Positioning GBIF for the the post-2020 Global Biodiversity Framework
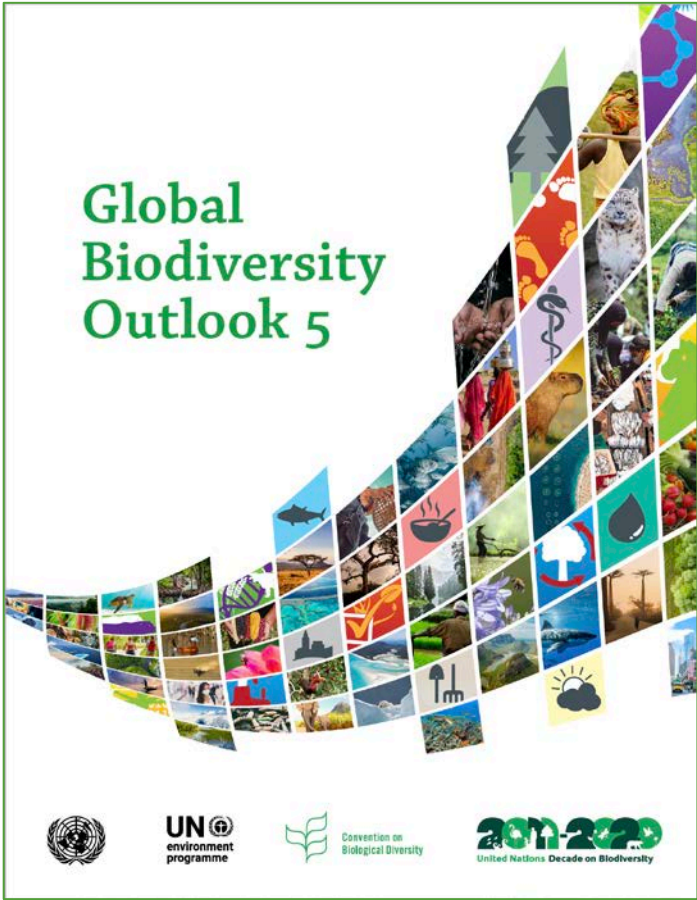
Tim Hirsch | Deputy Director

GBIF | Global Biodiversity Information Facility
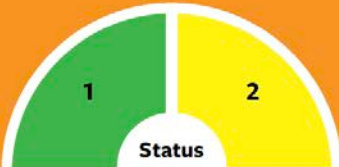
5TH GLOBAL BIODIVERSITY OUTLOOK

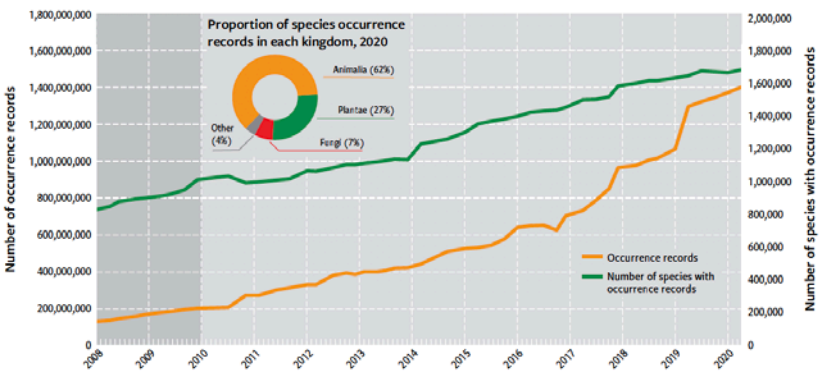## Global Biodiversity Outlook 5

SHARING INFORMATION AND KNOWLEDGE

TARGET ELEMENTS
1. Biodiversity knowledge, science and technologies improved
2. Biodiversity knowledge, science and technologies shared

Status 1 2

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*).[1]

Figure 19.2. Growth in GBIF-mediated species occurrence records[12]

Proportion of species occurrence records in each kingdom, 2020
- Animalia (62%)
- Plantae (27%)
- Fungi (7%)
- Other (4%)

Occurrence records
Number of species with occurrence records

Mobilization of open-access data through the Global Biodiversity Information Facility (GBIF). The lines show the number of species occurrence records over time, and the number of species having occurrence records.

