



NLBIF relatiedag - 7 maart 2023

Niels Raes

NLBIF Node Manager

PROGRAMMA 2023

Tijd	Activiteit		Spreker
9:30 - 10:00	Inloop, ontvangst & koffie		
10:00 - 10:10	Welkom		Niels Raes Node manager
10:10 - 11:00	• Ontwikkelingen NLBIF • GBIF resultaten 2022 GBIF strategisch meerjarenplan 2023-2027 GBIF jaarlijkse werkprogramma 2023 • Terugtreedende en nieuwe NLBIF Commissie-leden • Opening NLBIF-call 2023		
11:00 - 11:30	Koffie		
11:30 - 11:50	Europese biodiversiteit projecten	BGE (Biodiversity Genomics Europe)	Rutger Vos
11:50 - 12:10		MAMBO (Modern Approaches to the Monitoring of BiOdiversity)	Vincent Kalkman
12:10 - 12:30		BioDT (Biodiversity Digital Twin)	Sharif Islam
12:30 - 13:30	Lunch		
13:30 - 14:30	Workshops	Workshop COL checklistbank & beschermde soortenlijsten	Olaf Bánki
		GBIF data gebruik via gbif.org en de API & Key Performance Indicators (KPIs): Data downloads & Dataset citaties	Niels Raes
14:30 - 15:00	Koffie		
15:00 - 15:15	MOVE2GBIF – GPS-zendergegevens van dieren mobiliseren naar Movebank en GBIF		Peter Desmet
15:15 - 15:30	Automatische beeldherkenning als instrument voor museumcollecties		Sander Pieterse
15:30 - 15:45	Lange-termijn dynamiek van lichaamsgrootte bij vogels		Henk van der Jeugd
15:45 - 16:00	(Ook) Mariene data boven water – GBIF en de Open Data Viewer		Barbara Schoute
16:00 - 16:15	Afsluiting		Niels Raes
16:15 - 17:30	Borrel		

NLBIF RELATIEDAG – 7 MAART 2023

- Ontwikkelingen NLBIF
- GBIF resultaten 2022
- GBIF strategisch meerjarenplan 2023-2027
- GBIF werkprogramma 2023
- Terugtrekkende en nieuwe NLBIF commissieleden
- Opening NLBIF-call 2023



ONTWIKKELINGEN NLBIF 2022

- NLBIF-call 2022 heeft 10 van de 20 aanvragen toegekend

NLBIF - Project code	Organisatie - Project code	Organisatie	Project titel
nlbif2022.014		The Habitat Foundation	GBIF Viewer - an open web-based biodiversity conservation decision-making tool for policy and governance
nlbif2022.015		The Habitat Foundation	The biodiversity of the Balkans in GBIF
nlbif2022.011		WER	Historische Herbarium data Caribisch Nederland
nlbif2022.006		AKN	Digitalisering historische legseldata van 150 vogelsoorten uit De Kempen
nlbif2022.018	OF22101-01	Regelink Ecologie & Landschap	Mobiliseren data vleermuisvangsten en telemetrie
nlbif2022.013		Observation International	Uitbreiding GBIF-datalevering Observation.org
nlbif2022.009		Teylers Museum	Data mobilisatie en capacity building bij Teylers Museum
nlbif2022.005		DuGOF	Feasibility study in Georgia to put Avian Biodiversity on the Map
nlbif2022.017		NIOO-KNAW	Use of long-term individual data on birds as a source of biodiversity information
nlbif2022.020		Courbois	Verborgen biodata

ONTWIKKELINGEN NLBIF 2022

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Lopende projecten



Verborgens biodata

Thema: Data
Titel: Verborgens biodata
Partner: Flora & Fauna Expert
Projectleider: Matthijs Courbois
Projectcode: nlbi2022.018

[Lees meer](#)



The biodiversity of the Balkans in GBIF

Thema: Data
Titel: The biodiversity of the Balkans in GBIF
Partner: De Habitat Stichting
Projectleider: Dennis Wansink
Projectcode: nlbi2022.015

[Lees meer](#)



GBIF Viewer: an open web-based biodiversity conservation decision-...

Thema: Data / infrastructuur
Titel: GBIF viewer
Partner: De Habitat Stichting, UNCG
Projectleider: Dennis Wansink
Projectcode: nlbi2022.014

[Lees meer](#)



Feasibility study in Georgia to put Avian Biodiversity on the Map

Thema: Participatie
Titel: Feasibility study in Georgia to put Avian Biodiversity on the Map
Partner: Dutch-Georgian Ornithological Foundation (Stichting DuGOF)
Projectleider: Gernant Magnin
Projectcode: nlbi2022.005

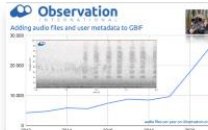
[Lees meer](#)



Data mobilisation en capacity building bij Teylers Museum

Onderwerp: Data / infrastructuur
Titel: Data mobilisation en capacity building bij Teylers Museum
Partner: Teylers Museum
Projectleider: Eulalia Gassó Miracle
Projectcode: nlbi2022.009

[Lees meer](#)



Uitbreiding GBIF-datalevering Observation.org

Onderwerp: Data / infrastructuur
Titel: Uitbreiding GBIF-datalevering Observation.org
Partner: Observation International
Projectleider: Dylan Verheul
Projectcode: nlbi2022.013

[Lees meer](#)

