



BID Africa 2015 – National 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.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 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 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

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2. Project Information

2.1. Project Coordinator: Institution/network/agency name:

University of Ghana / Ghana Biodiversity Information Facility (GhaBIF)

2.2. Main contact person and role:

Alex Asase, Project Leader

2.3. BID proposal identifier:

BID-AF2017-0226-NAC

2.4. Project title:

Biodiversity data mobilization and capacity enhancement regarding conservation of threatened Ghanaian medicinal plants

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

1st June 2018 – 31st January 2019

2.6. Country in which the activities take place:

Ghana

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)

The use of herbal medicine in Ghana is widespread, but highly diverse owing to floristic and cultural diversity, such that traditional medicine has major impacts on the local economy and on biodiversity conservation. Many species of medicinal plants used in Ghana have become threatened thanks to factors such as unsustainable wild harvesting, habitat loss, changing land use and climate change. We have catalogued a checklist of threatened medicinal plants for the Ghana through a stakeholders' meeting organized at the Centre for Plant Medicine as part of this project. Digitization of data about medicinal plants was achieved to ensure digital preservation of indigenous cultured heritage, and biodiversity conservation can be enhanced when comprehensive information about the plants is openly available. One person from the project attended a BID capacity enhancement workshop in Cape Town, South Africa, and knowledge dissemination activities were partially completed. Development of information products in the form of scientific manuscript is on going. The major outcomes of the project are digitization of information, production of manuscripts as a result of the capacity and knowledge derived from the project.



3.2. Progress against expected milestones:

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

Expected milestones/activities	Completed? Yes/No	Explanatory notes	Sources of verification
Completed capacity self-assessment questionnaire for national biodiversity information facilities https://www.gbif.org/document/82277/capacity-self-assessment-guidelines-for-national-biodiversity-information-facilities (EN) https://www.gbif.org/document/82782/evaluation-des-capacites-pour-les-systemes-nationaux-dinformation-sur-la-biodiversite (FR) (Early Progress report milestone)	Yes		See report attached
At least three national data publishing institutions are registered with GBIF.org Guidelines to become a publisher: https://www.gbif.org/become-a-publisher (Early Progress report milestone)	Yes	All national data publishing institutions on this project has been registered as potential data publishers.	https://www.gbif.org/become-a-publisher
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 (Early Progress report milestone)	Yes	One person from the project has been awarded a badge (basic)	Workshop organizers / facilitators
Knowledge dissemination activities have been scheduled following the first BID Capacity Enhancement workshop (Early Progress report milestone)	Yes	Knowledge dissemination activities achieved	See report attached
At least one dataset has been published to GBIF.org (Midterm report milestone)	Yes	Three datasets have been published	www.gbif.org/project/6q1ktYSyo8ku6y4YWGYYa6/incrasing-data-mobilization-capacity-to-serve-threatened-medicinal-plants-in-ghana
The data users identified in the full proposal have documented their intended use of the mobilized data and provided early feedback (Midterm report milestone)	Yes	Data users have formally expressed interest in using data mobilized from the project	
All mobilized data have been published to GBIF.org	Yes		GBIF.org



(Final report milestone)			
All published data meet the minimum requirements outlined in the Data Quality Requirements available at https://bid.gbif.org/en/community/data-quality/ (Final report milestone)	Yes	We captured all datasets meeting 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 (Final report milestone)	Yes	One person received certification from BID capacity enhancement workshop. Details of people trained in national workshop is shown in report.	GBIFS/ Workshop report
Final capacity self-assessments for national biodiversity information facilities have been completed with sustainability plans. https://www.gbif.org/document/82277/capacity-self-assessment-guidelines-for-national-biodiversity-information-facilities (EN) https://www.gbif.org/document/82782/evaluation-des-capacites-pour-les-systemes-nationaux-dinformation-sur-la-biodiversite (FR) (Final report milestone)	Yes	For completed	See completed form attached
All uses of the mobilized data have been documented (Final report milestone)	Yes		Draft manuscripts
Best practices and lessons learned have been documented (Final report milestone)	Yes	Best practices have been noted	

