



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 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:

National Fisheries Resources Research Institute (NaFIRRI)

2.2. Main contact person and role:

Vianny Natugonza, Coordinating the implementation of project activities

2.3. BID proposal identifier:

BID-AF2017-0206-SMA

2.4. Project title:

Increasing capacity for conservation of threatened fish species through data mobilization and training

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

01st October 2017—31st November 2018

2.6. Country in which the activities take place:

Uganda

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 project was launched at NaFIRRI. This increased awareness about the intervention leading to scientists providing data which published through GBIF. A data needs survey was conducted to assess user-specific needs for fish biodiversity data to ensure that mobilized data directly benefits intended users. The outcomes were two-fold. First, this contributed to visibility of the project amongst different stakeholders who are data end users. Secondly, it helped to design formats for mobilizing data. Data mapping was also completed. Through this, NaFIRRI was able to identify data holding institutions. MoUs are currently being developed to strengthen partnerships and facilitate data sharing. The datasets that were lacking GPS coordinates in the first phase of data mobilisation have since been georeferenced, and ground-truthing was done to confirm some species occurrence basing on available locality names. In addition, the second data-set published has information on species abundance. One representative from the project completed the two capacity enhancement workshops and received certification badges for both workshops. Our self-capacity assessment form has been completed, scoring a maximum of 44 points. A national training workshop on data mobilisation and publishing was conducted at NaFIRRI with about 25 participants. This changed the perception of scientists about open data. Two datasets with a total of 10,691 occurrence records (106% of the target) have been published through GBIF. This project set a foundation for a bigger investment by JRS Biodiversity Foundation (with a grant of \$260,000) to continue with the data mobilisation, build more partnerships (that will see increased usage of freshwater biodiversity data in policy formulation), expand the data mobilisation scope by moving beyond fish to include other taxa such as invertebrates and algae, and create local tools for data sharing such as locally hosted data portal. Also, as a result of the GBIF-funded action, NaFIRRI was nominated to lead in the benchmarking of aquatic biodiversity data for monitoring the National Biodiversity Strategy and Action Plan (NBSAPII, 2015-2025) targets, and to identify areas for baseline data



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collection and long-term monitoring. Our BID intervention has therefore contributed to the Government targets (whose strategic objectives in the NBSAPII, among other, is to ensure that all basic taxonomic information is packaged in user-friendly formats and widely disseminated by 2020. For fish, this has been achieved. Through the JRS project, other aquatic taxa will be covered by 2020. In addition to Makerere University, the designated data user under this project, NaFIRRI has established collaborations with other data users such as NEMA, WCS, and IUCN. In particular, we are finalising an MoU with IUCN Freshwater biodiversity unit to use the mobilised data to update the Red List status of more than 100 fish species for Uganda which are outdated. Another MoU is being developed with WCS (Uganda) to use the mobilised data to identify and delineate freshwater Key Biodiversity Areas (KBAs). The National Biodiversity Data Bank (NBDB) also plans to use the mobilised data to enrich their data coverage on aquatic fresh water biodiversity taxa, which are missing and improve the biennial national biodiversity status report.



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 data holding institutions https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions (EN) https://www.gbif.org/document/82813/model-e-dauto-evaluation-pour-les-institutions-detentrices-de-donnees (FR) (Early Progress report milestone)	Yes		The completed questionnaire was sent by email to the BID team at Bid@gbif.org
At least one 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	NaFIRRI registered as a publisher, with endorsement from GBIF Uganda node	https://www.gbif.org/publisher/4f3d98d3-f69a-4929-9291-6c35340b6711
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 (Early Progress report milestone)	Yes	A representative of the project completed two capacity enhancement workshops in data mobilisation and use	Certification badges, GBIF records or see attached badges 
Knowledge dissemination activities have been scheduled following the first BID Capacity Enhancement workshop (Early Progress report milestone)	Yes	A national training workshop was scheduled and took place in September 2018	https://www.dropbox.com/s/avtzw94vxb4iguo/BI-D-AF2017-0206-SMA_Training_outcomes.pdf?dl=0
At least one dataset has been published to GBIF.org (Midterm report milestone)	Yes		DOI: https://doi.org/10.15468/dl.tp9ipy
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	High demand for taxonomic data, particularly as regards identifications, and geographical data for distribution modelling and training	https://www.dropbox.com/s/i4dpg6kezkykz8/BI-D-AF-2017-0206-SMA_Documentation_of_data_use.docx?dl=0
All mobilized data have been published to GBIF.org (Final report milestone)	Yes	Two datasets have been published	https://www.gbif.org/publisher/4f3d98d3-f69a-4929-9291-