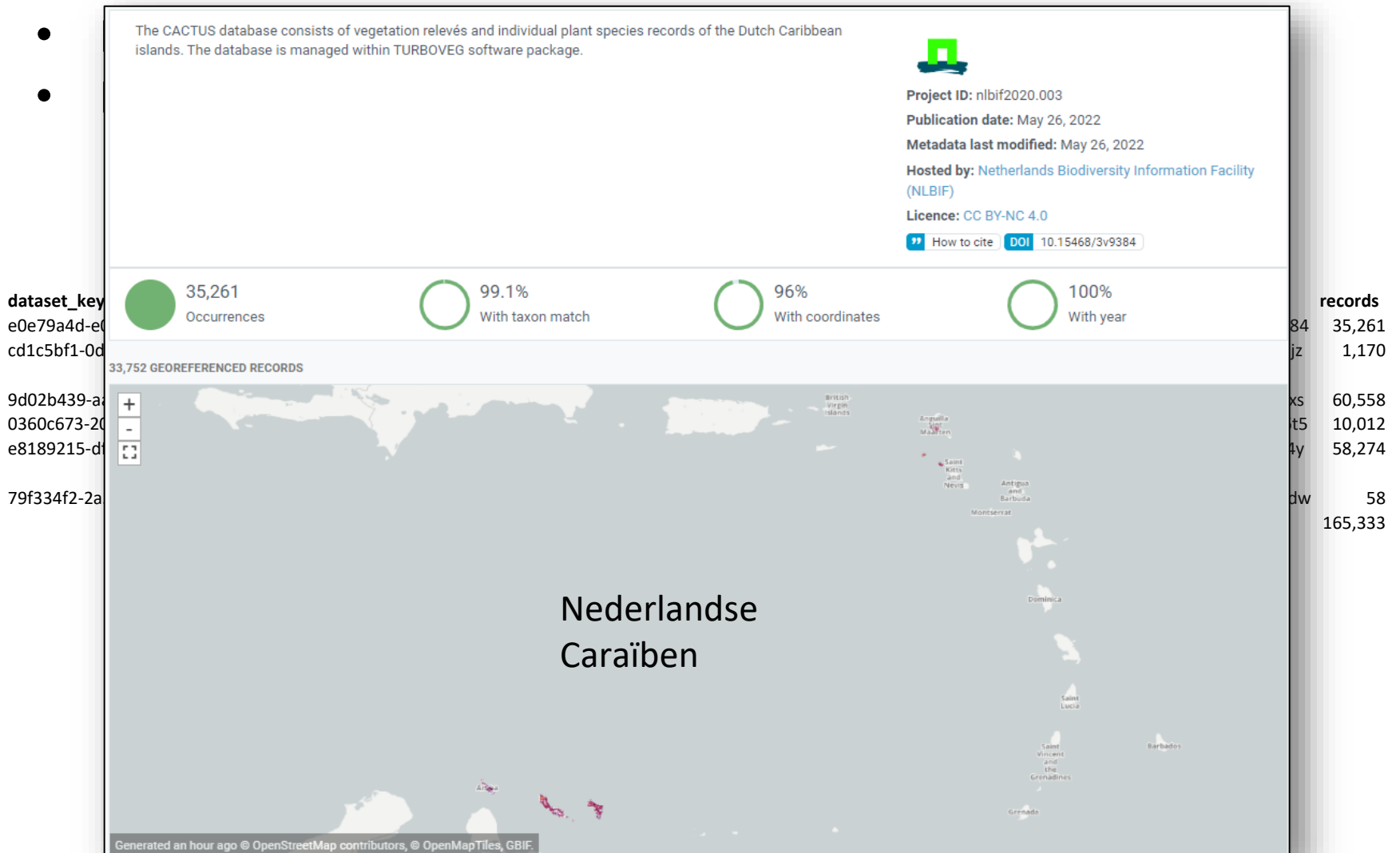
<https://www.nlbif.nl/projecten/>

ONTWIKKELINGEN NLBIF 2022

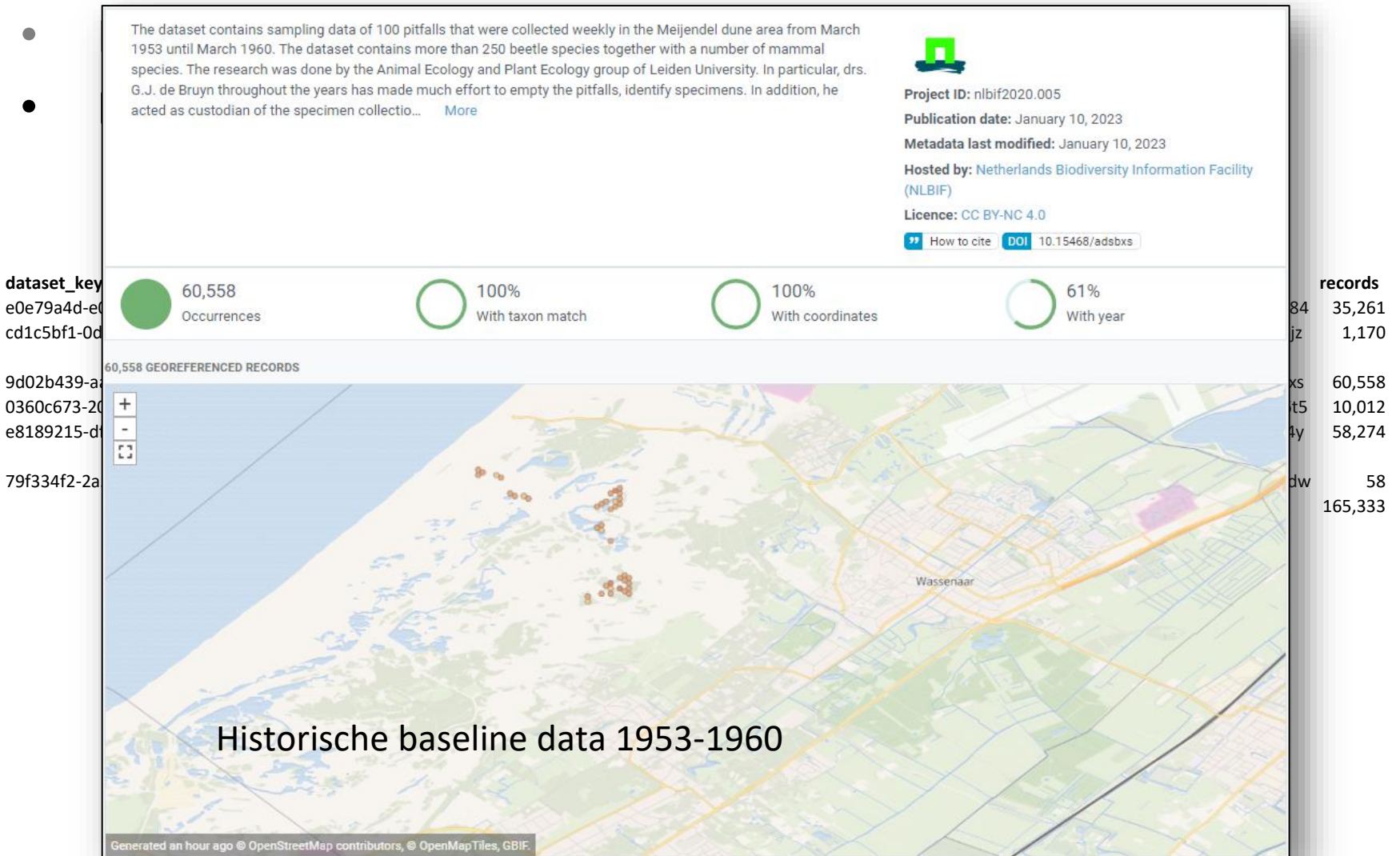
- NLBIF-call 2022 heeft 10 van de 20 aanvragen toegekend
- 6 nieuwe datasets toegevoegd

dataset_key	Publisher	title	license	type	doi	records
e0e79a4d-e0a8-42af-9013-0db194ac4fca	WER	Flora of the Dutch Caribbean Islands	CC_BY_NC_4_0	OCCURRENCE	10.15468/3v9384	35,261
cd1c5bf1-0d7a-447a-875a-919f22e325bb	UvA/IBED	Life MICA Biodiversity Surveys	CC0_1_0	OCCURRENCE	10.15468/qnynjz	1,170
	Biometris Wageningen Plant					
9d02b439-aa5c-4c22-b1d9-d27fbde9e3ee	Science group	Meijendel research 1953-1960	CC_BY_NC_4_0	SAMPLING_EVENT	10.15468/adsbxs	60,558
0360c673-20fc-420a-845a-05d20f185dcf	Bomenstichting	National Register of Monumental Trees	CC_BY_NC_4_0	OCCURRENCE	10.15468/uwt6t5	10,012
e8189215-df7b-4d63-85d8-1e202f09afba	Naturalis Biodiversity Center	Odonata observations from SE Asia	CC0_1_0	OCCURRENCE	10.15468/tc5n4y	58,274
		Stigmella stettinensis (Nepticulidae)				
79f334f2-2a53-4571-b1bc-9ffd078ff3cf	Naturalis Biodiversity Center	specimen data	CC0_1_0	OCCURRENCE	10.15468/hxqsdw	58
						165,333

ONTWIKKELINGEN NLBIF 2022



ONTWIKKELINGEN NLBIF 2022



ONTWIKKELINGEN NLBIF 2022

- NLBIF-call 2022 heeft 10 van de 20 aanvragen toegekend
- 6 nieuwe datasets toegevoegd
- 30M nieuwe records behaald



