

FINAL NARRATIVE REPORT

Guidelines on how to complete the activity report are included in italics.

Use the information included in your CESP Full Proposal (reproduced in Annex 1 of your CESP contract) as a baseline from which to complete this report.

Remember that this report will be made available on your project page on the GBIF website and therefore should not include any contact information, unless you have permission from all mentioned in the report that their contact information can be published.

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1. Project information

Please insert text in the table

Project title	Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain	
Project ID	CESP2019-001	
Project period	Start date (dd/mm/yy): 01/06/19	End date (dd/mm/yy): 31/12/20
Reporting period	Start date (dd/mm/yy): 01/06/19	End date (dd/mm/yy): 31/12/20
Project lead		
Name of the main contact person	Luke Jimu	
Name of institution	Bindura University of Science Education	
City and country	Bindura, Zimbabwe	
GBIF Participant represented	GBIF Zimbabwe	
Role(s) in this project	Project Lead	
Project partner(s)		
Name and institution of the representative	GBIF Participant represented (if applicable)	Role(s) in the project
Cristina Villaverde, Royal Botanic Garden-CSIC villaverde@gbif.es	GBIF Spain	Mentorship, Coordinator
Katia Cezón, Royal Botanic Garden-CSIC katia@gbif.es	GBIF Spain	Mentorship
Miguel Vega, Royal Botanic Garden-CSIC miguel.vega@gbif.es	GBIF Spain	Mentorship
Felipe Castilla, Royal Botanic Garden-CSIC felipe.castilla@gbif.es	GBIF Spain	Mentorship
Carmen Lujano, Royal Botanic Garden-CSIC mcarmen@gbif.es	GBIF Spain	Mentorship

2. Executive summary

Please provide a brief summary of your project's objective(s), its implementation and achievements. You should also describe the context and the approach taken for the final evaluation of your project, and the key best practices and lessons learnt identified. Remember to include any additional objectives that were defined during the implementation of the project and explain why they were added to the project's initial objectives. In the event of unexpected challenges that have prevented you from reaching a planned project objective, please provide explanations and indicate if and how you plan to reach these objectives post project. (Max. 300 words)

Building on a pre-existing collaboration between GBIF Zimbabwe and GBIF Spain that was initiated by the GBIF Secretariat in November 2018, under the Node Mentoring Programme, the objective of this project was to strengthen GBIF Zimbabwe through node to node mentorship and capacity building of new data holders and users in Zimbabwe. The project started with online activities that resulted in the successful setting up of an IPT for GBIF Zimbabwe hosted at Bindura University of Science Education. This was followed by a hands-on training workshop held in Madrid, Spain, in September 2019. During this workshop, two members of GBIF Zimbabwe were mentored by five members of GBIF Spain in data mobilisation, citizen science and general node management. The core team of GBIF Zimbabwe's was structured in a manner similar to that of GBIF Spain. Following the training of GBIF Zimbabwe trainers, the second workshop was held at the end of January 2020 in Harare, Zimbabwe, to train data holders on various data mobilisation and publishing tools. The last workshop on data access and use, coordinated by members from GBIF Spain and GBIF Zimbabwe was held in Bindura in March 2020 and was attended by members from government departments, universities and colleges. Through online interaction between GBIF Zimbabwe and GBIF Spain, a five year Strategic Plan was developed for GBIF Zimbabwe. The plan will be the document of reference on the direction that the node will take in the next five years. Other achievements accomplished through online activities were the launching of GBIF Zimbabwe's official website and twitter account. One of the impacts of the project is that two major data holders (Forestry Commission and the National Herbarium and Botanic Garden) have registered as GBIF publishers, increasing the number of registered institutions to four. More institutions are expected to join GBIF and to publish biodiversity data through GBIF Zimbabwe's IPT.

3. Progress against expected milestones

Please indicate the status of the expected milestones as outlined in Annex 3 of the contract, at the time of final reporting.

Please provide more information in the Deliverables table in section 5 of this report, including detailed explanatory notes in the event of unexpected delay(s).

Expected milestones	Completed? Yes/No
IPT for GBIF Zimbabwe set up. (Mid-term report milestone)	Yes
Two staff members from GBIF Zimbabwe trained. (Mid-term report milestone)	Yes
Five year GBIF Zimbabwe Strategic Plan and 2020 Action Plan developed (Final report milestone)	Yes
Data mobilisation workshop for new data holders in Zimbabwe held and at least 40 participants from at least 10 new data holding institutions trained on data mobilization. (Final report milestone)	Yes

Expected milestones	Completed? Yes/No
At least three new data holders join GBIF. (Final report milestone)	No
At least 5 datasets and 20,000 records published through GBIF. (Final report milestone)	No
Data Access and Data Use Workshop to be conducted in Zimbabwe held and at least 40 participants from Zimbabwe trained on how to access data from GBIF and data papers. (Final report milestone)	Yes
Completion of final capacity self-assessment. (Final report milestone)	Yes

4. Activities

Please indicate the status of the activities as outlined in your CESP Full Proposal (section 3.5), at the time of final reporting.

