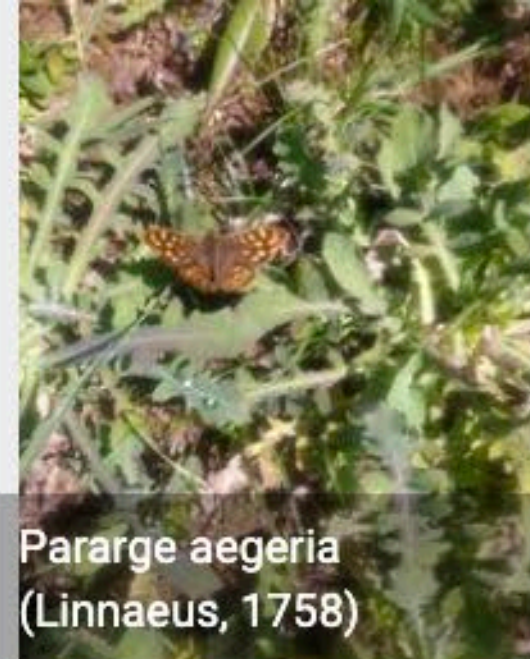
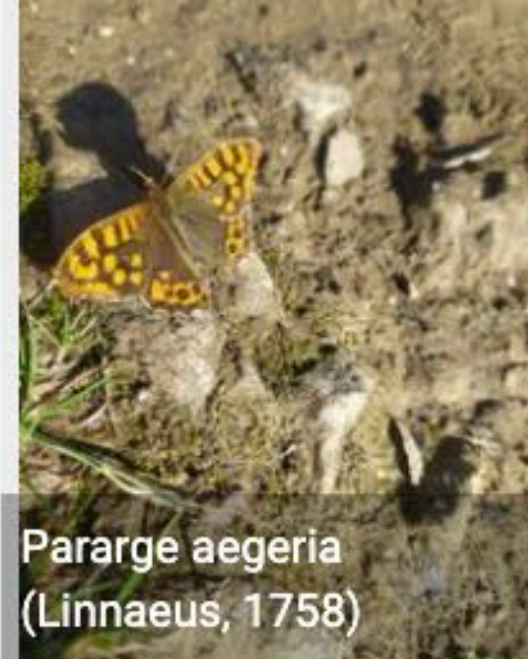




*...bilis* (Thorell, 1875)



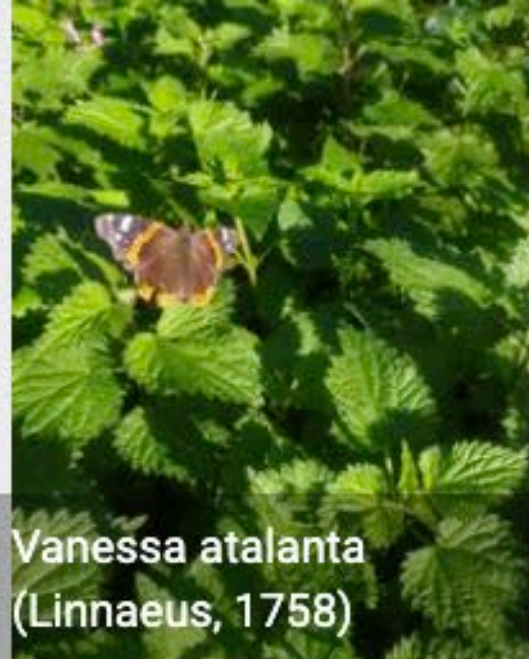
*Pararge aegeria* (Linnaeus, 1758)



*Pararge aegeria* (Linnaeus, 1758)



*Aglais io* (Linnaeus, 1758)



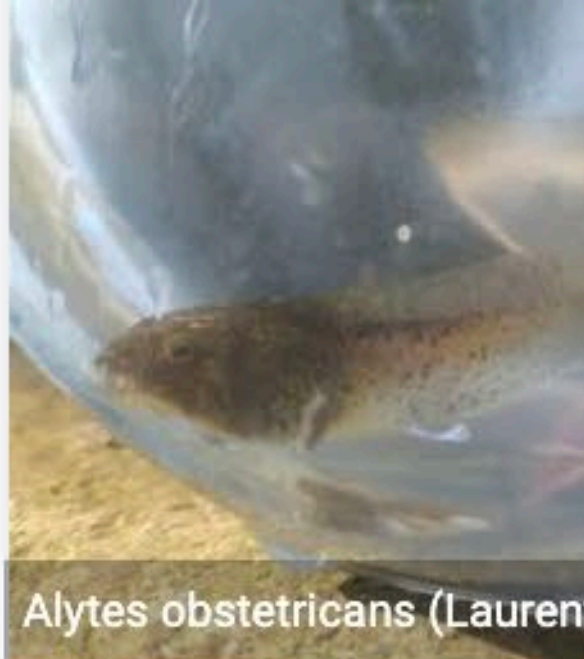
*Vanessa atalanta* (Linnaeus, 1758)



*Gonepteryx rhamni* (Linnaeus, 1758)



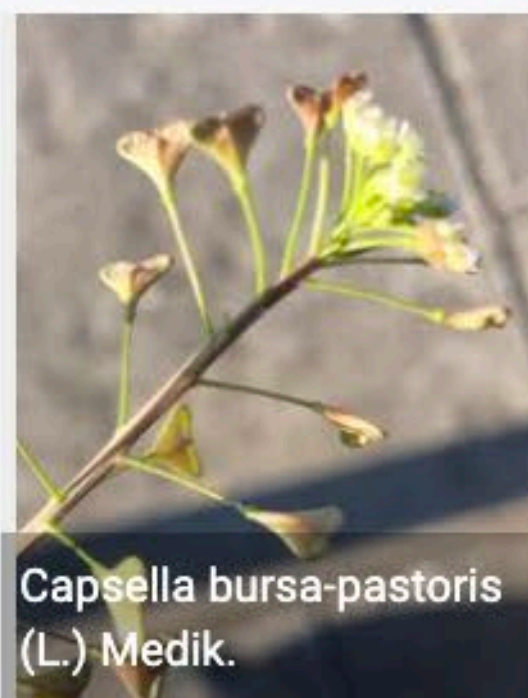
*Lissotriton helveticus* (Razoumovsky, 1789)



*Alytes obstetricans* (Laurenti, 1768)



*Auricula-judae* (Bull.) Qué.



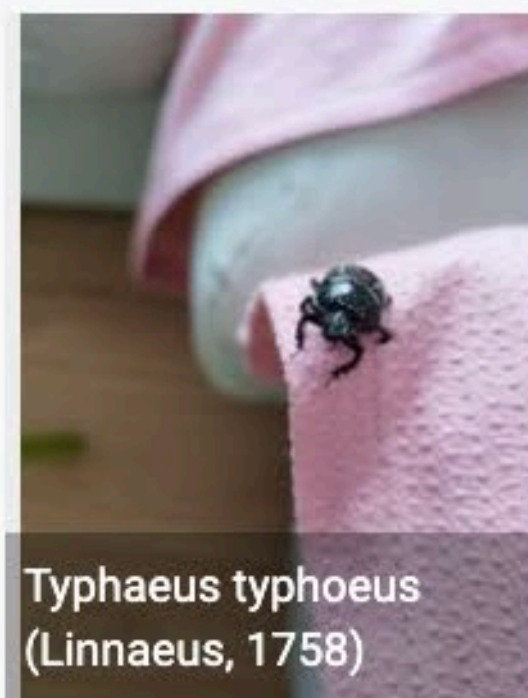
*Capsella bursa-pastoris* (L.) Medik.



*Malva sylvestris* L.