ONTWIKKELINGEN NLBIF 2022

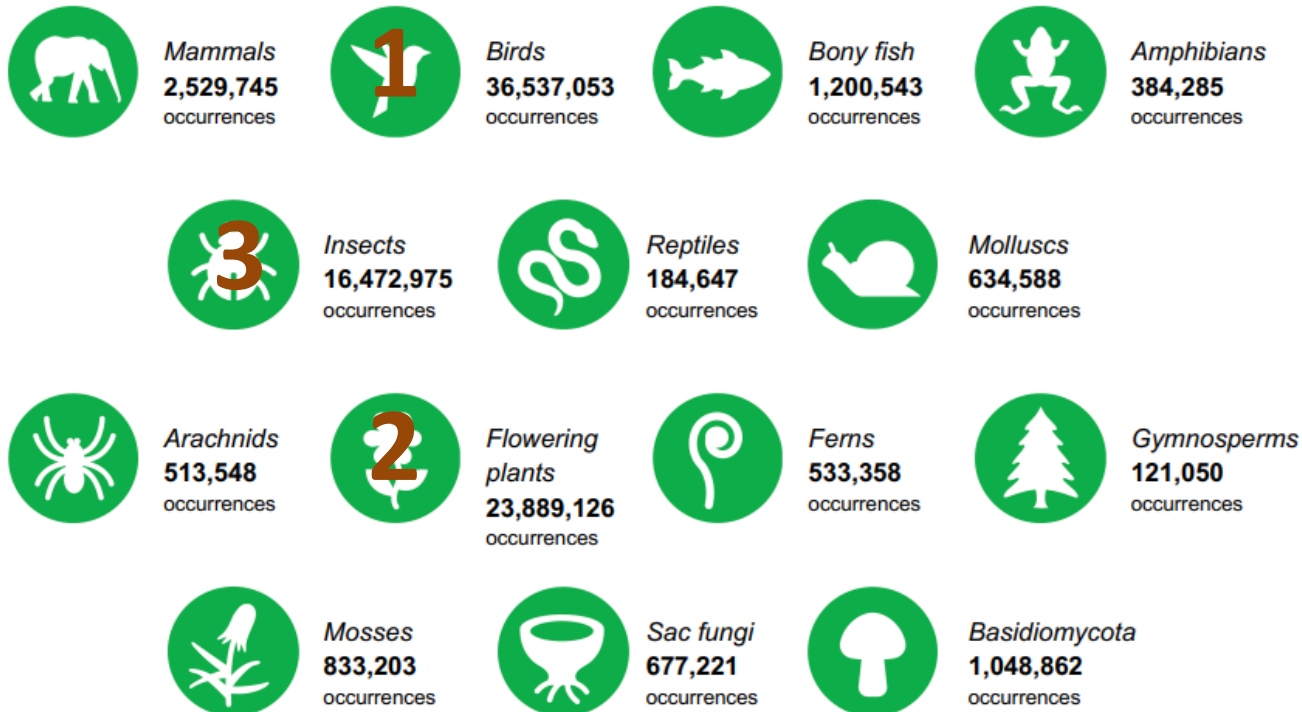
dataset_key	title	license	doi	2022	Δ 2022
fccaf83-a934-4021-a112-4ae5fd39c14b	Naturalis Biodiversity Center (NL) - Amphibia and Reptilia	CC0_1_0	10.15468/ythnjq	52,710	3,124
889c91a3-614f-4355-8df8-b6d0260a118c	Naturalis Biodiversity Center (NL) - Aves	CC0_1_0	10.15468/dxmzbz	290,145	545
15f819bd-6612-4447-854b-14d12ee1022d	Naturalis Biodiversity Center (NL) - Botany	CC0_1_0	10.15468/ib5ypt	4,984,086	16,632
e66ff065-d823-4a4d-b129-569f649ba0eb	Naturalis Biodiversity Center (NL) - Brachiopoda	CC0_1_0	10.15468/v6p9ba	1,905	773
b4aad9c3-518b-4550-82de-c70a7ead1b64	Naturalis Biodiversity Center (NL) - Chelicerata and Myriapoda	CC0_1_0	10.15468/63lozv	92,911	1,443
4c7c21a8-68d3-49c5-b090-6b26259a291b	Naturalis Biodiversity Center (NL) - Cnidaria	CC0_1_0	10.15468/v6p9ba	60,856	674
843633a9-07cb-4918-a79f-6061b52c9dfd	Naturalis Biodiversity Center (NL) - Coleoptera	CC0_1_0	10.15468/jrjojf	250,677	388
6a0a95c6-c07a-4c35-9e9f-f776e8730fd4	Naturalis Biodiversity Center (NL) - Diptera	CC0_1_0	10.15468/cl6p3l	76,987	23,559
f598ca19-7c37-47e4-9a64-bcfe526847c1	Naturalis Biodiversity Center (NL) - Echinodermata	CC0_1_0	10.15468/z5z7w7	27,449	11,006
1eb5e969-4412-4f08-81ec-3de057e559a1	Naturalis Biodiversity Center (NL) - Foraminifera	CC0_1_0	10.15468/qux4dn	1,090	546
8b42bbf1-b287-40a0-ab3a-88fb7928f8e2	Naturalis Biodiversity Center (NL) - Hemiptera	CC0_1_0	10.15468/aw4q6q	41,931	18,191
03f2256a-e548-43d7-a731-253302f4aa34	Naturalis Biodiversity Center (NL) - Hymenoptera	CC0_1_0	10.15468/jgywgc	342,631	11,202
f3130a8a-4508-42b4-9737-fbda77748438	Naturalis Biodiversity Center (NL) - Lepidoptera	CC0_1_0	10.15468/n4q0sa	433,636	6,779
009a76f6-0960-4a56-a116-63991e6bb037	Naturalis Biodiversity Center (NL) - Mammalia	CC0_1_0	10.15468/d7gugd	67,889	1,000
d962a7dc-2183-4824-bb88-5e0ba14ec62d	Naturalis Biodiversity Center (NL) - Mollusca	CC0_1_0	10.15468/yefvkn	735,476	4,872
306f61f2-9ff0-404e-8aa6-a525a7fae369	Naturalis Biodiversity Center (NL) - Odonata	CC0_1_0	10.15468/r2rwhm	39,002	886
5751c38c-078c-431a-be43-af27f5e38db2	Naturalis Biodiversity Center (NL) - Orthopteroidea	CC0_1_0	10.15468/i4jjzm	640	262
ea233ece-c4fb-4fb8-bf98-f16235c4144c	Naturalis Biodiversity Center (NL) - Paleontology	CC0_1_0	10.15468/57f7n4	511,802	29
19828488-7ebf-43f8-88af-6461d8afef9e	Naturalis Biodiversity Center (NL) - Pisces	CC0_1_0	10.15468/evijly	97,797	234
a4be4c6d-5ce7-47ba-982d-1deb05719133	Naturalis Biodiversity Center (NL) - Porifera	CC0_1_0	10.15468/2vuq5t	48,412	825
9a025855-803d-4fa7-8417-ac7142544553	Naturalis Biodiversity Center (NL) - Tunicata	CC0_1_0	10.15468/kavcqh	12,012	6,006
cc3acca7-e7cb-4eae-9cc1-853f66881bba	Naturalis Biodiversity Center (NL) - Vermes	CC0_1_0	10.15468/9rjdx4	62,644	16,083
8a863029-f435-446a-821e-275f4f641165	Observation.org, Nature data from around the World	CC_BY_NC_4_0	10.15468/5nilie	69,494,603	29,524,838
85796928-f762-11e1-a439-00145eb45e9a	Centre for Genetic Resources, the Netherlands, PGR passport data	CC0_1_0	10.15468/mugslo	23,268	72
9cbcf2b3-448f-48ce-9510-39e25c6234a8	Field Study Group of the Dutch Mammal Society (NL) - 2003 - Mammal Survey Alva	CC_BY_4_0	10.15468/eswvar	1,727	676
e0e79a4d-e0a8-42af-9013-0db194ac4fca	Natural Park, Portugal	CC_BY_NC_4_0	10.15468/3v9384	35,261	35,261
cd1c5bf1-0d7a-447a-875a-919f22e325bb	Flora of the Dutch Caribbean Islands	CC0_1_0	10.15468/qnyynjz	1,170	1,170
9d02b439-aa5c-4c22-b1d9-d27fbde9e3ee	Life MICA Biodiversity Surveys	CC_BY_NC_4_0	10.15468/adsbxs	60,558	60,558
45f54678-54ac-4468-8aac-bc83722fc768	Meijndel research 1953-1960	CC0_1_0	10.15468/qjds4c	467,033	55,651
7d75109d-a6cb-4e90-89d0-79d08577c580	MICA - Muskrat and coypu occurrences collected by UVW in the Netherlands	CC0_1_0	10.15468/ytr96y	299,179	3
0360c673-20fc-420a-845a-05d20f185dcf	Muskrat trapping data in the Netherlands 1987 - 2014	CC_BY_NC_4_0	10.15468/uwt6t5	10,012	10,012
6db2a74e-98c5-4be3-ae30-3ec8dc68b0f4	National Register of Monumental Trees	CC_BY_4_0	10.15468/czfn9y	957,432	70,530
a307e4d7-1de2-4adc-95d5-a0a8d5f57236	Natural History Museum Rotterdam - Observations	CC_BY_NC_4_0	10.15468/kwqaay	367,717	11,292
bda96dc3-956c-43cc-bf0d-3567f948866d	Natural History Museum Rotterdam - Specimens	CC_BY_NC_4_0	10.15468/nknnj2	157,976	24,426
e8189215-df7b-4d63-85d8-1e202f09afba	Observations Regelink Ecology and Landscape	CC0_1_0	10.15468/tc5n4y	58,274	58,274
79f334f2-2a53-4571-b1bc-9ff0d78ff3cf	Odonata observations from SE Asia	CC0_1_0	10.15468/hxqsdw	58	58
66e240a7-ae35-4f59-9ad9-c62687015ed8	Stigmella stettinensis (Nepticulidae) specimen data	CC0_1_0	10.15468/6363ua	13,774	646
Ocee5d00-6166-11de-84be-b8a03c50a862	walvisstrandingen_nl	CC_BY_4_0	10.15468/lgcsut	7,184	3,592
	Zoological Museum Amsterdam, University of Amsterdam (NL) - Invasive Insecta				29,982,118

