

Improving National Biodiversity Data Accessibility in Trinidad & Tobago – BID-2020-039-NAC

Amy Deacon

The University of the West Indies

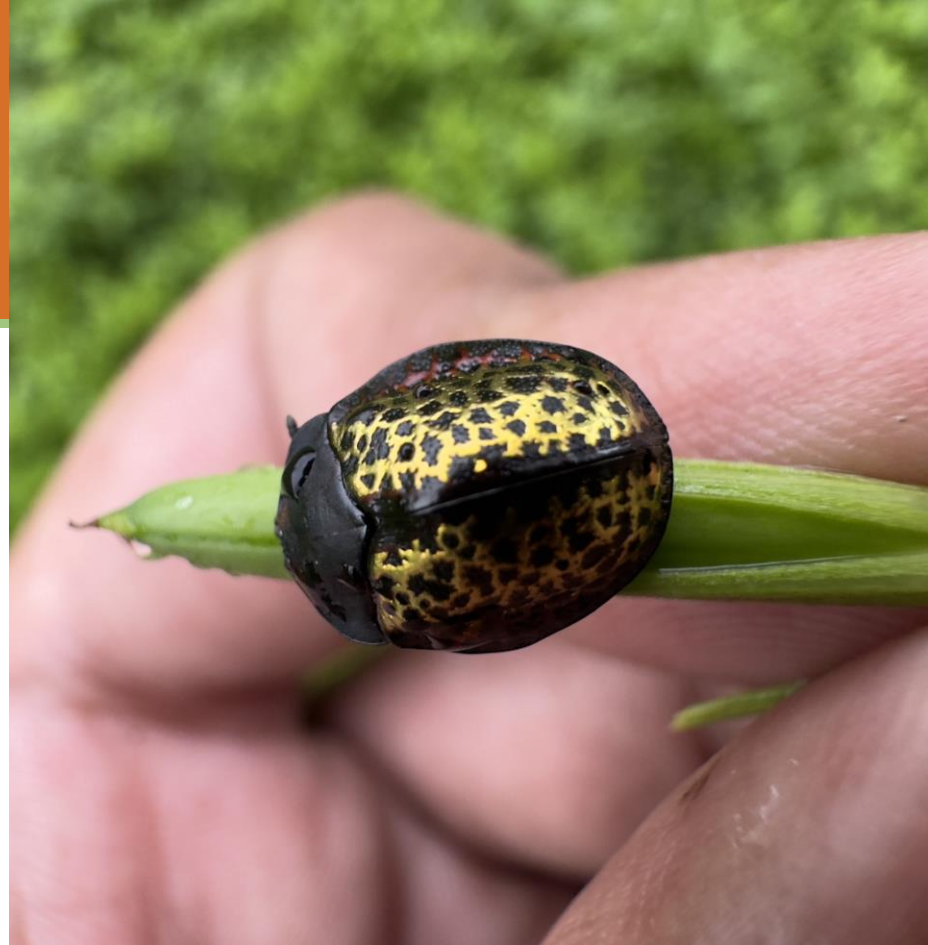


*This programme is funded
by the European Union*



Project objectives

- 1) To fill data gaps for T&T by mobilising national natural history collections from 3 data-providing partners
- 2) To increase awareness and use of biodiversity data nationally
- 3) To train potential future data providers on how to prepare & publish datasets



Main results



36,675
occurrence
records
published as 11
distinct datasets
from 3 partners

A team of
database
assistants trained
in data
mobilisation
protocols

Two well-attended
workshops
sensitised
stakeholders to
GBIF data
mobilisation & use

Hundreds of social
media posts
showcased
specimens from
national
collections

Thank you

Thanks to UWIZM team members: Jennalee Ramnarine, Ariel Dalrymple, Saraswatie Sankar, Jacob Whiby.

Thanks to data-providing partners: Ms Lorraine Johnson – National Museum & Art Gallery, Dr J. Francisco Morales – National Herbarium, Prof Judith Gobin - UWI

Thanks to GBIF: Leonardo Buitrago, GBIF/BID

Thanks to other partners & workshop attendees, especially the Ministry of Planning & Development and the Institute of Marine Affairs.



The Global Biodiversity Information Facility

Melanie Raymond

Maheva Bagard Laursen

Sanja Novakovikj

Community & Capacity Team, GBIF Secretariat



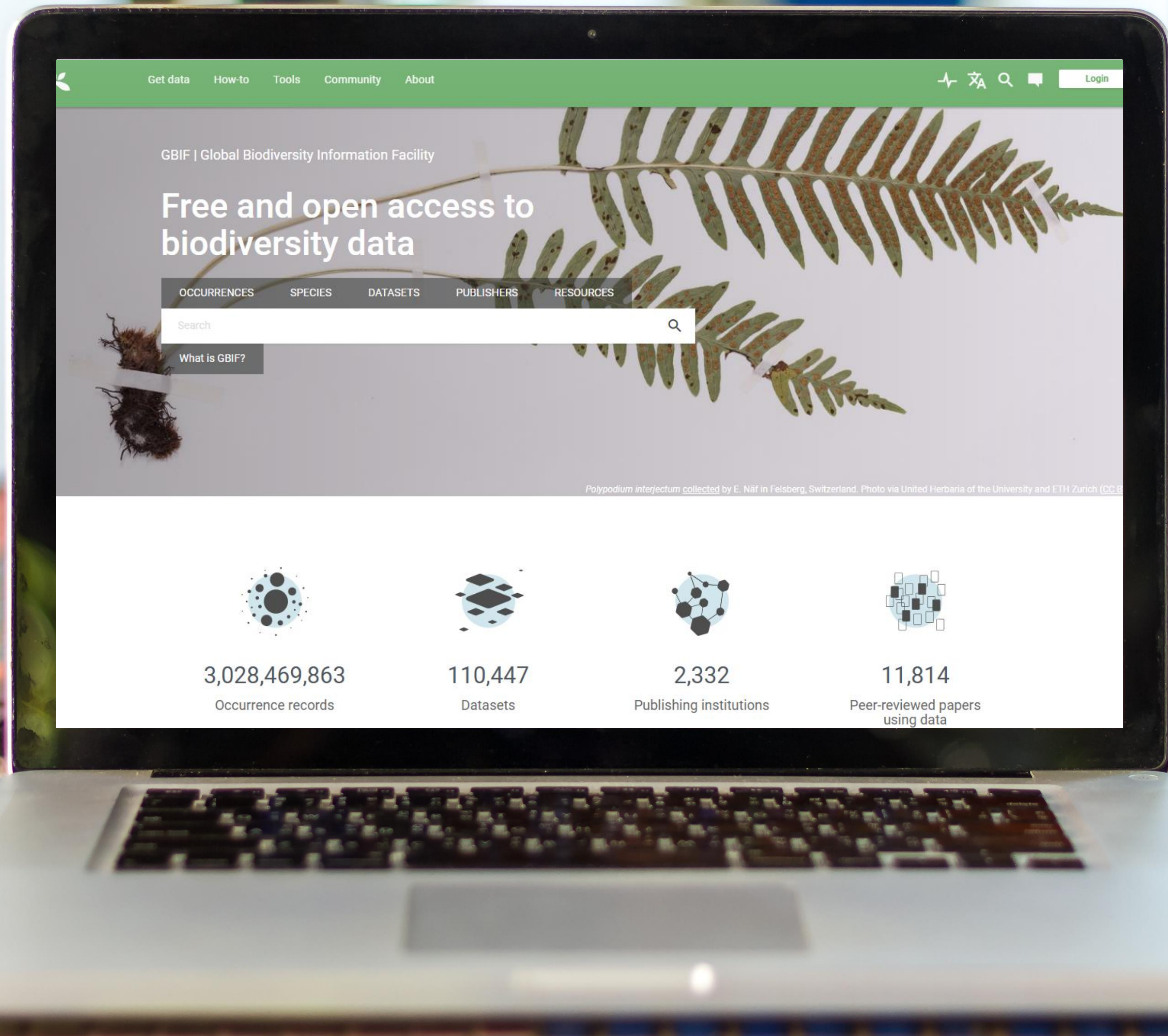
What is GBIF?

