





Giraffe weevil (*Trachelophorus giraffa Voss*), Madagascar, Photo by linnettse, CC BY-NC 4.0

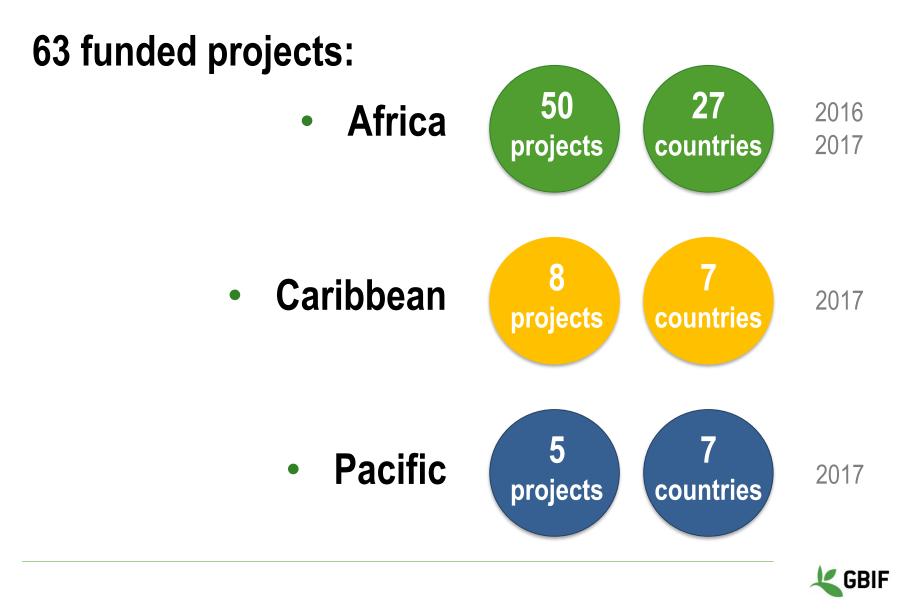
Common monkey lizard (*Polychrus marmoratus*), Trinidad and Tobago, Photo by Chuck Sexton, CC BY-NC 4.0. Spotted porcelain crab (*Neopetrolisthes maculatus*), Solomon Island, Photo by Mark Rosenstein, CC BY-NC-SA 4.0.

Impact Study Biodiversity Information for Development programme

David Bloom, VertNet

13 NOV 2019





Evaluation:

Data Mobilization

Data Use

Capacity Enhancement

Sustainability

Data publishers Biodiversity data records Geographic and taxonomic coverage Data users Data downloads **Publications** Self-assessment scores Attainments / replications of workshops **GBIF** Volunteer Mentors Co-funding New GBIF Participants



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• Sustainability

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New GBIF Participants

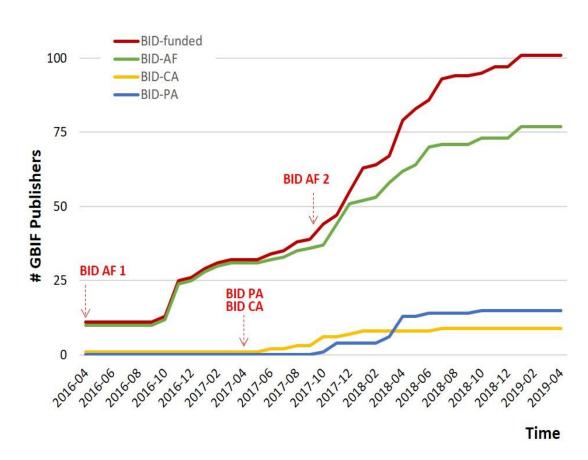


BID - DATA MOBILIZATION:

DATA PUBLISHERS



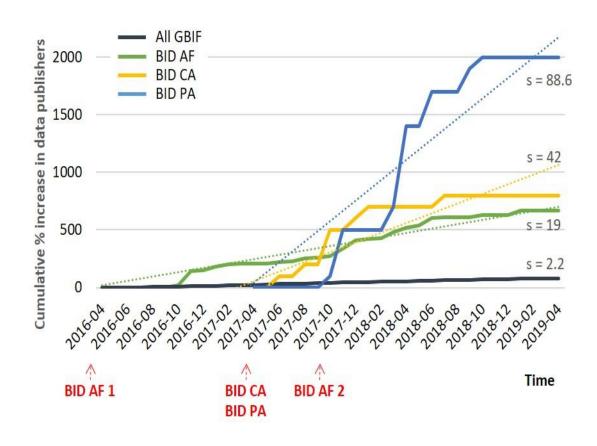
BID - DATA MOBILIZATION: publishers



- Significant growth in the number of data publishers after BID.
 - Most new publishers were located in **BID**funded countries.
 - Increase was apparent 5 to 12 months after the start of the programme.