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
Stakeholders in Ghana consulted about threatened medicinal plants	(1) Meeting with relevant stakeholders and project partners in the medicinal plant	Yes	We have had a meeting with relevant stakeholders and project partners in the medicinal plant industry. This meeting enabled us to	See reported attached



	industry; and (2) participation of stakeholders in dissemination workshop		catalogue a list of threatened medicinal plants. Stakeholders participation at dissemination workshop will take place later in the year	
Advanced training in biodiversity data analyses techniques and medicinal plants research	1) Continuous consultations with Prof. A. T. Peterson and Prof. M. S. J Simmonds; (2) internship of project leader at KU and Kew, Gardens; and (2) hosting of training workshop in Ghana; (3) Participation in BID capacity enhancement workshops.	Yes	There are continuous consultations with Prof. A. T. Peterson and Prof. M. S. J Simmonds. One person from the project participated in the capacity enhancement workshop. Internship at KU took place between October and December 2018. Hosting of a workshop will follow.	Draft manuscripts
Captured, geo-referenced and cleaned data on threatened medicinal plants of Ghana available	1) Capturing biodiversity data on medicinal plants; (2) geo-referencing and data cleaning activities.	Yes	Data capture started in all partner institutions and ended in December 2018.	
Digital Accessible Knowledge (DAK) on threatened medicinal plants from Ghana published	1) Capturing biodiversity data on medicinal plants; (2) geo-referencing and data cleaning activities.	Yes	Data captured has been published	GBIF.org
Production of information products on medicinal plants from Ghana	(1) Production of checklist of threatened medicinal plant of Ghana, and (2) publication of manuscripts and posters on medicinal plants.	Yes	This activity is on-going. A number of manuscripts are being reviewed in-house while some models are still running.	Checklist published via GBIF.org/ Draft Manuscripts
Dissemination workshop on project results	Hosting of a project dissemination	No	This activity has not yet taken place year due to	None





	workshop that will involve major stakeholders in the medicinal plant industry in Ghana		delays in project implementation, and transfer of funds from GBIFS.	
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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
University of Ghana medicinal plant checklist / dataset	Ghana Herbarium	GBIF France (http://ipt-ghana.gbif.fr)	March-August, 2018	Checklist of medicinal plants in Ghana published. Medicinal plant and associated plants collections also published
CPMR medicinal plants dataset	Centre for Plant Medicine Reserach	GBIF France (http://ipt-ghana.gbif.fr)	March-August, 2018	Data on herbarium collection at CPMR published
Foreign plant germplasm collections in Ghana	Plant Genetic Resource Research Institute (CSIR-PGRRRI)	GBIF France (http://ipt-ghana.gbif.fr)	March-December, 2018	Datasets published
Plant Genetic Resource Research Institute (CSIR-PGRRRI)	GBIF France (http://ipt-ghana.gbif.fr)	GBIF France (http://ipt-ghana.gbif.fr)	March-December, 2018	Datasets published
Living collections at Aburi Botanic Gardens	Aburi Botanic Gardens	GBIF France(http://ipt-ghana.gbif.fr)	March-December, 2018	Dataset published

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.

Description

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

Where did the demand for these data come from?

If yes, which policies have been developed using your data?

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



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Did you have a biodiversity data integration plan from the beginning of your project? 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?

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?

What additional support (resources, tools, network, training) would be needed for your project to ensure the flow of information from mobilisation to decision-making?

How would you improve on your own processes in the future to improve data integration in the future?

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?