GBIF SUPPORTING BIODIVERSITY INDICATORS

- Trend in invasive alien species introductions (through Global Register of Introduced and Invasive Species)

- Species Protection Index
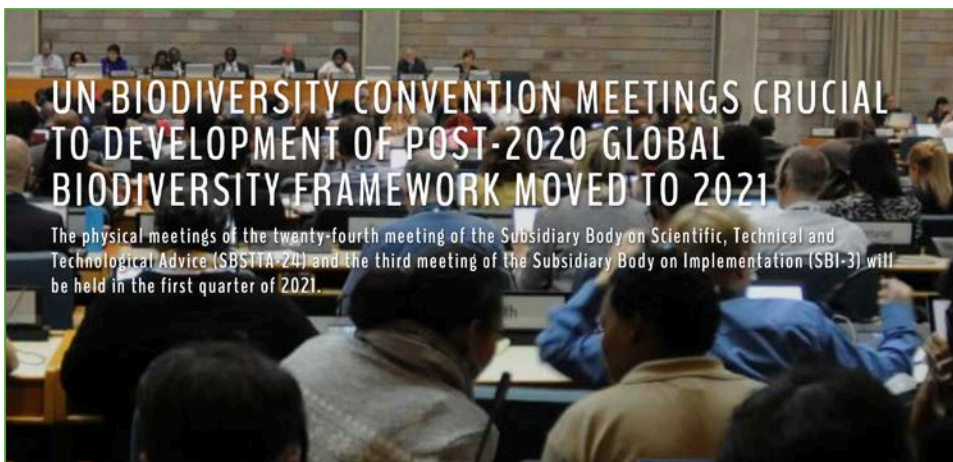- Protected Area Representativeness Index

- Comprehensiveness of conservation of socioeconomically/culturally valuable species
- Agrobiodiversity Index
- Crop Wild Relative Index

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

DELAYED TIMETABLE FOR NEW GLOBAL BIODIVERSITY FRAMEWORK

- Subsidiary body meetings (SBSTTA 24, SBI3) - Canada | March 2021

- Final meeting of Open-ended Working Group - Cali, Colombia | ? 2021

- COP 15 (UN Biodiversity Conference) - Kunming, China | ? 2021

OPPORTUNITIES FOR GBIF

- Strong role for data and monitoring within new targets (draft new Target 19)

- Implementation support mechanisms (Knowledge generation, management and sharing; capacity development)

- Critical role of primary data for monitoring and reporting

ANALYSING DATA NEEDS FOR GLOBAL BIODIVERSITY FRAMEWORK

NEWS | 25 FEBRUARY 2020

Call for proposals: Analysis of biodiversity data needs in the post-2020 framework

Research contractor to carry out a nine-month fixed-term assignment analysing primary biodiversity data needs for the post-2020 global biodiversity framework
DEADLINE 30 MARCH 2020

Pallas' sailer (*Neptis sappho*), observed in Kunming, China, 23 October 2019. Photo by benanna via iNaturalist Research-grade Observations, licensed under CC BY-NC 4.0.

The GBIF Secretariat seeks applications to carry out an analysis of the anticipated contributions of primary biodiversity data to the post-2020 Global Biodiversity Framework.

