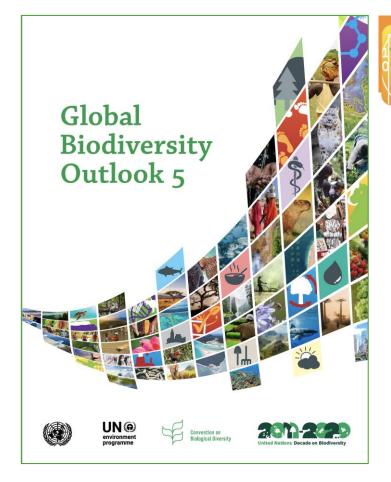


Findings of GBO5 and advice on capacity development in taxonomy

Tim Hirsch | Deputy Director



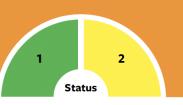
### 5<sup>TH</sup> GLOBAL BIODIVERSITY OUTLOOK





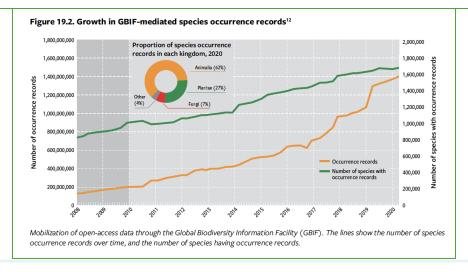
#### **TARGET ELEMENTS**

- 1. Biodiversity knowledge, science and technologies improved
- 2. Biodiversity knowledge, science and technologies shared



#### Summary of target achievement

Significant progress has been made since 2010 in the generation, sharing and assessment of knowledge and data on biodiversity, with big-data aggregation, advances in modelling and artificial intelligence opening up new opportunities for improved understanding of the biosphere. However, major imbalances remain in the location and taxonomic focus of studies and monitoring. Information gaps remain in the consequences of biodiversity loss for people, and the application of biodiversity knowledge in decision making is limited. **The target has been partially achieved** (medium confidence).<sup>1</sup>





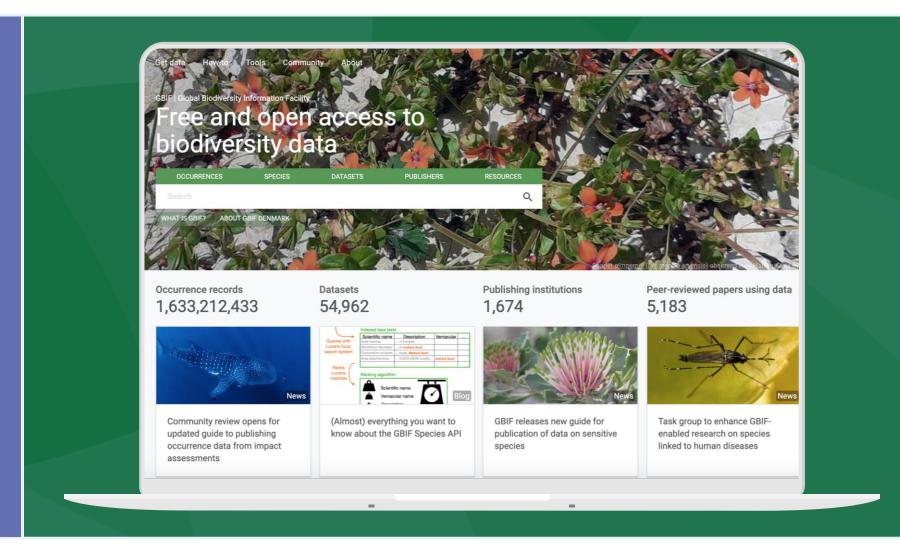
#### WHAT IS GBIF?