BID - DATA MOBILIZATION: publishers



- Significant growth in the number of data publishers after BID.
 - Most new publishers were located in **BID**funded countries.

- Increase was apparent 5 to 12 months after the start of the programme.
- Increase was faster
 than global growth as
 a whole.



BID - DATA MOBILIZATION:

DATA SETS and DATA RECORDS



BID - DATA MOBILIZATION: data sets

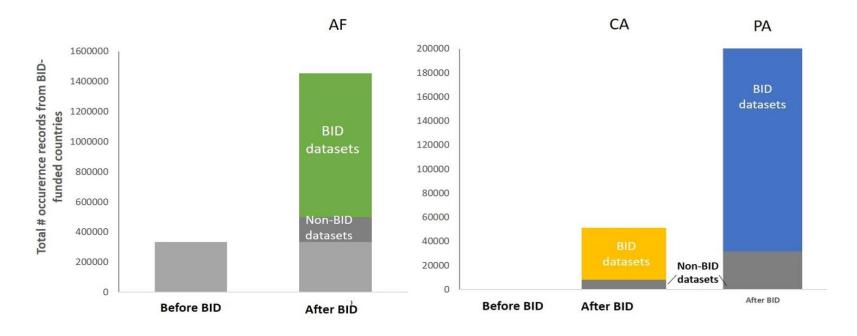


535* BID datasets:
 354 Africa
 81 Caribbean
 100 Pacific

• 74% "OCCURRENCE" (specimens and observations)



BID - DATA MOBILIZATION: data records



- > 1.2 million new occurrence records from BID.
- Caribbean and Pacific:

ALL records from BID-funded countries shared *after* BID. >78% in BID datasets.



BID - DATA MOBILIZATION: data records



• After BID more records were published in country.

E.g.: records with dwc:country=Mozambique: from Mozambique publishers:

- Before BID = 0%
- After BID = 40.2%
- For many BID-funded countries all records ever published by that country were published in BID datasets.

E.g.: Mozambique, Barbados, Vanuatu



BID - DATA MOBILIZATION: data records

Data Quality

	# datasets			
Origin of dataset	with	with	with	
	Geographic issues	Taxonomic issues	Temporal issues	
BID datasets	62.50%	88.80%	34.70%	
ACP+ countries	68.30%	88.60%	38.30%	
All GBIF	59.50%	77.20%	24.40%	

• BID data quality:

- Slightly lower than GBIF-mediated data as a whole.
- Slightly better than other, non-BID datasets in the target regions.
 → Capacity enhancement resulting from BID in the target regions

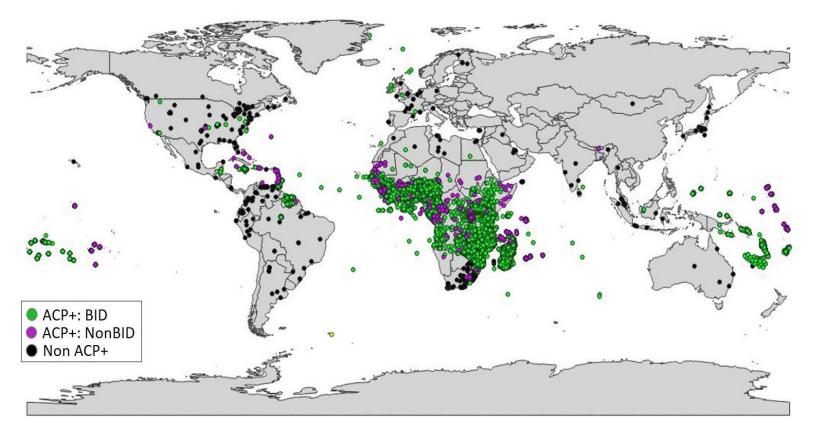


BID - DATA MOBILIZATION:

GEOGRAPHIC COVERAGE



BID - DATA MOBILIZATION: geographic coverage



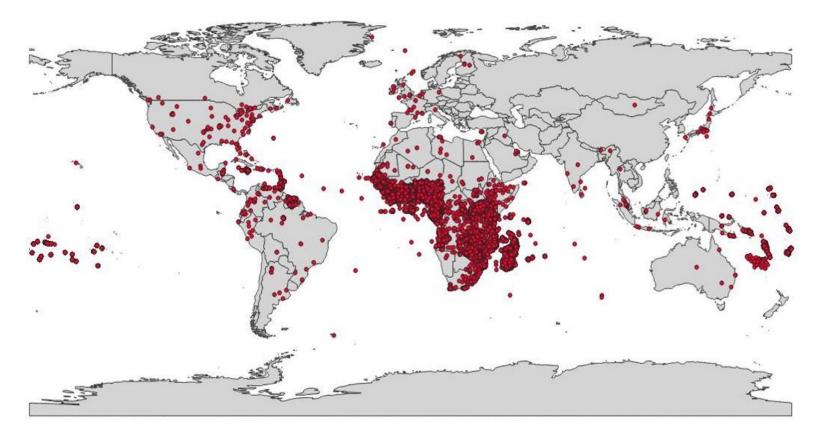
- 1,058,757 BID records (86.3%) had coordinates.
- 148,982 distinct locations.
- Most locations in BID-funded countries





Locations determined by combinations of latitude and longitude.

BID - DATA MOBILIZATION: geographic coverage

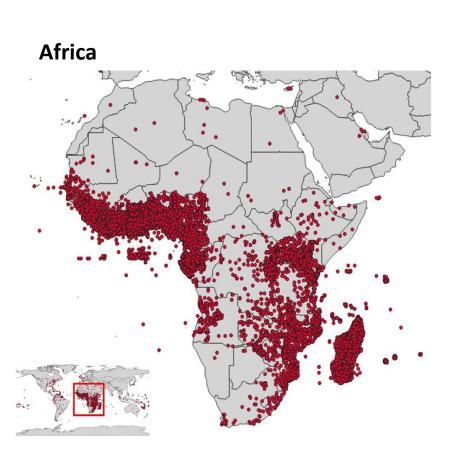


132,359 distinct locations

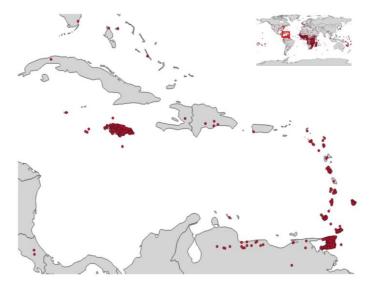
 (affecting 887,423 occurrence records)
 first included in GBIF after BID.



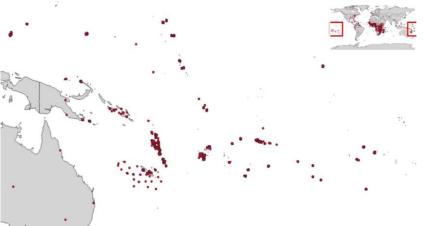
BID - DATA MOBILIZATION: geographic coverage







Pacific





Locations determined by combinations of latitude and longitude.

BID - DATA MOBILIZATION:

TAXONOMIC COVERAGE



BID - DATA MOBILIZATION: taxonomic coverage

E.g., mongoose *Ichneumia albicauda*, from Benin.





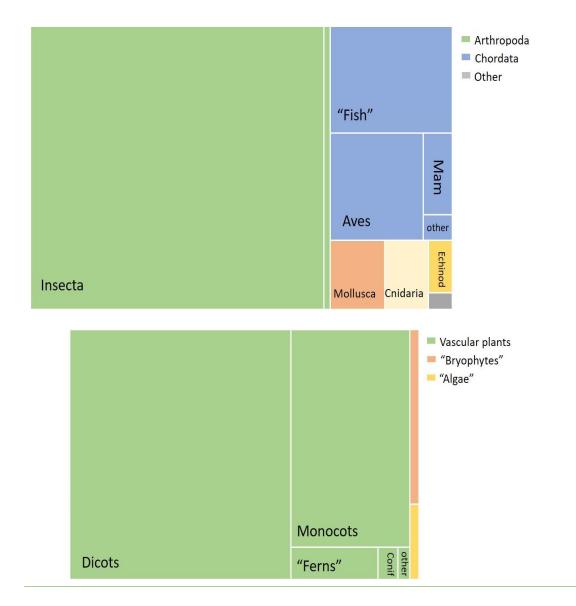
Location		
Continent	AFRICA	
Country or area	Benin	
Country code	BJ	
Decimal latitude	12.076329	
Decimal longitude	3.191864	
Geodetic datum	WGS84	
Locality	Parc National W	
State province	Karimama	

2,392 distinct scientific names for which occurrence records were reported to GBIF for the first time

> 81% Animalia (95.7% insects), 18.3% Plantae



BID - DATA MOBILIZATION: taxonomic coverage



- 80,680 distinct combinations of scientific name and country of occurrence.
- 21,688 (26.9%) names reported in GBIF in the given countries for the first time.

