

records submitted to the NBN Atlas are used globally through GBIF

Tim Hirsch | Deputy Director



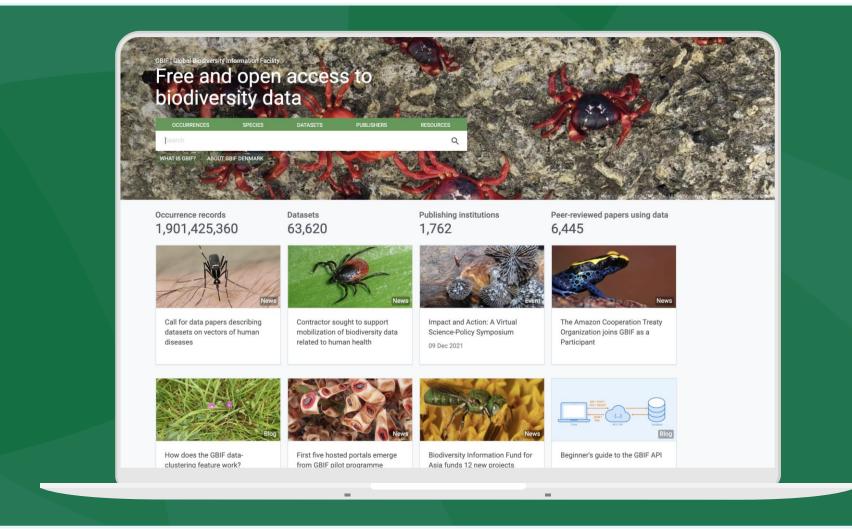
WHAT IS GBIF?

Intergovernmental network and research infrastructure

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

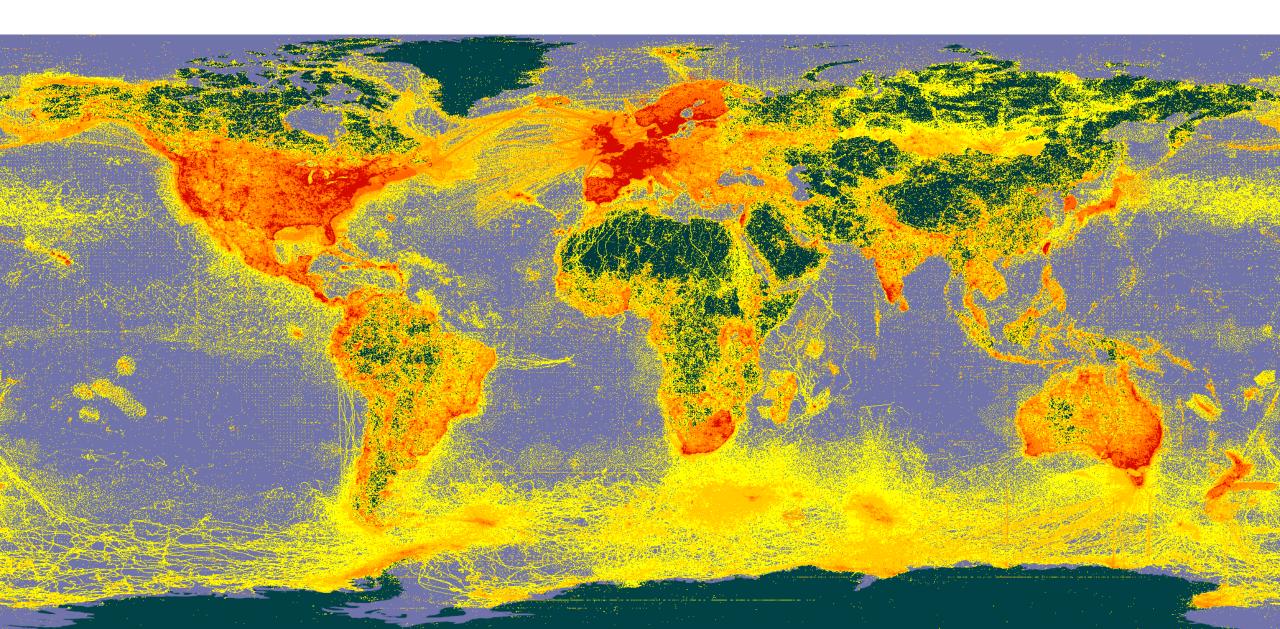
Voluntary collaboration through Memorandum of Understanding