ONTWIKKELINGEN NLBIF 2022

- NLBIF
- 6 n
- 30M

Data availability

Total data available for selected taxonomic groups in Netherlands



Mammals = Class *Mammalia*
 Birds = Class *Aves*
 Bony fish = Superclass
Osteichthyes p.p.
 Amphibians = Class *Amphibia*

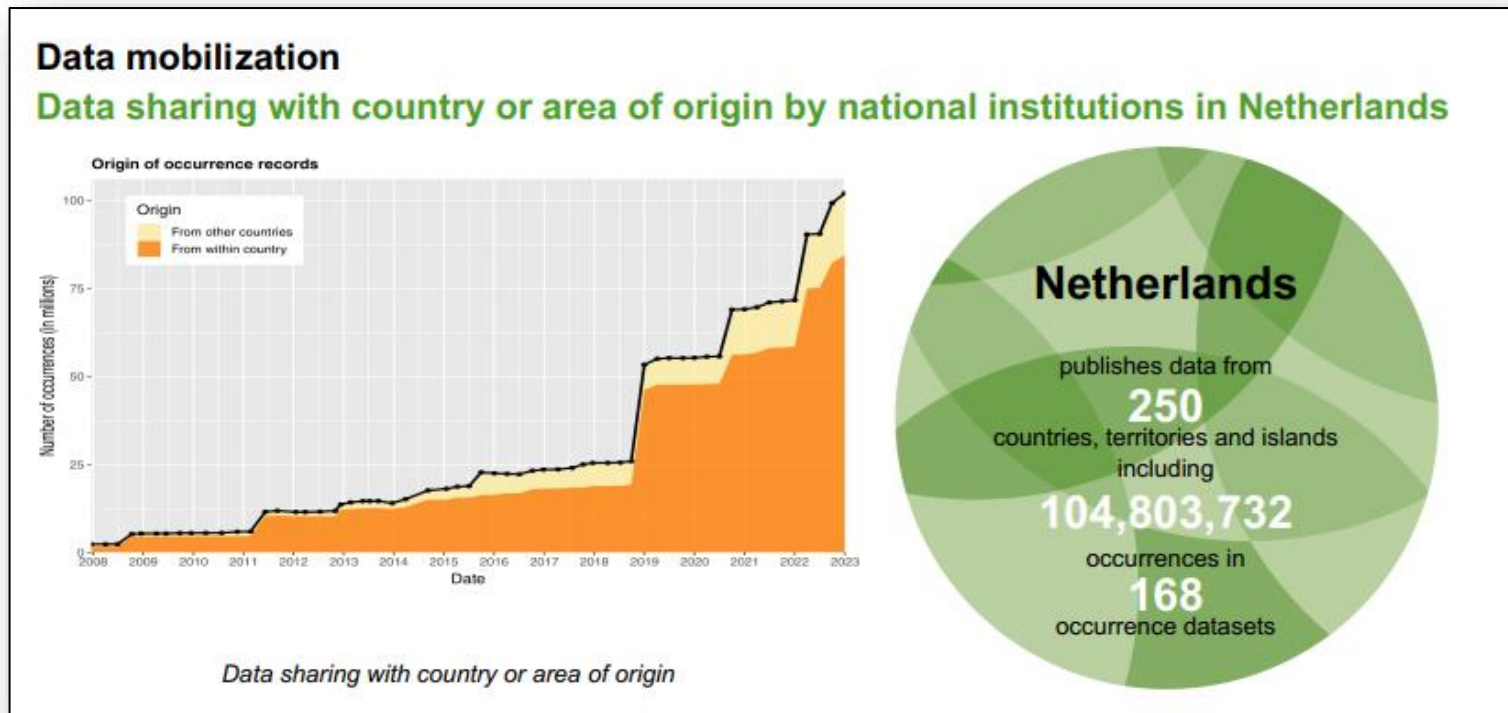
Insects = Class *Insecta*
 Reptiles = Class *Testudines*,
Sphenodontia, *Squamata* &
Crocodylia
 Molluscs = Phylum *Mollusca*

Arachnids = Class *Arachnida*
 Flowering plants = Phylum
Magnoliophyta
 Gymnosperms = Superclass
Gymnospermae

Ferns = Phylum *Pteridophyta*
 Mosses = Phylum *Bryophyta*
 Sac fungi = Phylum *Ascomycota*
 Basidiomycota = Phylum
Basidiomycota

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- 6 projecten afgesloten met een financiële bijdrage van NLBIF

Biometris, Vakgroep Wiskundige en Statistische methoden	nlbif2020.005	Het digitaal beschikbaar maken van een historisch gegevensbestand uit de regio Meijndel	Data	2020
WUR	nlbif2020.003	Flora Caribisch Nederland	Data	2020
Natuurhistorisch Museum Rotterdam	nlbif2021.001	Mobilisatie van waarnemingen van het eiland Goeree	Data	2021
Naturalis Biodiversity Center	nlbif2020.001 / Libellen database Malesiana	Libellen en de bescherming van zoetwaterhabitats in Maleisië, Indonesië en Papoea-Nieuw-Guinea	Data	2020
Naturalis Biodiversity Center	nlbif2018.2019.006	Automatische beeldherkenning als instrument voor museumcollecties: Innovatieproject in de Nederlandse natuurhistorische musea	Infrastructuur	2019
Radboud Universiteit	nlbif2021.004	MOVE2GBIF - Mobilizing animal GPS tracking data to Movebank and GBIF	Infrastructuur / Data / Participatie	2021

ONTWIKKELINGEN NLBIF 2022

Twee gepubliceerde data papers:



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- 22 lopende projecten op 1 januari 2023 – **restrictie naar 1 jaar looptijd**



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- 22 lopende projecten op 1 januari 2023 – restrictie naar 1 jaar looptijd
- Begin 2024 organiseert NLBIF samen het '[Belgian Biodiversity Platform](#)' en [GBIF Luxembourg](#) een EBR BeNeLux event