The table below should be completed in the same way as in your CESP Full Proposal, but should include information and updates on the status of each activity. Please indicate relevant source(s) of verification and provide links, or a copy of the source of verification mentioned if no links are available. Attachments should be provided in the Annex.

In the event of unexpected delay(s), please provide detailed explanatory notes and indicate new planned completion date(s).

Please include any additional activities completed during the implementation of the project that were not originally outlined in your CESP Full Proposal.

Add rows as required.

Activity name	Status of activity: Completed? Yes / No (inc. % complete)	Explanatory notes, including new planned completion date if necessary	Source(s) of verification
Online discussions on GBIF Zimbabwe Strategic Plan with GBIF Spain	Yes	Strategic Plan completed. Notes from online discussions available.	https://docs.google.com/document/d/1xe331CFiLvc5sNdqIM-zUdqGOB1eu8nuIUZyKD4yYp8/edit#
Setting up the IPT of GBIF Zimbabwe through assistance from GBIF Spain	Yes	Although we had challenges with the installation of the IPT on the server (e.g. changing from http to https), we ultimately succeeded.	https://ipt.buse.ac.zw/ipt/
Training of two staff members from GBIF Zimbabwe by GBIF Spain on the data publication workflow and citizen science engagement	Yes	This activity was very successful	https://www.gbif.es/en/first-mentoring-project-meeting-in-madrid-between-gbif-zimbabwe-and-gbif-spain/
National training of new data holding institutions in Zimbabwe on data mobilisation by trainers trained by GBIF Spain and local partners	Yes	This activity was successful although we didn't reach the targeted number of participants which was 40.	https://www.gbif.es/en/taller-publicacion-datos-en-gbif-instituciones-zimbabue/

Activity name	Status of activity: Completed? Yes / No (inc. % complete)	Explanatory notes, including new planned completion date if necessary	Source(s) of verification
National data access stakeholders training workshop with participation from GBIF Spain	Yes	This activity was very successful as we exceeded the targeted number of participants which was 40.	https://www.gbif.es/en/gbif-spain-trains-experts-working-with-biodiversity-data-in-a-workshop-in-bindura-zimbabwe/
Publishing datasets of data providers in Zimbabwe through GBIF	No (8 % complete)	One dataset published by Bindura University of Science Education. A small dataset published by the Forestry Commission as a test dataset.	https://ipt.buse.ac.zw/ipt/manage/resource?r=occurrence_data_for_wild_food_species_in_zimbabwe https://www.gbif.org/dataset/fe8be2e9-d7ed-4548-b2a4-df375a1afe85

5. Deliverables

Please indicate the status of each of the planned deliverables as outlined in your CESP Full Proposal (section 3.6), at the time of final reporting, listing the related activities connected to these and explanatory notes. Please highlight any changes from the original plans.

The table below should be completed in the same way as in your CESP Full Proposal, but should include information and updates on the status of each deliverable. Please indicate and provide links to documents or webpages in the "Sources of verification" column, or a copy of the source of verification mentioned if no links are available. Attachments should be provided in the Annex.

In the event of identifying a deliverable as not completed, please provide detailed explanatory notes, % complete and expected completion date.

Please include any additional deliverables completed during the implementation period that were not originally outlined in your CESP Full Proposal.

Add rows as required.