Participant nodes, Secretariat in Copenhagen, DK

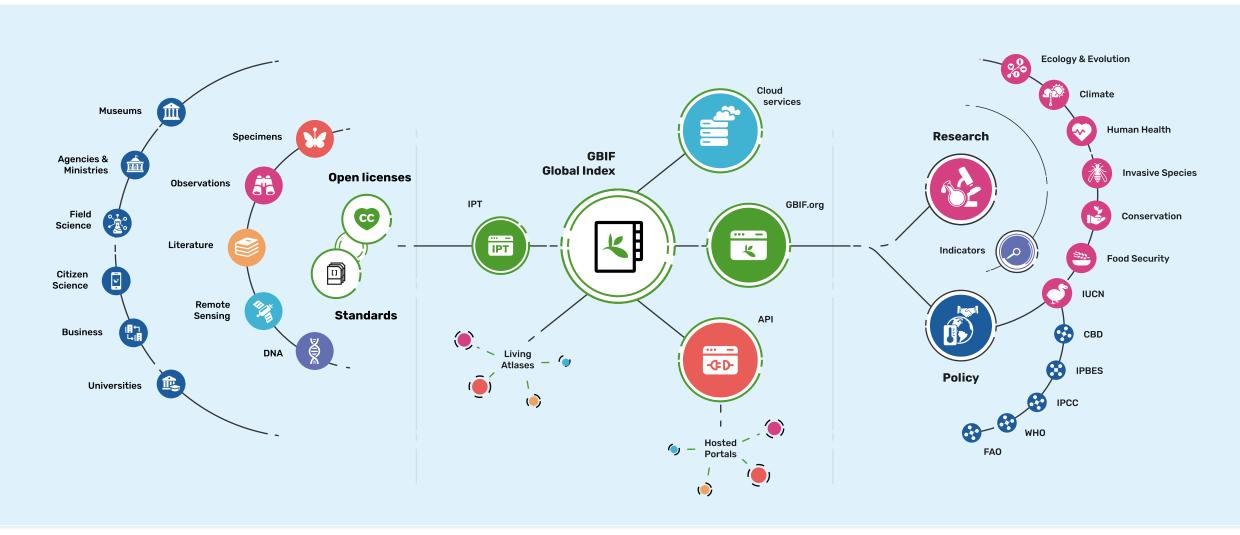




DATA FROM THE GBIF NETWORK 30 Sept 2021

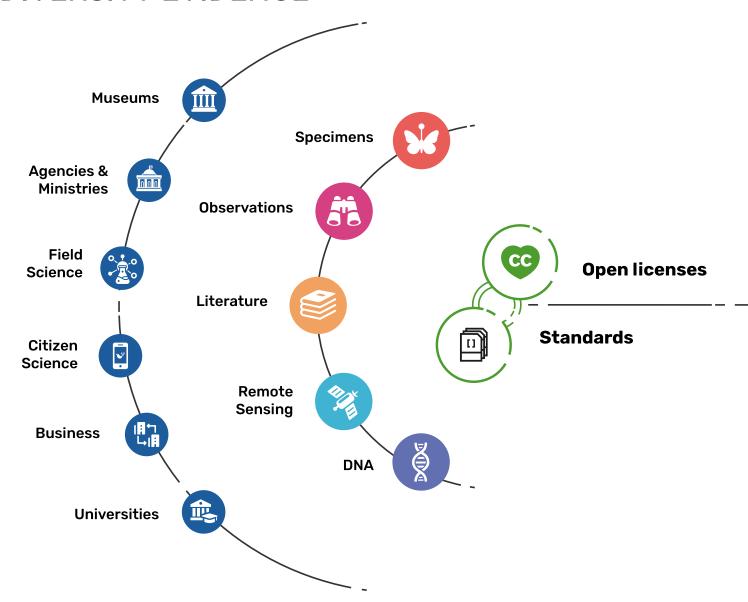


PROVIDING BIODIVERSITY EVIDENCE FOR RESEARCH AND POLICY



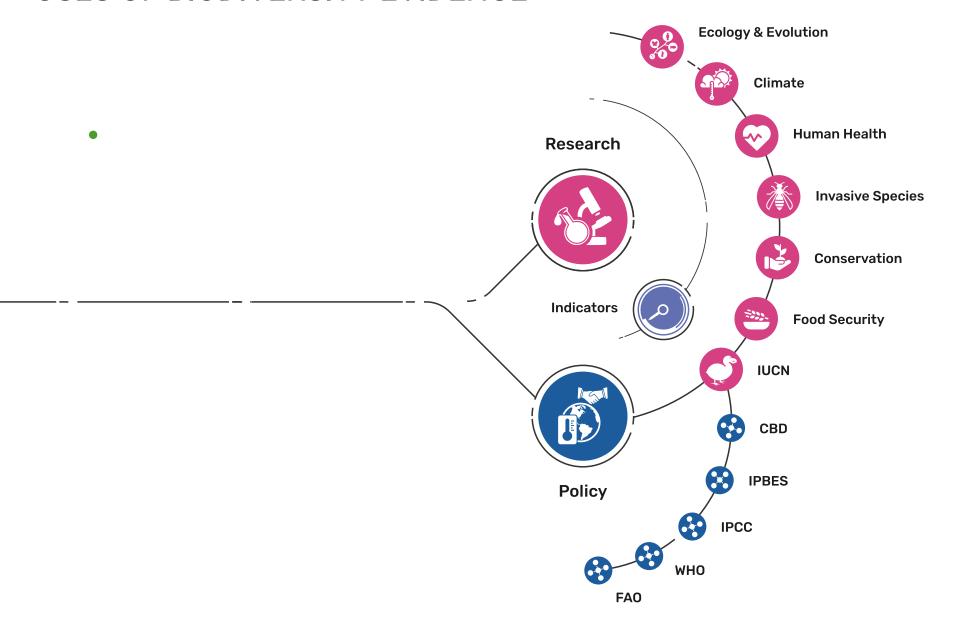


SOURCES OF BIODIVERSITY EVIDENCE



ACCESS TO BIODIVERSITY EVIDENCE Cloud services **GBIF Global Index** IPT **GBIF.org** IPT API Living Atlases – (**-C**-D-Hosted ~ **Portals**

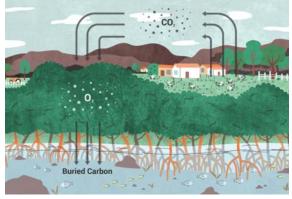
USES OF BIODIVERSITY EVIDENCE



RESEARCH USES OF DATA FROM THE GBIF NETWORKSUPPORTING RESEARCH AND SUSTAINABLE DEVELOPMENT









Conservation

- Protected areas
- Key biodiversity areas
- Threatened species
- Monitoring and targeting invasive species

Food security

- Crop wild relatives
- In situ and ex situ conservation of genetic diversity
- Pollination by wild species
- Fisheries planning

