



BID Africa 2017 – National Grant Template Midterm narrative report

Instructions

- Fill the template below with relevant information. If no result has been achieved on a specific point, please indicate it as “no result achieved yet” and **indicate 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

Table of Contents

1.	Table of Contents	1
2.	Project Information	2
3.	Overview of results	2
4.	Updated calendar for the BID project implementation and evaluation period	6
5.	Beneficiaries/affiliated entities and other cooperation	8
6.	Visibility	8

Project Information

Project Coordinator: Institution/network/agency name:

Parc Botanique et Zoologique de Tsimbazaza

Rue Fernand Kassanga, Tsimbazaza, Antananarivo, 101. Madagascar

Main contact person and role:

Rokiman Letsara, Project coordinator

BID proposal identifier:

BID-AF2017-0174-NAC



This programme is funded by the [European Union](#)

Project title:

BRYOTAN : Sharing data on a hidden diversity: the bryophytes of Madagascar

Start date and end date of the reporting period:

September 2017-January 2019

Country in which the activities take place:

Madagascar

Overview of results

Executive summary

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

Notice that our project was delayed because of the plague epidemic in Madagascar during november-december 2017; the first workshop was delayed to January but we try to fill the backlog. Informations and life of the project are published on the website <https://www.bryotan.com>

During the reporting period, we improved and began to apply the protocol for processing herbarium specimen in Antananarivo (TAN herbarium). We published first data (647 on May 31st) on the GBIF portal. We prepared the identification workshop welcoming international specialists in TAN in September 2018. Two meetings of the BryoTan team were organized: one in Paris including technical training in January 2018 and one in Antananarivo in May 2018.

Organization of BryoTan : During the workshop in Paris, we decided of the final administrative organization of the project, with Rokiman LETSARA as project leader, in charge of the GBIF implementation and of geolocalization. Roger Lala ANDRIAMIARISOA is designed as the senior technician and Catherine REEB as the scientific manager. We decided to engage a technical help both for herbarium management and data entry. We auditioned candidates and chose Faraclarance Eilertsein NANIARIMINO to work with the project until 31st December 2018. We planed shot vacations for geolocalization and informatics help in the last last of the project

September workshop : we selected seven experts in Tropical bryology (Annexe 1). Organizational duties were checked: accommodations, local transportation, working room and accommodations organization in PBZT, optical equipments (microscope and binocular lens), small scientific equipments, water access etc. Contacts with Antananarivo and Mahajanga Universities were made in order to get students involved for the workshop and after (training and master subjects).

Herbarium management : specimen in TAN herbarium are very heterogeneous, from labelled and pre-identified ones to other just kept in collection bags with poor informations. First, we gathered all the bryophytes specimen disseminated across the herbarium and/or in other institutions in Antananarivo such as MBG (Missouri Botanical Garden). A dedicated furniture was built in order to access easily to the specimens. The labelled and identified specimen were sorted by taxomical rank (even if at the family level) and stored in the furniture.

Numerous collection were re-discovered in the herbarium and put together. The semi-automated work-flow to get standardized labels through Excel/Word was tested and improved until we all agree with it. Collections are being repacked and labeled. Available informations are entered into Excel worksheet, then controled for GBIF implementation. Identification workshop in September will enhance the level of identification of the specimens.

Image acquisition: Work-flow for specimen characters scanning was standardized (Annexe 2). First images at species level were acquired.

Training on Xper2 knowledge databases, in order to integrate students for the long term project of description of Malagasy bryophytes (links with the general project Madbryo <https://www.madbryo.org>).

Data implementation on GBIF: A standardized Excel sheet was built by Rokiman to receive data. After cleaning and control they are implemented on GBIF (Annexe 3). A first set of data were uploaded using the local IPT interface: <https://www.gbif.org/dataset/d06771c1-2276-49b8-81ba-f7be0887d0bd>



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
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		
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	Parc Botanique et Zoologique de Tsimbazaza	
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	Rokiman Letsara went to BID capacity workshop in South Africa	
Knowledge dissemination activities have been scheduled following the first BID Capacity Enhancement workshop (Early Progress report milestone)	yes	Rokiman Letsara disseminated activities, and all the bryotan team is aware of the workflow	see website
At least one dataset has been published to GBIF.org (Midterm report milestone)	yes	649 occurrences (31 mai 2018)	http://ipt.madbif.mg/resource?r=bryotan
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		