Intergovernmental network and data 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



GBIF is a Global Core Biodata Resource

<https://www.gbif.org/> <https://www.gbif.org/news/6PHdgoyIF6Rml7u4VOouuD/gbif-named-a-global-core-biodata-resource>



Vision

A world in which the best possible biodiversity data underpins research, policy and decisions.

<https://www.gbif.org/strategic-plan>



Mission

To mobilize the data, skills and technologies needed to make comprehensive biodiversity information freely available for science and decisions addressing biodiversity loss and sustainable development



Datasets ●
109,909

● Hosted portals
24

● Peer-review papers
using data
11,603

● Average records
downloaded per month (2024)
201.5 billion

● Species
occurrence records
3,024,927,234

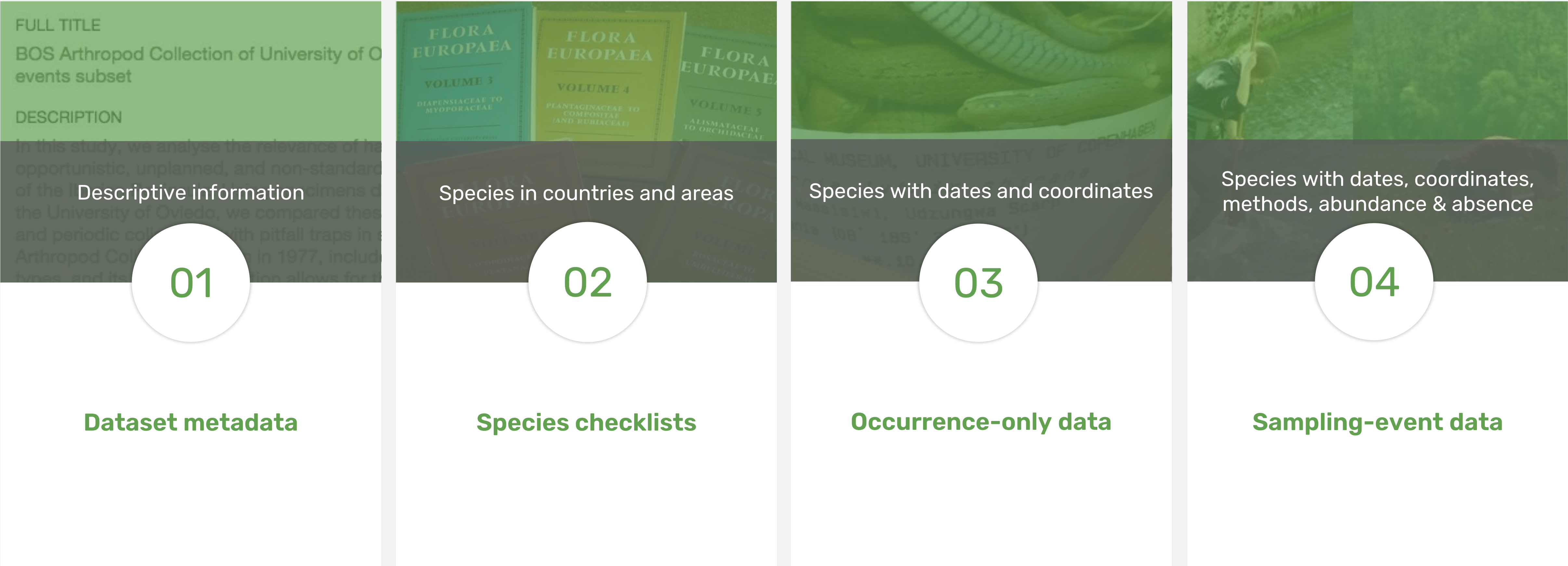
Publishers ●
2,371

Country
Participants ●
64

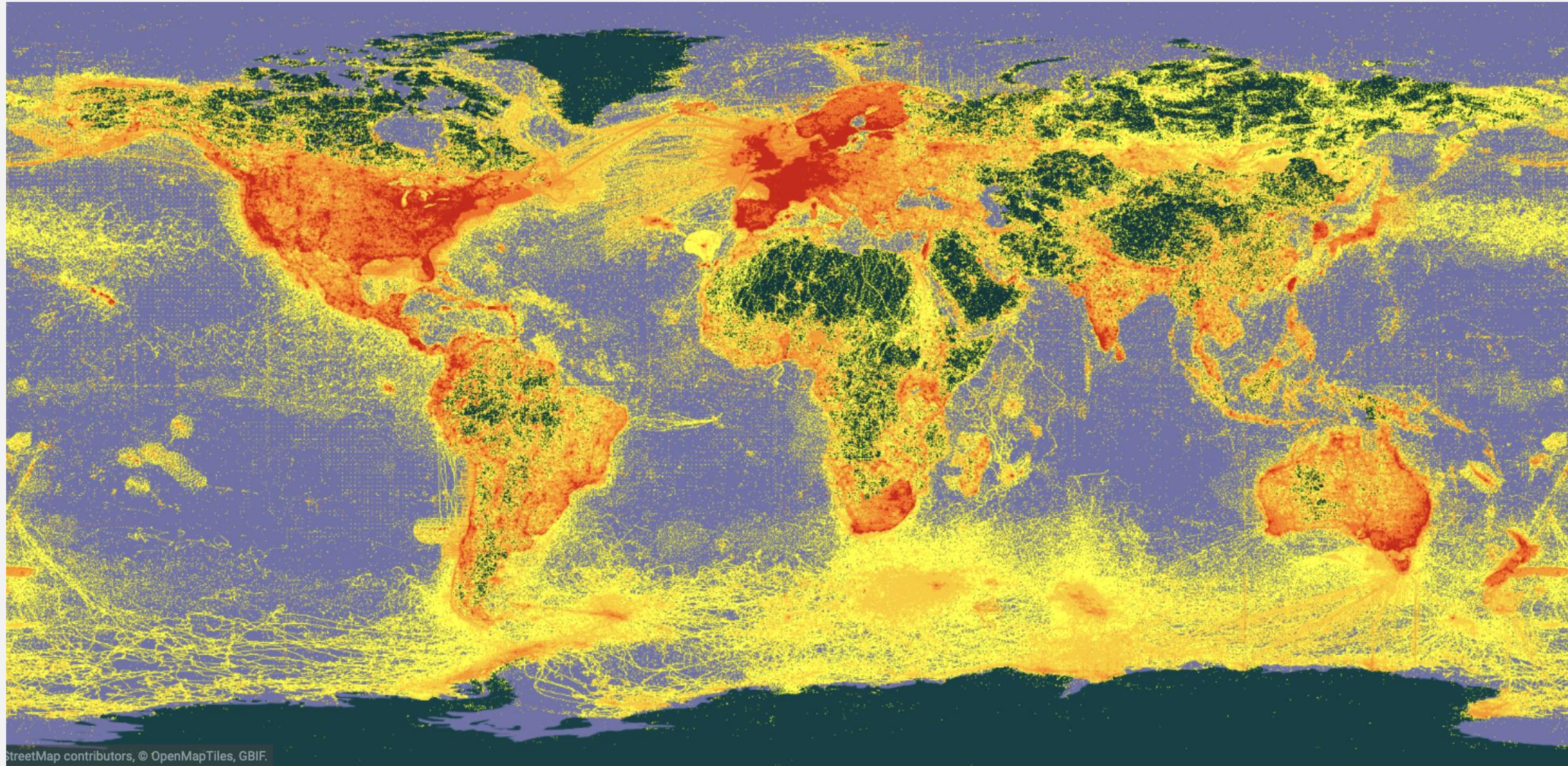
Organizational
Participants ●
43



Data richness levels supported by GBIF



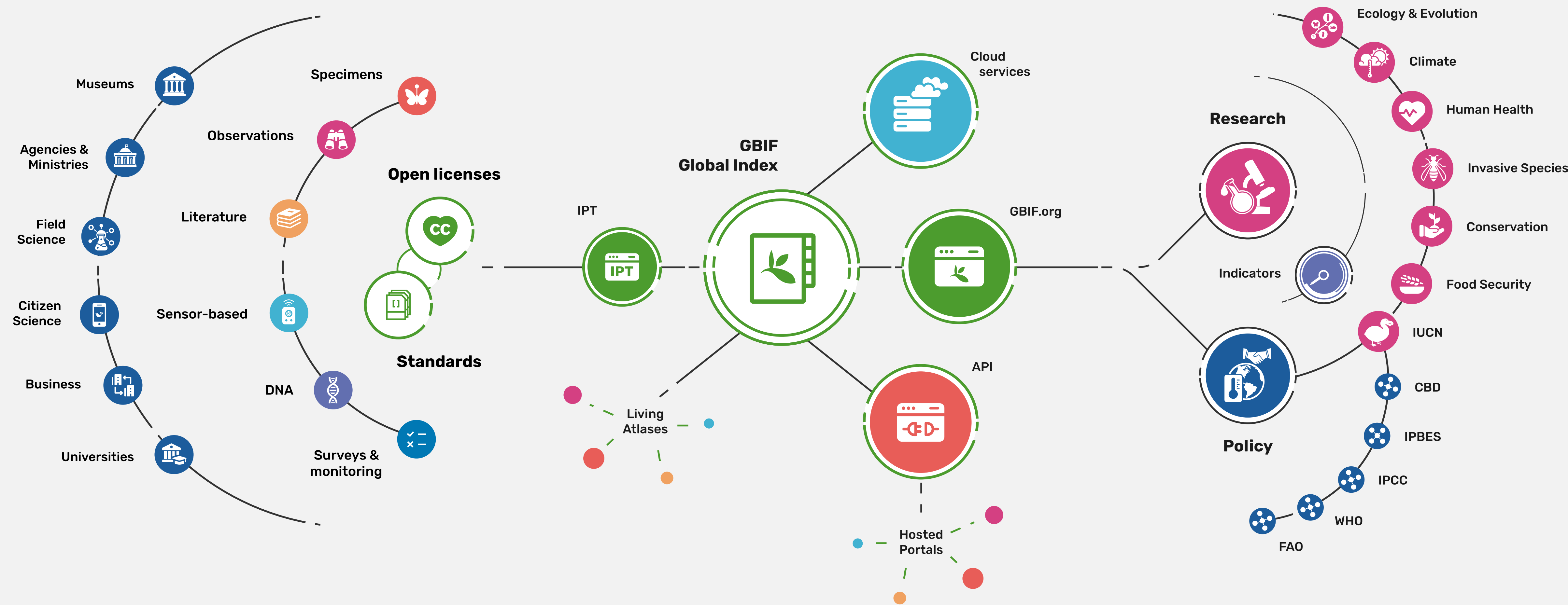
Distribution of data on species occurrences published through GBIF