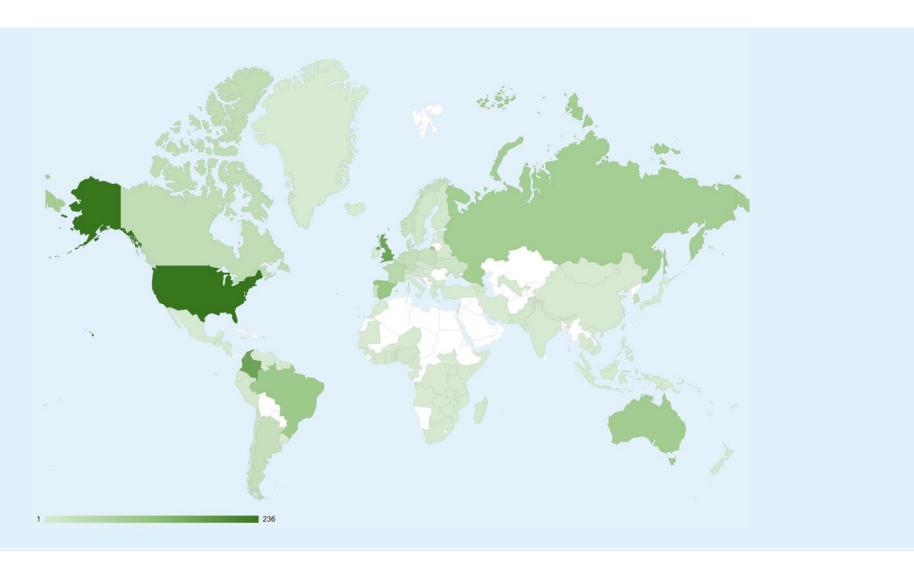
Climate change

- Modelling impacts on species ranges
- Adaptation strategies
- Mitigation benefits, risks

Human health

- Tracking disease risk based on shifting distribution of vectors, hosts and reservoirs
- Medicinal plants
- Hazards e.g. snakebite

GBIF NETWORK OF DATA PUBLISHING INSTITUTIONS 30 Sept 2021



countries with institutions sharing data through GBIF

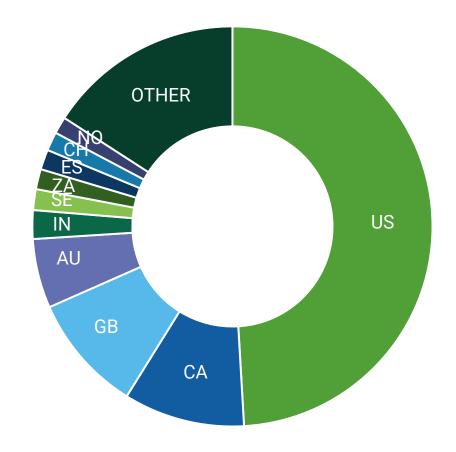
| Top 10 countries: number of data publishers | | | | |
|---|--------------------|-----|--|--|
| 1 | United States | 236 | | |
| 2 | Colombia | 166 | | |
| 3 | United Kingdom | 164 | | |
| 4 | Spain | 109 | | |
| 5 | Brazil | 100 | | |
| 6 | Australia | 93 | | |
| 7 | Russian Federation | 89 | | |
| 8 | France | 55 | | |
| 9 | Canada | 41 | | |
| 10 | Germany | 38 | | |
| 10 | Netherlands | 38 | | |



OCCURRENCES PUBLISHED BY COUNTRY Year-to-date, 30 Sept 2021

| Year-to-date 2021 to date | | 2020 total | 2020 rank | |
|---------------------------|------------------------|-------------|-------------|----|
| 1 | United States | 123,949,249 | 104,951,678 | 1 |
| 2 | Canada | 24,721,754 | 13,595,190 | 5 |
| 3 | United Kingdom | 24,058,962 | 19,375,254 | 2 |
| 4 | Australia | 14,152,637 | 6,458,840 | 11 |
| 5 | India | 5,849,494 | 4,860,801 | 12 |
| 6 | Sweden | 4,263,134 | 10,821,710 | 8 |
| 7 | South Africa | 4,104,573 | 1,707,223 | 18 |
| 8 | Spain | 4,075,780 | 12,829,298 | 7 |
| 9 | Switzerland | 3,829,111 | 9,028,709 | 9 |
| 10 | Norway | 3,469,498 | 2,813,393 | 10 |
| 0 | THER COUNTRIES + AREAS | 40,095,779 | 82,194,433 | |
| | TOTAL | 252,569,971 | 268,831,632 | |