- Competitive call for analysis of post-2020 data needs

- Entries evaluated by panel including external experts

- Contract awarded to VertNet consortium (Rob Guralnick, David Bloom, Paula Zermoglio)

- Work timeline adjusted due to changes in CBD timetable

- Project under way from September 2020, publication 2nd quarter 2021

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PROJECT PLAN

1. Historic inputs of primary biodiversity data (PBD) into CBD processes

2. Projects and products that use PBD to support the post-2020 Framework

3. PBD sources used in EBVs, Indicators, and other products

4. Dependencies on PBD within the post-2020 Framework

5. Conclusions and next steps
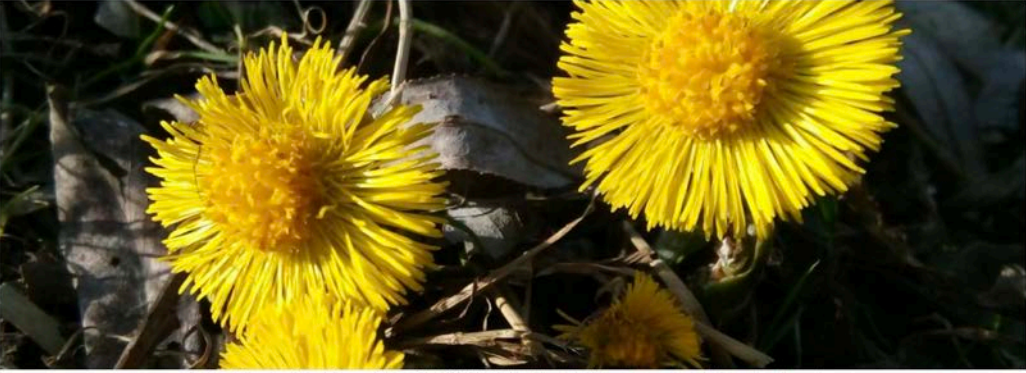
Research → Analysis → Report

HARMONIZING NATIONAL PLATFORMS

PROJECT | IN PROGRESS

Using the CBD Clearing-House Mechanism to strengthen biodiversity data acquisition and data sharing

📅 1 Jun 2019 - 31 Dec 2020   € 25,000

ABOUT   NEWS & EVENTS

Colt's-foot (*Tussilago farfara*), Perwez, Belgium. Photo 2019 by Mathieu Gilbert, via iNaturalist research-grade observations, licensed under CC BY-NC 4.0.

During the last two years, the Parties to the Convention on Biological Diversity (CBD) and it Secretariat has been developing a new Content Management System for the Clearing House Mechanism (CHM) of the Convention. The tool, named "Bioland", is interoperable with others biodiversity databases.

The principle goals of this project is to reinforce links between CHM and GBIF communities, and to develop concrete synergies, for example a specific GBIF-compatible plugin for Bioland.

National CHM teams in this project include: DR Congo, Cameroon, Mauritania, Madagascar, Bénin, Togo, Guinea, Belgium and France.

Project Progress

As a part of the first phase of the project, the Bioland tool became active and available for partners to use. A workshop was held in the start of October 2019 to give the partners involved in the project access to Bioland as well as full proficiency. The workshop also included training in the GBIF process, data acquisition and methods, so in the end of the workshop partners were ready to start the implementation of the Bioland tool in their national CHM.

- Project funded under Capacity Enhancement Support Programme (CESP)

- Developing plugin for incorporating GBIF-published data in national Clearing-House Mechanism (CHM) sites via Bioland tool

- Encouraging data-sharing from national CBD platforms via GBIF Integrated Publishing Toolkit (IPT)

- Starting with 8 francophone African countries, aim for wider adoption

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RELEVANT 2021 WORK PROGRAMME ITEMS

Activity 1e (Expand national participation):

- Actively seek new Voting Participant countries, and return of former Voting Participants, to broaden the funding base ahead of the 2023-2027 financial period; in particular highlighting to governments the value of GBIF in meeting data and capacity needs for national implementation of the post-2020 global biodiversity framework under the Convention on Biological Diversty (CBD)

Activity 5c (Support biodiversity assessment):

- Publish outcomes of the analysis of primary data needs for the post-2020 Global Biodiversity Framework, promote at relevant fora including the COP15 meeting of the CBD in Kunming, China

GBIF

THANK YOU

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