Deliverable name	Status of deliverable: Completed? Yes / No (inc. % complete)	Explanatory notes including new planned completion date if necessary	Source(s) of verification
5 year GBIF Zimbabwe Strategic Plan	Yes	Strategic Plan completed.	https://docs.google.com/document/d/1xe331CFiLvc5sNdqIM-zUdgGOB1eu8nuIUZyKD4yYp8/edit#
IPT setup for GBIF Zimbabwe	Yes		https://ipt.buse.ac.zw/ipt/
Two GBIF Zimbabwe staff trained	Yes	Activity was very successful	https://www.gbif.es/en/first-mentoring-project-meeting-in-madrid-between-gbif-zimbabwe-and-gbif-spain/
Mid-term report	Yes		
At least 40 participants from at least 10 new data holding institutions in Zimbabwe trained on data mobilisation	Yes	The workshop was attended by 29 participants from 15 institutions.	https://www.gbif.es/en/taller-publicacion-datos-en-gbif-instituciones-zimbabue/
At least 40 participants from Zimbabwe trained on how to access data from GBIF	Yes	The workshop was attended by 46 participants from 16 institutions.	https://www.gbif.es/en/gbif-spain-trains-experts-working-with-biodiversity-data-in-a-workshop-in-bindura-zimbabwe/
At least 5 datasets and 20,000 records published through GBIF	No (8 % complete)	Two datasets published by Bindura University of Science Education (1460 occurrences) and a small test dataset by the Forestry Commission (83 observations), one of the two newly registered data publishers from Zimbabwe.	https://ipt.buse.ac.zw/ipt/manage/resource?r=occurrence_data_for_wild_food_species_in_zimbabwe https://www.gbif.org/dataset/fe8be2e9-d7ed-4548-b2a4-df375a1afe85
GBIF Zimbabwe website	Yes		http://www.gbifzimbabwe.gg/
GBIF Zimbabwe twitter account	Yes		twitter.com/GBIFZ

Deliverable name	Status of deliverable:	Explanatory notes including new planned completion date if necessary	Source(s) of verification
	Completed? Yes / No (inc. % complete)		
Completion of final capacity self-assessment	Yes		
Final report	Yes		

6. Events organized as part of the project

Please indicate the status of the events as outlined in your CESP Full Proposal (section 3.7), at the time of final reporting.

The table below should be completed in the same way as in the CESP Full Proposal, but should include information and updates on the status of each event. Please provide links to any documents or web pages documenting the event(s) in the sources of verification. Attachments should be provided in the Annex

In the event of unexpected delay(s), please provide detailed explanatory notes and indicate new planned completion date(s).

Please include any additional events organized as part of the project that were not originally outlined in your CESP Full Proposal.

Add rows as required.

Event title	Organizing institution	Date held / expected dates	Number of participants	Explanatory notes	Source(s) of verification
Online discussions with GBIF Spain to develop GBIF Zimbabwe Strategic plan and 2020 Action plan	Bindura University	01/06/19 to 31/05/20	3	We held 4 online meetings and exchanged several emails along the project period to discuss and develop the strategic plan	https://docs.google.com/document/d/1xe331CFiLvc5sNdgIM-zUdgGOB1eu8nuIUzyKD4yYp8/edit#

Event title	Organizing institution	Date held / expected dates	Number of participants	Explanatory notes	Source(s) of verification
Setting up an IPT for GBIF Zimbabwe	Bindura University	01/06/19 to 31/08/19	7		https://ipt.buse.ac.zw/ipt/
Training of two staff from GBIF Zimbabwe by GBIF Spain on Darwin Core standards, data quality tools, IPT and citizen science	GBIF Spain	16/09/19 to 18/09/19	7		https://www.gbif.es/en/first-mentoring-project-meeting-in-madrid-between-gbif-zimbabwe-and-gbif-spain/
National training of new data holding institutions in Zimbabwe on data mobilisation	Bindura University	09/01/20 to 10/01/20	29		https://www.gbif.es/en/taller-publicacion-datos-en-gbif-instituciones-zimbabue/
National data access stakeholders workshop with participation from GBIF Spain	Bindura University	02/03/20 to 03/03/20	46		https://www.gbif.es/en/taller-publicacion-datos-en-gbif-instituciones-zimbabue/
Launching of website for GBIF Zimbabwe	Bindura University		3		http://www.gbifzimbabwe.gq/

7. Calendar of activities

The calendar should be completed the same way as in the CESP Full Proposal (section 3.9), but should also clearly indicate and include any changes (e.g. by the use of colour coding). Please provide explanations for any changes in the notes column. Please provide general comments on the calendar of your activities in the 'General comments on project implementation' section.

Activity		2019							2020					Notes
		J	J	A	S	O	N	D	J	F	M	A	M	
Activity:	Online discussions with GBIF Spain to develop a Strategic plan for GBIF Zimbabwe	X	X	X	X	X	X	X	X	X	X	X	X	Strategic Plan completed
Lead partner:	Bindura University													
Activity:	Setting up an IPT for GBIF Zimbabwe			X	X									
Lead partner:	Bindura University													
Activity:	Training of two staff members from GBIF Zimbabwe				X									
Lead partner:	GBIF Spain													
Deadline for mid-term reporting and milestones							X							
Activity:	Data mobilisation workshop for new data holders in Zimbabwe								X					
Lead partner:	Bindura University													
Activity:	Data Access Workshop to be conducted in Zimbabwe										X			
Lead partner:	Bindura University													
Deadline for final reporting and completion of all activities and deliverables.													X	

7.1. General comments on project implementation

(Max. 200 words)

The project was generally implemented well and within the prescribed time frame. However, there were some challenges on the management of finances caused by the policy inconsistencies on the official currency and hyperinflation. We also struggled to transfer foreign currency to Spanish catering company that we are still trying to sort out.

