



ITCER in GBIF: To become a publisher of occurrence data

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Expert Workshop on GBIF Data
Publication in Africa, 17.10.2024



GBIF network



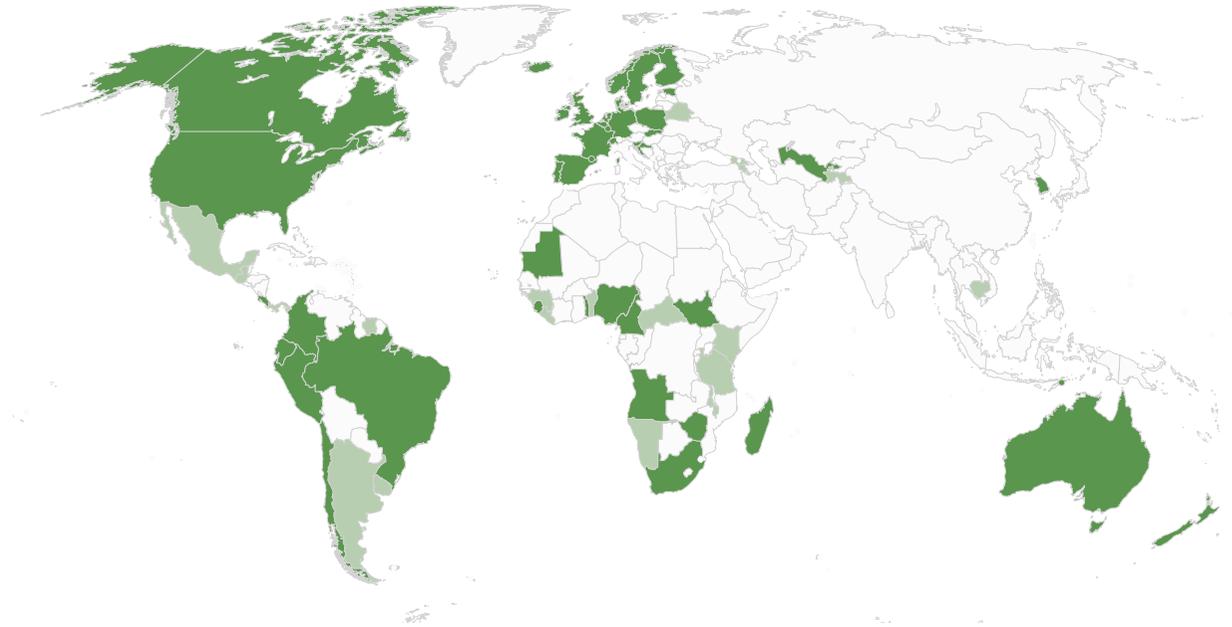
GBIF Participant countries: 142

1 July 2024

142

countries/areas with institutions
sharing data through GBIF

-  Voting Participants
-  Associate Participants



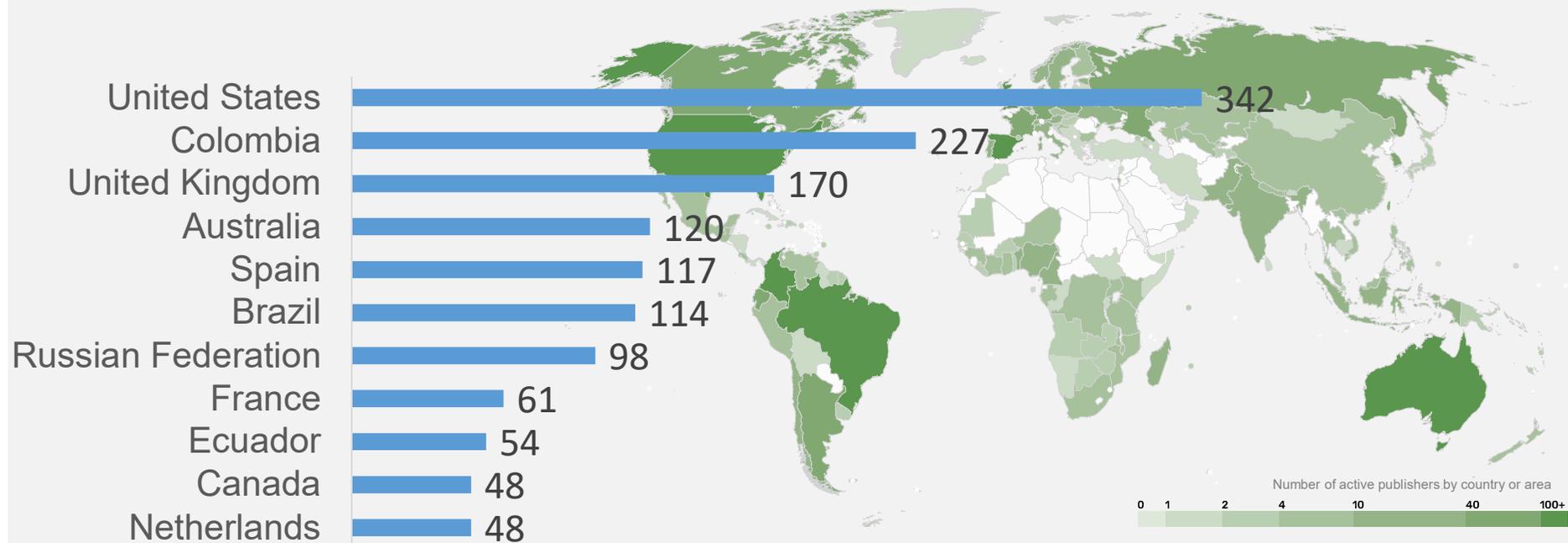
<https://www.gbif.org/the-gbif-network>

GBIF data publishing institutions: 2,249

1 July 2024

First 11 of 142

countries/areas with 2,249 institutions sharing data through GBIF



GBIF Network

Species occurrence records with multimedia evidence

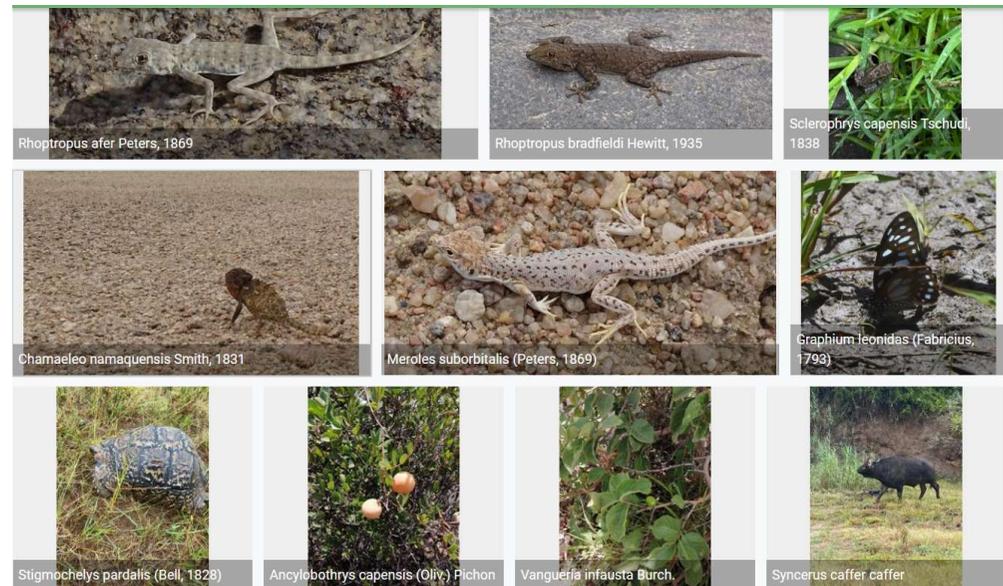
1 July 2024

180.7 million records with taxonomically identified images

- 120.6 million human observations
- 55.0 million specimens
- 2.8 million material samples
- 1.4 million fossil specimens

1,420,991 audio files

10,418 videos



<https://www.gbif.org/occurrence/gallery>

GBIF Network: www.gbif.org

- GBIF Secretariat, IT Network
- GBIF Participants, e.g. nodes of countries, e.g. of Kenya
- GBIF Data Publishers (organisations), e.g. ITCER
- GBIF Datasets with occurrence data records, e.g. ITCER Macrobiome dataset on site



ITCER in GBIF – a guideline



- To become a data publishing institution
 - Fulfill administrative endorsement criteria
 - Fulfill technical endorsement criteria (agreement with hosting centres or participant node organisation)
- After that: ready to publish one or more datasets
- Attention! No individuals can provide data for GBIF
- GBIF Data Publishers are organisations.