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
Database of National herbarium specimens for bryophytes (mosses)	Raw database from labels information (Gathering labels information). Old (until ~ 1950) and newer labels will be decrypted and the information stored in Excel sheets built with columns using Darwin Core record standards that could be further integrated into diversity databases.	No	The database management is ongoing all along the project. The Excel sheet has been standardized, and labels too. More than 600 specimen have been entered for the moment. As the technical helper is engaged to June 1st, it will enhance this activity.	All activities are presented in a narrative way on our website. Raw Excel sheets can be provided (labels) and Annexe 4 (GBIF IPT datasheet); this last one are then cleaned and implemented through IPT on Madbif, and on the GBIF server.
	New packaging and storage for easy and safe accession to the specimen	No	Ongoing, specimen are being repacked, thanks to the helper.	
	Duplication of mixed species. Addition to the herbarium from existing collection. Superficial examination of the content in order to point out the presence of several species in the envelopes, as it is often the case in bryophytes collection under the tropics. This stage will be useful for further project on identification and revision of the specimens.	Yes	It was finally decided not to duplicate mixed species for the moment, because of time consuming, and of the need of the workshop identification before doing that. When several species are present in an envelope, they are just cited at the lower level possible on the data-sheet	Images of collection and specimens before/after are taken, and compared
	Applying a Barcode label on each pocket.	No		Envelopes images
	Geolocalization of old and new specimens.	No	Ongoing, it will depend on the access of the printer and the availability of special barcode rolls.	
	Interpretation of old labels information in			



	order to get the most precise geolocalization. Enter Gps points (decimalLatitude & decimalLongitude as recommended by Darwin Core and GBIF data quality requirements) of newer specimens. Use of Geolocate, and Local databases on Malagasy places (MBG gazeeter etc.)		Ongoing, we are now in the heart of this activity as data are being implemented on the GBIF server	
Constitution of a committee for Malagasy Bryophytes	Committee for Malagasy Bryophytes meetings	Yes	This committee was built in collaboration with the Madbryo project which has more general goals on Malagasy bryophytes. One meeting of the steering committee was already conducted in Paris. Video-conference for people who could not reach Paris was organized at Sorbonne University. The second is planned in Paris on June 7th. Rokiman and Roger from BryoTan will be invited to this committee	MADBRYO project https://www.madbryo.org and Bryotan website https://www.bryotan.com
Publication of National guide for bryophytes treatment and data mobilization techniques	Training of technician, about voucher management, bryophytes treatment for image acquisition, label homogenization, database management and rough bases on mosses systematics, useful for herbarium treatment. Bryologist from MNHN will come to Antananarivo and train, helped with local bryologists, the technician, PBZT staff, volunteer students and local botanists interested, and apply what was	Yes	This training was conducted in Paris in January then in May in Antananarivo, during the visit of Catherine Reeb MNHN, two weeks in TAN herbarium. The guide on bryophyte management will be written at the end of the project, waiting for experience and return from our experience	Images of training on website



	<p>planned by the Committee</p> <p>For image acquisition, only directly concerned staff will be trained, because of lack of efficient microscopes (one-two), and number of available computers. If this can be managed, more people will be trained. Treatment of major image possibilities in bryophytes through microscope and binocular lens (<i>In toto</i> leaves, sporophytes, spores, cross sections of stem, leaves etc). Use of the Moticam camera and post treatment (Gimp, Inkscape).</p>	yes		
Collection of computerized images implemented in database and Website	<p>Choice of images</p> <p>Preparation of the samples under microscope, glass slides. Acquisition of selected images depending on the taxa, at the family or genus scale. Use of the Moticam camera.</p> <p>Image post-treatment, using GIMP, Inkscape freeware.</p>	yes	Microscope and camera were bought in February and images are being acquired.	<p>First images of bryophyte specimen.</p> <p>Image of the microscope-camera on website https://www.bryotan.com/may-workshop-in-tan-ep-3-bryophytes-numerization-may-workshop-in-tan-ep-3-bryophytes-numerization</p> <p>Standardized Excel sheet for images available in Annexe 3.</p>
Training and identification workshop in Antananarivo	<p>Pre-workshop sorting :</p> <ol style="list-style-type: none"> 1. Sorting the envelopes at the family/genus level in order to prepare the identification workshop. 	yes	<p>In part. A new furniture was built under the supervision of Roger.</p> <p>It will be completed for the September workshop</p>	<p>Images of the furniture</p> <p>https://www.bryotan.com/a-new-furniture-for-bryophytes</p>