ONTWIKKELINGEN NLBIF 2022

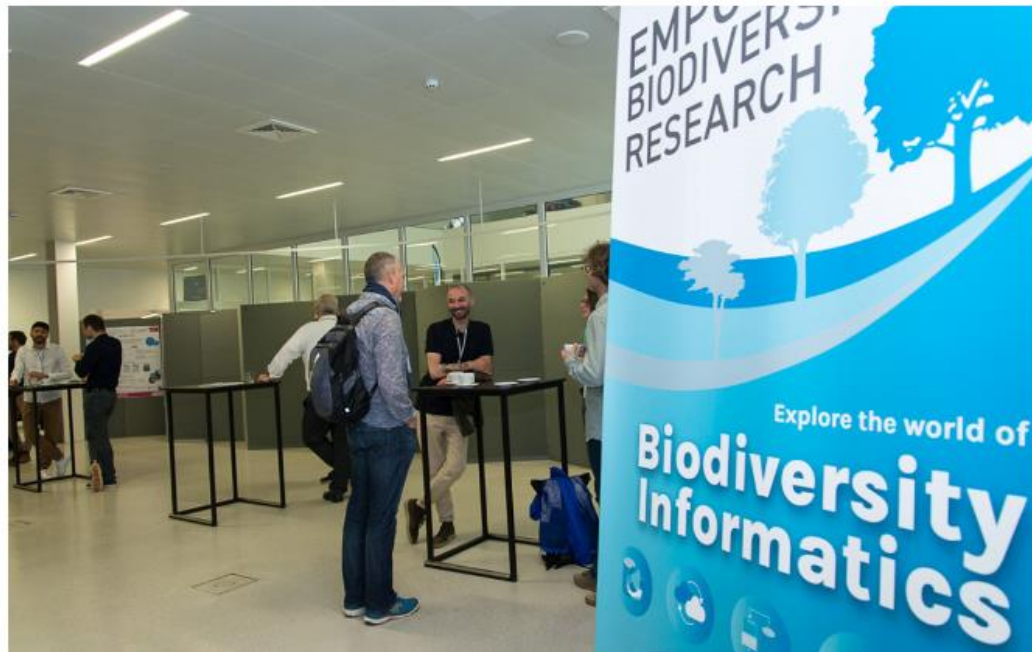
EMPOWERING BIODIVERSITY RESEARCH

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- CETAF E-Score Award
- Sponsors
- Contact & Organisation
- Covid Barometer



Empowering Biodiversity Research II 24-25 May 2022



<https://www.biodiversity.be/4443>



AFRICA



ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

- [‘DiSSCo Futures’](#) event heeft recent plaatsgevonden wegens de succesvolle afsluiting van de DiSSCo ‘Preparatory Phase’



FUTURES
PREPARATORY PHASE

HOME

THEMES

REGISTRATION

PROGRAMME



FUTURES

FEB 07 - 09th 2023

Brussels, Belgium

February 2023 marks an important milestone in DiSSCo's path. As the future Research infrastructure leaves its preparatory period to enter a new, transitional phase, work will continue towards achieving our main goal: a new business model for one European infrastructure that digitally unifies all European natural science assets under common access, curation, policies and practices.



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ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

DiSSCo Prepare Tasks



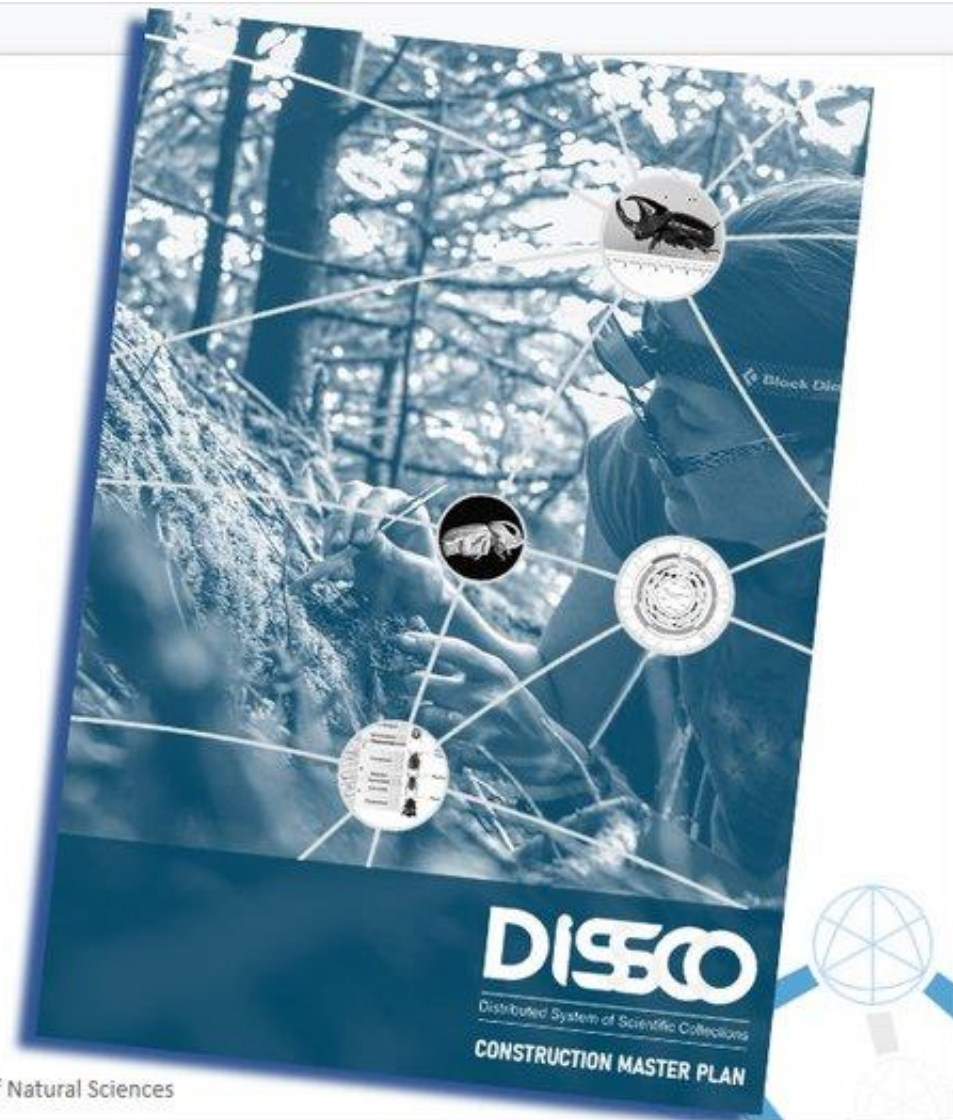
ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

2022 highlights

DiSSCo Construction Master Plan

- Summarises DiSSCo-linked projects
- Itemised and Actionable list of objectives
(ca. 120 recommendations)
- A roadmap for DiSSCo next steps

5th DiSSCo Interim General Assembly 9-10th February 2023, Royal Belgian Institute of Natural Sciences



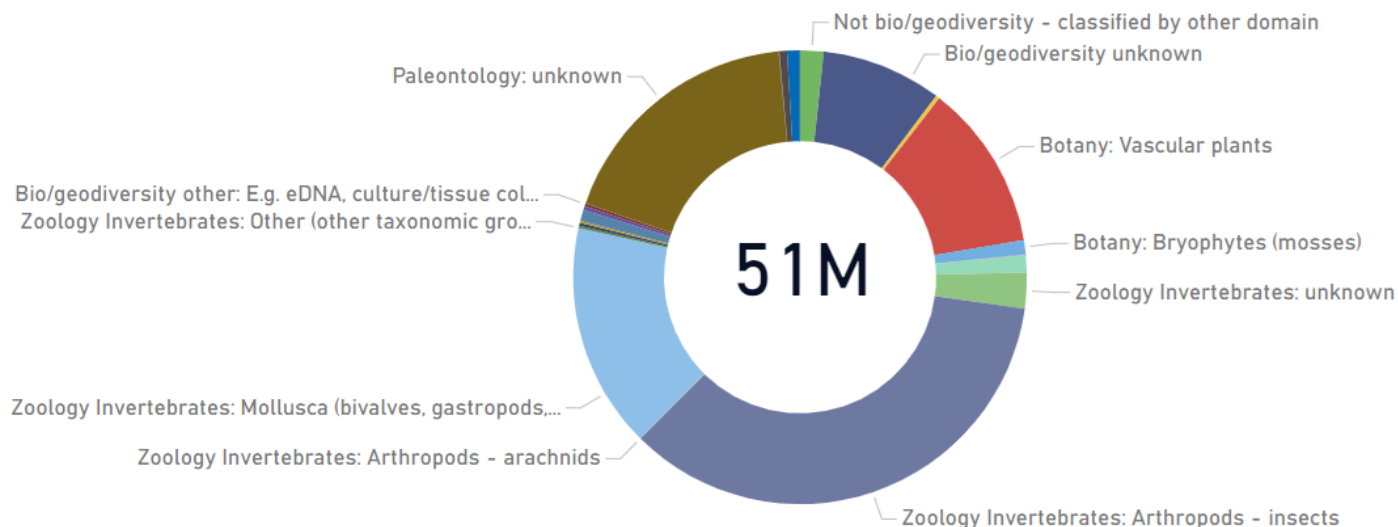
ONTWIKKELINGEN NLBIF 2022- DiSSCo-NL

- ‘DiSSCo Futures’ event heeft recent plaatsgevonden wegens de succesvolle afsluiting van de DiSSCo ‘Preparatory Phase’
- DiSSCo-NL heeft 13 partners en 3 associate partners → herbergen samen 51M specimens



ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

Nationaal Natuurhistorisch Collectieoverzicht



Welkom op het Nationaal Natuurhistorisch Collectieoverzicht van Nederland. Dit dashboard bestaat uit verschillende interactieve weergaven van de collecties van 15 Nederlandse natuurhistorische musea. Dit dashboard biedt de mogelijkheid om de collecties te analyseren en om specifieke collecties te kunnen traceren bij de verschillende instituten.

