



Global Biodiversity
Information Facility



BIODIVERSITY DATA PUBLICATION AND RE-USE

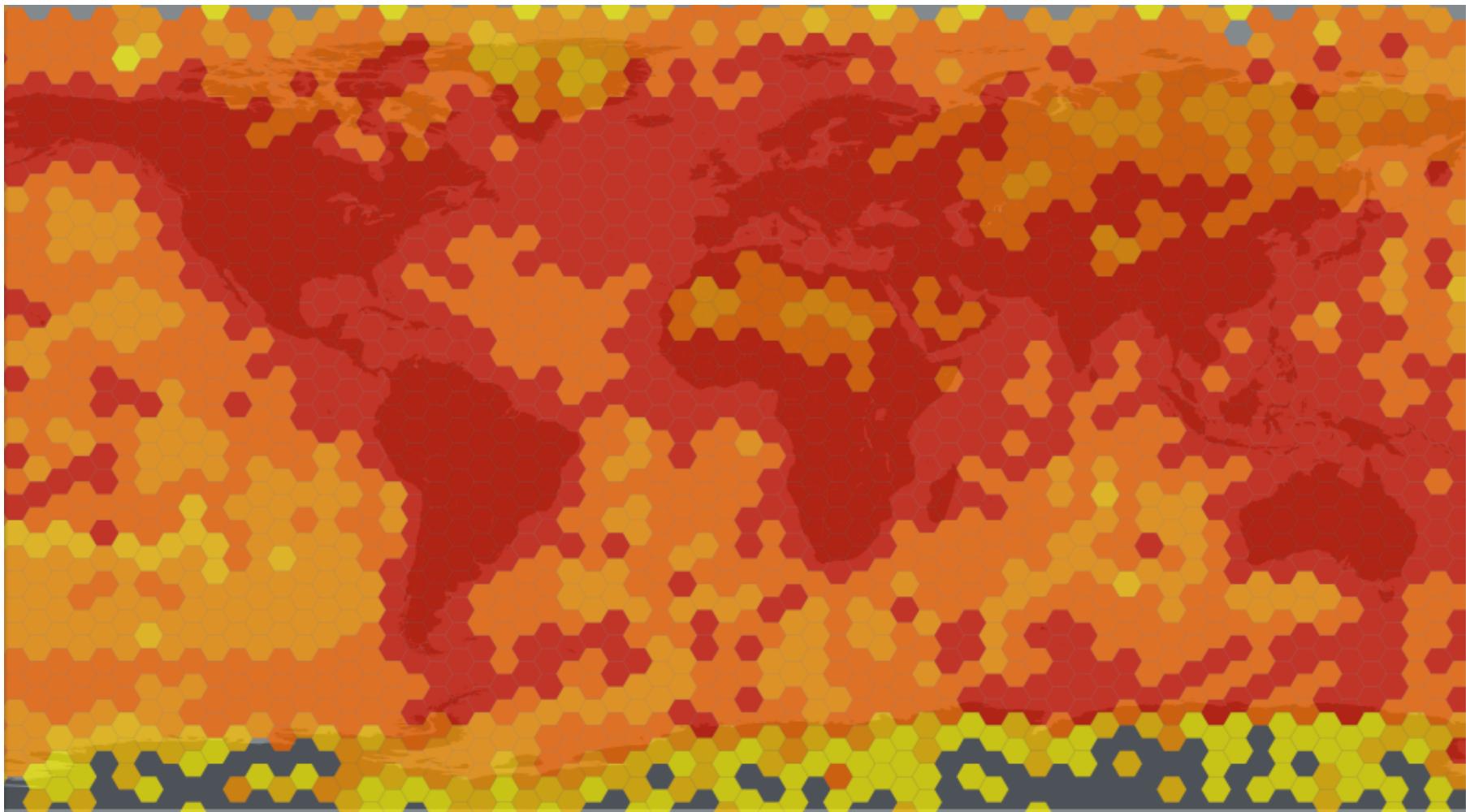


Belmont Forum Workshop, 28 April 2017
by Andre Heughebaert
Nodes Committee Chair
Node Manager for Belgium

OECD Origins of GBIF

1999	OECD Committee for Scientific and Technological Policy at Ministerial Level in Paris on 22-23 June 1999 endorsed the recommendation of the Biodiversity Informatics Subgroup: “An international mechanism is needed to make biodiversity data and information accessible worldwide”
2001	GBIF was established in March 2001. Initial 5 years Memorandum of Understanding opened for signature
2003	Secretariat established in Copenhagen under country host agreement with Denmark
2012	New MoU offers open-ended participation to countries, economies, inter-governmental or international organisations.