	<p>Correct most evident errors (Liverwort/moss , or easy genus recognition such as <i>Polytrichum</i> for ex.)</p> <p>2. Ask and receive unidentified mosses specimens from PC / MO herbarium to complete TAN specimen be treated by specialists. It will be done especially if the risk "over-evaluation for the sampling" is believed (see 2.7-1).</p> <p>3. Prepare the logistic of the workshop.</p> <p>4. Workshop</p> <p>5. Regrouping mosses specialists (~5-8 maximum) to work on their family or group in Antananarivo during ten days; This include training sessions for students, local bryologists or botanists interested in bryology.</p> <p>6. A technician team, mainly composed of PBZT staff, the coordinator and students will manage specimens (determinavit, labels, envelopes,</p>	<p>no</p> <p>Yes</p> <p>NO</p> <p>NO</p>	<p>Does not seem to be realistic for the moment. In the context of the Madbryo Project, PC and MO, EGR herbarium are also beginning to sort their material from Madagascar.</p> <p>All the practical details have been taken in account and budget verified. Plane tickets for six experts are bought. 2-3 other specialists will take their plane with co-funding</p> <p>It will take place from September 22th to October 6th. One week is planned to work t the herbarium funded by GBIF, then one week on the field near Andasibe forests, with accommodation and personal expenses taken in charge by every scientist</p> <p>Students are selected (3-4 mx) to help along the workshop. A free training is proposed and a systematic master subject can be proposed for whom interested</p>	<p>see Madbryo website</p> <p>https://www.madbryo.org</p> <p>Information sheet will be sent to the participants. Available on demand.</p>
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	<p>labels data etc.) in order to let the specialists at full time on identification work while identification sessions..</p> <p>7. Treatment and computerization of new information will be conducted during the Workshop by technician and with students help.</p>	NO	During workshop	
Web site on Malagasy bryophytes	<p>Creation and management of the web site "Bryophytes of Madagascar" (Tropicos server), it will host general information on bryophytes, specificities, historical consideration on Malagasy bryology, links on data</p>	Yes	<p>A blog was created in order to relate the everyday of the project.</p> <p>The main project goals and simplified protocols are presented</p> <p>Links are provided on Madbryo project, and collaboration</p>	<p>https://www.bryotan.com/blog</p>
Publication on GBIF Portal of Malagasy Bryophytes database with specimens, images and taxonomy	<p>Transfer of data to the GBIF portal using IPT tools, under Darwin Core record fields, data quality control and standardization of the data. Hosting on GBIF national node MADBIF.</p> <p>Type of data : Check-list of Malagasy Bryophytes, sampling event and localization.</p> <p>Load images on GBIF and linked databases of the Website.</p> <p>Build links with i-Naturalist</p>	<p>Yes</p> <p>Yes in part</p>	<p>In part : protocols are tested, files are standardized and first data were implemented/</p> <p>We decided to publish both occurrences data and check-list, in order that images can be linked to a species (in check-list dataset) and to the real specimen (occurrences dataset). We prefer this solution in order not to put images not corresponding to a specimen to illustrate it (if images from one sample are used to illustrate a species in an occurrence dataset).</p> <p>We decided to put images</p>	<p>649 (may 31St) data on line on Bryophytes of Tan herbarium</p> <p>In progress , waiting for the GBIF server link.</p>



			<p>on a GBIF sever, thanks to Sophie Parmelon from GIBF France in order to avoid duplicate if i-naturalist is gathered by GBIF.</p> <p>The link will be given in the Darwin core field "AssociatedMedia".</p>	
			<p>Protocol were tested and first images uploaded on i-naturalist</p>	
Exchanges with other herbarium for non-treated families during the workshop		No	Will be done after workshop of September and with collaboration of Madbryo project. Verbal and mailing collaboration began of course	
Xper databases	<p>Production of Xper databases on selected genus/family (<i>Leucobryum</i>, <i>Polytrichum</i>, <i>Dicranaceae</i> ...) in order to enhance student and bryologists training both in bryology and in IAO knowledge data. In links with SEPD2D project. Example to follow a full work-flow from specimen to data sharing, and complete taxonomic implementation.</p> <p>This is the first stage for a future Flora on Malagasy mosses</p> <p>Note: Xper database are not an obligation for BRYOTAN project, but it is an interesting initiative to enhance taxonomic data</p>	No	<p>We did not get funding from SEP2D but we want to initiate Xper2 databases. Contact are taken with Antananarivo and Mahajanga Universities and a proposal for participating to the workshop and field trip for 2-3 students joined to a master subject including an XPer2 database were proposed</p> <p>A training for Xper2 database was conducted for BryoTan team and colleagues. It will be renewed for students.</p>	<p>Help for workshop and Master proposal provide in Annexe 5</p> <p>Blog</p>
Report for a National plan for exploration of bryodiversity	Elaboration of a National Program for future bryophytes exploration and	No	Probably too early, it is discussed among the Madbryo project .We need to get accurate data, as well	-



	conservation		taxonomical, geographical, ecological, and dated.	
Bryophytes presentation leaflet to be distributed in public, institutions schools etc.	Leaflet Elaboration and distribution	No	Contact are taken with Antananarivo university, «département biologie et ecologie végétale» to get co-funding and to produce with colleagues teaching bryology this leaflet, based on Malagasy bryophytes	Interest declaration and co-funding demand