ITCER in GBIF – a guideline



5. **Data Publishing:** The process of and agreements for making data freely and universally available on the Internet.
6. **Data Publisher:** A custodian that makes data publicly available, whether or not they are the data owner. In cases where data publishers are not the data owners, they will have declared that they have permission to make the data available under terms of the GBIF [Data Publisher Agreement](#).

ITCER in GBIF – To become a data publishing institution



- Data management and publication infrastructure might be hosted by SNSB like for Komorov Bot. Inst. (ABCD/ BioCASE option with long-term preservation via DWB services)

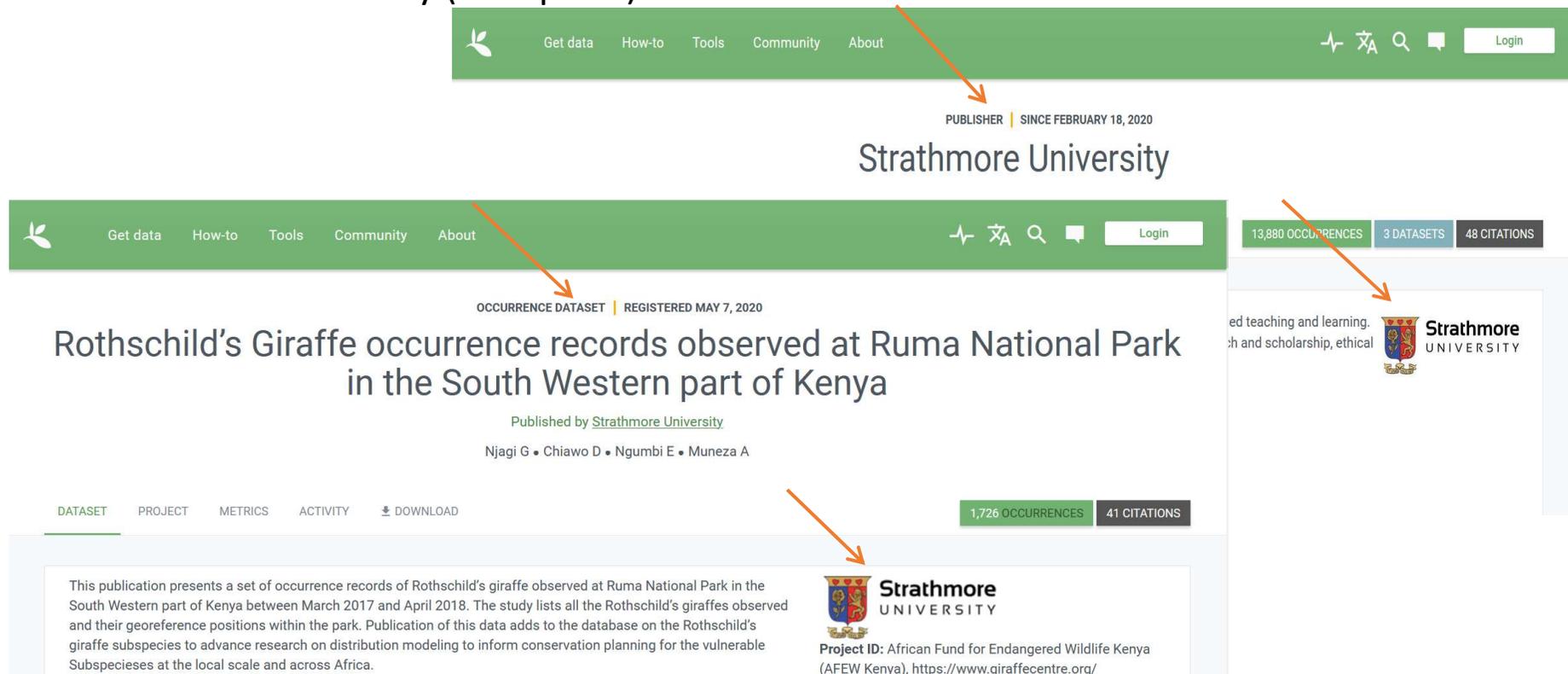
The image shows two screenshots from the GBIF website. The top screenshot is the publisher page for the Komorov Botanical Institute, Russian Academy of Sciences, St. Petersburg, established since April 27, 2016. It features a green navigation bar with 'Get data', 'How-to', 'Tools', 'Community', and 'About' links. A search bar contains the text 'triebel'. On the right, statistics show 90,222 occurrences, 39 datasets, and 370 citations. The bottom screenshot shows a dataset page for 'The Myxomycetes Collection at the V. L. Komorov Botanical Institute, St. Petersburg', registered on June 19, 2007. It has 12,828 occurrences and 66 citations. The dataset page includes a URL, a flower icon, and metadata: 'Metadata last modified: June 12, 2024', 'Hosted by: Staatliche Naturwissenschaftliche Sammlungen Bayerns', and 'Licence: CC BY 4.0'. A 'How to cite' section shows the DOI 10.15468/i83r9k.