65.5% Animalia(69.5% insects),33.4% Plantae(63.4% vascular, dicot).



BID - DATA MOBILIZATION: taxonomic coverage

THREATENED SPECIES

IUCN threat category	Kingdom	# species	# species new to GBIF
CD	Animalia	94	2
CR	Plantae	44	0
EN	Animalia	153	2
EN	Plantae	188	8
	Animalia	300	4
VU	Plantae	410	6

> 1,100 species with IUCN threat categories of vulnerable (VU), endangered (EN), or critically endangered (CR)

22 new to GBIF



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New GBIF Participan

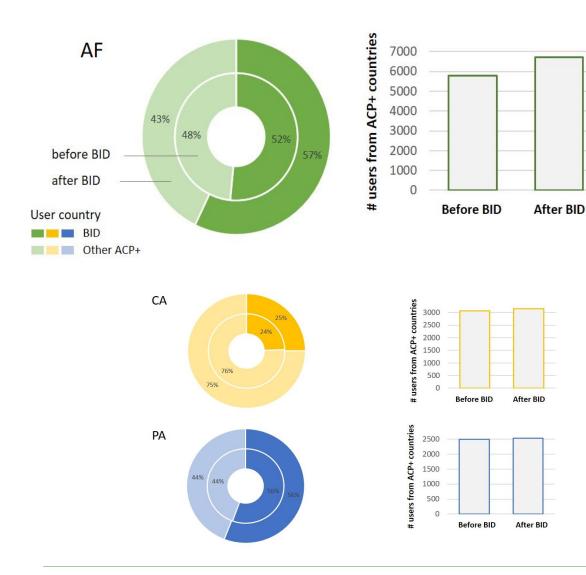




DATA USERS



BID - DATA USE: data users



- Small to moderate growth in number of data users after BID.
- Growth in number of users slower than global growth.





DATA DOWNLOADS



BID - DATA USE: data downloads

• DATA DOWNLOADED:

- Downloads of datasets from BID-funded countries increased.
- All downloads with country = Caribbean / Pacific BID-funded country occurred during the BID period, almost all from BID-funded datasets.
- Download growth rates in target regions much higher than in GBIF as a whole.
- Data from BID-funded datasets downloaded most by users from BIDfunded countries.
- USERS:
 - Downloads from users from target regions increased.
 - Users from BID-funded countries downloaded in-country data.



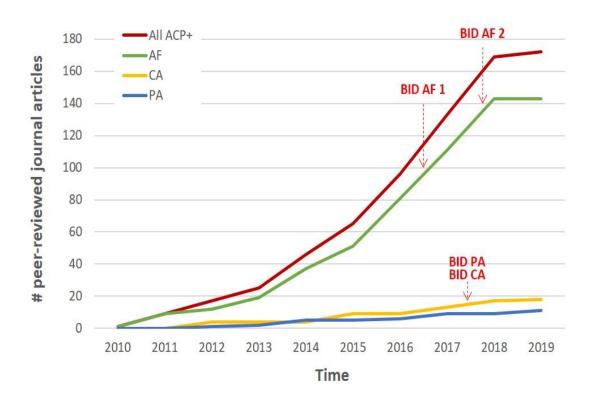


PUBLICATIONS



BID - DATA MOBILIZATION: publications

PEER-REVIEWED



 Most are journal articles.

•

- Half specifically use GBIF-mediated data.
 - Authors: 21.2% only BID 62.3% collaborations (e.g., US, UK, FR, DE).
- 841 citations using BID datasets

(most from Africa).