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
Bryophyte specimens at TAN Herbarium	PBZT (Parc Botanique et Zoologique de Tsimbazaza) Occurrences dataset + checklist with images		began on 2018, May 24 th .	<p>First data set 126 specimen and reached 649 specimen on May 31th.</p> <p>Links with other projects :</p> <p>1) we decided to add the suffixe "_TAN" to all our number in order to avoid collection number duplicate. Ex collection N° CR100 -> CR100_TAN</p> <p>2) a field "associatedOccurrences" could link the occurrence CR100_TAN to CR100 in PC or MO. As explained in bryology they are not, very often, exact replicate. Collectin are not accurately identified in PC and MO, and TAN will provide accurate identifications from our Workshop.</p> <p>* If several taxa are present in one collection, new occurrences, CR100_TAN, CR100B_TAN, CR100C_TAN are created.</p> <p>* IN other cases, the specimen contains only one species</p> <p>3) As explained, the identification will be conducted under the GBIF BID funding, and will always be used for other specimen which can be stored in other herbarium. We propose to use:</p> <p>"identifiedBy" with the name of the specialist who will make the identification during the WS in September, followed by "identification Remarks" containing "Workshop GBIF BID BRYOTAN, September 2018, Antananarivo, Madagascar"</p>
Images dataset	PBZT (parc Botanique et zoologique de	GBIF server. OR Flickr	on line images reported	see above – we are waiting for the link on GBIF server. We could use flickr, too if we cannot access quickly to the server.



	Tsimbazaza)	https://www.flickr.com/ if server not available or with not enough space.	reported, but images are taken.	
PC herbarium mosses specimen (MNHN, Paris, France)	Occurrence_only	MNHN, Paris	Began on January 2018. Available on Sonnerat	Sorting and informatization. included in MadBryo project, the work is conducted by Elodie Dubuisson, MNHN, also engaged in Bryotan, for PC-Tan links.
MO mosses specimen	Occurrence_only	Missouri Botanical Garden, Saint Louis, USA	Began on November 2017.	Sorting and data entering on Tropicos. Links with GBIF data. Available on Tropicos (Catalog of plants of Madagascar) http://www.tropicos.org/Project/Madagascar



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 downloaded from GBIF in the “Contributing dataset(s)” column. Briefly describe how the data contribute or are planned to contribute in the “targeted application” column (ca. 50 words). Provide the date or approximate timeframe in months for the completion of activity in the “Date/time frame” column. Timeframe indicated may be after the completion of the project unless targeted application is one of the deliverables 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.

Targeted application	Data user	Contributing dataset(s)	Date/time frame	Sources of verification	Notes
Pilot study on Malagasy bryological endemism	Scientists	GBIF TAN, Tropicos, Sonnerat	begin June 2018	?	TAN will be of great help, but after September workshop, when plants will be identified. More generally, it is difficult to plan accurate tasks with unidentified specimens, and such a fuzzy and mixed information on Malagasy species. This stage of sorting and data mobilization is fundamental to build then scientific question, to build conservation plan for bryophytes and ecological
Plan to explore unexplored areas	Scientists	GBIF, Tropicos, Sonnerat	Planned in spring 2019	Field trip organization will be announced on Madbryo and bryotan websites.	Just After the implementation time of the project
Atlas of mosses from Madagascar, with effect of deforestation on Malagasy bryoflora	Scientists and biodiversity managers	GBIF, Tropicos, Sonnerat	not before 2019,	on line databases	Need data to be completed from every herbarium After the implementation time of the project
Phylogenetic diversity of Malagasy mosses at the genus level: highlighting of endemism, radiations and biogeographical patterns.	Scientists	GBIF, Tropicos, Sonnerat	not before 2019,	on line databases	Need data to be completed from every herbarium After the implementation time of the project; linked to the pilot study
Proposal for a first bryophyte red list for Madagascar	Scientists and biodiversity managers	GBIF, Tropicos, Sonnerat	not before 2019-2020,	on line databases	Need data to be completed and proposed to IUCN After the implementation time of the project. need of diversity analyses,



					based on clear identification and representation of the Malagasy bryophytes flora.