Vragen kunt u richten aan: nlbif@naturalis.nl

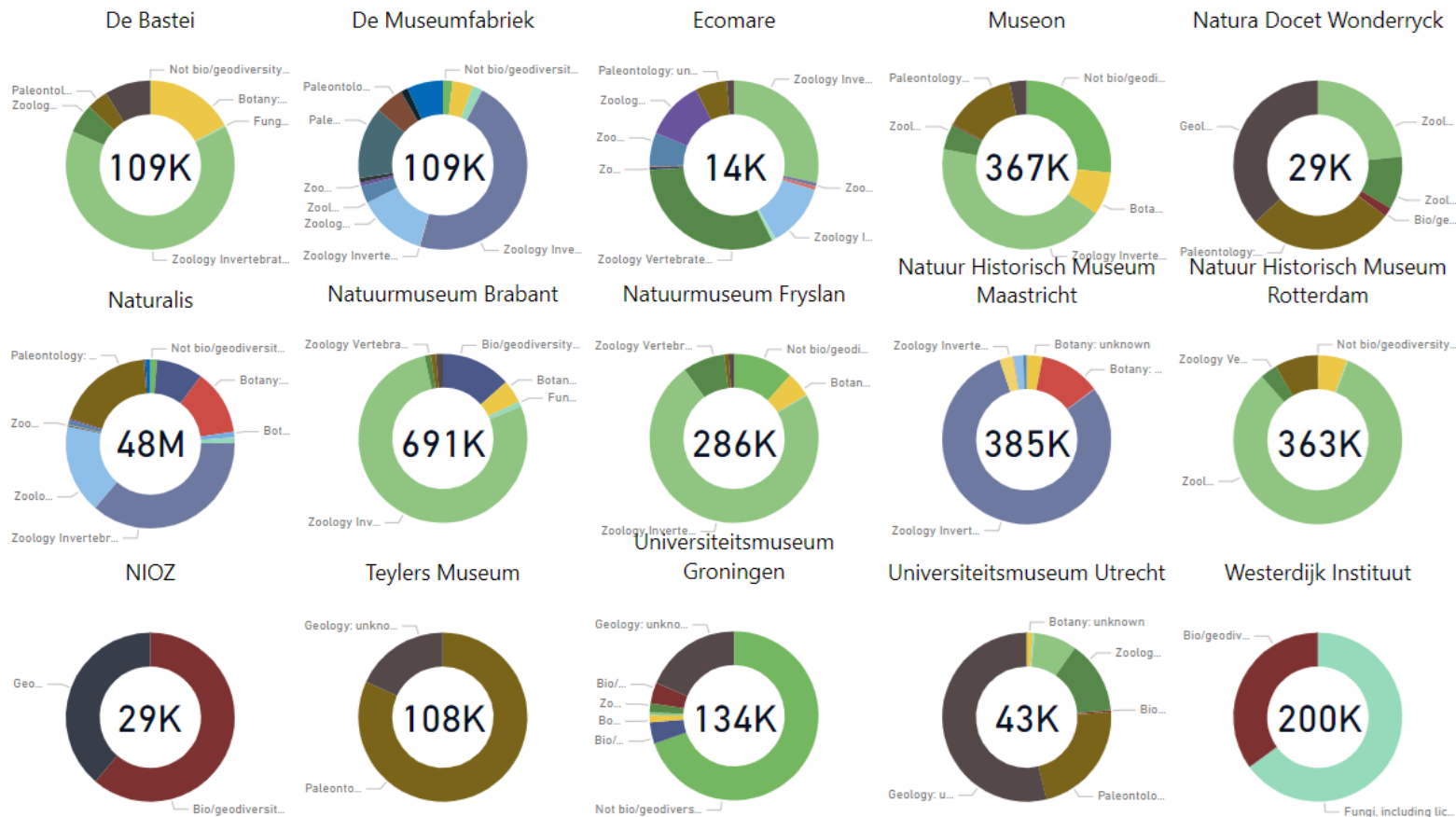
<https://www.dissco.eu/nl/>

ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

The master plan

DiSSCo Prepare

Home DiSSCo Services Participate Communications About



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ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

- ‘DiSSCo Futures’ event heeft recent plaatsgevonden wegens de succesvolle afsluiting van de DiSSCo ‘Preparatory Phase’
- DiSSCo-NL heeft 13 partners en 3 associate partners → herbergen samen 51M specimens
- Digitalisering realiseren door extra financiële middelen (DiSSCo-NL) → ‘glossy’ tijdschrift



ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL

Glossy tijdschrift geïnspireerd door DiSSCo UK



HARNESSING THE POWER OF NATURAL SCIENCE COLLECTIONS

A BLUEPRINT FOR THE UK

DISSCO UK

DISSCO UK WILL:

- **EMPOWER THE UK NETWORK OF COLLECTIONS THROUGH DIGITISATION**

Ensure that UK institutions are equipped and supported to digitise, share and improve their collections, regardless of size or location.
- **ENHANCE UK BIODIVERSITY AND HUMANITIES INFORMATION INFRASTRUCTURE**

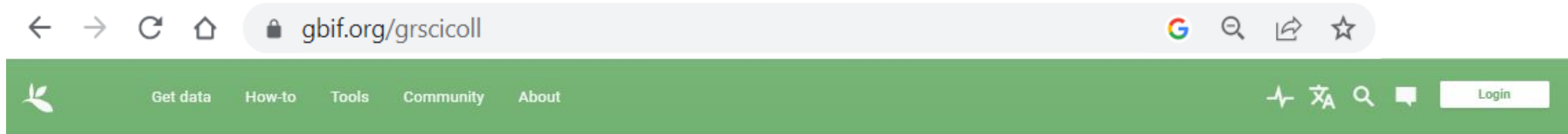
Provide leadership, expertise and tools to support the integration of UK natural science collections information as an interconnected digital knowledgebase.
- **IMPROVE DATA QUALITY**

Ensure that all data within the DiSSCo UK network are of the highest possible quality and associated with clear indicators, enabling users to assess data origin, relevance and usefulness for any application.
- **DELIVER RELEVANT DATA**

Ensure that the DiSSCo UK network delivers data in the form and completeness required to meet the highest-priority needs of science and, through science, to wider society.

<https://www.dissco.eu/nl/>

ONTWIKKELINGEN NLBIF 2022 - DiSSCo-NL



Global Registry of Scientific Collections

ABOUT INSTITUTIONS COLLECTIONS

De collectie
metadata zullen
worden opgenomen
in GRSciColl



Calcinus tubularis (Linnaeus, 1767). Photo by Corbari L. via MNHN - Museum national d'Histoire naturelle, licensed under CC BY-SA 4.0.

The **Global Registry of Scientific Collections** (GRSciColl) is a comprehensive, community-curated clearing house of information on scientific collections, which builds on previous efforts developed by the Consortium of the Barcode of Life (CBOL) and others.

GRSciColl includes data on institutions, collections and associated staff members and spans all scientific disciplines, including earth and space sciences, anthropology, archaeology, biology and biomedicine, as well as applied fields like agriculture, veterinary medicine and technology.