Data published through GBIF.org - density map

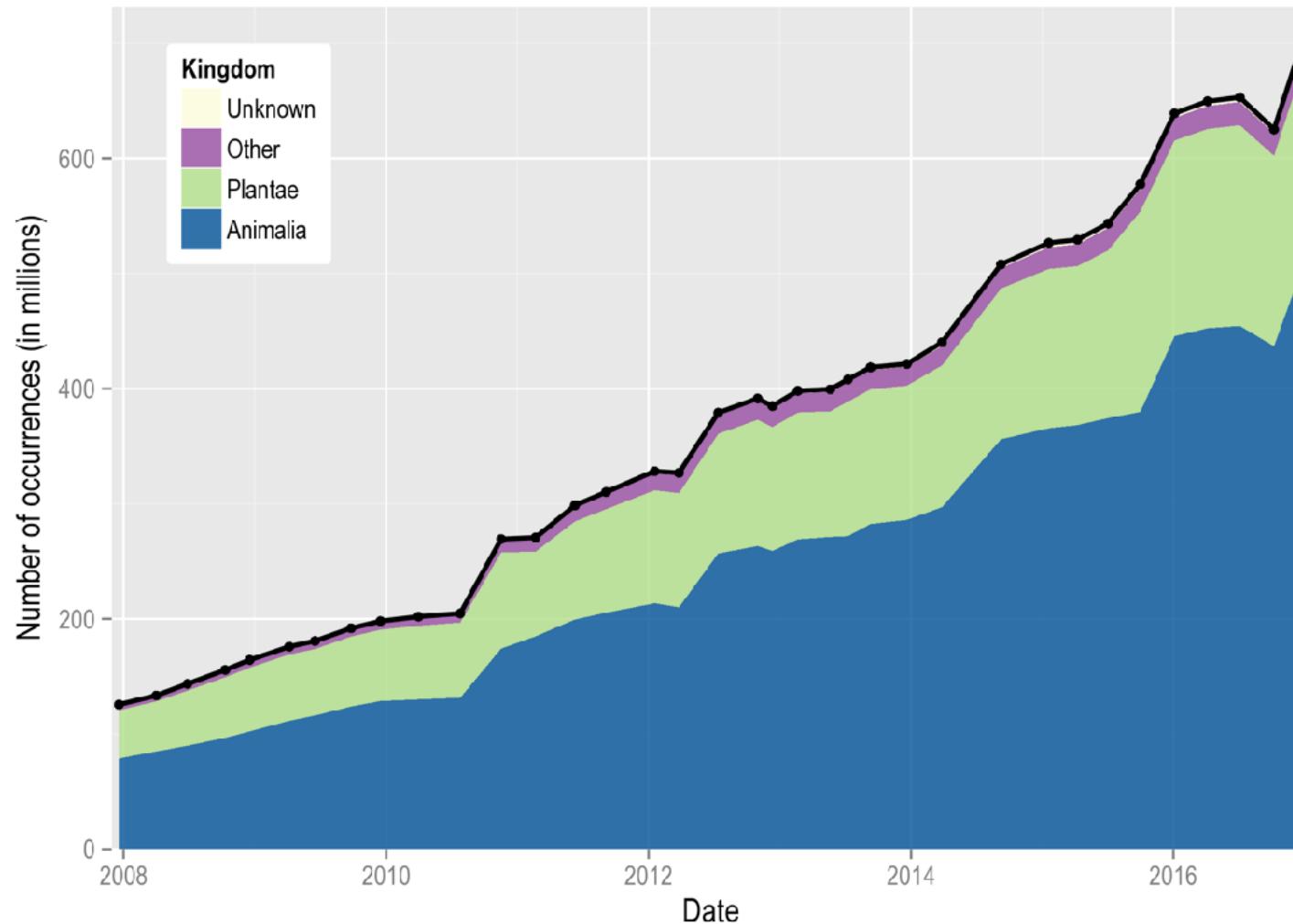


GBIF by numbers (April 2017)