*Alytes obstetricans* (Laurenti, 1768)



*Typhaeus typhoeus* (Linnaeus, 1758)



*Helicella itala* (Linnaeus, 1758)

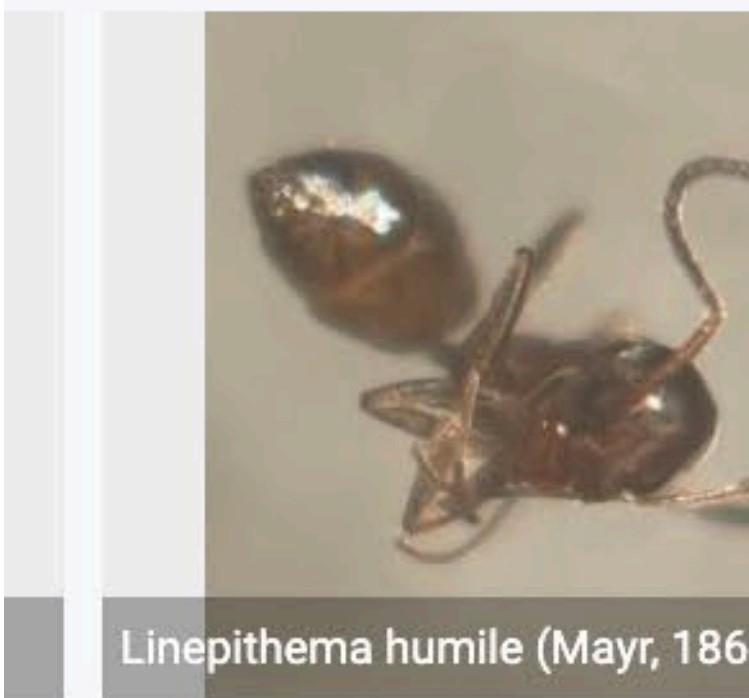


*Helicella itala* (Linnaeus, 1758)

# Types of data available through GBIF

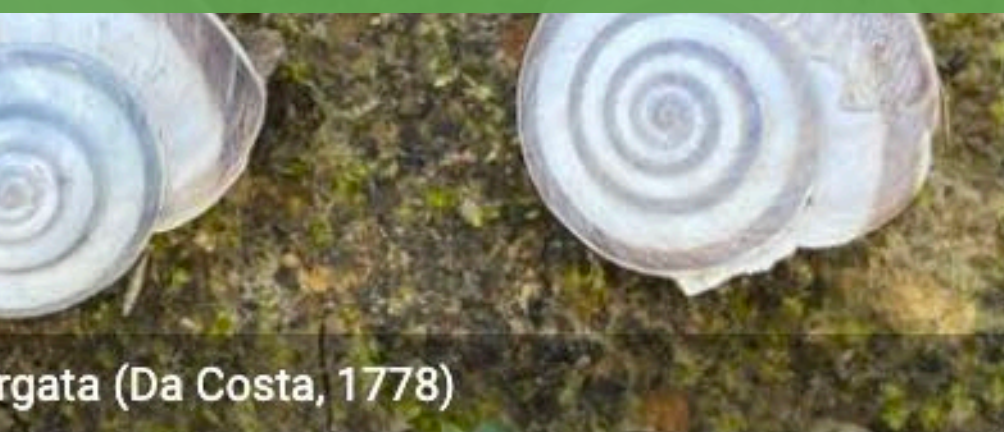


Global Biodiversity Information Facility

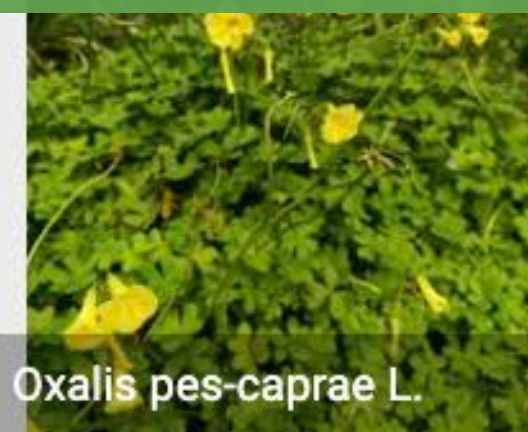


*Linepithema humile* (Mayr, 1861)

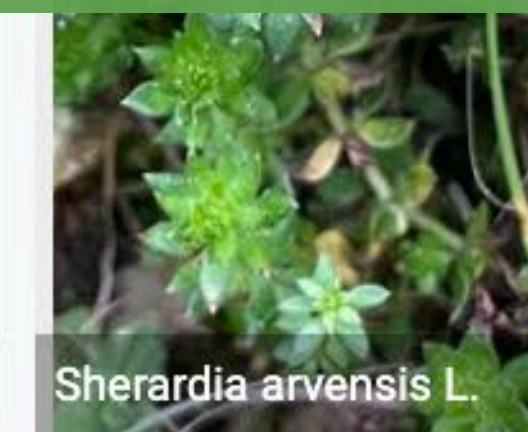
Tim Hirsch | Special Adviser, GBIF



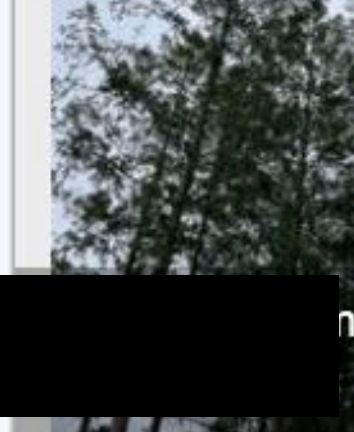
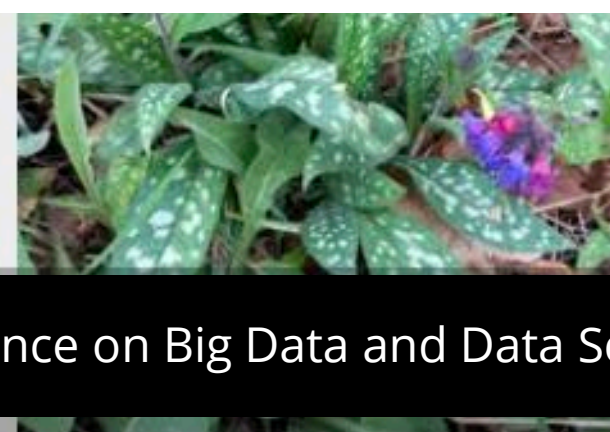
*...rgata* (Da Costa, 1778)



*Oxalis pes-caprae* L.



*Sherardia arvensis* L.



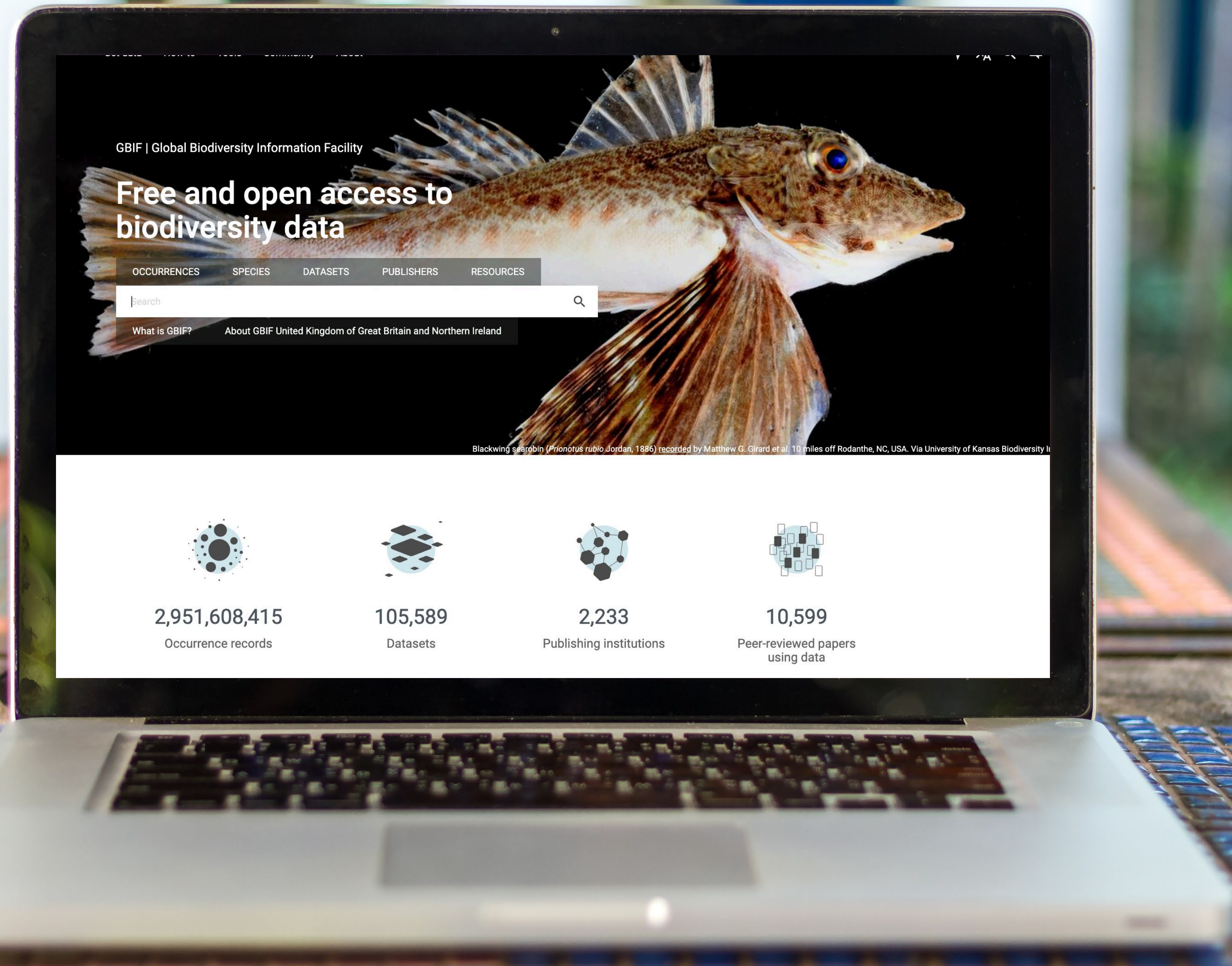
# What is GBIF?