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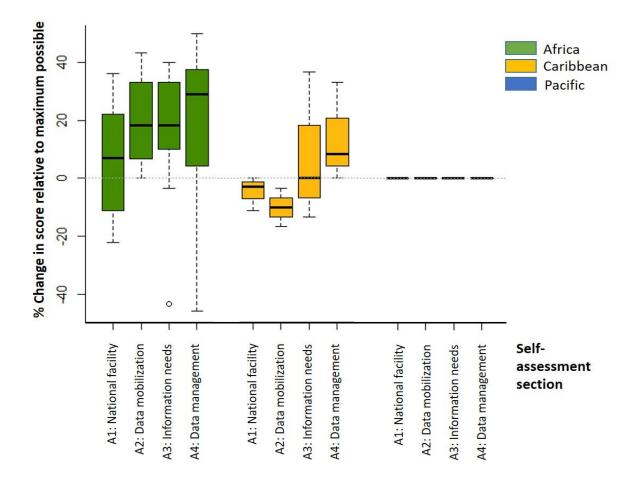


BID - CAPACITY ENHANCEMENT:

SELF-ASSESSMENTS



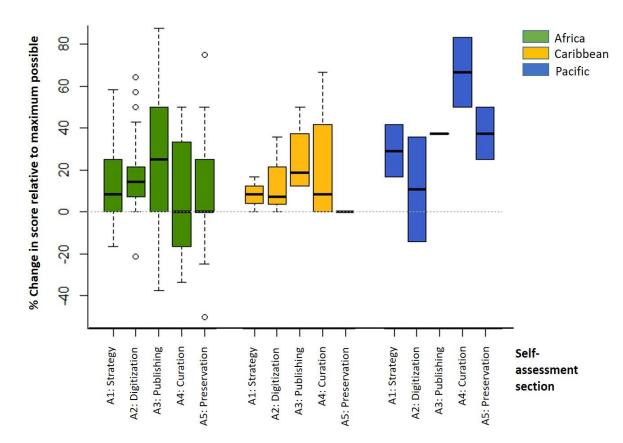
BID - CAPACITY ENHANCEMENT: self-assessments NATIONAL NETWORKS



National networks demonstrated an increase in capacity.



BID - CAPACITY ENHANCEMENT: self-assessments DATA HOLDERS



- National networks demonstrated an increase in capacity.
- Data holders
 demonstrated an
 increase in capacity.



BID - CAPACITY ENHANCEMENT:

WORKSHOPS



BID - CAPACITY ENHANCEMENT: workshops

GBIF-hosted WORKSHOPS

- **120 students** in onsite workshops.
- DATA MOBILIZATION:
 - 53% Data mobilization students got badges, region dependent.
 - 40% of BID participants did not attempt to get badges, although mandatory.
- DATA USE:
 - <25% participants attempted and were awarded Data Use badges.
- On-site workshops show higher level of accomplishment than online ones.



BID - CAPACITY ENHANCEMENT: workshops

REPLICATIONS of WORKSHOPS

- 66 workshop replications.
- 1497 students.
- Main subjects:
 - Data mobilization (~43%)
 - Data use (~32%)
 - Data quality (~21%)
- More workshops planned for 2019.

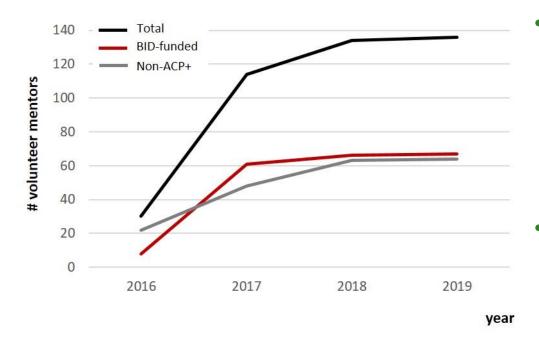


BID - CAPACITY ENHANCEMENT:

GBIF MENTORS



BID - CAPACITY ENHANCEMENT: GBIF mentors



- 67 Mentors from BID-funded countries (of total 136 in GBIF, 49.3%) 60 Africa 4 Caribbean 3 Pacific
- Expertise:

support disciplines data management data capture data analysis But all areas represented



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BID - SUSTAINABILITY:

CO-FUNDING



BID - SUSTAINABILITY: co-funding

- Some BID projects successful in acquiring co-funding, varying amounts.
- The majority of the co-funding comes from sources outside the ACP regions.
- Data networks strengthening through collaborations with other members of the GBIF community.
- A new regionally-focused data portal in the Caribbean.



BID - SUSTAINABILITY:

NEW GBIF PARTICIPANTS



BID - SUSTAINABILITY: co-funding

- Africa: 10 new country nodes since 2015.
- Caribbean: regional node in progress.
- Pacific: 1 new voting participant and 1 new associate participant, functionally a regional node.











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