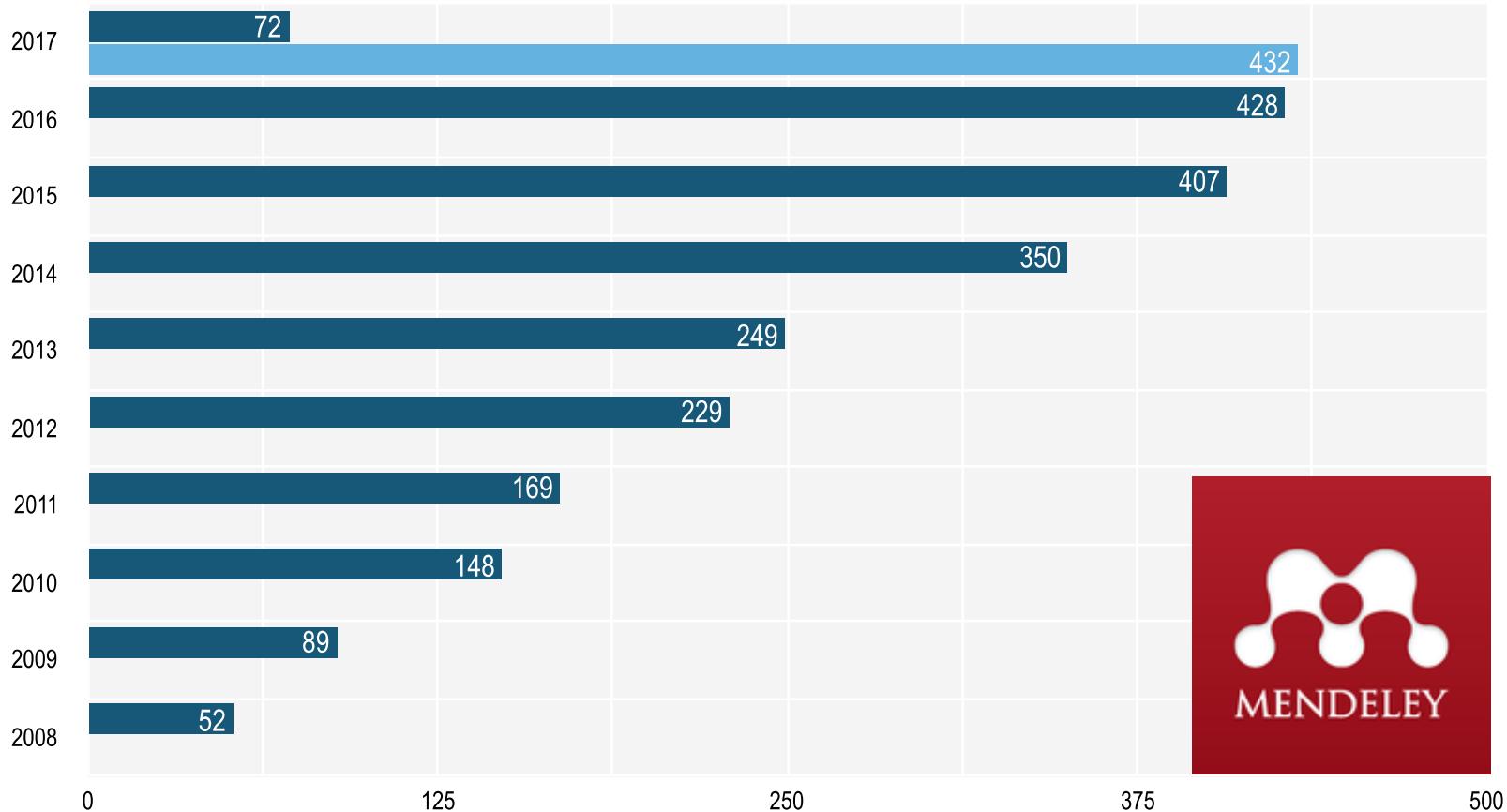
Occurrence records	726,983,081
Species	1,643,948
Datasets	35,157
Publishers	888
Participant Countries	54
Participant Organisations	39
Records downloaded per month	26,7 billion
Unique visitors per month	105,729