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



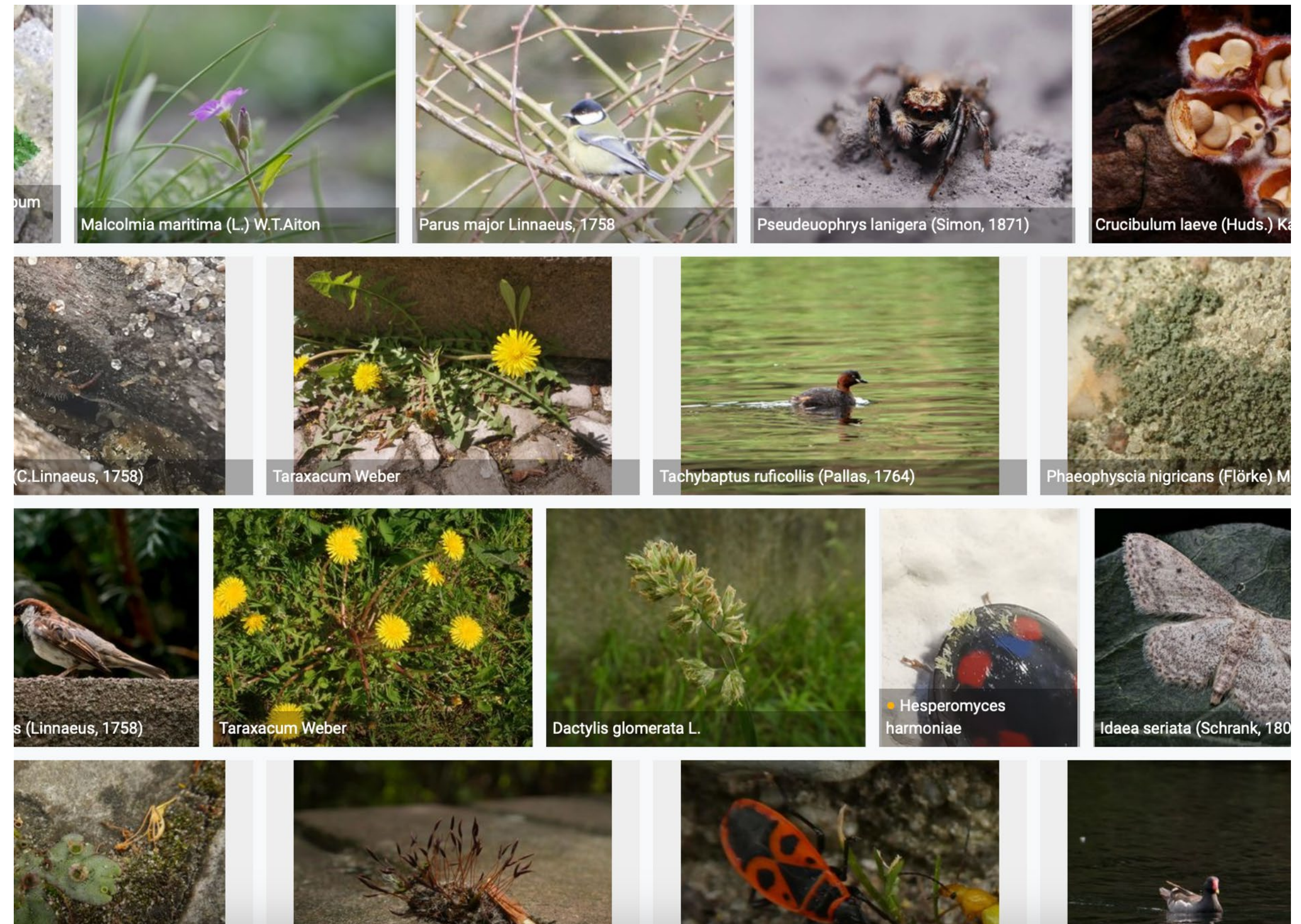
# Species occurrence records with multimedia evidence

**166.6 million records** with  
**taxonomically identified images**

- 110.2 million human observations
- 51.2 million specimens
- 2.8 million material samples
- 1.4 million fossil specimens

**1,329,424** audio files

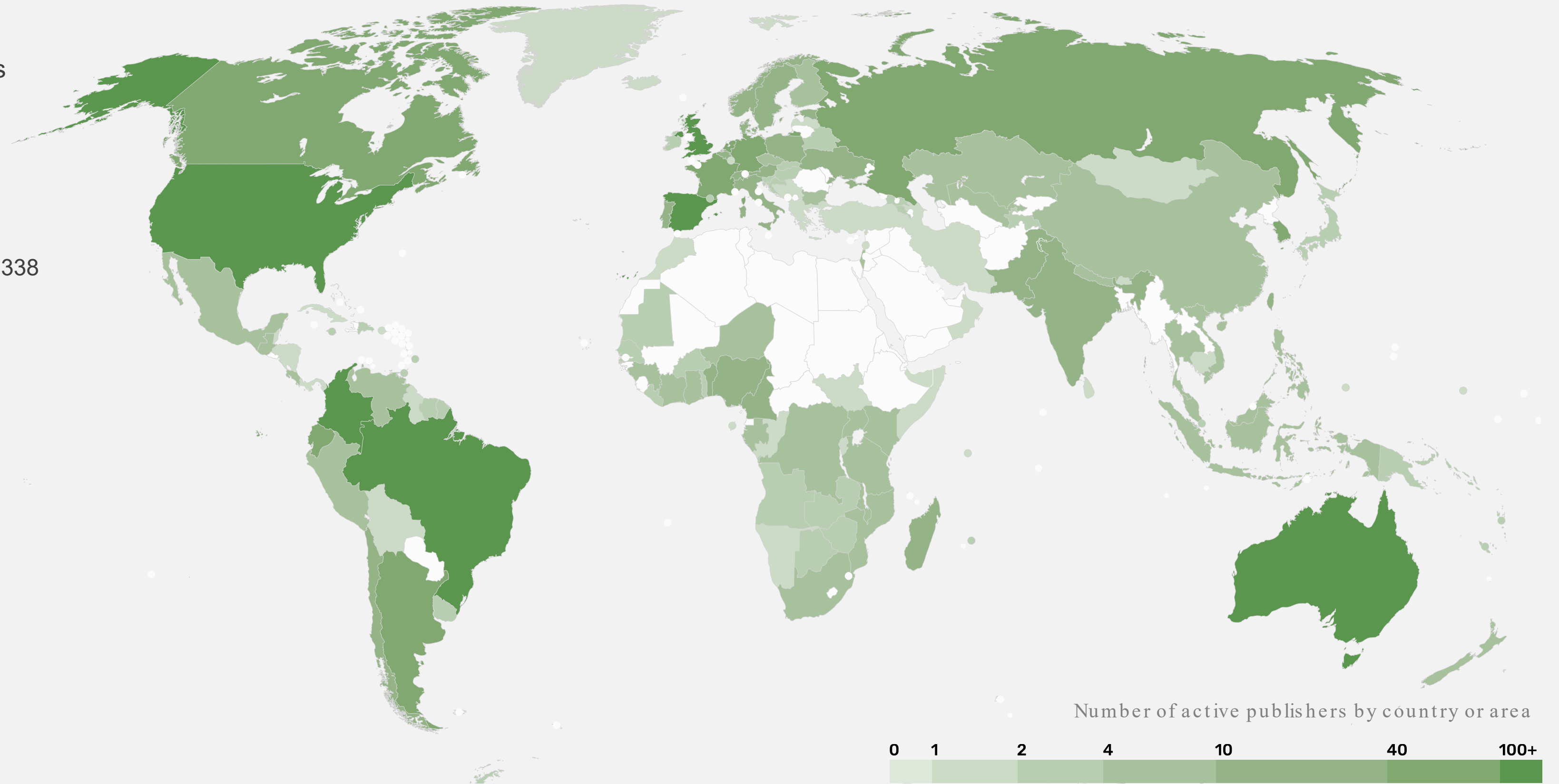
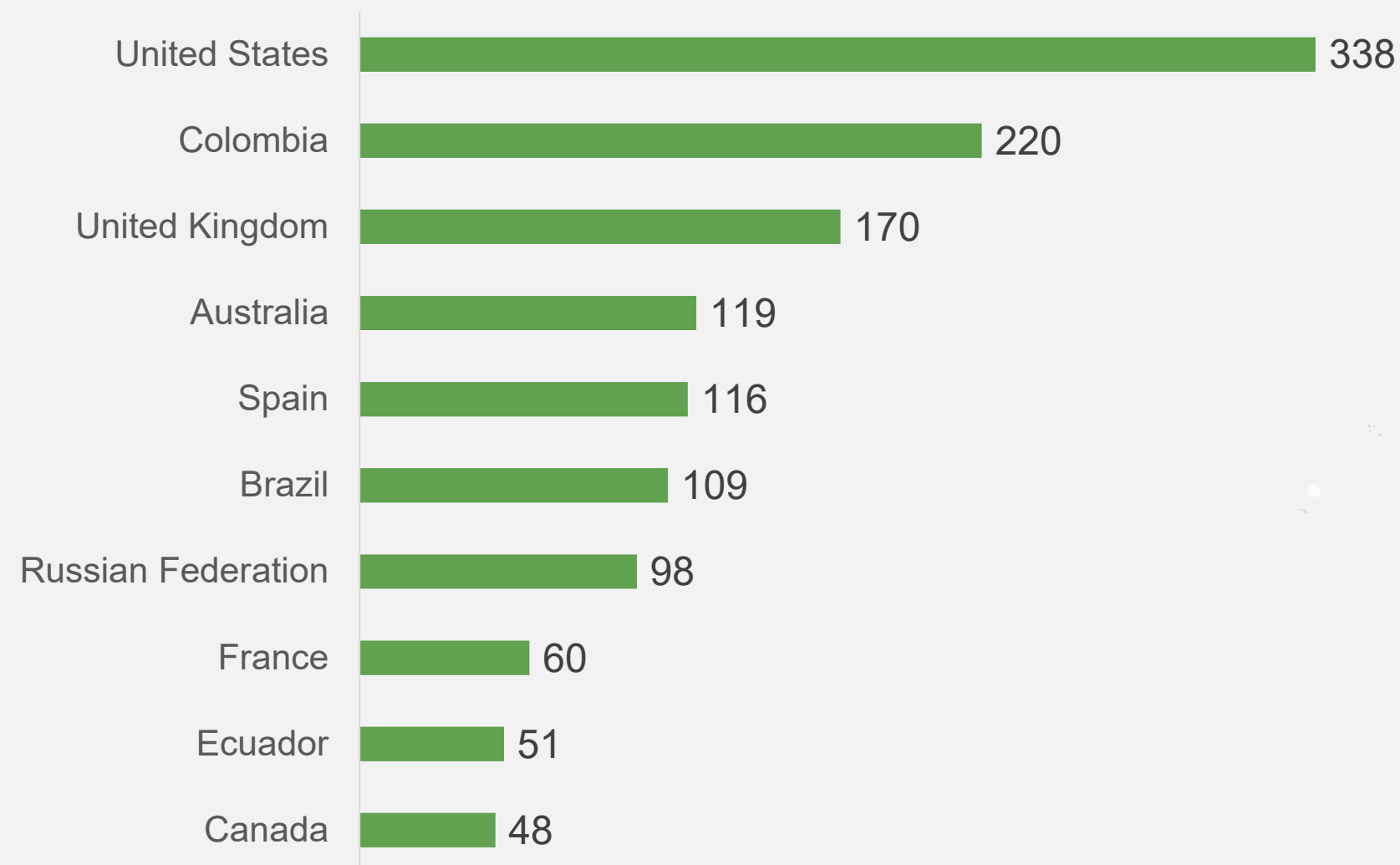
**8,553** videos