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

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
Predicted impacts of global climate change on the geographic distribution of an invaluable African medicinal plant resource, <i>Alstonia boonei</i> De Wild	Output from analyses / Scientific publications	n/a	Asase, A and Peterson, A.T. 2018. Predicted impacts of global climate change on the geographic distribution of an invaluable African medicinal plant resource, <i>Alstonia boonei</i> De Wild. <i>Journal of Applied Research on Medicinal and Aromatic Plants</i> . Manuscript Under Review.
Effects of climatic change on conservation status of the threatened West-Central African endemic genus, <i>Tabotiella</i>	Output from analyses / Scientific publications	n/a	Asase, A. Jiménez-García, D and Peterson A. T. 2019. Effects of climatic change on conservation status of the threatened West-Central African endemic genus, <i>Tabotiella</i> . <i>Biodiversity and Conservation</i> . Manuscript Under Review
Effect of climatic change on geographic distribution of threatened medicinal plants from Ghana	Output from analyses / Scientific publications	n/a	Ecological niche modelling of threatened medicinal plants under scenarios of climate change. MOP analyses are currently running at Biodiversity Institute, KU.



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
Stakeholders' meeting on threatened Ghanaian medicinal plants	GhaBIF / University of Ghana	13 th December, 2017	22	See attached report
Knowledge dissemination workshop	University of Ghana	8 th -9 th March, 2018	15	See attached report
Ghana Biodiversity Information Management Forum	Connect/ ABC Project/ GhaBIF	22 nd -23 rd March, 2018	34	See attached 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 (maximum 24 months, starting 1 June 2016 at the earliest)																										
Implementation period start date and end date (01/10/2017 to 31/12/2018)																										
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	
Early progress evaluation & reporting			X	X																						
Mid-term evaluation & reporting							X	X																		
BID Capacity Enhancement Workshop – data mobilization and publication (participation is mandatory)			X																							
BID Capacity Enhancement Workshop – data use (participation is mandatory)					X																					
Stakeholder consultation	X	X																								
Data mobilization			X	X	X	X	X	X	X																	
Capacity enhancement									X	X	X	X								X	X					
Information products											X	X	X	X												
Data publication													X	X												
Dissemination workshop																				X	X					





Evaluation period (maximum 6 months, ending 31 December 2018 at the latest)							
Evaluation period start date and end date (dd/mm/yy)							
Activity	1	2	3	4	5	6	Notes
Final financial and narrative reporting		X	X				
Stakeholder consultation		X					
Data mobilization		X					
Capacity enhancement			X				
Information products			X				
Data publication			X				
Dissemination workshop			X				

4.1. Explanatory notes:

Dissemination workshop has not taken place due to unforeseen delays in project implementation.



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5. 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)

The Ghana Node of GBIF will collaborate with existing biodiversity informatics initiatives such as UNEP-WCMC CONNECT and JRS Biodiversity funded ABC project to ensure that capacity acquired will be used to mobilize more data that will be shared, and used in developing information resources. The Ghana Node of GBIF is also collaborating with other nodes (e.g. Liberia Node of GBIF) to apply for a GBIF capacity enhancement project in order to share experiences acquired from the BID project.

6. Beneficiaries/affiliated entities and other cooperation

6.1. 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.

There is a very healthy and productive working relationship among project partners.

6.2. 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) ?

We are working closely with other biodiversity informatics initiatives in the country including the GBIF-BID Ghana Node capacity enhancement project, the CONNECT Project funded by UNEP-WCMC, and the ABC Challenge funded by the JRS Biodiversity Foundation. We organized a Biodiversity Information Management Forum (BIMF) with other partners about the importance of sharing and using biodiversity data (see draft report attached)

7. Visibility

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

7.1. Visibility of the BID project

How is the visibility of your BID project being ensured?

Short summary

We talked about the BID project and acknowledged funding during our stakeholder meeting as well as the recently held BIMF in Ghana. We have also acknowledged BID in manuscripts that are currently under review for peer-reviewed publication.

Sources of verification

See attached reports.

7.2. 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

We acknowledged EU as the major source of our funding during our stakeholder meeting.

Sources of verification

See attached reports.

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Signature _____

Name of the contact person for the BID Project: _____

Date report sent by email in Word format to bid@gbif.org for pre-approval: _____

Date report sent by post to GBIF Secretariat: _____