Species occurrence records, over time

Species occurrence records accessible through GBIF over time

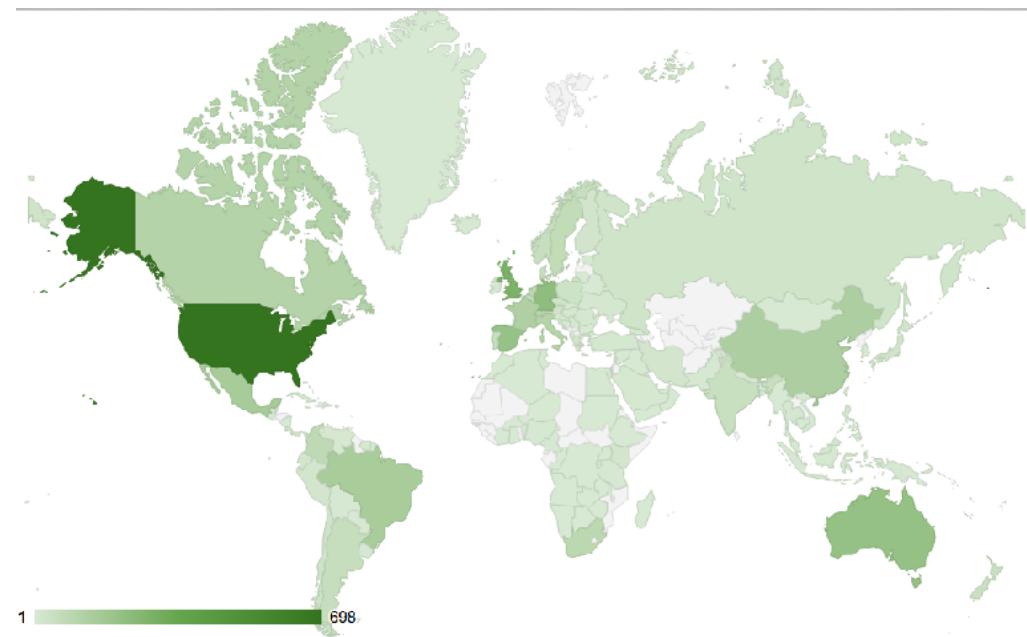


Peer-reviewed publications using GBIF-mediated data

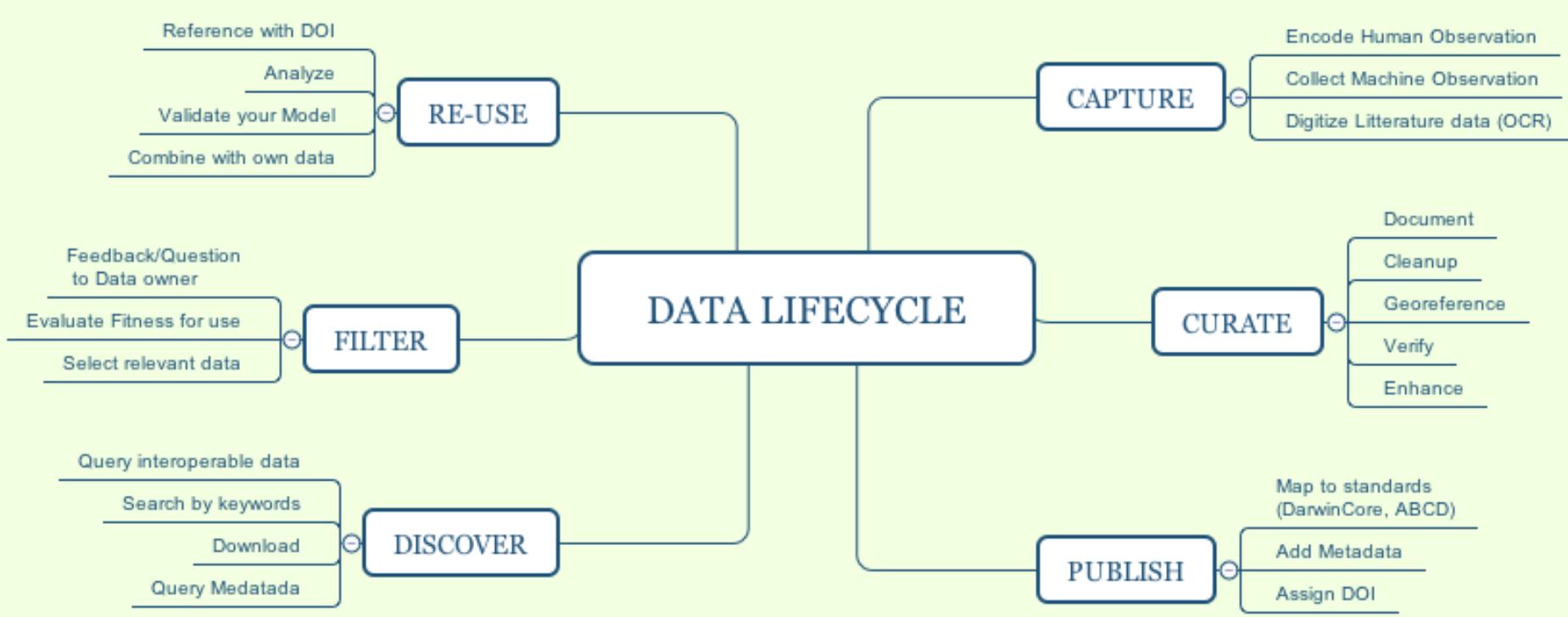


Location of GBIF enabled research papers

Country	Papers
United States	698
United Kingdom	283
Germany	227
Australia	208
Spain	201
Mexico	155
Brazil	149
China	136
France	126
Canada	111
Italy	108
South Africa	92
Colombia	84



From Data capture to Re-use, a complete lifecycle



GBIF way to Open Biodiversity Data

Attribution 	Digital Object Identifiers assigned to: <ul style="list-style-type: none">Published DatasetsUser DownloadsData papers
Licensing 	Publishers choose appropriate license: <ul style="list-style-type: none">CC-0CC-BYCC-BY-NC
Standards 	Data: DarwinCore, ABCD, DublinCore Metadata: Ecological Metadata Language (EML)
Accessibility 	GBIF.org global data portal <ul style="list-style-type: none">interoperable queriesinteractive mapsfree downloadsweb services
Publication	Integrated Publishing Toolkit (IPT), BioCASE, Spreadsheet templates