Although we managed to engage a high number of stakeholders from the country in the capacity activities run during the project, we just managed to publish a few datasets from those institutions during the project period. However, we are sure that the collaborations that have been established will help us in the future mobilization of more datasets from different stakeholders and data types.

We have managed to complete the project despite this difficult time.

8. Project communications and visibility

Describe the way the results of your project have been and will continue to be communicated and shared with the project stakeholders and broader GBIF community.

Please also review the page describing your project available from <https://www.gbif.org/programme/82219/capacity-enhancement-support-programme#projects> and highlight any additional documents, events, news items or links that you would like to add to your page and provide links/attachments in the Annex.

(Max. 300 words)

The results of the project were and continue to be communicated by posting on the official websites of GBIF Zimbabwe, GBIF Spain and through the mailing lists of participants of the workshops. Three news were published to promote the main events of the project and the workshop materials:

- <https://www.gbif.es/en/first-mentoring-project-meeting-in-madrid-between-gbif-zimbabwe-and-gbif-spain/>
- <https://www.gbif.es/en/taller-publicacion-datos-en-gbif-instituciones-zimbabue/>
- <https://www.gbif.es/en/gbif-spain-trains-experts-working-with-biodiversity-data-in-a-workshop-in-bindura-zimbabwe/>

Another effective way used to communicate the project's activities is the use of Twitter accounts for GBIF Spain and GBIF Zimbabwe. These platforms will continue to be used to communicate the activities of the node in the future.

Information on the CESP project will continue to be available for reference purposes to GBIF Zimbabwe stakeholders and the GBIF community on the project's official GBIF website. The two workshops run in Zimbabwe must be added as events in the project webpage at [gbif.org](https://www.gbif.org) (<https://www.gbif.org/project/3Vkr6xaI59hVPi68fCkpO/strengthening-zimbabwes-gbif-node-through-mentoring-by-gbif-spain#about>). Links with more information and materials about these events are provided in the Annex below. Furthermore, the mid-term and the final project narrative reports communicate the results of the project and will continue to do so in the future.

Lastly, the results of the project will be used as reference material in GBIF Zimbabwe's future similar activities and events.

We also promoted the second phase of the BID programme in the national workshops as another way to keep working on the mobilization of data from this region and also to strengthen the collaborations and partnership made during the project.

Lastly, the activities of our mentoring project were highlighted during the GBIF Global Nodes Training in Leiden 2019. The success stories of the project were shared with other nodes through a jointly prepared presentation.

9. Monitoring, evaluation and lessons learned

Please indicate the results of the monitoring and evaluation, as outlined in your CESP Full Proposal (section 3.8), at the time of final reporting. Please return to the [capacity self-assessment\(s\)](#) that you completed as part of your project proposal and update it to reflect progress through your project.

Ideally this section should also include the following:

- An evaluation of the project activities and their outputs/deliverables
- An assessment of the overall outcomes, impacts of the project and how it contributes to the overall objective of the CESP programme
- A description of the results of the individual capacity self-assessments and the development of the institution in comparison to when the project started.
- Comments on the project implementation and completion, and its efficiency and effectiveness, strength and weaknesses etc.
- Any feedback on the project's relevance from the partners and stakeholders
- Indications and reasons for any changes which have been made to the project's original plans, and actions to follow-up
- Areas of success to build on, after the project's implementation period and best practices that could be useful for the community
- Main lessons from the project experience that could be applied in other contexts
- Conclusions from your experience during the implementation of the project and recommendations for the GBIF Secretariat or the community to reinforce the success of the project

(Max. 400 words)

Project monitoring was directly done by completing the mid-term and final reports as well as the initial and final capacity self-assessments, which were prescribed in this project.

The project activities which were mainly training workshops were evaluated through evaluation forms (<https://docs.google.com/forms/d/1qwkVq2oieS74Lsq-pcXX8ybAlt5QThCmYOh6AOGRCNw/edit#responses>), completed by each participant. The evaluations assessed each workshop's training content and facilitation. Evaluation of the impacts of the Data Mobilisation and the Data Access and Use workshops is still outstanding and will be done by mid June 2020. The feedback we got from the stakeholders was really good. They really appreciated both workshops on data mobilisation and data access and data use. They found the presentations and information provided really useful, like opening a new horizon for many of them. Either for the research community and the policy makers community (e.g. <https://twitter.com/GbifEs/status/1235908576004145152>).