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



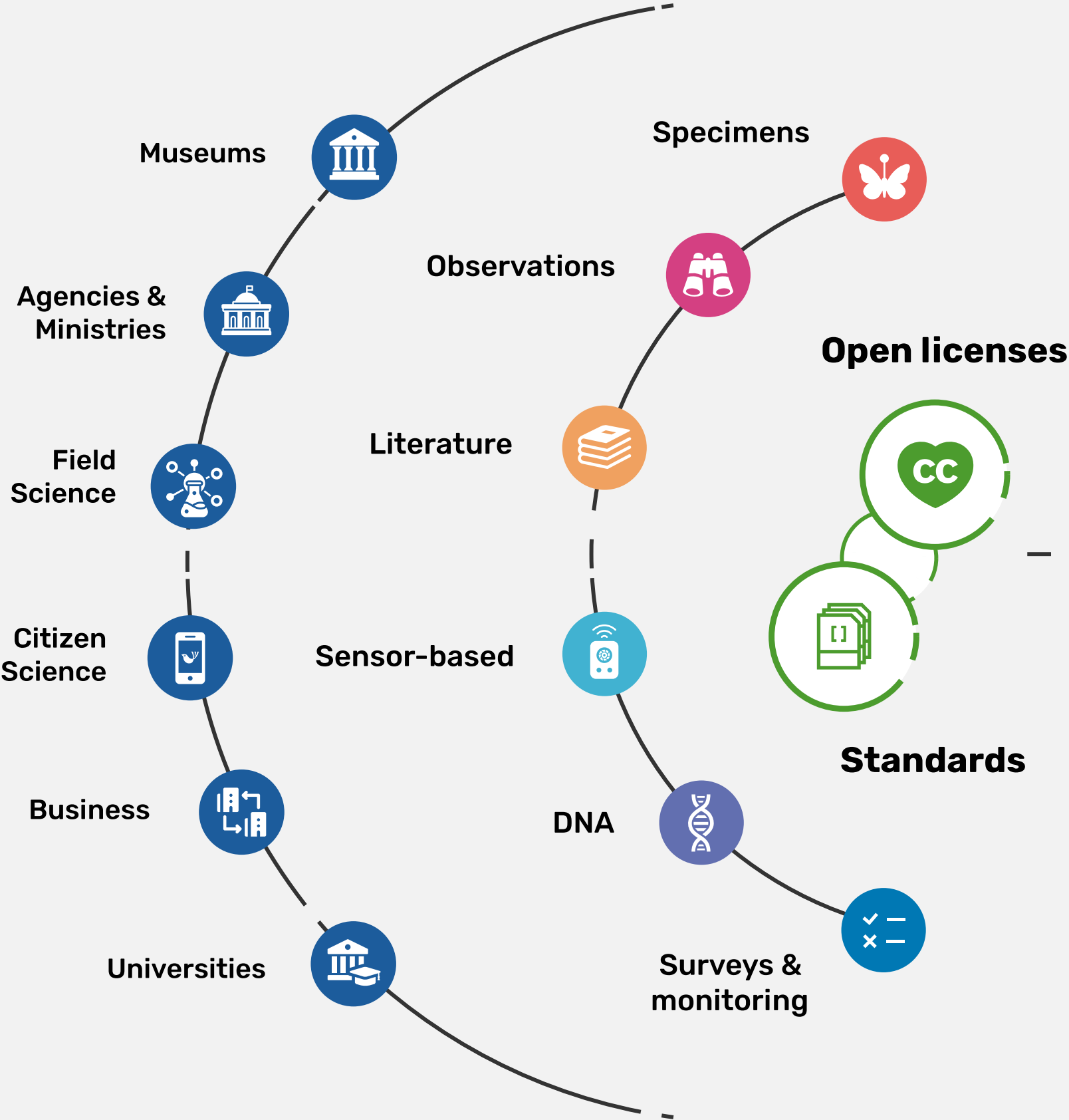
Providing biodiversity evidence for research and policy