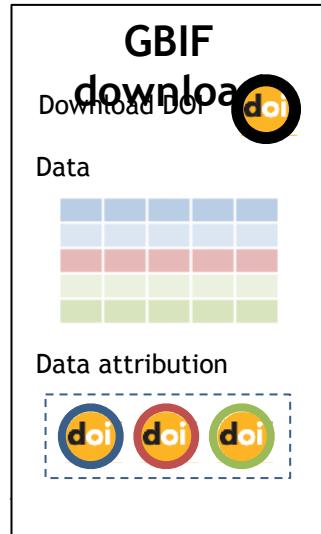
Digital Object Identifiers



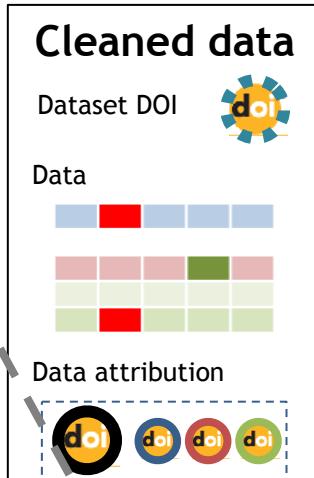
Researcher



User searches for data through GBIF.org



User cleans data



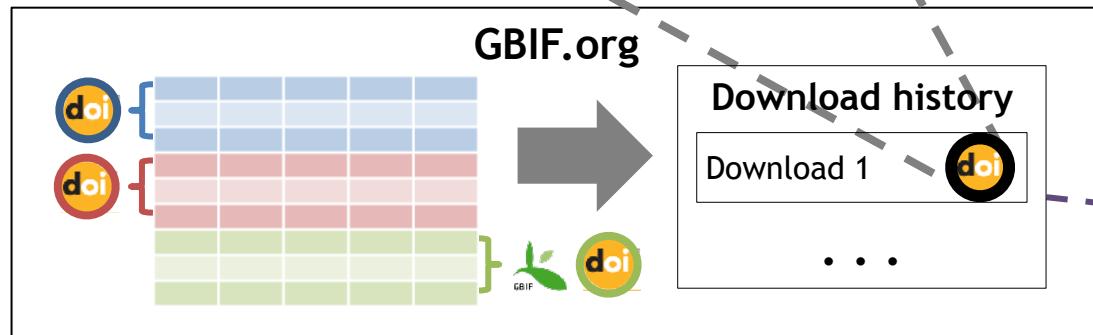
User publishes paper



Published paper can give resolvable links to GBIF download and/or to cleaned dataset