Evaluation of the longer term impact of the project will be done through a survey to be conducted six to twelve months after completion of the project. Based on the results from this survey, GBIF Zimbabwe will be able to replicate these training workshops to keep on engaging national data providers, as necessary.

Going into the future, GBIF Zimbabwe will continuously monitor the quantities and qualities of data published in the GBIF database as well as data use by stakeholders in the country. The number of new GBIF Zimbabwe data publishers will also be monitored. During the course of this CESP project, two institutions were registered as data publishers in Zimbabwe. The impact of the project will also be assessed by visits to both GBIF Zimbabwe and GBIF Spain websites and activity in Twitter accounts (followers, number of tweets, number of likes and re-tweets). By the time of final reporting, the statistics were as follows:

Finally, evaluation of implementation of the five year strategic plan will be done mid-term and at the end of the strategic period. Annual reviews will be used to measure milestones against targets set in annual action plans and the Strategic plan.

10. Sustainability plans

Please provide a description of how the partners involved will build on the results of this project in their future work. This could include future collaborative activities, such as plans to complete any unfinished project activities and how the future impact of the project could be monitored and/or measured.

(Max. 200 words).

GBIF Zimbabwe and GBIF Spain will continue to work together to monitor and evaluate the impact of this project which is expected within six to twelve months of completing the project. Beyond this project, GBIF Zimbabwe will continue to work with GBIF Spain, especially in critical areas that were identified during the course of this project. These include capacity building in citizen science, Living Atlases and data use software e.g. those used in ecological niche modelling and R. It is our willingness to also apply for joint proposals aimed at improving data mobilisation and use in both nodes. We plan to monitor this future work by keeping the online tasks board we created for the project organization: <https://wekan.gbif.es/b/mWh44Yz8jLec3eLnB/mentoring-zimbabwe> where staff members of both nodes are involved, report progress on activities and create new ones.

11. Annex 1 – Additional sources of verification

Sources of verification are for example links to relevant digital documents, news/newsletters, brochures, workshop related documents, pictures, etc.

Agenda for Madrid meeting: https://docs.google.com/document/d/1FIZhV-PKCXs7ZuL2kH-d1uksN_PGeTCjFT86qP55lws/edit?usp=sharing

Presentations from Madrid meeting: <https://www.gbif.es/wp-content/uploads/2019/07/Presentaciones-utilizadas-durante-la-reunion-de-Madrid-sept.-2019.zip>

Online exercises from Madrid workshop: <https://www.gbif.es/wp-content/uploads/2019/07/Casos-practicos-utilizados-durante-la-reunion-de-Madrid-sept.-2019.zip>

Pictures from Madrid Meeting: <https://photos.app.goo.gl/UkoVNuBD8TpnY7tb8>

Project web page at GBIF.ES website: <https://www.gbif.es/en/proyecto/fortaleciendo-nodo-gbif-zimbabue/>

Tweets published: <https://twitter.com/search?f=tweets&q=%23MentoringZimbabwe%20>

Presentations and exercises from Harare workshop: https://www.gbif.es/wp-content/uploads/2019/07/Presentations_Harare_Jan.2020.zip

Presentations from Bindura workshop: https://www.gbif.es/wp-content/uploads/2019/07/Presentations_Bindura.zip

Use cases from Bindura workshop: https://www.gbif.es/wp-content/uploads/2019/07/Use_cases_Bindura.zip

Evaluation from Bindura workshop:
<https://docs.google.com/spreadsheets/d/1KY5gGNuKOBNIp5jiYnRiUEdJB86G41bdloeNx7A49DI/edit?usp=sharing>

Photo album from Bindura workshop: <https://photos.app.goo.gl/oVByEo1HeY3v1Y5x6>

GBIF - Capacity Enhancement Support Programme

Project board at GBIF.ES servers: <https://wekan.gbif.es/b/mWh44Yz8jLec3eLnB/mentoring-zimbabwe>

Joint presentation at the Global Nodes Training: GBIF Spain on Social Media and communication mentoring activities with GBIF Zimbabwe:

<https://docs.google.com/presentation/d/1SlqpyYrQCMWLkqIKkuhGyWs2HN1wY72SYloD-Qk09zs/edit#slide=id.p1>