GBIF RESULTATEN 2022



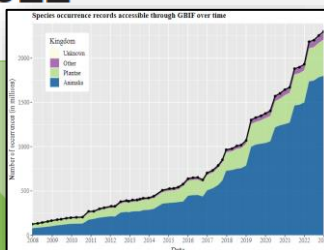
Orthorhyncus cristatus (Linnaeus, 1758) observed in Dominica by Court Harding (CC BY 4.0)

GBIF RESULTATEN 2022

BY THE NUMBERS | 31 DEC 2022

Species occurrence records

2,269,722,863



Datasets

80,349



Country
Participants

66

Organizational
Participants

43



Peer-review papers
using data

8,090

Avg records downloaded/month (2022)

119.7 billion

Data-publishing
institutions

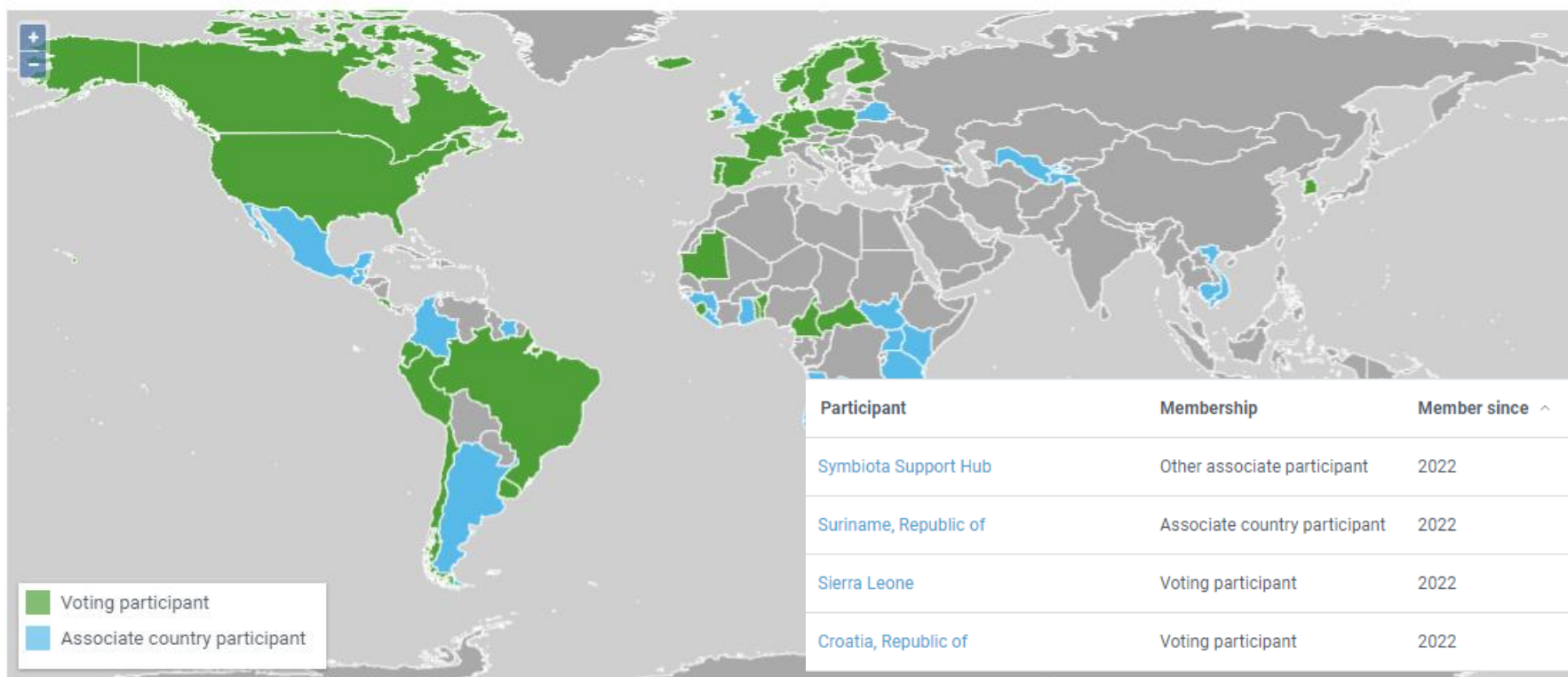
1,950



GBIF RESULTATEN 2022

The GBIF Network

GLOBAL AFRICA ASIA EUROPE AND CENTRAL ASIA LATIN AMERICA AND THE CARIBBEAN NORTH AMERICA OCEANIA PARTICIPANT ORGANIZATIONS GBIF AFFILIATES