User deposits cleaned dataset in a repository and gets DOI for dataset

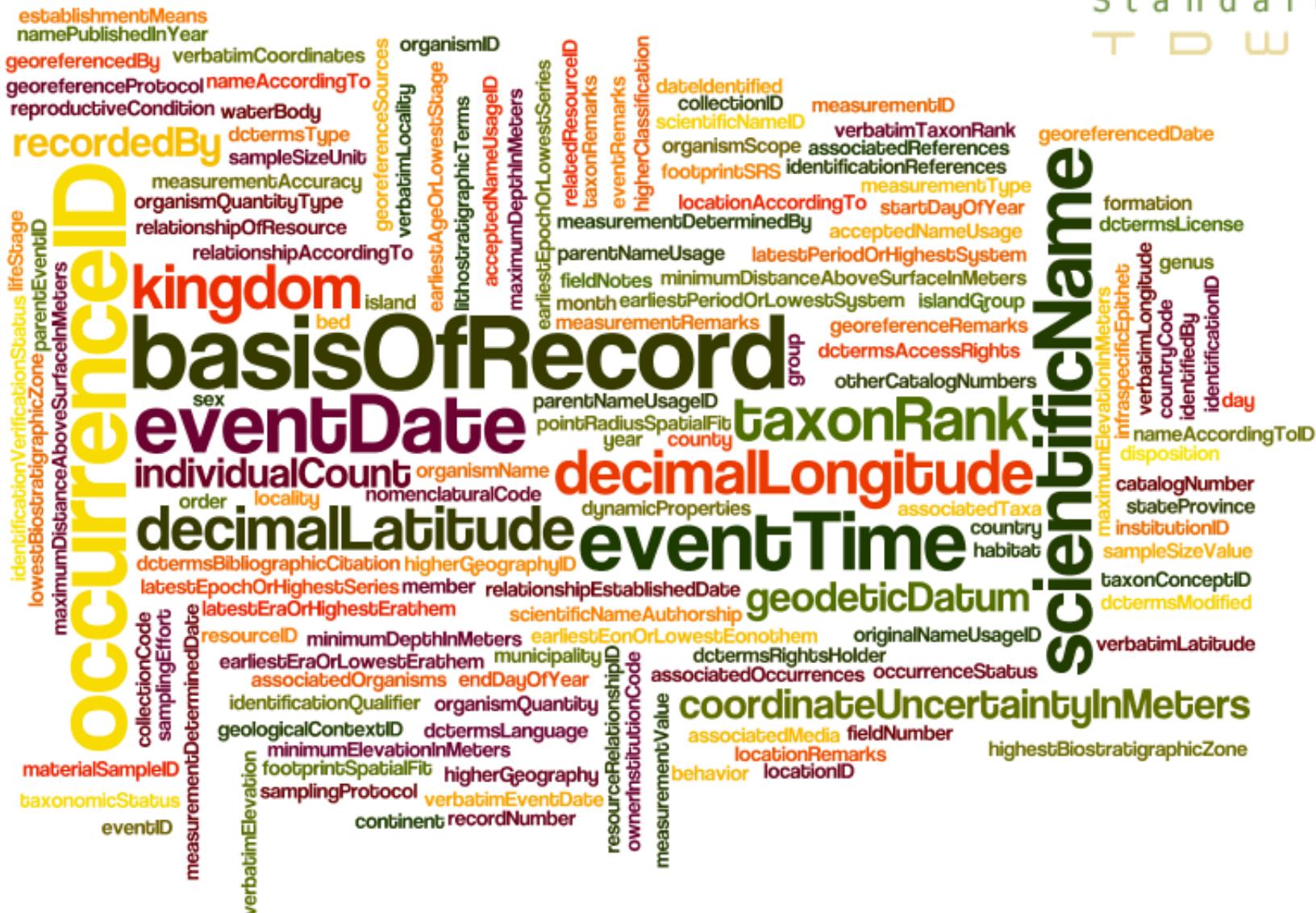
DataONE



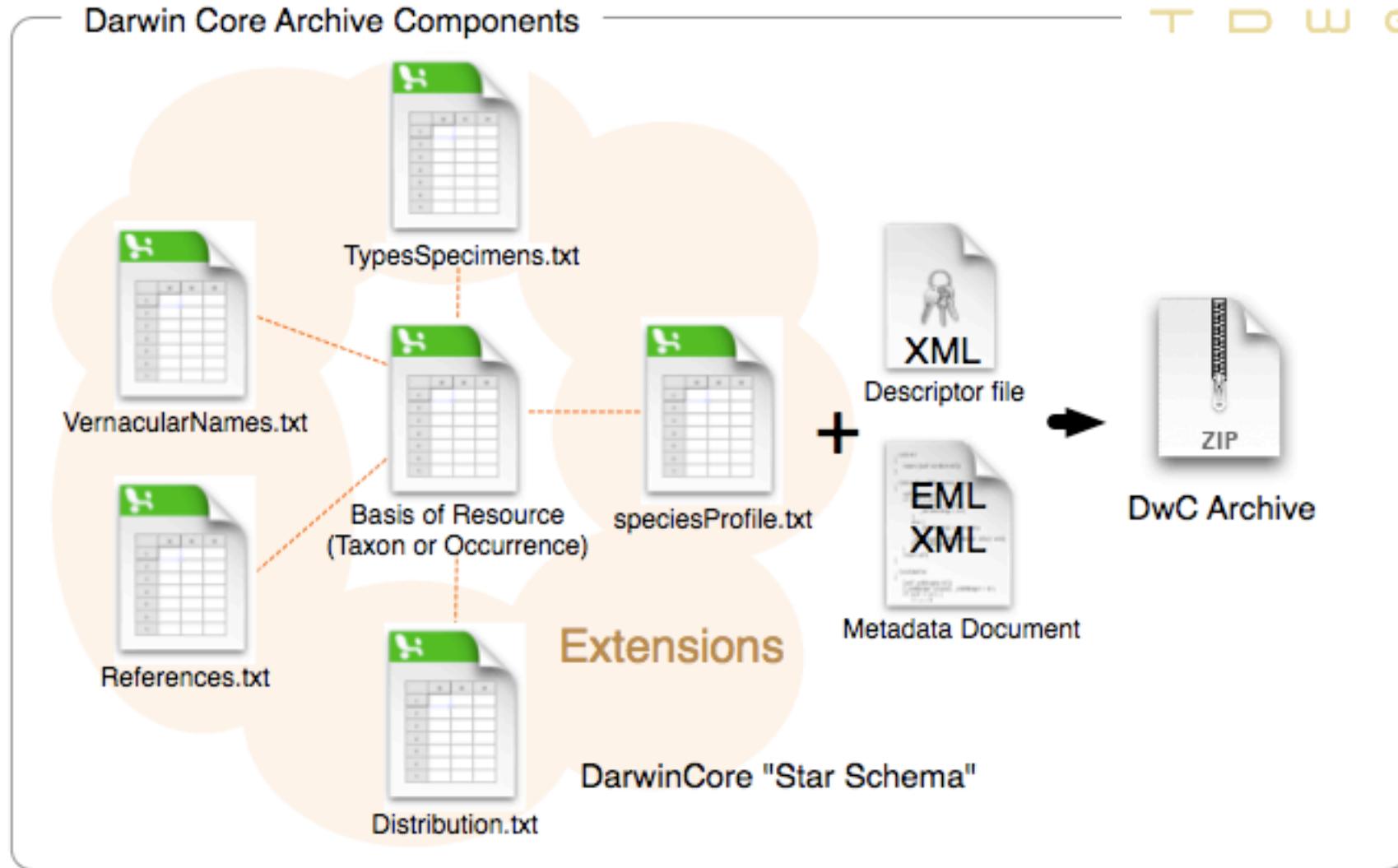
GBIF assigns DOIs to data downloads

DataCite Denmark

Darwin Core - Terms & Semantic



Darwin Core - Archive format



Open Source Data Management/Visualisation Tools



GBIF.org

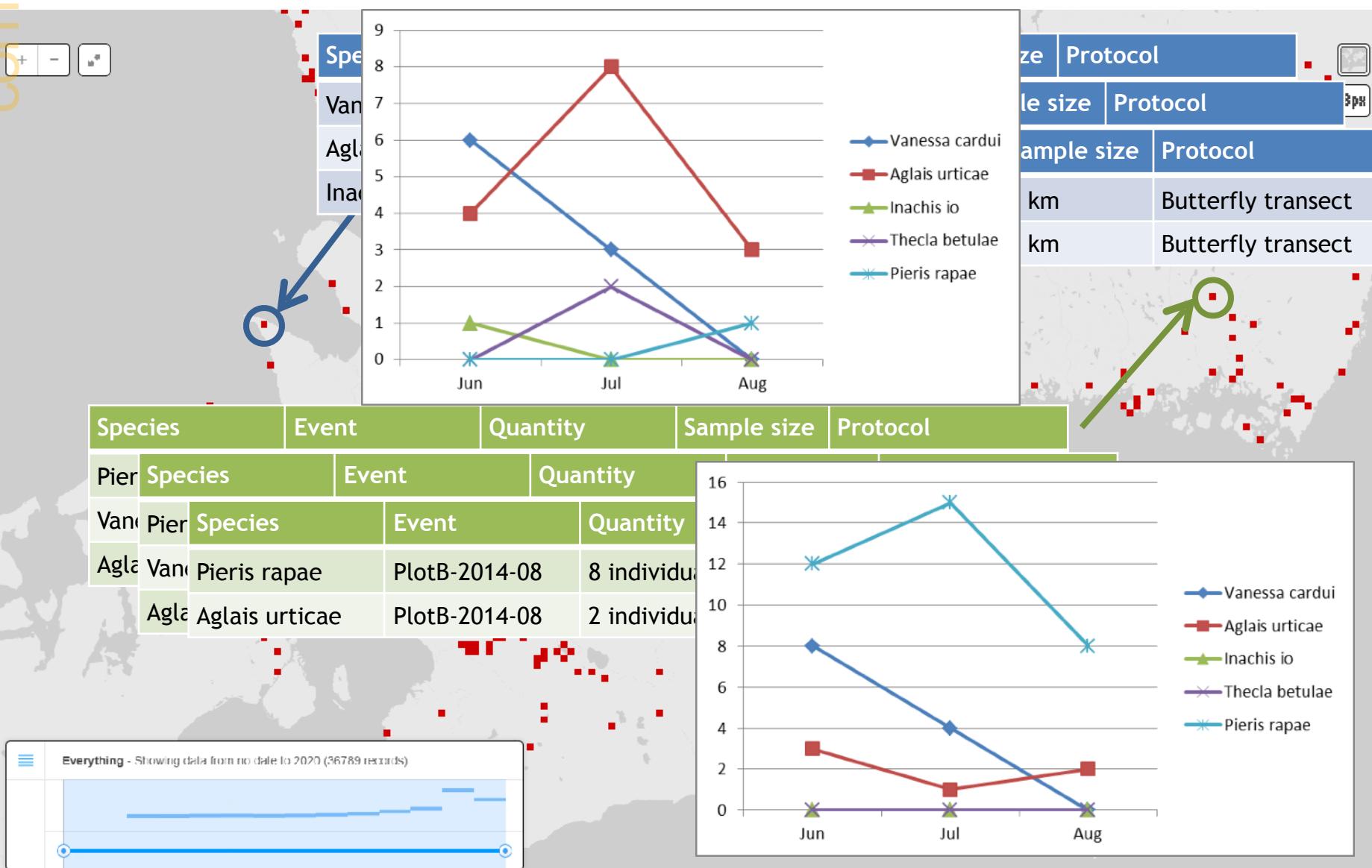
Building a community of practice



- Biodiversity Information for Development (BID) - a four-year programme to facilitate biodiversity data mobilisation and use in Africa, Caribbean and Pacific



Extending standards to sampling-event data



TOOLS adoption - Living Atlases (National Data Portal)

PORTAL DE DATOS DE BIODIVERSIDAD
Nodo Nacional de Información en Biodiversidad

NODO INSTITUCIONES, COLECCIONES Y PROYECTOS JUEGOS DE DATOS MAPAS GEOREFERENCIADOS BUSCAR INVESTIGACIONES ANEXA EXPLORAR POR ÁREA

Aprenda cómo consultar datos de biodiversidad.

Buscar en el portal de datos Búsqueda avanzada

Información accesible a través del Portal de Datos de GBIF.ES.

INSTITUCIONES 14.370.951
JUEGOS DE DATOS 219
INVESTIGACIONES 85

Instituciones, colecciones y proyectos Juegos de datos Datos geo referenciados

Atlas Of Living Australia ALA Apps ALA Help Search the Atlas... Search

Search the Atlas ... Search

Explore the Atlas of Living Australia

Australia's species Species by location Collections

Search for Australian flora and fauna species by common, scientific name or search by category. Search by pre-defined regions, or enter an address or location to find the recorded species nearby. Learn about the institution, the collections they hold and view records of specimens that have been databased.

Sharing biodiversity knowledge Contributed by Australia's academic, scientific, environmental communities and you. Get involved

Consultar los 204.300 registros de presencia

BÚSQUEDA AVANZADA

INVESTIGACIONES

DATOS GEOREFERENCIADOS

CONJUNTOS DE DATOS

COLECCIONES

NATIONAL UNIVERSITY OF IRELAND, NUI GALWAY NUI GALWAY CONSERVATION BIOLOGY PORTAL

SEARCH Q

als atlas of living scotland

SPECIES LOCATIONS HABITATS ANALYSIS SET INVOLVED DATA AND PARTNERS AREA

The Atlas of Living Scotland is the country's largest collection of biodiversity information

Search the Atlas of Living Scotland

User settings

OUR AREA

ANALYSE DATA

Underline your own analysis of atlas data

Search the Atlas ...

You may see intermittent outages, slowdowns or formal changes with species pages, names, occurrence record views and search results for the next few days, while we work on migration to new components of the system.