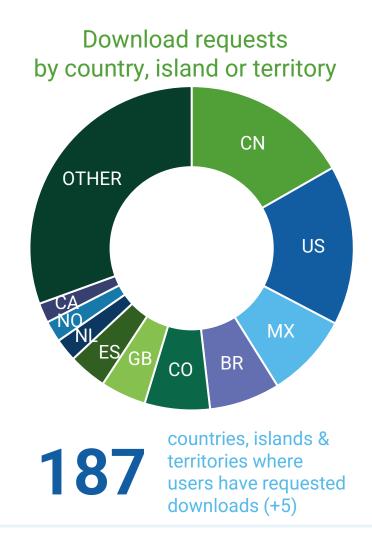
Occurrences published in 2021





DATA DOWNLOAD REQUESTS Year-to-date, 30 Sept 2021

| Year-to-date | | 2021 to date | 2020 total | 2020 rank |
|--------------|-------------------------|--------------|------------|-----------|
| 1 | China | 32,414 | 26,785 | 2 |
| 2 | United States | 24,552 | 29,392 | 1 |
| 3 | Mexico | 16,352 | 24,123 | 3 |
| 4 | Brazil | 13,669 | 16,274 | 4 |
| 5 | Colombia | 12,597 | 13,501 | 5 |
| 6 | United Kingdom | 8,803 | 9,610 | 7 |
| 7 | Spain | 7,400 | 8,981 | 8 |
| 8 | Netherlands | 4,431 | 2,215 | 21 |
| 9 | Norway | 4,111 | 1,691 | 24 |
| 10 | Canada | 3,833 | 5,316 | 11 |
| | OTHER COUNTRIES + AREAS | 59,162 | 72,153 | |
| | TOTAL | 193,619 | 224,402 | |

