what format are your data being used i.e. what were the analyses, if any, that you needed to perform on the data to ensure that they was in a format accessible to policy-makers? **Data is more used in form of pest fact sheet. Thus more information of biology and management option should be added to the pest name and occurrence. Till now, no such sheet has been developed but they are in the plan for the next three months.**

What level of communication has there been with the relevant policy stakeholders i.e. by which means? With what regularity? And, how critical have these interactions been for the development policy-relevant analyses?

**Direct discussion, whatsapp network, daily response to queries from agric agent in charge of phytosanitary surveillance**

What additional support (resources, tools, network, training) would be needed for your project to ensure the flow of information from mobilisation to decision-making? **Need more time to developed fact sheets for majors pests.**

How would you improve on your own processes in the future to improve data integration in the future? **Will reinforce collaboration with the Ministry of Agriculture and Rural Development, participate in the national pest list validation process**

Data may serve other purposes other than for policy-making and these are as valuable. How was your data used for other purposes e.g. development of training materials, scientific publications, communication activities etc? **Not yet used**

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#### Supporting materials

As part of our reporting, we request you to provide us with a copy of any materials highlighting data use on your dataset, either on its own or in combination with other datasets. This could be in the form of:

- Reports – governmental, ministerial, non-governmental organisations, international policy-making bodies
- Policy briefs
- Scientific publications
- Outputs from analyses that will be used in the future e.g. species distributions maps and other spatial analyses
- Education/communication materials



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Please provide a valid dataset to the doi. Where the doi is not known, please state why.

Name of resource	Type of resource i.e. report, policy brief, scientific publication, analysis output, education materials, communication materials, other (please specify)	Dataset doi	Link to document or publication citation
National pest list of Cameroon	Draft report	None	Draft document not yet approved and published

### 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
Séminaire de formation sur la mobilisation des données sur la biodiversité	FS-University of Douala	24 novembre 2017	45	Group picture and workshop report
Séminaire de formation sur la mobilisation des données sur la biodiversité	FS-University of Douala and IITA-Cameroon	01 décembre 2017	15	Group picture and workshop report





#### 4. 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 4.1 'Explanatory Notes'.

Implementation period start date and end date (01/10/2017 - 31/12/2018)																Notes
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Notes
Early Progress evaluation & reporting			X	X												
Mid-term evaluation & reporting							X	X								
BID Capacity Enhancement workshop – Data mobilization and publication (Online training - Participation is mandatory)			X													
BID Capacity Enhancement workshop – Data use (Online training - Participation is mandatory)					X											
Check, sort and organise specimens	X	X	X	X												
Workshop and bench training		X														
Data entry and georeferencing			X	X	X	X	X	X	X	X	X	X	X	X	X	
Quality check and validation					X	X	X	X								
Data publication								X	X	X	X	X	X	X	X	
Compile the list of insect pests											X	X				
Draw distribution map											X	X				





Evaluation period start date and end date (01/01/2019 - 31/03/2019)				
Activity	1	2	3	Notes
Final financial and narrative reporting		X	X	
<Activity name>				

**4.1. Explanatory notes:**

There is no major changes on the initial plan



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## 5. Beneficiaries/affiliated entities and other cooperation

### 5.1. 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 relationship between the project coordination and partners has been smooth. We collectively agree on workshop dates and the selection of candidate to participate on the two training organized by GBIFS. We also discuss and agree on how to disturb fund in order to support activities in partner institutions. Work load was shared between institutions accordingly.

### 5.2. 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, to what extent has your BID project been able to build upon/complement the previous project(s) ?*

***An E-mail contact has been established with leaders of the two others BID projects in Cameroon namely Developing an Accessible Biodiversity Information System for Sustainable Development in Cameroon by Eva Paule MOUZONG and Mobilization of Biodiversity Data Related to Protected Areas and Threatened Species in Western Cameroon by Moses SAINGE NSANYI. Discussion are on-going to put together plan to strengthen Cameroon Node of GBIF. Feedback has been obtained from Moses. Later on; I have been contacted by Eva Paule MOUZONG who is planning a national meeting to launch the Cameroon Node of BGIF. According to her, the endorsement procedure for CAMBIF has been completed and Cameroon is now a new member of GBIF. I have been invited and participate on a two days workshop organized by the MINEPDED and IUCN (Eva Paule Mouzong) .with financial support from the UE trough GBIFS in Douala from 7 to 9 december 2018. I gave two presentations of the mandate and Mission of the GBIF and on the GBIF portal. I also backstopped the new GBIF Cameroon team on the former CAMBIF activities.***

## 6. Visibility

*Please refer to the [BID guidelines](#).*

### 6.1. Visibility of the BID project

*How is the visibility of your BID project being ensured?*

#### Short summary

Various Logos of GBIF, EU and BID project, BID Powerpoint template have been downloaded from the communication guidelines page of the GBIF web site. All these logos were placed on banners used to announce the two workshops conducted in Douala and in Yaoundé. A letter head with BID and EU logo were conceived and used for all administrative correspondence and reporting.

#### Sources of verification

Workshop report and group pictures, powerpoint presentation used during the training

### 6.2. Visibility of the EU contribution

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



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**Short summary**

EU logos were placed on banners used to announce the two workshops conducted in Douala and in Yaoundé. A letter head with BID and EU logo were conceived and used for all administrative and reporting

**Sources of verification**

Workshop report and group pictures, powerpoint presentation used during the training