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ITCER in GBIF –To become a data publishing institution

- Data publication infrastructure might be hosted by National Museums of Kenya like for Strathmore University (IPT option)



The screenshot displays the GBIF website interface. At the top, a green navigation bar contains links for 'Get data', 'How-to', 'Tools', 'Community', and 'About', along with search and login icons. Below this, the 'Strathmore University' publisher profile is shown, indicating it was established on February 18, 2020. A summary bar shows 13,880 occurrences, 3 datasets, and 48 citations. The main content area features an occurrence dataset titled 'Rothschild's Giraffe occurrence records observed at Ruma National Park in the South Western part of Kenya', registered on May 7, 2020. The dataset is published by Strathmore University and lists authors Njagi G, Chiawo D, Ngumbi E, and Muneza A. A secondary bar for this dataset shows 1,726 occurrences and 41 citations. The dataset description states: 'This publication presents a set of occurrence records of Rothschild's giraffe observed at Ruma National Park in the South Western part of Kenya between March 2017 and April 2018. The study lists all the Rothschild's giraffes observed and their georeference positions within the park. Publication of this data adds to the database on the Rothschild's giraffe subspecies to advance research on distribution modeling to inform conservation planning for the vulnerable Subspecieses at the local scale and across Africa.' The Strathmore University logo and project information (Project ID: African Fund for Endangered Wildlife Kenya (AFEW Kenya), https://www.giraffecentre.org/) are also visible.

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- endorsed by GBIF Kenya (for both options: ABCD/ BioCAsE and IPT)

The screenshot displays the GBIF website interface. At the top, there is a navigation bar with links for 'Get data', 'How-to', 'Tools', 'Community', and 'About'. A search bar on the right contains the text 'trieb'. Below the navigation bar, a 'Publishers' sidebar is visible on the left, with a search input and a filter for 'Country or area' set to 'Kenya'. The main content area shows search results for 'Wangari Maathai Institute for Peace and Environmental Studies, University of Nairobi', with 8 results. An orange arrow points to the search results header. Below the search results, there is a section for 'Kenya' with the Kenyan flag and the text 'An associate participant from Africa'. Below this, there is a 'PARTICIPANT SUMMARY' section with the following details:

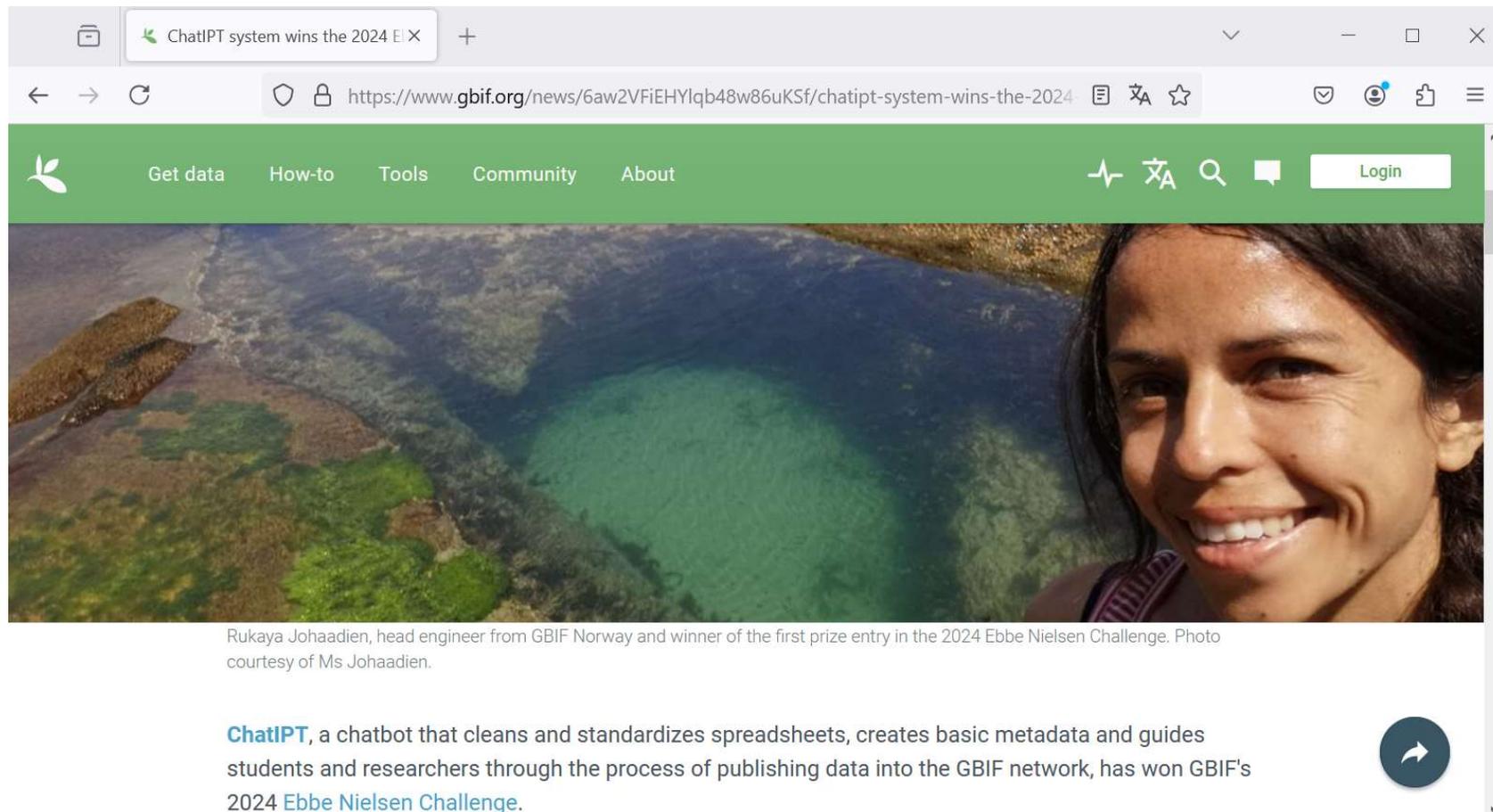
Member status: Associate	Node name: GBIF Kenya
GBIF participant since: 2008	Website:
GBIF region: Africa	Participant node manager: Lawrence Monda
Head of delegation: Geoffrey Mwachala	

An orange arrow points to the 'Node name' field in the participant summary.

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ITCER Tools for GBIF dataflow?



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GBIF material linked under:

<http://www.snsb.info/SNSBwiki/Wiki.jsp?page=Expert-Workshop-on-GBIF-Data-Publication-in-Africa-2024>

Relevant GBIF Resources

[GBIF overview: PowerPoint slides](#)

[GBIF Africa Network](#)

[GBIF Participant Node Kenya](#)

[GBIF Kenya Activity Report 2023](#)

[GBIF Data Publisher Endorsement Guidelines](#) (with involvement of the GBIF Node Kenya)

[Become a GBIF Data Publisher](#) (to be accepted by ITCER, endorsed by the GBIF Node Kenya)

[GBIF data publisher agreement](#)

[Data Hosting Centres](#) (to be accepted by ITCER and SNSB - BioC)

[Agreement on GBIF Hosted Repository Service](#) (Repository Owner)

Blog on Choose dataset class:

- [example for class occurrence data](#)
- [example for class checklist data](#), see [data quality requirements](#)
- [example for class sampling event data](#)

[Blog on GBIF Occurrence License Processing](#)

[Blog on Sharing images, sounds and videos on GBIF](#)

[GBIF occurrence dataset from Russia hosted by SNSB data publisher](#) as example

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Thank you!

Screenshots and resources mentioned in the slides are cited under

<http://www.snsb.info/SNSBwiki/Wiki.jsp?page=Expert-Workshop-on-GBIF-Data-Publication-in-Africa-2024>