Sources of biodiversity evidence

Create

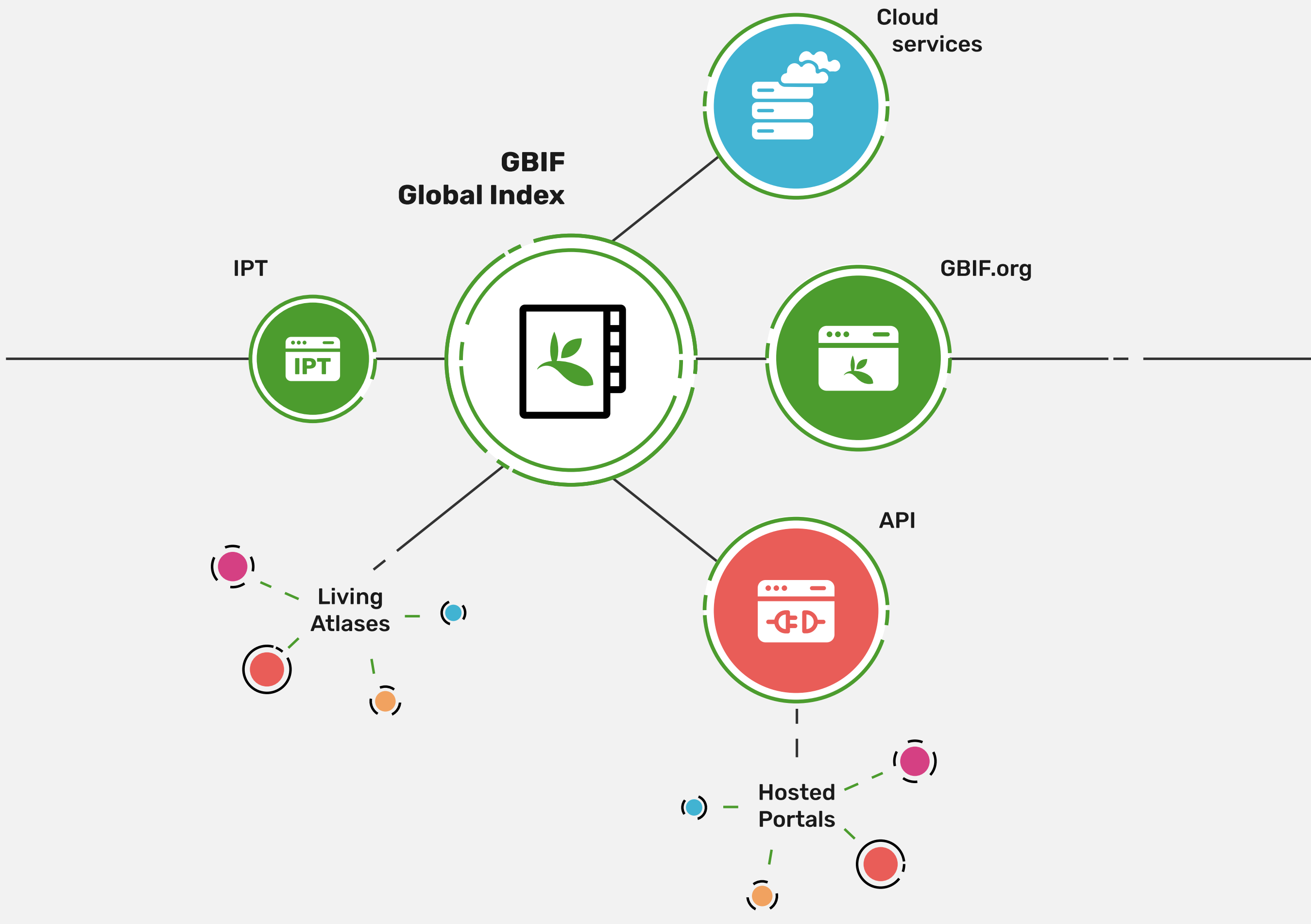
Combine sources
of evidence



Access to biodiversity evidence

Share

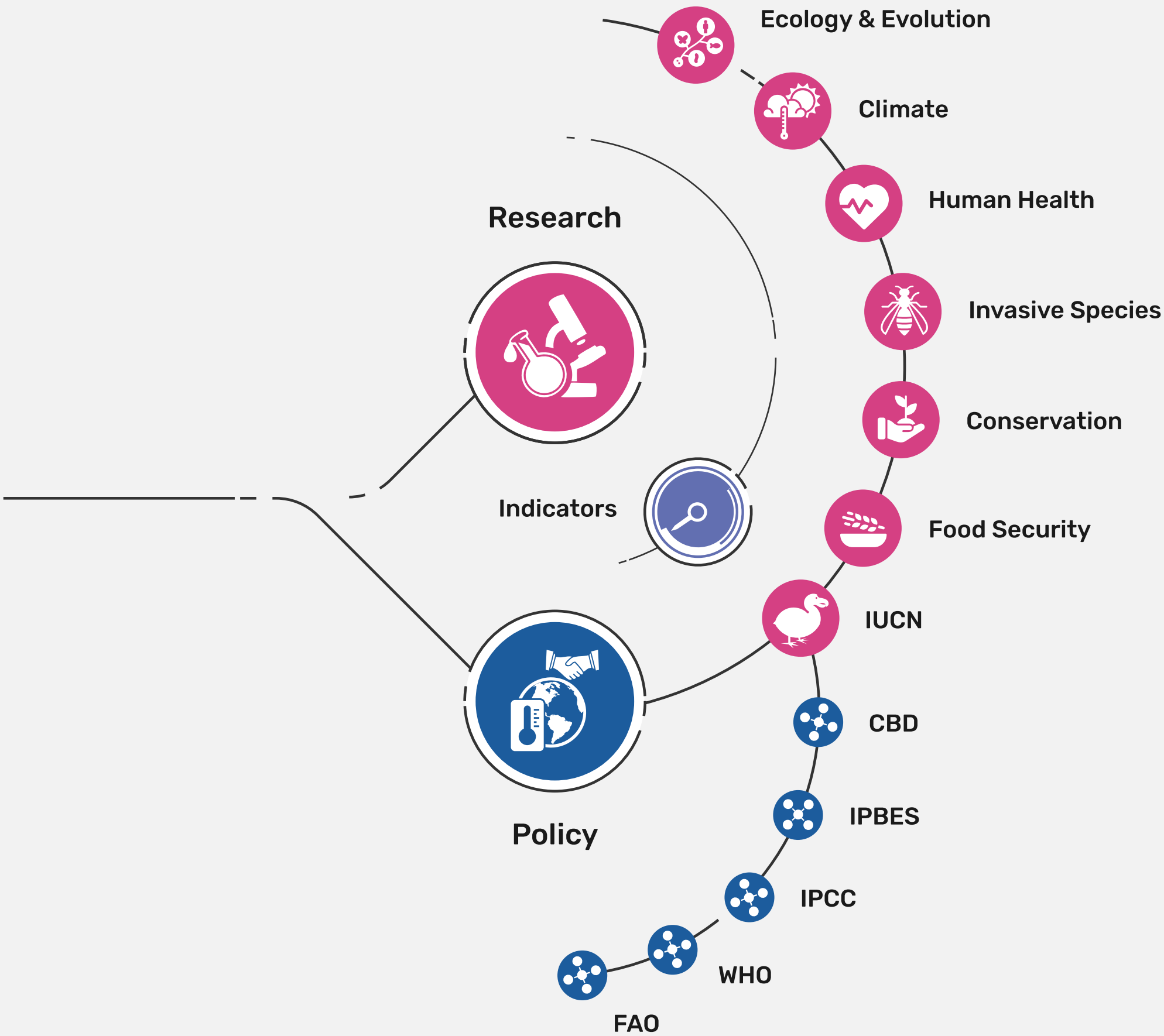
FAIR and open access



Uses of biodiversity evidence

Transform

Apply and use data



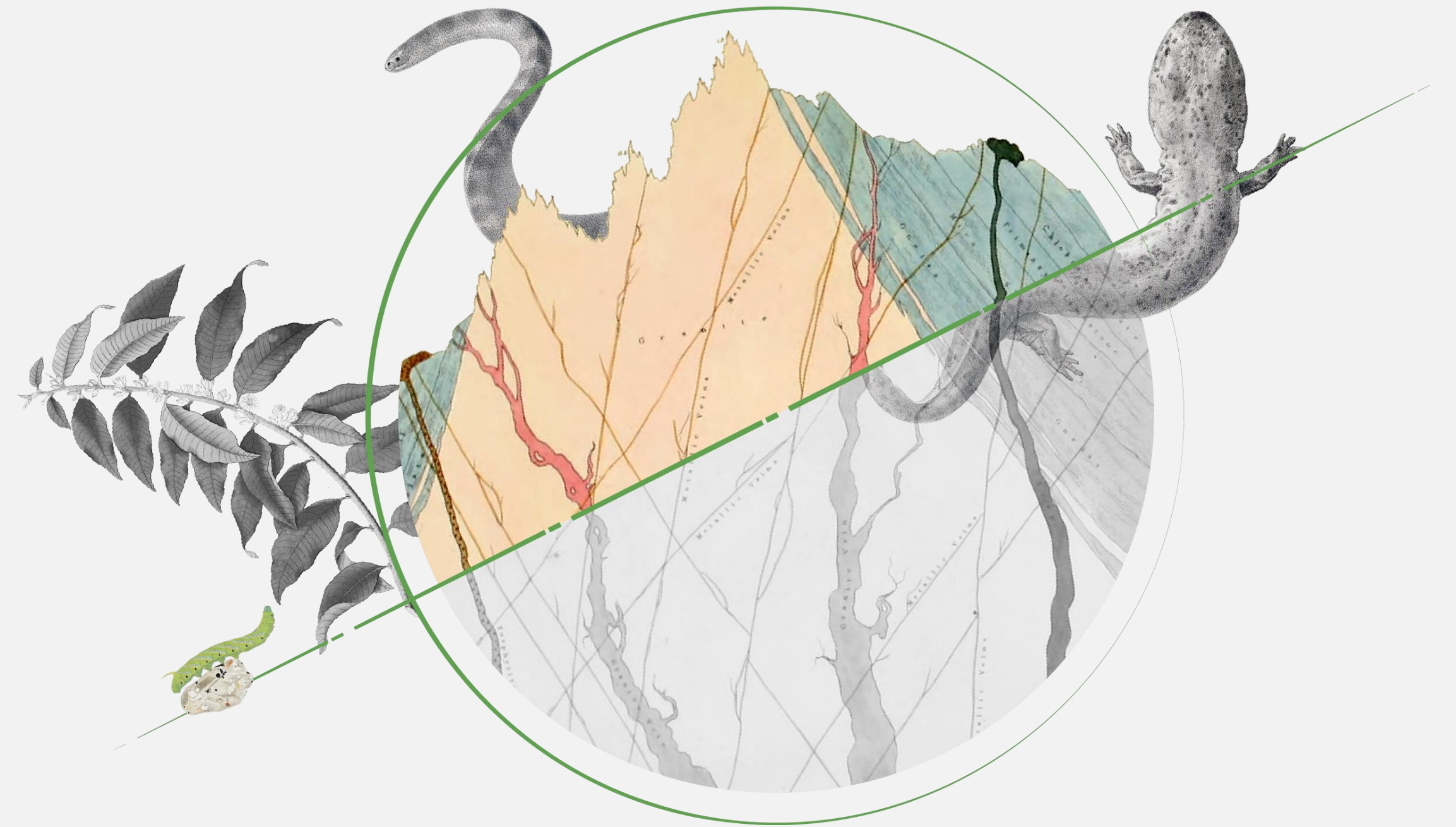
Research and policy

GBIF empowers its community of users to unlock new insights, enabling ground-breaking **scientific studies** and facilitating evidence-based **policy decision-making**.



GBIF expands the scope of what is possible

Almost **half** of GBIF users would have found it **impossible to achieve** the same outcome in the absence of GBIF.



Primary data as foundation for implementing and monitoring GBF



GBIF relevance (illustrative)	
Data to identify key biodiversity areas	
Data to monitor restoration	
Data to locate, monitor protected areas	
Data for species conservation	
Data on invasive species occurrence	
Data to model climate change impacts	
Platform for sharing EIA data	
Capacity programmes for data mobilization and use	
Making data available for implementation	



BID - the Biodiversity Information for Development programme



+3.9 million

Species occurrence records

Data used in

1,418

Peer-reviewed publications

165

Publishing institutions