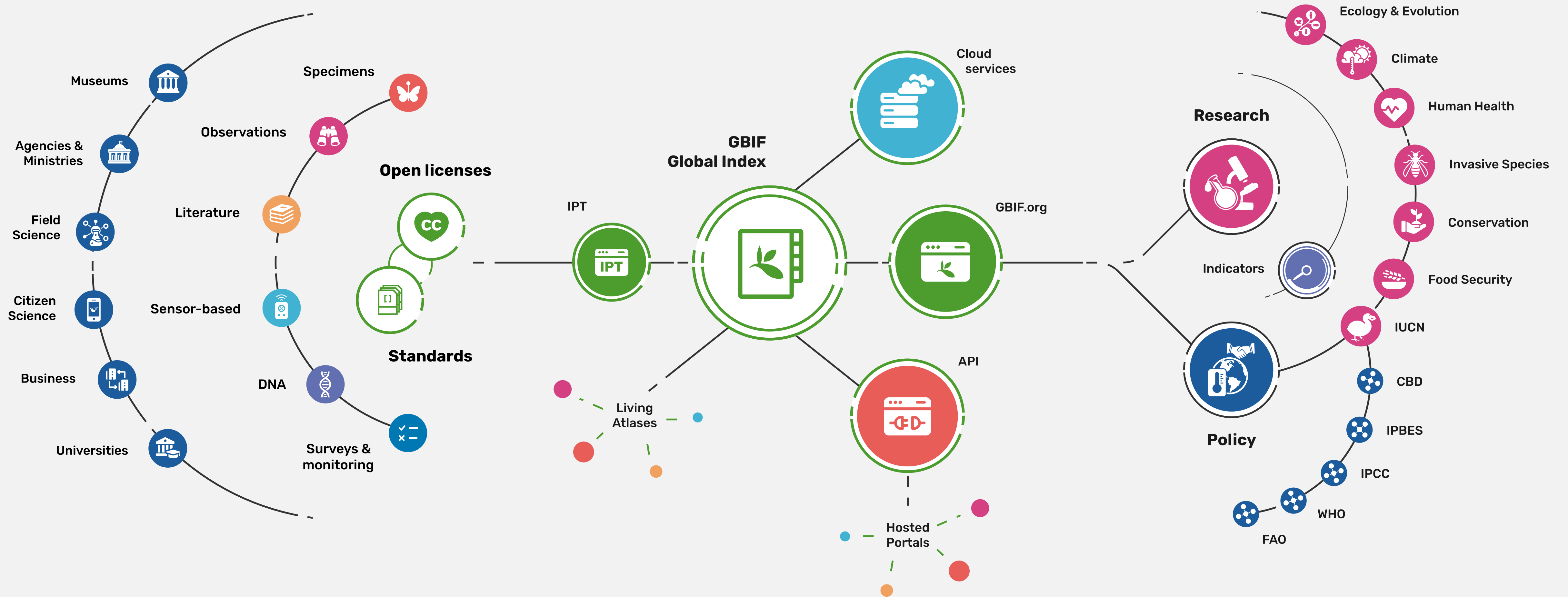
# GBIF network of data publishing institutions

142

countries/areas with institutions sharing data through GBIF



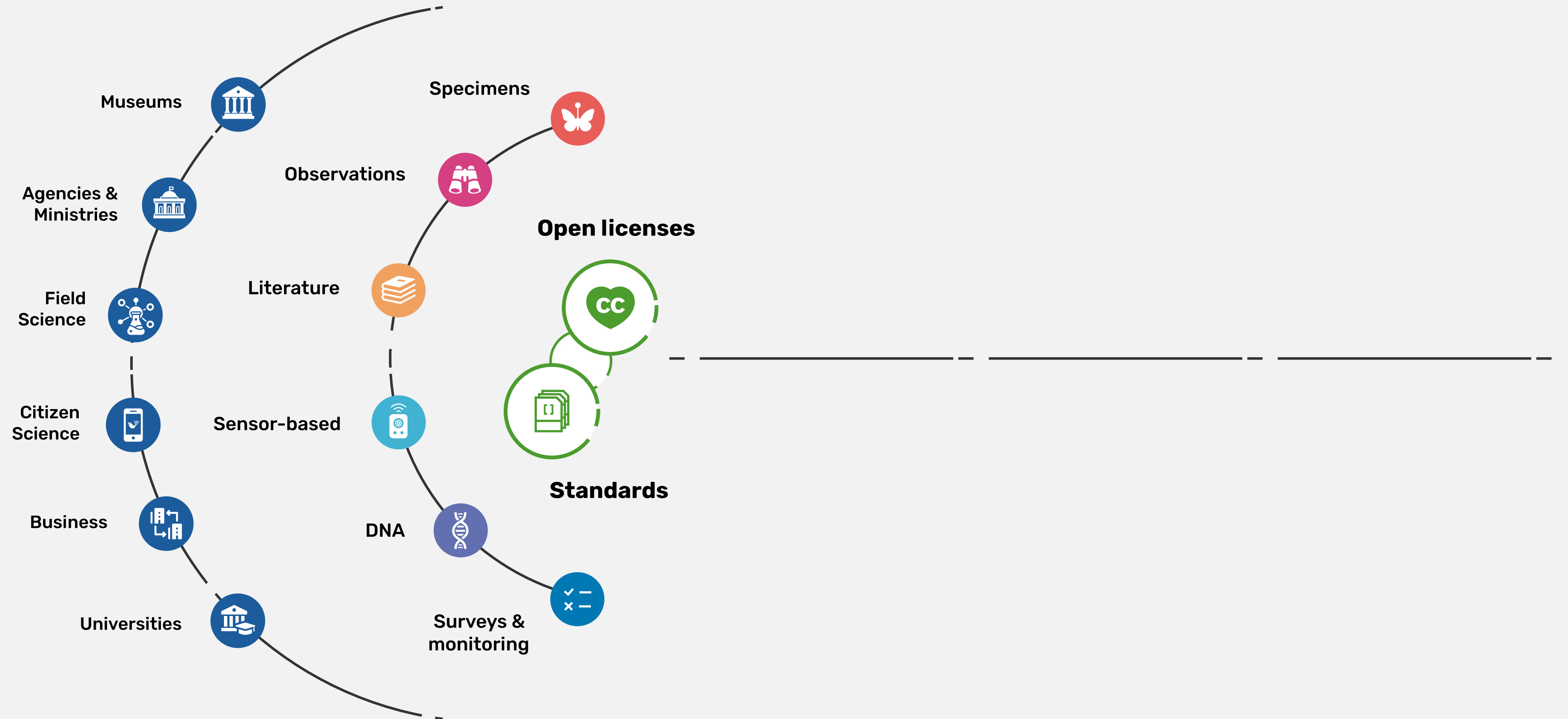
# Providing biodiversity evidence for research and policy