			6c35340b6711
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	All published data have been checked and meet minimum data requirements	https://www.gbif.org/dataset/search?publishing_org=4f3d98d3-f69a-4929-9291-6c35340b6711
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	See the detailed training report from the link	https://www.dropbox.com/s/avtzw94vxb4iguo/BI-D-AF2017-0206-SMA_Training_outcomes.pdf?dl=0
Final capacity self-assessments for national biodiversity information facilities have been completed with sustainability plans. https://www.gbif.org/document/82785/self-assessment-guidelines-for-data-holding-institutions (EN) https://www.gbif.org/document/82813/modele-dauto-evaluation-pour-les-institutions-detentrices-de-donnees (FR) (Final report milestone)	Yes	The capacity of NaFIRRI to plan and implement a data mobilisation and publishing project is at 100%	The completed questionnaire was sent by email to the BID team at Bid@gbif.org
All uses of the mobilized data have been documented (Final report milestone)	Yes		https://www.dropbox.com/s/i4dpg6kezkykz8/BI-D-AF-2017-0206-SMA_Documentation_of_data_use.docx?dl=0
Best practices and lessons learned have been documented (Final report milestone)	Yes	Lessons learned for capacity enhancement are document in the training report	https://www.dropbox.com/s/avtzw94vxb4iguo/BI-D-AF2017-0206-SMA_Training_outcomes.pdf?dl=0



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
Dataset with at least 10,000 records of fish species record	Data needs assessment	Yes		See report at https://labanmusinguzi.com/2018/01/15/report-fish-biodiversity-data-users-and-data-holders-in-uganda/
	Data mapping	Yes		See report at https://labanmusinguzi.com/2018/01/15/report-fish-biodiversity-data-users-and-data-holders-in-uganda/
	Data mobilisation	Yes	Two datasets with 10691 occurrence records have been published through GBIF	https://www.gbif.org/dataset/search?publishing_org=4f3d98d3-f69a-4929-9291-6c35340b6711
Skills and capacity in data mobilisation and publishing enhanced	Trainee identification and selection	Yes	One scientist was nominated to attend BID capacity enhancement workshops	GBIF records
	National training workshop in data mobilisation, and publishing	Yes	A three-day training workshop in data mobilisation, publishing and use was held at NaFIRRI	See workshop photos at https://www.dropbox.com/sh/zirsq3bbyyoea6t/AADVvnB9lJAoxj_fC2JxsK3ma?dl=0 See training report at https://www.dropbox.com/s/avtzw94vxb4iquo/BID-AF2017-0206-SMA_Training_outcomes.pdf?dl=0
Formatted datasets of fish records published through GBIF	Data formatting and publishing	Yes	Two datasets with 10691 occurrence records have been published through GBIF	https://www.gbif.org/dataset/search?publishing_org=4f3d98d3-f69a-4929-9291-6c35340b6711
Increased awareness of biodiversity data and use in policy decisions	Intended data use documented	Yes		https://www.dropbox.com/s/i4dpq6kezklkz8/BID-AF-2017-0206-SMA_Documentation_of_data_use.docx?dl=0



	Preparation of dissemination packages	No	These depend on data being published first; and the last dataset has just been published	Factsheets, brochures and posters will be finalised by July 2019
	Stakeholder engagement and production of a policy brief	Yes	Many stakeholders in policy planning have been engaged through NEMA's CONNECT network. A policy brief is being prepared and will be finalised by July 2019	Draft can be found here: https://www.dropbox.com/s/8r6651hf2t0anak/NaFIRRI%20BID%20POLICY%20BRIEF.docx?dl=0



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
Fish distribution and occurrence in Uganda	NaFIRRI	https://doi.org/10.15468/dl.tp9ipy	June 2018	
Fish sample event data for Uganda	NaFIRRI	https://doi.org/10.15468/yx4qaz	January 2019	

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?