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
Paris workshop	MNHN paris	January	6	BryoTan website https://www.bryotan.com
Steering Committee of Madbryo including Bryotan team	MNHN paris	January 19th	10	Madbryo website https://www.madbryo.org
TAN workshop including Identification workshop preparation	PBZT	2018, May 22th to May 27 th	3 to 6 depending of activities	BryoTan website
Steering Committee of Madbryo including Bryotan team	Sorbonne Université, Paris	2018, June 7th	12 people, more colleagues sent interest about the project	Madbryo website





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 (01/12/17 to 31/12/2018)																
Activity	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Notes 1 = Oct. 2017 and 15 = Decembre 2018
Herbarium data mobilization	✗	✗	X	X	X	X	X	X	X	X	X	X	X	X	X	Includes all activities, from envelopes to geolocalization
Committee for Malagasy Bryophytes meeting in Paris		X							X							Towards a National Plan for Bryophytes
Technician training		x	X	x	X			X	X							After Meeting in Paris; training with bryologist of MNHN and MBG
Image acquisition				✗	✗	✗	✗	X	X	X	X	X	X	X		a continuous work along the project
Workshop											X	X				~ 10 days with training sessions, but work up and down the workshop
Website				X	X	X	X	X	X	X	X	X	X	X	X	Could be less; a management of the web site with updating is easy after beginning. If Tropicos is used, the soft is already available.
Sharing Data, Publication on GBIF Portal								X	X	X	X	X	X	X	X	~ 600 data have been shared
Exchanges and database completion											x	x	x	x	x	
Elaborate Xper databases			✗	✗	✗	X	X	X	X	X	X	X	X	X	X	A parallel activity that will enhance taxonomical data.
Elaboration of a National Program for future bryophytes exploration												X	X	X	X	A synthesis and report after this project from which a Plan for a few years will be elaborated (future data to treat such as liverworts, exploration, phylogenetic diversity analysis – PHD subject? etc.)
Leaflet on bryophytes										X	X	X	X	X	X	Technical treatment on taxonomic information
Early Progress evaluation & Reporting					x			x								



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valuation period start date and end date (dd/mm/yy)				
Activity	1	2	3	Notes
Final reporting	X	X	X	
<Activity name>				

Explanatory notes:

The project has been delayed due to the plague invasion in Madagascar last year (instead of October 2017, it started in January 2018).

First data publishing was possible after pre identification and arrangement of the specimens by Lala Roger. Labels has been created for each packed specimens. So far 1/3 of the specimens at TAN has been packed and stored in a temporary cabinet. It does not fit the entire collections but we planned to get more cabinets. A technical assistant has been recruited to contribute to digitizing the information on packed specimens. A dataset called Bryophyte specimens at TAN Herbarium has been created in the IPT portal. So far 490 / 3000 occurrences has been cleaned and shared on GBIF website. We start now to upload data on i-naturalist website and will link the data.



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Beneficiaries/affiliated entities and other cooperation

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 result of the BRYOTAN project will be linked to Tropicos database (Missouri Botanical Garden), and to the larger Madbryo project (<http://www.madbryo.org>). It will be published as well in the iNaturalist website.

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) ?

The larger project Madbryo, which aims to enhance knowledge on Malagasy bryophytes. In other herbarium (MO, PC, EGR), Malagasy bryophytes are also being curated, sorted and data-based (Sonnerat and Tropicos). The data from Tan herbarium, as the National Malagasy herbarium are fundamental for the whole project. BryoTan will be the central point for numeric images on Malagasy taxa, through GBIF databases.

As bryophytes specimen are not unique such as angiosperms or ferns, we must have a reflexion about occurrences disseminated through different herbarium: they do necessarily represent the same taxa and must be physically checked. We are initiating a discussion about that, in order to avoid duplicates with different informations, and to link similar collections.

Visibility

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

Visibility of the BID project

How is the visibility of your BID project being ensured?

Short summary

The visibility of the BID project can be ensured by the use of the BID logo at each event. It can be displayed on the BRYOTAN website.

It is also announced on the website <https://www.madbryo.org/collections> as the first and major project contributing to the improvement of knowledge on Malagasy bryophytes

Short summary

Use of the logo of the BID

Sources of verification

Each organized event linked to the BRYOTAN project will be posted on the BRYOTAN website, as a newsletter

<https://www.bryotan.com/>

Visibility of the EU contribution

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

Short summary

Use of the logo of the European Union

Sources of verification

<https://www.bryotan.com/>



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Signature _____

Name of the contact person for the BID Project: _Rokiman Letsara_____

Date report sent by email in Word format to bid@gbif.org for pre-approval: __mai 30th 2018

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