# Sources of biodiversity evidence

**Create**

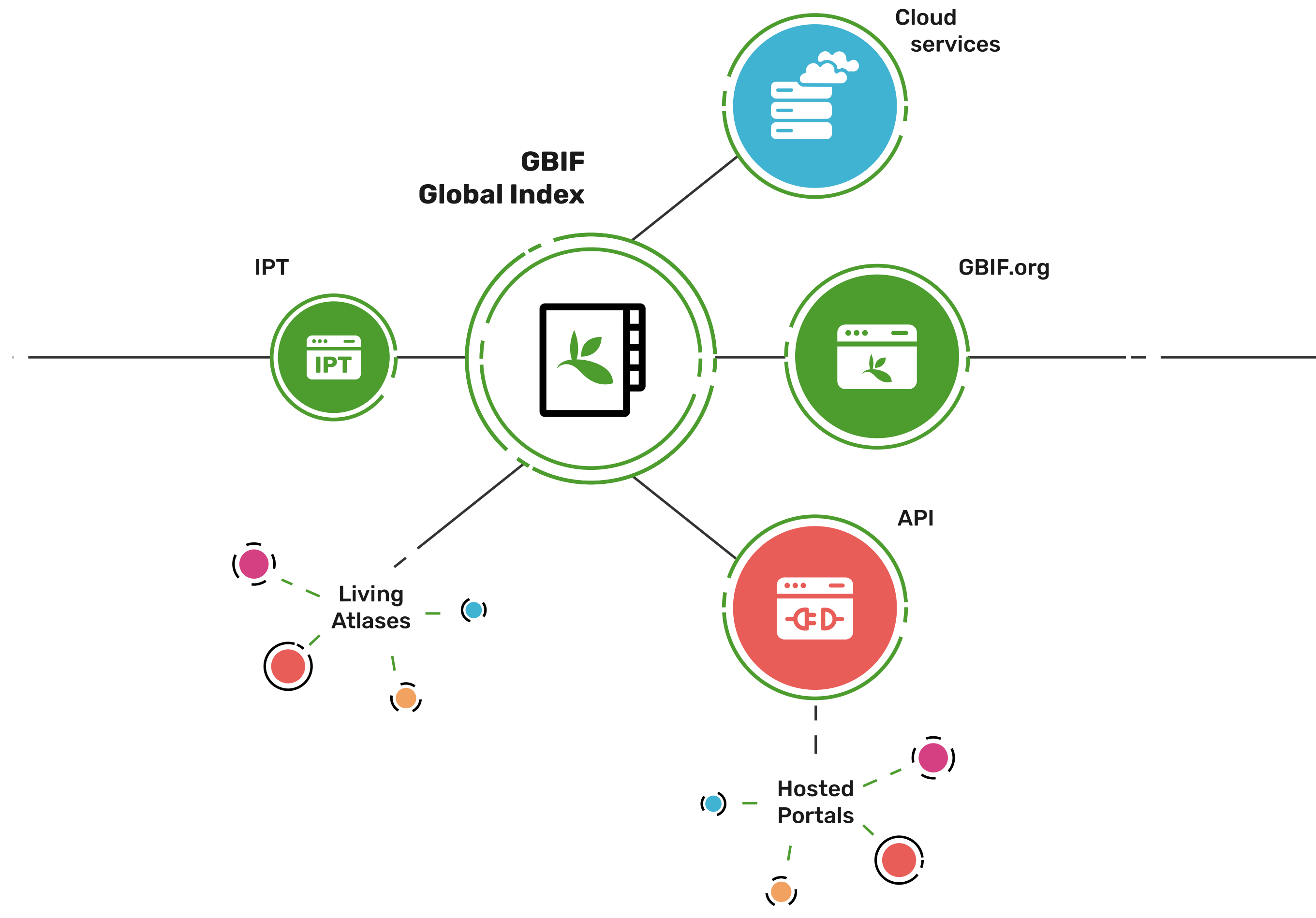
*Combine sources of evidence*



# Access to biodiversity evidence

Share

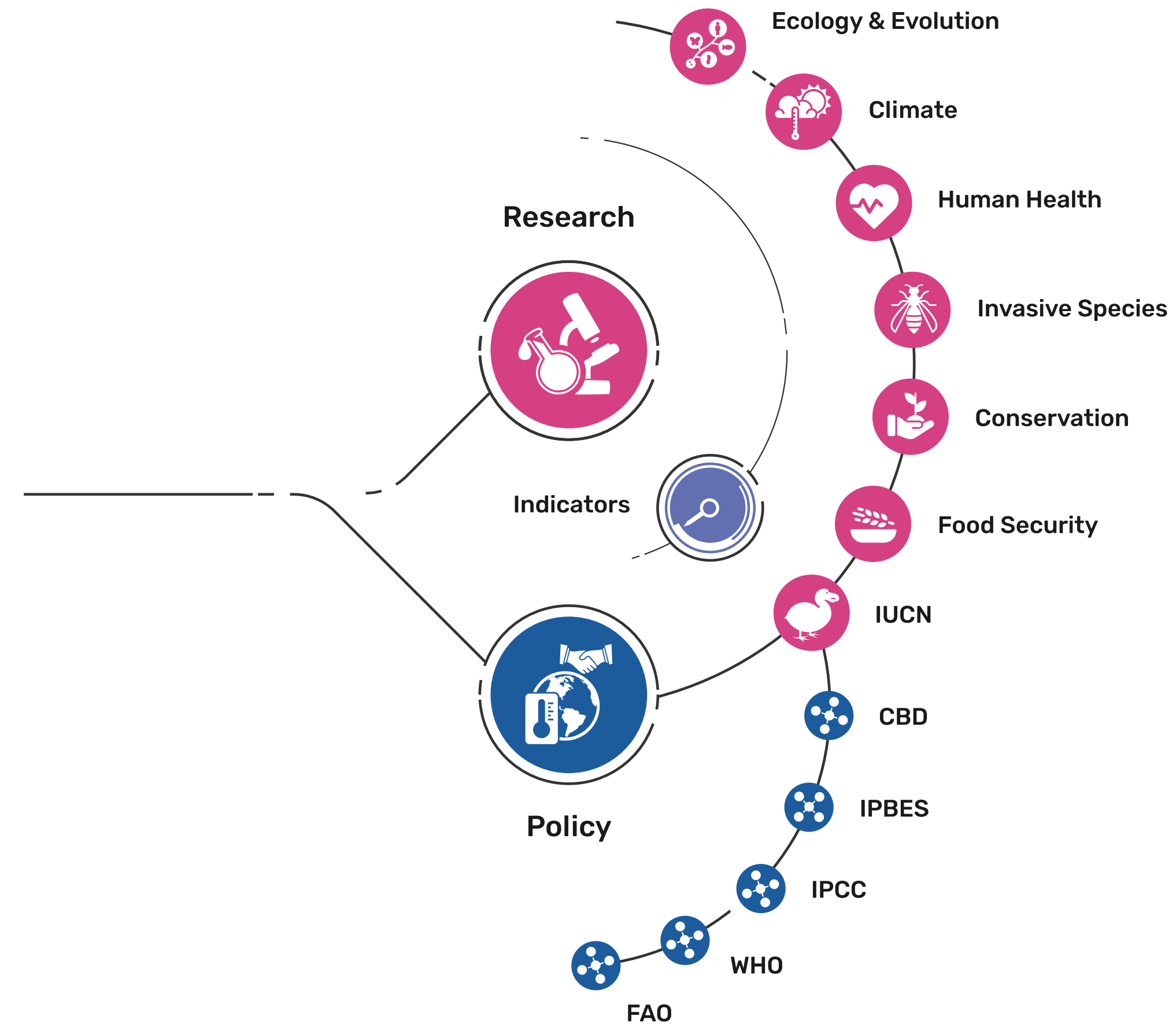
*FAIR and open access*



# Uses of biodiversity evidence

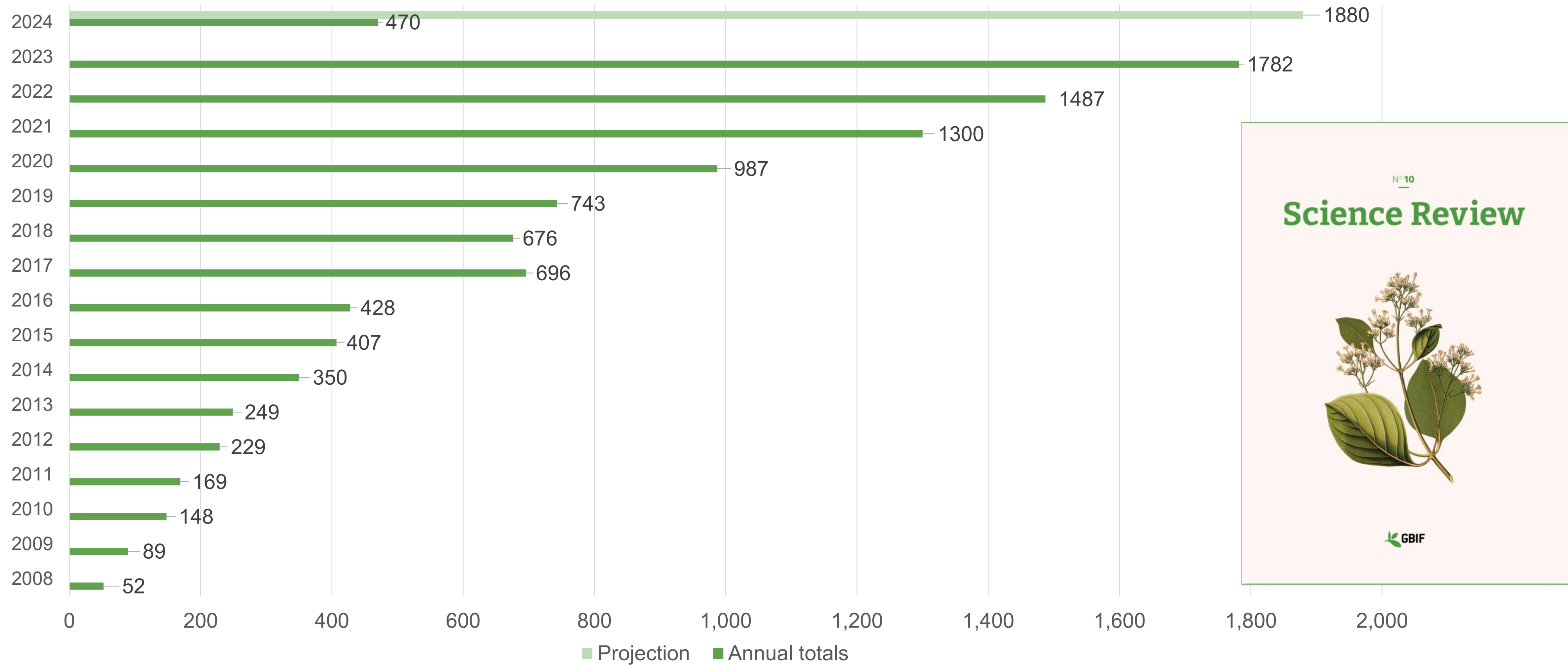
## Transform

*Apply and use data*





# Peer-reviewed publications using GBIF -mediated data



[https://www.gbif.org/resource/search?contentType=literature&literatureType=journal&relevance=GBIF\\_USED&peerReview=true](https://www.gbif.org/resource/search?contentType=literature&literatureType=journal&relevance=GBIF_USED&peerReview=true);  
<https://www.gbif.org/science-review>