Intergovernmental network and research infrastructure

Provides anyone, anywhere, free and open access to data about all types of life on Earth

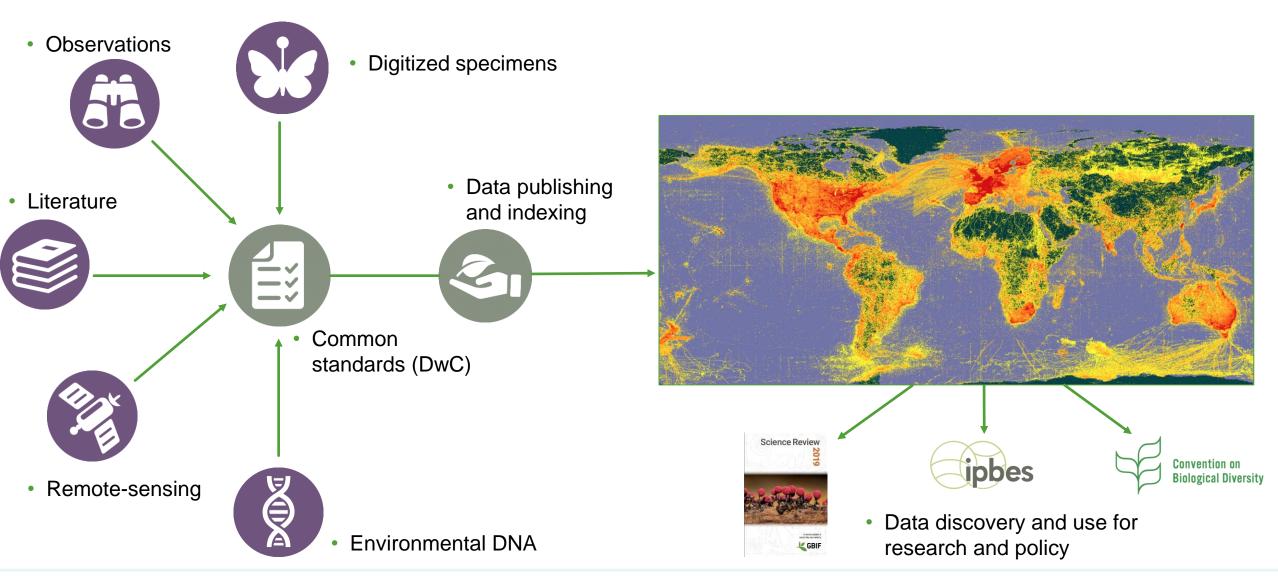
Voluntary collaboration through Memorandum of Understanding

Participant nodes, Secretariat in Copenhagen, DK





# A WINDOW ON EVIDENCE ABOUT WHERE SPECIES HAVE LIVED, AND WHEN





#### DATA SOURCE FOR BIODIVERSITY INDICATORS









- Trend in invasive alien species introductions (through Global Register of Introduced and Invasive Species)
- Species Protection Index
- Protected AreaRepresentativenessIndex
- Comprehensiveness of conservation of socioeconomically/cu Iturally valuable species
- Agrobiodiversity Index
- Crop Wild Relative Index

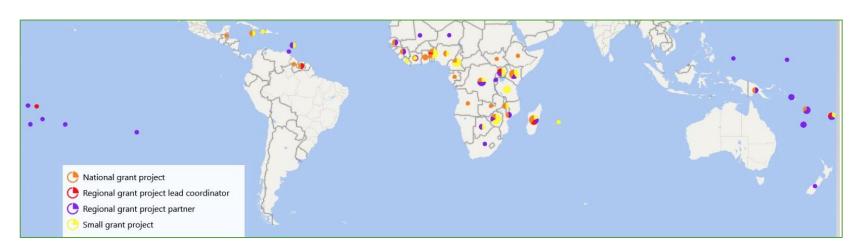
- Growth in species occurrence records accessible through GBIF
- Species Status
  Information Index

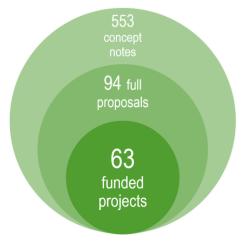


# BIODIVERSITY INFORMATION FOR DEVELOPMENT (BID) PROGRAMME

**Overall objective**: Improved management of natural capital for human well-being; through increased application of biodiversity information as evidence for decision making

- Initial €3,9 million grant under the EuropeAid Biodiversity for Life (B4Life) flagship umbrella programme, €1m in-kind contribution from GBIF
- First phase 2015-2019: Funded 63 projects in sub-Saharan Africa, Caribbean and Pacific (ACP) countries
- · Regional capacity enhancement workshops trained project teams in biodiversity data mobilization and use
- Extension agreed to 2023, €1.6m budget top-up
- 3 calls for proposals in 2020 Africa call attracted 215 concept notes!