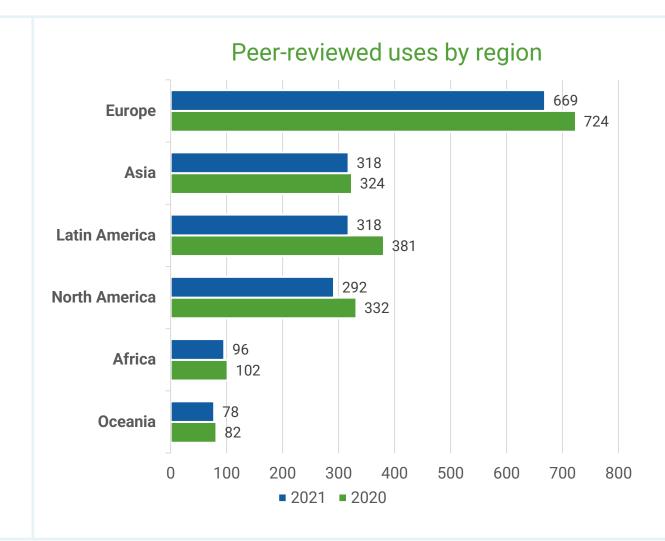




DATA USE IN PEER-REVIEWED JOURNALS Year-to-date, 30 Sept 2021

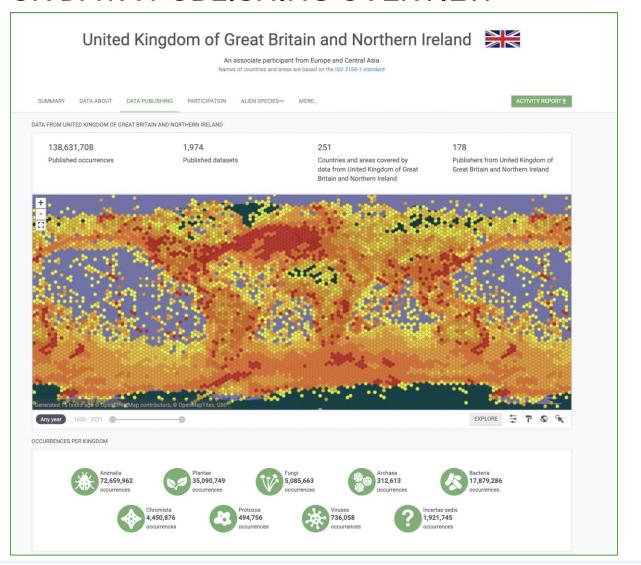
Peer-reviewed uses by country

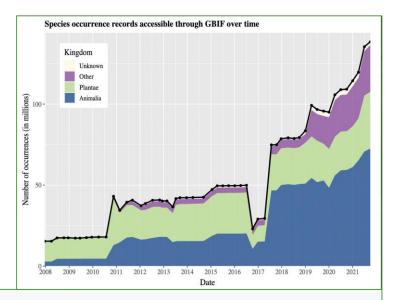
| Year-to-date | | 2021 to date | 2020 total | 2020 rank |
|--------------|----------------|--------------|------------|-----------|
| 1 | United States | 245 | 268 | 1 |
| 2 | China | 159 | 168 | 2 |
| 3 | Brazil | 102 | 123 | 3 |
| 4 | Germany | 97 | 85 | 6 |
| 5 | Mexico | 94 | 93 | 5 |
| 5 | United Kingdom | 94 | 109 | 4 |
| 7 | Spain | 70 | 77 | 7 |
| 8 | Australia | 54 | 56 | 9 |
| 9 | France | 50 | 53 | 10 |
| 10 | Canada | 47 | 64 | 8 |