# GBIF and the Kunming -Montreal global biodiversity framework



## GBIF relevance (illustrative)

Data to identify key biodiversity areas

Data to monitor restoration

Data to locate, monitor protected areas

Data for species conservation

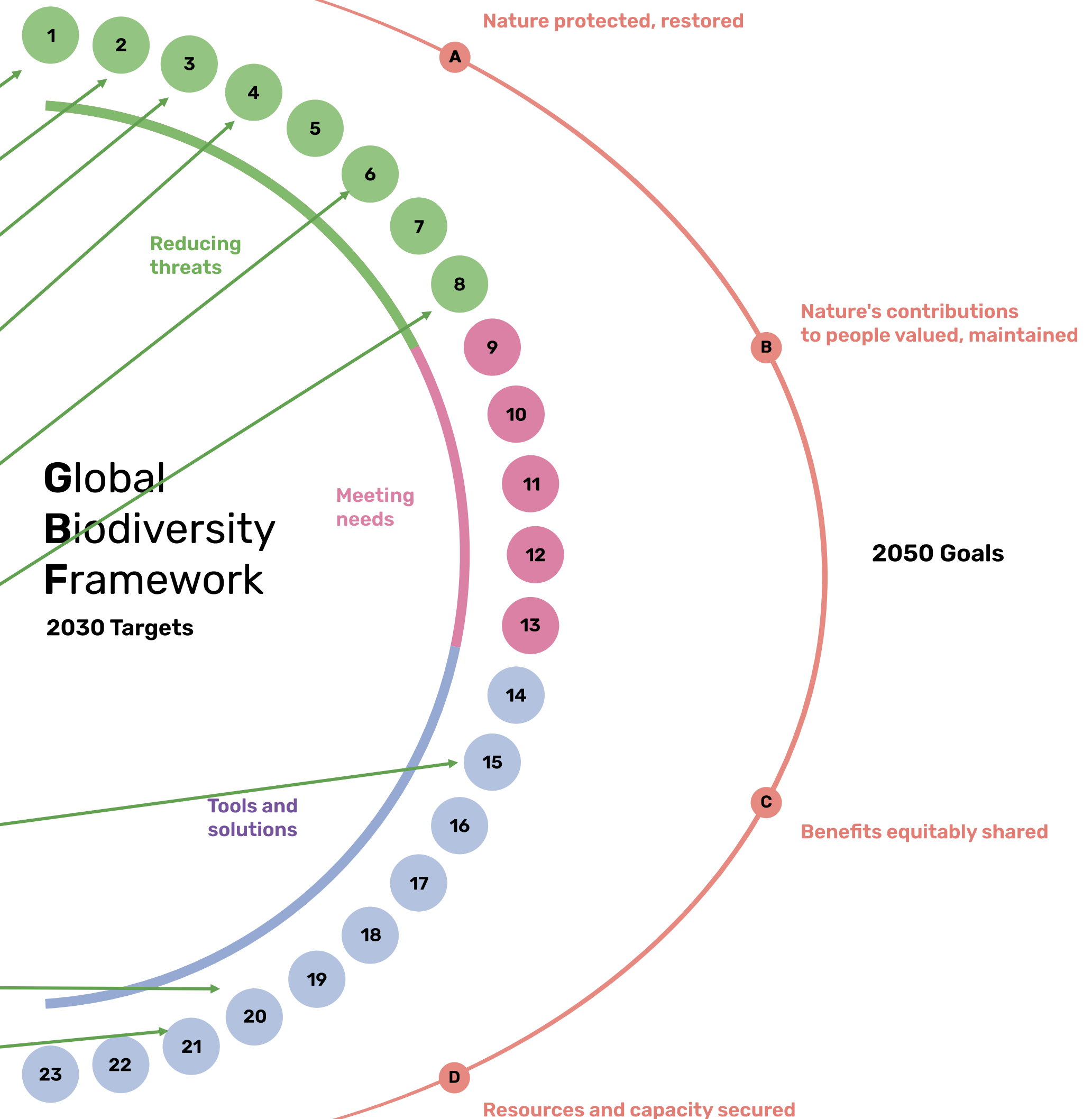
Data on invasive species occurrence

Data to model climate change impacts

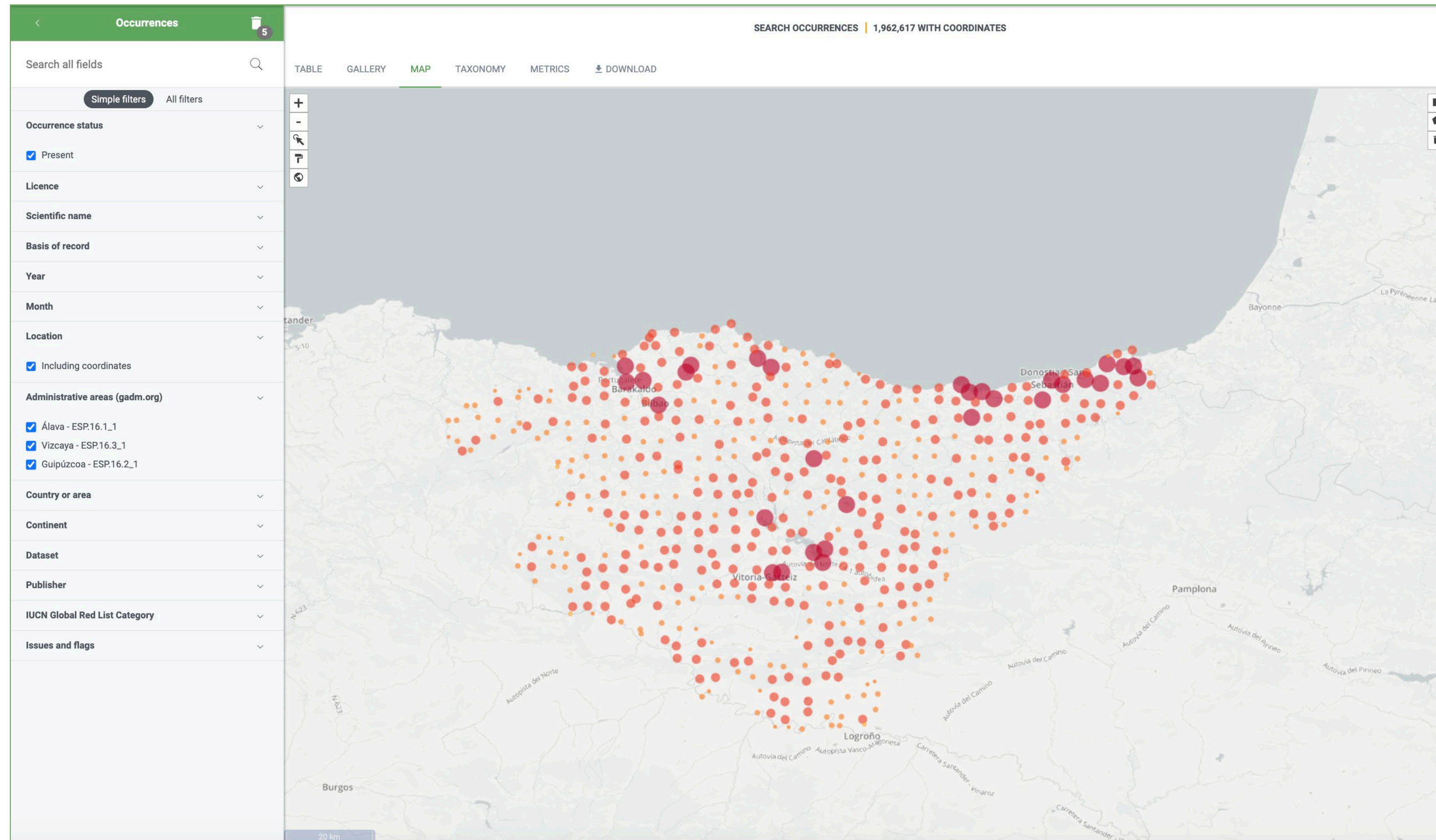
Platform for sharing EIA data

Capacity programmes for data mobilization and use