Capacity enhancement -
supported by the BID
regional support team



Thank you!

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GBIF volunteers



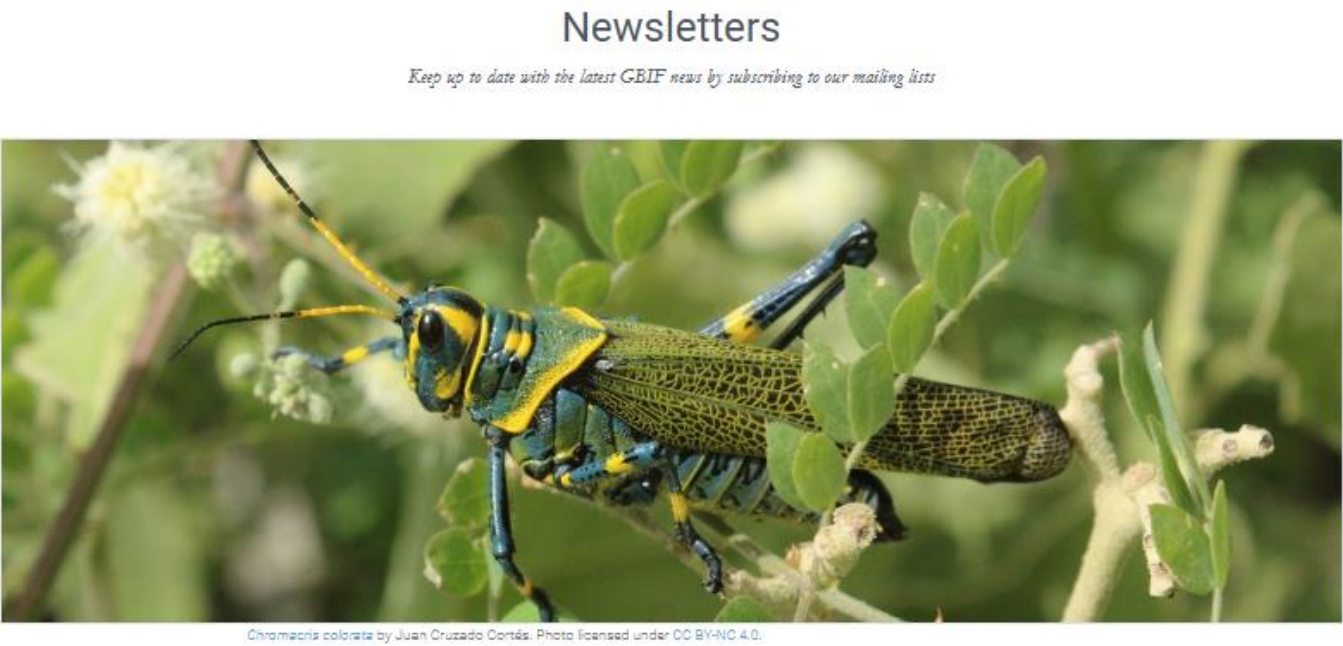
Next steps



All presentations and materials will be shared on the event page



Please contribute your thoughts via our consultation



Sign up at gbif.org/newsletters to receive updates on GBIF and the BID programme



Thank you all!

mraymond@gbif.org



New phase of BID (2024 – 2029)

Melanie Raymond and Maheva Bagard Laursen
Community & Capacity Team, GBIF Secretariat



BID 2024 - 2029



Start date: 09th August 2024

Duration: 60 month

Broad geographic focus: Africa, Latin America and the Caribbean and Pacific

Main objective

Significant improvement of the availability and accessibility of data, information, and knowledge for decision-making



Key outcome

Enhanced capacity to meet the knowledge needs of the Kunming-Montreal Global Biodiversity Framework through the mobilization of the required skills, collaborations and technologies

Focus on supporting the knowledge needs of the Global Biodiversity Framework (GBF)



Tentative timeline for key activities



2024

Regional meetings to identify capacity and information needs
Contracting of regional support teams