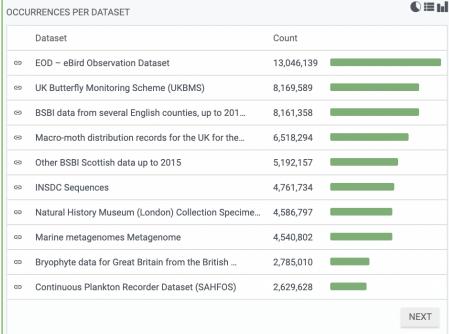




UK DATA PUBLISHING OVERVIEW





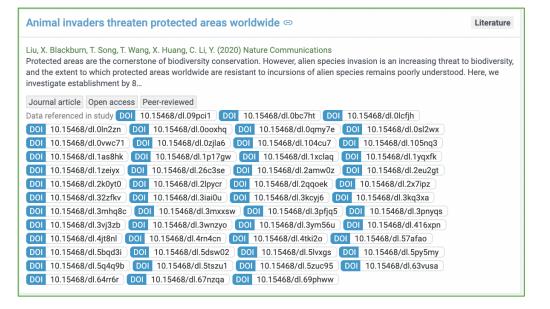




GLOBAL USES OF UK DATA

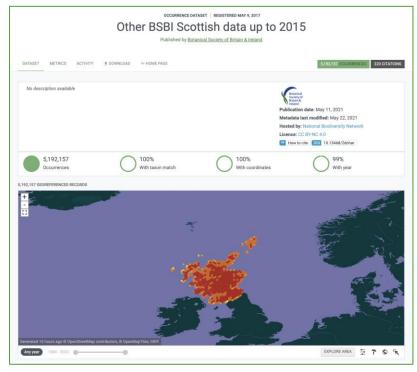




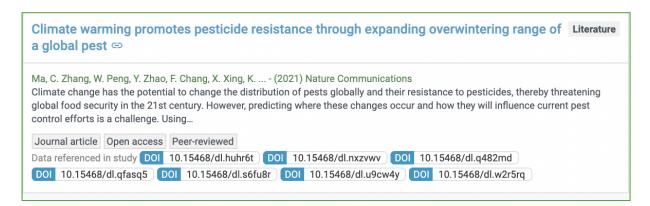


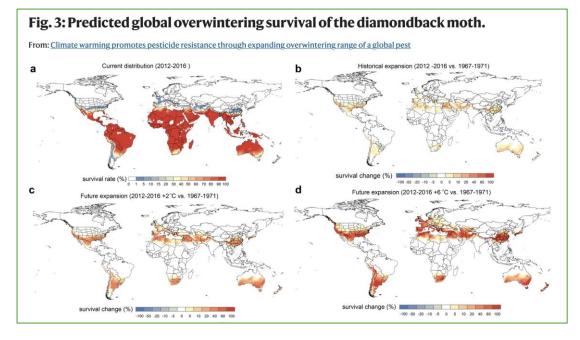


GLOBAL USES OF UK DATA









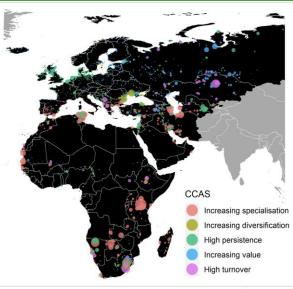


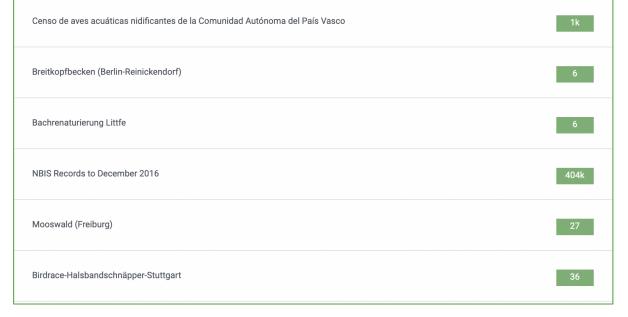
GLOBAL USES OF UK DATA





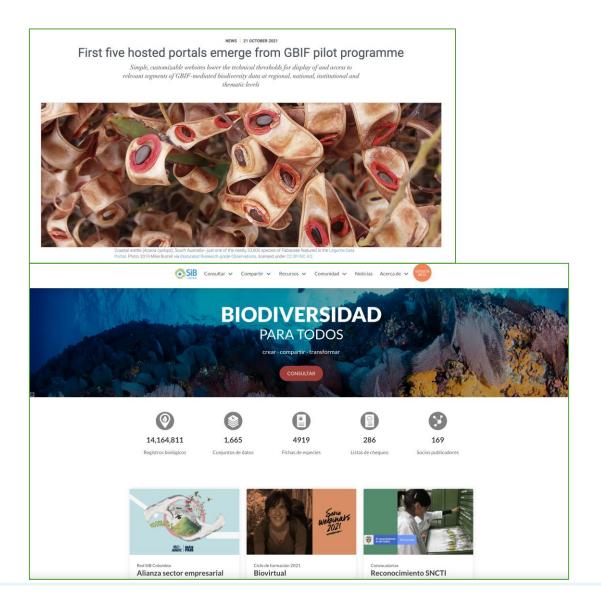


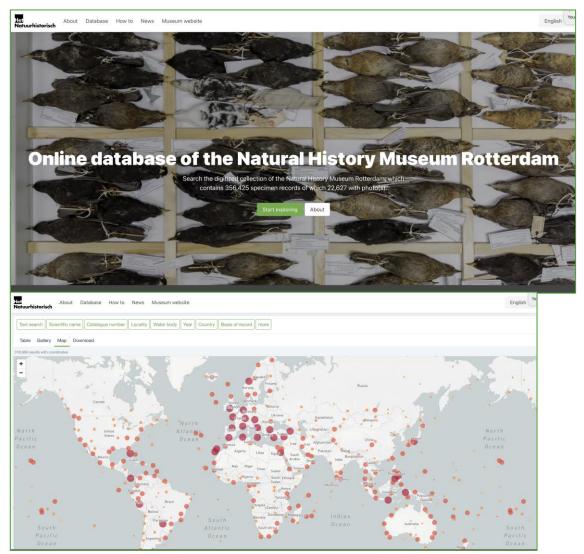






GBIF DEVELOPMENT AREA: HOSTED PORTALS FOR REGIONS, COUNTRIES, INSTITUTIONS







THANK YOU!

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