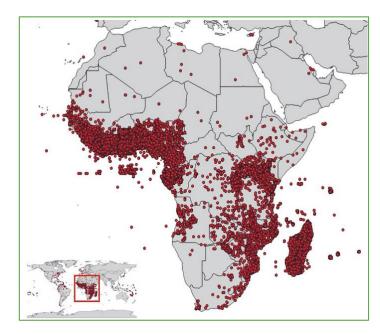






#### BID IN SUB-SAHARAN AFRICA: FIRST-PHASE OUTCOMES

|     | Mobilizing bat occurrence data in Zambia  | National grant |
|-----|---|----------------|
|     | Getting the plants to all: dissemination of information from the collection of The Mauritius Herbarium                                      | Small grant    |
| No. | Biodiversity Information for Development and Environmental<br>Resilience in Southwestern Ethiopia (BIDERSE)                                 | National grant |
|     | Freshwater biodiversity of the Eastern Highlands of Zimbabwe:<br>Assessing conservation priorities using primary species occurrence<br>data | Small grant    |
|     | Digitizing the Matobo Hills Arachnid collections at the Natural<br>History Museum of Zimbabwe   | Small grant    |
|     | Mobilizing specimen data on bats and rodents from Zimbabwe  | Small grant    |
|     | Strengthening Malawi's Biodiversity Information Facility  | National grant |





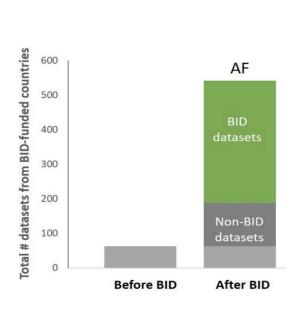
- 50 funded projects covering 27 African countries
- 354 datasets published in GBIF.org, 67 new data publishers
- 10 new GBIF participant countries in Africa
- Growing community of practice in biodiversity informatics
- Mentoring and training involving global GBIF community

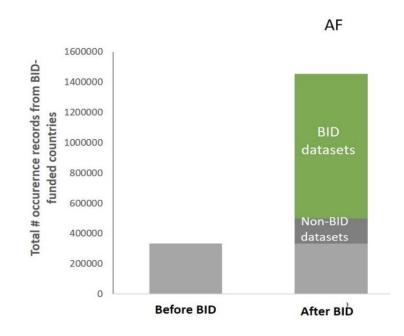






#### BID IN SUB-SAHARAN AFRICA: FIRST-PHASE OUTCOMES





- 321% increase in species occurrence records from target countries
- More than 80,000 different species, of which 27% were first records in GBIF for a country
- Over 2,000 distinct scientific names reported for the first time in GBIF
- Data on 1,100 threatened species, of which 22 were first records in GBIF







# BIODIVERSITY INFORMATION FUND FOR ASIA (BIFA)

Call for proposals promoting the mobilization and use of biodiversity data in Asia

Biodiversity Information Fund for Asia (BIFA) programme invites new round of proposals from the region



**32** Concept Notes from

13 countries in Asia

Requesting a total of €340,214

**13** proposals invited to submit a full proposals



Cleaning and digitizing plant specimen records from Helongijang Province

Digitization of mycological collection in Nepal

Enriching the Bhutan Biodiversity Portal through digitization and mobilization of specimen collections

Digitizing and Databasing of bee specimens in Thailand

Supporting conservation through mobilizing ecological data from Kalimantan, Indonesia

## 9 projects selected (total funding: € 117,829):

Mobilizing invertebrate monitoring data in South-East Asia

Using citizen science to study whales and dolphins in Vietnamese waters

Digitization of specimens at the University of the Philippines Los Baños Museum of Natural History

Mobilizing Indonesian butterfly collections at the Museum Zoologi Bogor (II)





## TAXONOMIC DATA SUPPORTING GBO5 TRANSITIONS

THE SUSTAINABLE AGRICULTURE TRANSITION



THE SUSTAINABLE FRESHWATER TRANSITION



THE SUSTAINABLE CITIES AND INFRASTRUCTURE FRANSITION



THE BIODIVERSITY-INCLUSIVE ONE HEALTH TRANSITION



- Soil biodiversity data
- Pollinator species data
- In-farm biodiversity data

- Freshwater species data
- Invasive alien species data

- Urban biodiversity data
- Citizen science initiatives
- Data from impact assessments

- Data on disease vectors, hosts, reservoirs
- Medicinal plants data



# THANK YOU

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