2024 - 2025

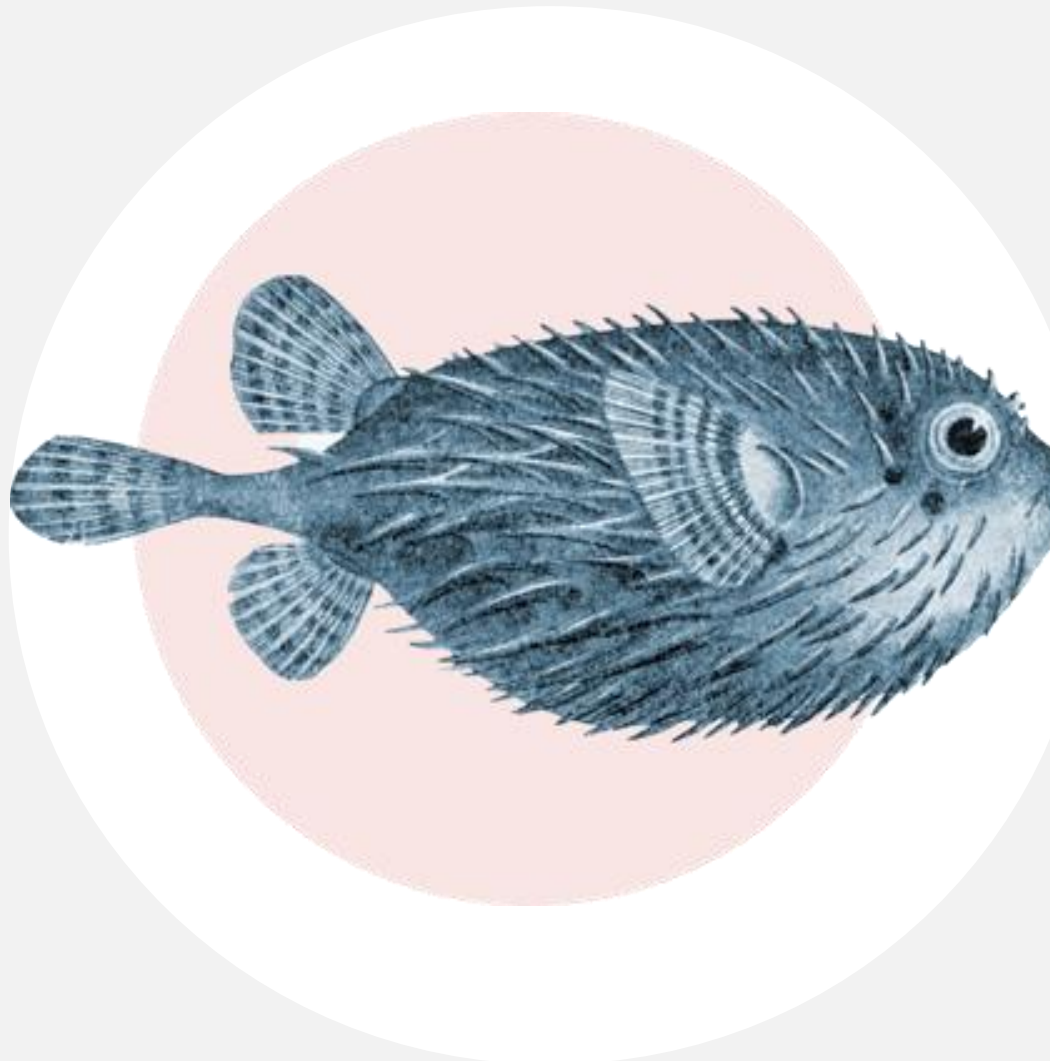
Intervention strategy for each region based on the outputs of the regional meetings



2025 - 2026

BID calls for proposals:

- *Institutional & multi-institutional*
- *Regional & cross-regional*



2026 - 2028

2-year Implementation period for selected projects
*Capacity development workshop in each region (**2026**)*



Why a regional virtual meeting and consultation?



- Encourage broad participation in the BID calls for proposals
- Encourage joining the GBIF community of volunteers as reviewers, mentors, and trainers



Why a regional virtual meeting and consultation?



GBIF regional consultation for the Biodiversity Information for Development programme in Latin America and Caribbean

mblaursen@gbif.org [Switch accounts](#)
Not shared

Name (optional)

Your answer

Organization/Institution

Your answer

Country of work/research in the LAC region

Your answer



Consulta regional de GBIF para el programa de Información sobre Biodiversidad para el Desarrollo – BID, en Latinoamérica y el Caribe (LAC)

mahevabagard@gmail.com [Changer de compte](#)
Non partagé

Nombre (opcional)

Votre réponse

Organización/Institución

Votre réponse

País de trabajo/investigación en la región de LAC

Votre réponse



Consulta regional do GBIF para o programa de Informação sobre Biodiversidade – BID para o Desenvolvimento na América Latina e no Caribe (LAC)

mahevabagard@gmail.com [Changer de compte](#)
Non partagé

Nome (opcional)

Votre réponse

Organização/Instituição

Votre réponse

País de trabalho/pesquisa na região da LAC

Votre réponse

Thank you!

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Regional perspectives on Biodiversity Information from the Humboldt Institute

Technical and Scientific
support Centre for Latin
America and the Caribbean

December 11th 2024





The Humboldt Institute

As one of the research institutes of the National Environmental System of Colombia (SINA), **we mobilize data, information, knowledge and narratives**, which position and connect biodiversity and its various contributions in the **transition towards a nature-based society and economy** at the center of our sustainable development.

The Institute coordinates the National Biodiversity Information System, node to GBIF in the country.



We work collaboratively

National institutional



MINISTERIO DE CIENCIA,
TECNOLOGÍA E INNOVACIÓN



MINISTERIO DE AMBIENTE Y
DESARROLLO SOSTENIBLE

International and Intergovernmental



Convention on
Biological Diversity



BANCO DE DESARROLLO
DE AMÉRICA LATINA



MUSÉUM
NATIONAL D'HISTOIRE NATURELLE



OTCA
Organización del Tratado
de Cooperación Amazónica

Academia



Private Entities



UNIVERSIDAD
NACIONAL
DE COLOMBIA



PONTIFICIA UNIVERSIDAD
JAVERIANA



UNIVERSIDAD
DE ANTIOQUIA



UNIVERSIDAD CES



UNIVERSIDAD CES
Un compromiso con la excelencia



Corporación Municipal
NUEVA GRANADA



Corpogén
Innovación y Biotecnología



UNIVERSIDAD
ICESI



IIS



INTERNATIONAL
INSTITUTE FOR
SUSTAINABILITY



CIAT



Chemonics
Development works here.



Microsoft



HUAWEI



NATIONAL
GEOGRAPHIC



We are committed to Open Data

Knowledge democratization

- ➔ **+400 Scientific** publications, and **+130 published books** between 2018 and 2023
- ➔ Open access information platforms and geo portals
- ➔ Open online repository of Humboldt documents and knowledge
- ➔ Response of over **+1400 institutional and civil society information requirements yearly**
- ➔ Social Networks oriented to facilitate access to knowledge

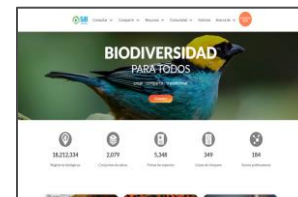
#JuntosporlaBiodiversidad

Generating information for decision making



BioModelos

Species distribution maps in Colombia in - collaborative and open.