Making data available for implementation



# Data from Euskadi/País Vasco



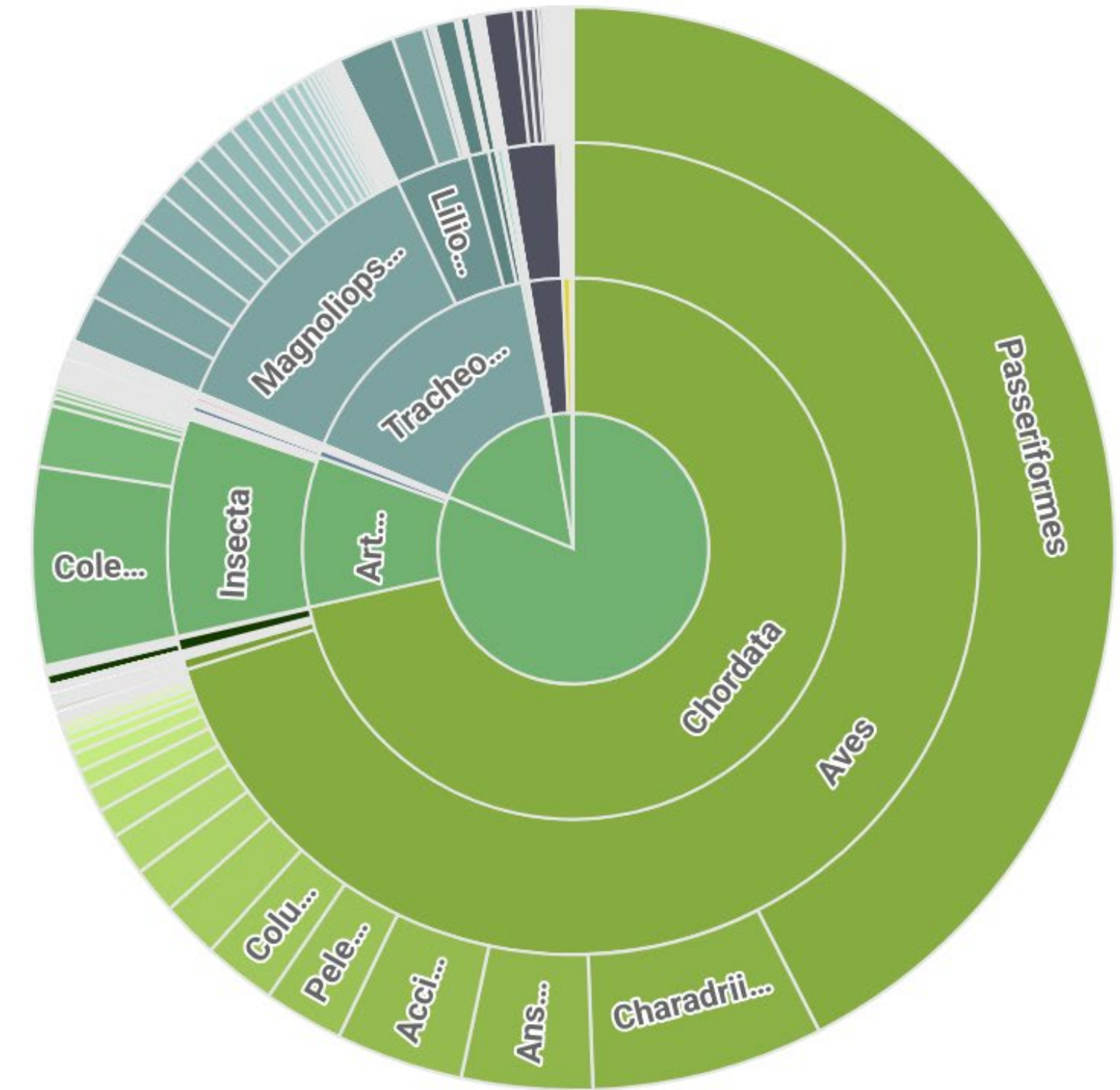
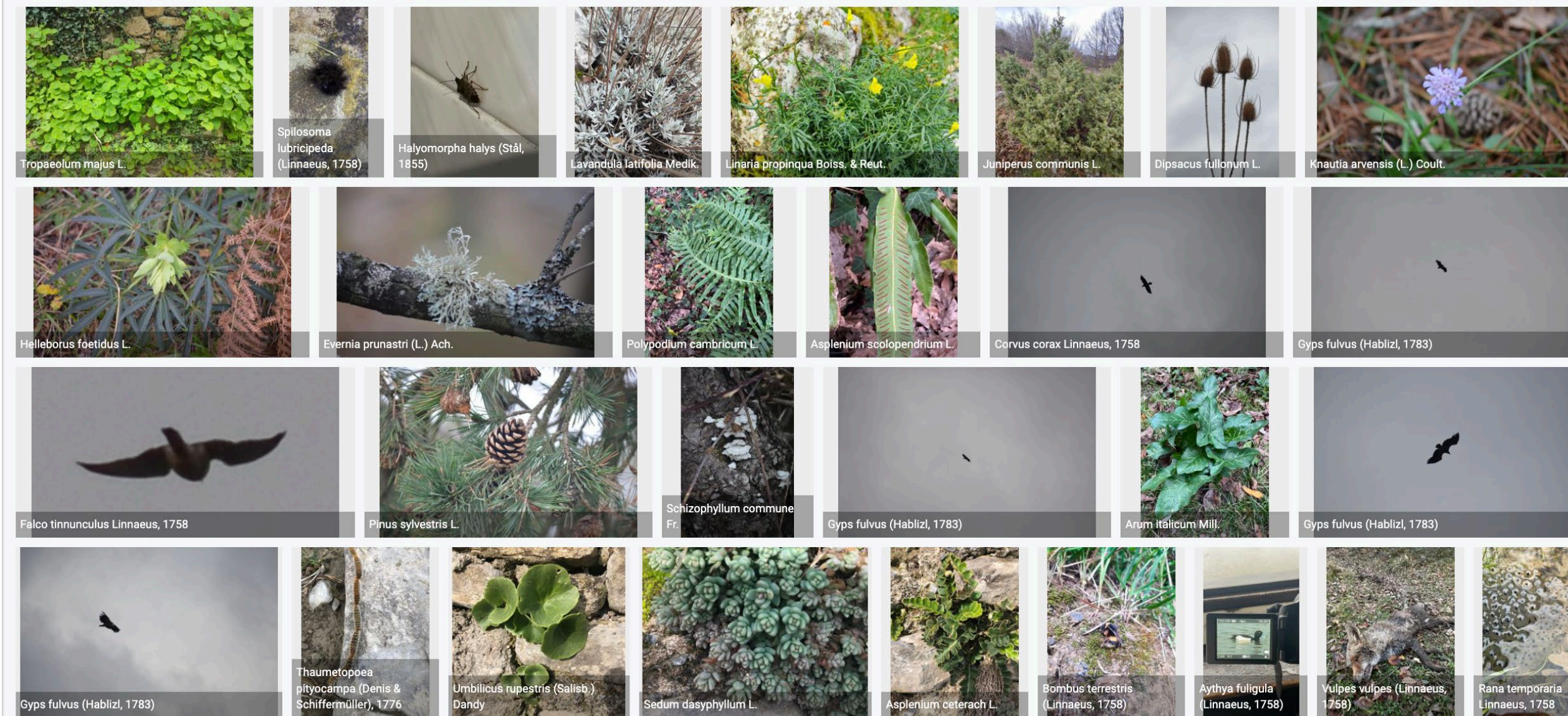
[https://www.gbif.org/occurrence/map?has\\_coordinate=true&has\\_geospatial\\_issue=false&occurrence\\_status=present&gadm\\_gid=ESP.16.1\\_1&gadm\\_gid=ESP.16.3\\_1&gadm\\_gid=ESP.16.2\\_1](https://www.gbif.org/occurrence/map?has_coordinate=true&has_geospatial_issue=false&occurrence_status=present&gadm_gid=ESP.16.1_1&gadm_gid=ESP.16.3_1&gadm_gid=ESP.16.2_1)