Globel Biodiversity Information Systeme Mondial d'Information sur la Biodiversité

Accès / Consulter / Nodod Francés du GBIF

LES DONNÉES FRANÇAISES SUR LA BIODIVERSITÉ

CONSULTER

CONSULTER

Recherche avancée

Q

Informations sur les collections françaises sur la biodiversité

Accès aux données d'occurrences et informations sur les lieux de données publiées par les institutions

Portail national GBIF France

DATOS GEOREFERENCIADOS CONJUNTOS DE DATOS COLECCIONES

Sharing biodiversity knowledge Contributed by Australia's academic, scientific, environmental communities and you. Get involved

Consultar los 204.300 registros de presencia

BÚSQUEDA AVANZADA

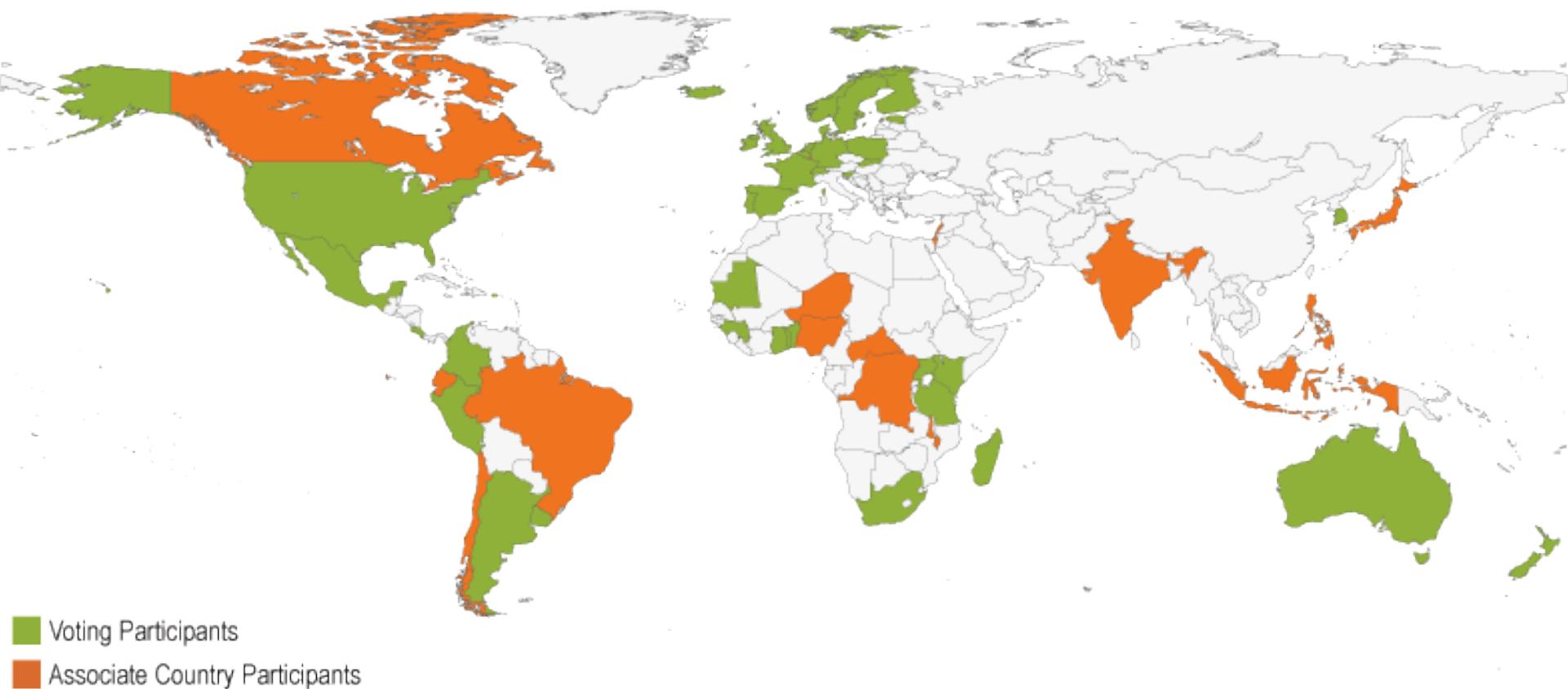
INVESTIGACIONES

DATOS GEOREFERENCIADOS

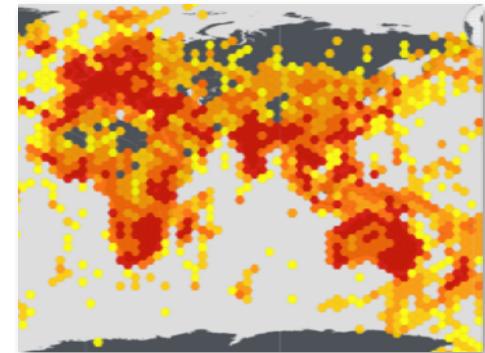
CONJUNTOS DE DATOS

COLECCIONES

Current national participants



Latest news



Final BID call for proposals seeks projects from sub-Saharan Africa

First stage of two-stage selection process under the EU-funded data mobilization programme in

- [English](#)
- [Français](#)
- [Português](#)

Poland elevates commitment, becomes GBIF Voting Participant

Long-time Associate Participant is 39th full national member and 19th among European countries

[Read more](#)

63.8 million new records increase eBird total to 275 million

Annual dataset refresh grows by 30 per cent, with biggest gains in Asia and Europe

[Read more](#)

THANK YOU!



This presentation is re-usable

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