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 were 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:



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- 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
Fish distribution and occurrence in Uganda	Report (Documenting the progress of the National Biodiversity Strategy and Action Plan (NBSAPII) that has a target of having all basic taxonomic information packaged in user-friendly formats and widely disseminated by 2020	https://doi.org/10.15468/dl.tp9ipy	Report not published but you can contact the CBD national focal point at NEMA, Francis Ogwai, sabinofrancis@gmail.com
Occurrence data	Education material. ZEFS to use occurrence data to produce checklist	https://doi.org/10.15468/yx4qaz	https://www.dropbox.com/s/i4dpq6kezkykz8/BID-AF-2017-0206-SMA Documentation of data use.docx?dl=0
Fish sample event data for Uganda	Policy brief and stakeholder engagement materials.	https://doi.org/10.15468/yx4qaz	This is ongoing; to be finalised by June 2019. Draft available https://www.dropbox.com/s/8r6651hf2t0anak/NaFIRRI%20BID%20POLICY%20BRIEF.docx?dl=0
Fish sample event data for Uganda	Scientific publications (Makerere University plans use the data produce national red listing assessments for fish)	https://doi.org/10.15468/yx4qaz	https://www.dropbox.com/s/i4dpq6kezkykz8/BID-AF-2017-0206-SMA Documentation of data use.docx?dl=0
Fish sample event data for Uganda	Scientific publications (IUCN plans use the data to update the red lists for Uganda for fish)	https://doi.org/10.15468/yx4qaz	This is planned for July 2020

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
Jinja Fish Festival	Uganda	02 nd	>1000	http://usja.ug/nafirri-to-exhibit-50-fish-species-



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	Science Journalist Association	December 2018		at-iinja-festival/?fbclid=IwAR3T52IG1nHdM6gu2_hyJKvgesthAvnqoZK3mhxX9skRclcaRHxEqSFkE https://www.dropbox.com/sh/sh1u54hj5sa5kfy/AABtDnahA11rDQDEJlJo0uSCa?dl=0
Increasing capacity for conservation of threatened species in Uganda: Project Launch	NaFIRRI	20 th October 2017	26	<p>Link to signed attendance list (https://www.dropbox.com/s/swsusfbp50d0xg4/Attendance%20List_Project%20Launch.pdf?dl=0)</p> <p>Link to photos https://www.dropbox.com/s/g0jo46jp5mk8irk/Selected_photos_and_captions.zip?dl=0</p> <p>Link to video https://labanmusinguzi.com/2017/10/13/new-funding-to-increase-capacity-for-conservation-of-threatened-fish-species-in-uganda/</p>
Training on biodiversity data mobilization and publishing for conservation decision making	NaFIRRI	17-21 st September 2018	25	https://www.dropbox.com/s/knhj6t88kqaok3r/Training%20outcomes.docx?dl=0





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 (dd/mm/yy) Start date: 01/10/2017 End date: 31/11/2018																
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Notes
Early Progress evaluation & reporting			X													Completed
Mid-term evaluation & reporting							X									
BID Capacity Enhancement workshop – Data mobilization and publication (Online training - Participation is mandatory)			X													completed
BID Capacity Enhancement workshop – Data use (Online training - Participation is mandatory)						X										Completed
Data needs assessment	X	X	x													Completed
Data mapping		X														Completed
Data mobilisation and publishing			X	X	X	X	X	X	X	X	x	x	X	x	x	Completed
Geo-referencing records									X	X	X	X	X	X	X	Completed
Trainee identification and selection							X									Completed.
Training and capacity enhancement for handling collection, data management and data paper publishing at national level												X				Completed
Data formatting					X	X	X	X	X	X	X	X	X	X	X	Completed
Data publishing								x			X				X	Completed





Documentation of intended use of the mobilized data							X										Report by data user not yet finalised
Preparation of dissemination packages										X	X	X	X	X	X		To be completed by July 2019
Stakeholder engagement and production of a policy brief		X	X	X	X	X	X	X	X	X	X	X	X	X	X		Draft policy brief available (see above) to be finalised by June 2019



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Evaluation period start date and end date (dd/mm/yy)				
Start date: 01/12/2018				
End date: 28/02/2019				
Activity	1	2	3	Notes
Final financial and narrative reporting		X	X	
All mobilised data published on GBIF website	X		X	Completed
Communication of results to stakeholders		X		Ongoing
Final project evaluation			X	