# Data from Euskadi/País Vasco

SEARCH OCCURRENCES | 69,879 WITH IMAGES

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD



# Data from Euskadi/País Vasco

OCCURRENCES PER DATASET	
Dataset	Count
<a href="#">↪ EOD – eBird Observation Dataset</a>	965,967
<a href="#">↪ VIT-Coleopterotheca (The Natural History Museum of...</a>	99,433
<a href="#">↪ Anillamiento SEO_Bird ringing</a>	92,752
<a href="#">↪ Aranzadi Ringing Scheme (bird ring-recovery data)</a>	74,731
<a href="#">↪ Ornitho.eus</a>	60,231
<a href="#">↪ Base de datos de plantas vasculares del País Vasco...</a>	54,140
<a href="#">↪ iNaturalist Research-grade Observations</a>	44,263
<a href="#">↪ Sistema de Información de la vegetación Ibérica y ...</a>	37,149
<a href="#">↪ Pl@ntNet automatically identified occurrences</a>	34,307
<a href="#">↪ CSIC-Real Jardín Botánico-Anthos. Sistema de Infor...</a>	32,840



# Data from Euskadi/País Vasco

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<a href="#">EOD – eBird Observation Dataset</a>	965,967
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<a href="#">Pl@ntNet automatically identified occurrences</a>	34,307
<a href="#">CSIC-Real Jardín Botánico-Anthos. Sistema de Infor...</a>	32,840

OCCURRENCE DATASET | REGISTERED APRIL 10, 2023

## VIT-Coleopterotheca (The Natural History Museum of Álava)

Published by [Natural History Museum of Álava \(Museo de Ciencias Naturales de Álava / Arabako Natura Zientzien Museoa\)](#)  
Marcos Alonso J M • de Olano I • Infante Sánchez M

DATASET METRICS ACTIVITY DOWNLOAD HOME PAGE
133,126 OCCURRENCES 10 CITATIONS

The Coleopterotheca of the Natural History Museum of Álava began in 1974 and nowadays, it holds around 160.000 specimens, of which 133.700 are databased. The number of taxa is approximately 5.000. The main collectors are Juan María Marcos, Imanol Zabalegui, Federico Zuazo, Ibon de Olano, Diego Sánchez Miyares, Pablo Bahillo, Felipe Calvo, José María Salgado y José Sebastián Estévez. The collection is particularly numerous in specimens of the Caraboidea superfamily from the Basque Country (Northe... [More](#)



Publication date: May 12, 2023  
Metadata last modified: May 12, 2023  
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[How to cite](#) [DOI](#) 10.15470/qzikh6

● 133,126 Occurrences

○ 100% With taxon match

○ 99.9% With coordinates

○ 99.9% With year

133,037 GEOREFERENCED RECORDS



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Any year 1901 - 2022



# Data from Euskadi/País Vasco

OCCURRENCES PER DATASET	
Dataset	Count
<a href="#">EOD – eBird Observation Dataset</a>	965,967
<a href="#">VIT-Coleopterotheca (The Natural History Museum of...)</a>	99,433
<a href="#">Anillamiento SEO_Bird ringing</a>	92,752
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<a href="#">Base de datos de plantas vasculares del País Vasco...</a>	54,140
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<a href="#">Sistema de Información de la vegetación Ibérica y ...</a>	37,149
<a href="#">Pl@ntNet automatically identified occurrences</a>	34,307
<a href="#">CSIC-Real Jardín Botánico-Anthos. Sistema de Infor...</a>	32,840

OCCURRENCE DATASET | REGISTERED MAY 21, 2015

## Aranzadi Ringing Scheme (bird ring-recovery data)

Published by [Aranzadi Science Society](#)  
Arizaga Martínez J

[DATASET](#) | [METRICS](#) | [ACTIVITY](#) | [DOWNLOAD](#) | [HOME PAGE](#)

**476,743 OCCURRENCES** | **183 CITATIONS**

This data base consists of bird ring-recovery data from the Aranzadi Ringing Scheme (Aranzadi Sciences Society, Spain). Data have been compiled since 1950. For each record, you will find the following information: number of individuals of a species grouped by date, location (latitude and longitude coordinates), catching method, and ring-recovery conditions and circumstances. In addition, information on province and country is provided.

**aranzadi**  
ziientzia elkartea

**Publication date:** June 7, 2024  
**Metadata last modified:** June 7, 2024  
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[How to cite](#) | [DOI](#) 10.15470/gprffz

● 476,743  
Occurrences

○ 99.9%  
With taxon match

○ 99.9%  
With coordinates

○ 100%  
With year

476,249 GEOREFERENCED RECORDS



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# Data from Euskadi/País Vasco

OCCURRENCES PER DATASET	
Dataset	Count
<a href="#">EOD – eBird Observation Dataset</a>	965,967
<a href="#">VIT-Coleopterotheca (The Natural History Museum of...)</a>	99,433
<a href="#">Anillamiento SEO_Bird ringing</a>	92,752
<a href="#">Aranzadi Ringing Scheme (bird ring-recovery data)</a>	74,731
<a href="#">Ornitho.eus</a>	60,231
<a href="#">Base de datos de plantas vasculares del País Vasco...</a>	54,140
<a href="#">iNaturalist Research-grade Observations</a>	44,263
<a href="#">Sistema de Información de la vegetación Ibérica y ...</a>	37,149
<a href="#">Pl@ntNet automatically identified occurrences</a>	34,307
<a href="#">CSIC-Real Jardín Botánico-Anthos. Sistema de Infor...</a>	32,840

OCCURRENCE DATASET | REGISTERED FEBRUARY 18, 2013

## Base de datos de plantas vasculares del País Vasco: ARAN-EH

Published by [Aranzadi Science Society](#)  
Aizpuru Oiarbide I

DATASET METRICS ACTIVITY DOWNLOAD
202,057 OCCURRENCES
594 CITATIONS

Base de datos creada en el 2006 con la ayuda del Departamento de Medio Ambiente y Política Territorial del Gobierno Vasco. Contiene información sobre plantas vasculares del País Vasco y territorios limítrofes referentes a citas bibliográficas. Actualmente, cuenta con 202.412 citas correspondientes a 4.970 especies. Asimismo, están registrados 1.028 libros/artículos. Además de las citas bibliográficas, Aranzadi Science Society cuenta con otro amplio registro de datos referente a pliegos de Herbario. Éstos corresponden a otro conjunto de datos, Aranzadi Zientzi Elkarte.

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[How to cite](#) [DOI](#) 10.15468/m86bzk

● 202,057  
Occurrences

○ 100%  
With taxon match

○ 86%  
With coordinates

○ 0%  
With year

173,979 GEOREFERENCED RECORDS

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Thank you!  
Eskerrik asko!  
Gracias!

Tim Hirsch | [tim@timhirsch-consulting.com](mailto:tim@timhirsch-consulting.com)