SiB Colombia - National Biodiversity Information System:

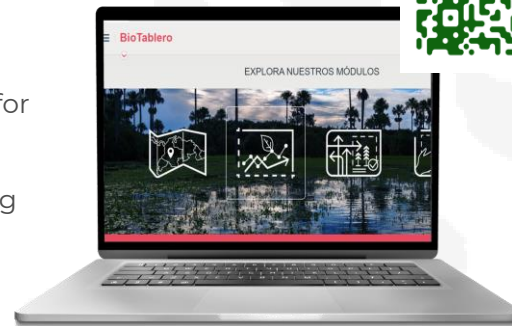
+18 million biodiversity registries.

National restoration and conservation portfolios



BioTablero

Dynamic maps and indicators for national and subnational decision making support.



The Humboldt Institute will host a Subregional Centre for Latin America and the Caribbean

What are the Subregional Technical and Scientific Support Centres?

They are part of the regional and sub-regional cooperation mechanism for technical and scientific support of the Convention on Biological Diversity, and aim to promote and facilitate cooperation among Parties and relevant organizations, in order to enable them to effectively use science, technology and innovation to support the implementation of the Kunming-Montreal Global Framework for Biodiversity.

**In accordance with Decision 15/8 of COP 15 in Montreal (Dec. 2022).*



At the global level,
18 Subregional Centres
were defined under the coordination of a global entity.

In the Americas, three organizations were chosen to
host Subregional Centres
(Humboldt Institute, CARICOM and CCAD).

The Subregional Centre hosted by the
Humboldt Institute will support
12 party countries.



Core functions of the Centre

The Centre will operate on a demand-driven basis. Each party country shall request scientific and technical support from the Centre through its CBD focal point.

The Centre as a «Knowledge Broker» will

- Facilitate **joint research and development programs**.
- Encourage **partnership building and resource mobilization** to address the identified technical and scientific needs.
- Promote **learning and exchange** of knowledge, experiences and technologies.

BID: Biodiversity Information for



Enhancing individual and institutional capacity at regional scale to mobilize and use FAIR and open data on biodiversity in research and policy to the benefit of science and society

HOW CAN THE DATA RESULTING FROM THE BID-GBIF PROGRAMME BE USED IN RESEARCH AND POLICY?



Baseline information for **defining NBSAP targets and actions**
(Only 7 NBSAPs have been posted in the LAC region)

National **monitoring and report of NBSAP**, and CBD National reports.
Sharing best practices and technologies for National MRV frameworks



Regional overview of GBF advancement, shared challenges, and information gaps. *Integrated information and systems*

Multicountry research initiatives to **inform transboundary decision making**
(e.g. Species Trafficking, Invasive alien species, Migrant species, Basin management, Ecosystem services flow...)

Awareness → Decision Making: Identifying **regional biodiversity trends**, as well as **knowledge gaps**, serves to underscore the need for national actions:

- *Data-based decisions for legislative and jurisprudential systems*
- *Land-use and spatial planning (e.g. 30x30, agricultural planning, infrastructure development)*
- *Resource mobilization for cooperation programmes*

Communities of practice for **developing and measuring indicators and key biodiversity variables** at national and regional scales, considering multiple knowledge systems, and IPLC participation

Inform and mobilize civil society and community driven action. *OECM, Sustainable use and livelihoods based on Biodiversity baselines, citizen oversight and*

Catalog of the Fishes of Colombia BID ID CA2020-030-USE

Presenter: Lauren Raz

Institution: Universidad Nacional de Colombia



*This programme is funded
by the European Union*



Project objectives

- Create an authoritative, searchable online **Catalog of the Fishes of Colombia/Catálogo de Peces de Colombia**, rich in taxonomic, geographic, ecological and conservation information, plus images.
- Update the checklist of freshwater fish species & create checklists of marine fish species (Caribbean & Pacific) as inputs to the Catalog and stand-alone publications.
- Develop and implement APIs to connect government institutions with the data they need to manage and conserve fisheries and hydrobiological resources.



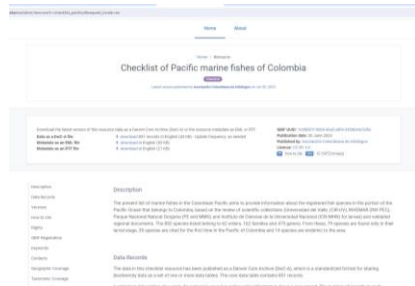
Ambiente



**PARQUES NACIONALES
NATURALES DE COLOMBIA**



Main results



Updated list of Colombian freshwater fish species:

<https://doi.org/10.15472/numrso>

First ever publication of the list of marine fish from the Pacific basin of Colombia:

<https://doi.org/10.15472/kmsezg>

First ever publication of the list of marine fish from the Caribbean basin of Colombia:

<https://doi.org/10.15472/430hyn>

Support for publication of regional ichthyology collections: Universidad del Valle, Universidad del Atlántico:

<https://doi.org/10.15472/9qdyrl>

Main results



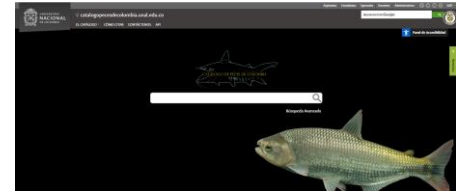
Specialist visits to Colombian ichthyology collections resulting in taxonomic updates for > 1,000 specimens and their records in GBIF
<https://doi.org/10.15472/s8zrny>



Publication of three species new to science
<https://doi.org/10.1111/jfb.15500>
<https://doi.org/10.1590/1982-0224-2023-0008>



Development of an API to facilitate information sharing with government partners
<http://catalogopecesdecolombia.unal.edu.co/es/resu-lts/api/v1/doc/>



Publication of the Catalog of the Fishes of Colombia
<http://catalogopecesdecolombia.unal.edu.co/es/>

Thank you

- GBIF BID Caribbean Program
- co-PIs Mariangeles Arce & Henry Agudelo
- Universidad Nacional de Colombia

Our Partners:

- Ministry of the Environment and Sustainable Development (MADS)
- National Natural Parks of Colombia (PNN)
- National Authority of Aquaculture and Fisheries (AUNAP)
- WWF Colombia
- Invemar
- Colombian Biodiversity Information System (SiB Colombia)
- Colombian Ichthyology Association (ACICTIOS)
- Catalog of the Fishes of Colombia Editorial Committee