4.1. Explanatory notes:

The two deliverables that have not been finalised, i.e. dissemination materials and policy brief are in draft form, and will be finalised by July 2019 once the published data have been properly analysed. The draft policy brief can be found at <https://www.dropbox.com/s/8r6651hf2t0anak/NaFIRRI%20BID%20POLICY%20BRIEF.docx?dl=0> but note that is a draft which is in its initial stages of development. Engagement with stakeholders to integrate data into policy decisions is also lengthy process that could not be finalised within the lifespan of this project. However, with the running JRS project, which will be building on the work started under the GBIF-funded project, we hope it sustain the momentum generated and see data used in policy and conservation planning.



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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)

From the capacity enhancement workshops held, scientists now have capacity to mobilize, process, and publish data and prepare associated data papers. This is important in terms of sustainability. It is expected that the momentum generated will motivate participants to continue data mobilization efforts well on their own into the future.

Nonetheless, we foresee that some additional financial resources will be needed to sustain data mobilization efforts, as it is a time consuming undertaking. This will be supported by emerging data mobilisation projects, such as the recently won grant from JRS. It is expected, therefore, that new data will continuously emerge, and be published, and this will be verified by more data being published through GBIF. In addition, NaFIRRI is currently developing a data portal that will enable data holders to contribute data directly, where it can be formatted following appropriate standards and published open access.

From the onset of this project, we engaged NaFIRRI's top administrative body, the National Agricultural Research Organisation (NARO), to include biodiversity data mobilisation and sharing in the mainstream research themes that receive routine national funding. We hope this will sustain the momentum in data mobilisation that has been initiated.

Data assimilation efforts into policy will be sustained by NEMA through the CONNECT network, which is implementing a project of mainstreaming Uganda's biodiversity at the heart of Government Decision making.

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.

The project coordination team has so far had a good working relationship with the collaborators. The initial stages of the project initiated very strong collaborations between NaFIRRI and Wildlife conservation society (WCS), who intend to collaborate with the department of Zoology, Entomology and Fisheries Sciences (ZEFS) to use the data to assess the conservation status of fish using national criteria; National Biodiversity Data Bank (NBDB) that intends to use the data to enrich their data coverage on aquatic fresh water biodiversity, which are conspicuously missing, and improve reporting for the biennial national biodiversity status report; and IUCN that intend to use the data to update the Red Lists for fish. However, these could not be completed within the life time of the project, and they are ongoing.



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) ?

This project has stimulated the National Environmental Management Authority (NEMA), a critical government data user institution in policy planning, through the CONNECT project, which is a government project that is aimed at mainstreaming biodiversity data within the heart of Government decision making, to nominate NaFIRRI to lead in the benchmarking of aquatic biodiversity data for monitoring the National Biodiversity Strategy and Action Plan (NBSAPII, 2015-2025) targets and identify areas for baseline data collection and long-term monitoring, which will benefit immensely from the data generated by this project. In addition the project is collaborating with Fauna and Flora International (FFI), Uganda, which intends to use the data in their current project interventions on Lake Victoria to identify and delineate fish breeding zones and create community-conserved areas that will link up with national legislation to formally protect areas. The project also provided a solid foundation for a larger investment by JRS biodiversity foundation, which aims at sustaining the data mobilization efforts started under the BID project, but also expand on the scope to include invertebrates and algae.

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

The project has a dedicated webpage hosted on the NaFIRRI web domain and is updated regularly. The project was introduced to scientists at the implementing institution during a launch. The project has used a blog, with links to social media to help disseminate news about the project. The data mapping and user needs assessment, and continuous engagements with the wider CONNECT project network have been also an opportunity to increase visibility of the project among relevant institutions.

Sources of verification

<http://firi.go.ug/BID/index.html>

<https://labanmusinguzi.com/2017/10/13/new-funding-to-increase-capacity-for-conservation-of-threatened-fish-species-in-uganda/>

7.2. Visibility of the EU contribution

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

Short summary

Since the EU logo was provided, the visibility of EU contribution is ensured through the use of EU logo on the project webpage, and presentation about the project, as well as proper acknowledgement of EU in every document produced by the project and during stakeholder engagements.



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Sources of verification

<http://firi.go.ug/BID/index.html>



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