41 VOTING PARTICIPANTS

22 ASSOCIATE COUNTRY PARTICIPANTS

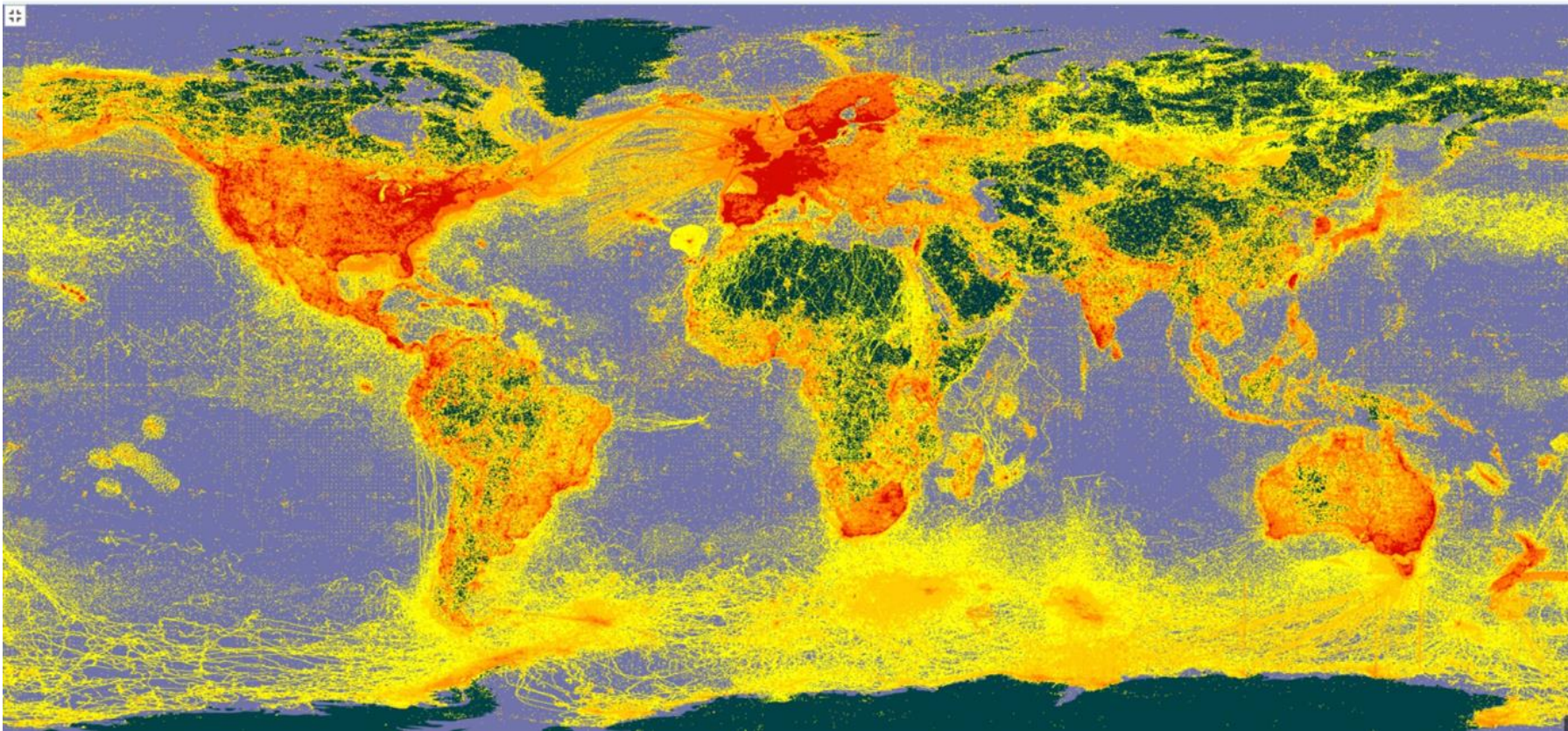
43 OTHER ASSOCIATE PARTICIPANTS

2,016 PUBLISHERS

<https://www.gbif.org/the-gbif-network>

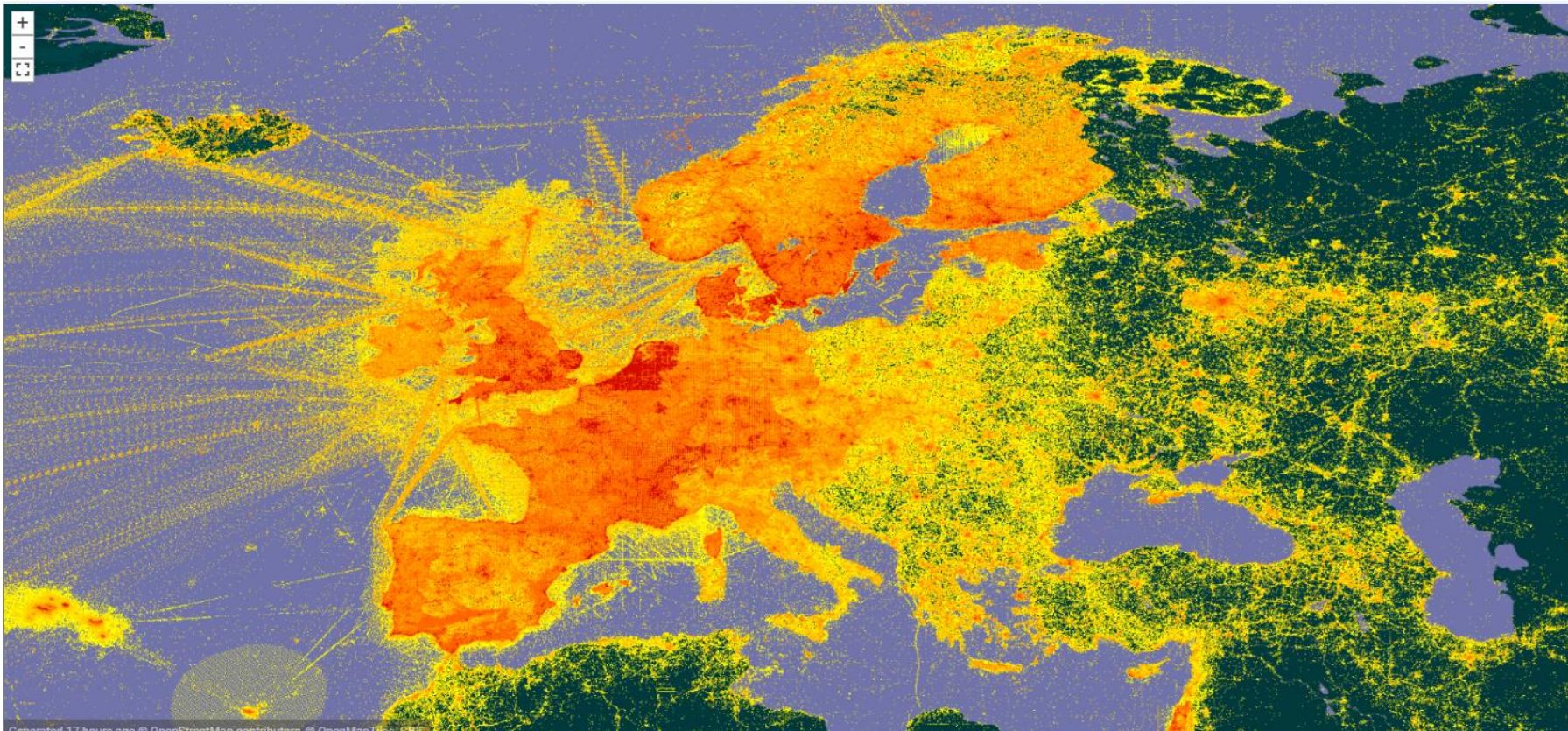
GBIF RESULTATEN 2022

DATA FROM THE GBIF NETWORK 31 Dec 2022



GBIF RESULTATEN 2022

DATA FROM THE GBIF NETWORK 31 Dec 2022



Biodiversity Genomics Europe

Europe's drive to reverse biodiversity loss through genomics research.

PRESS RELEASE

AN OVERARCHING MISSION...

The Biodiversity Genomics Europe (BGE) project has the overriding aim of accelerating the use of genomic science to enhance understanding of biodiversity, monitor biodiversity change, and guide interventions to address its decline.

... WITH AN OVERARCHING APPROACH:

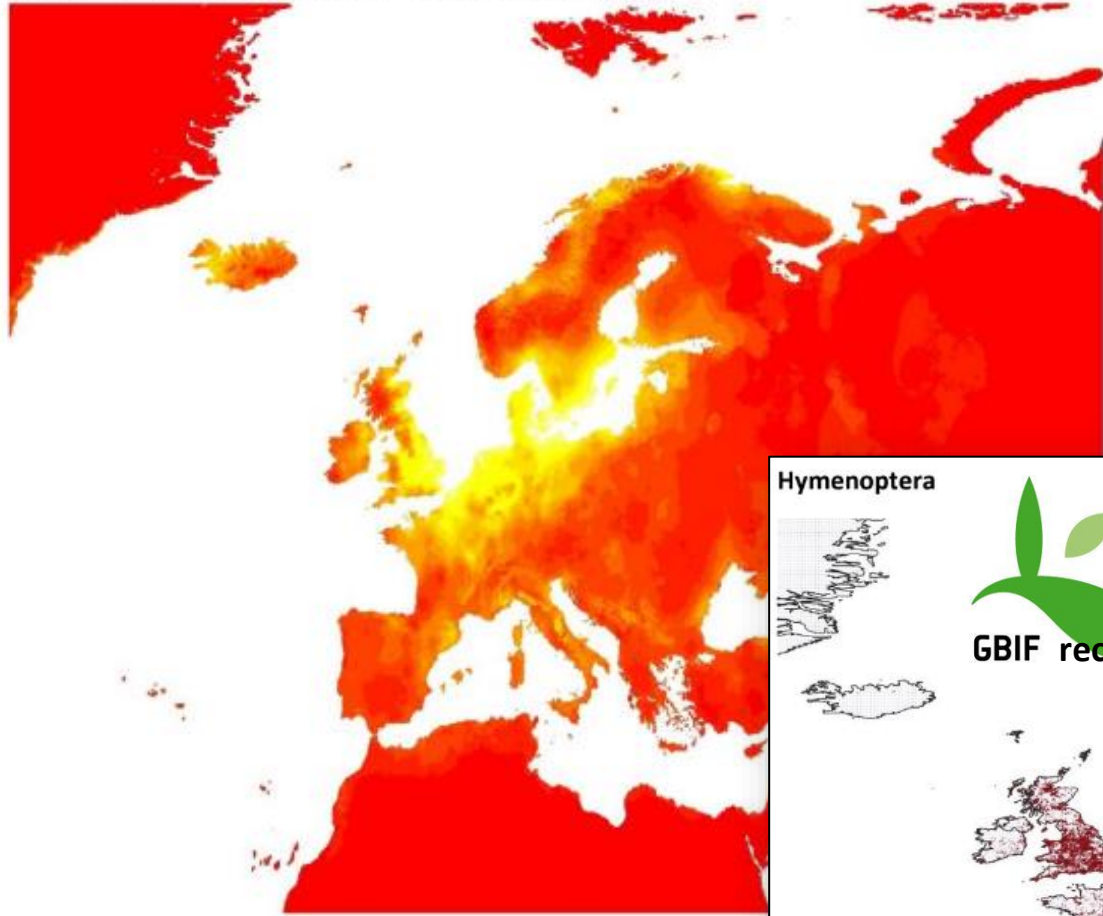
To support its delivery, BGE will bring together two newly formed networks: **BIOSCAN Europe**, which focuses on DNA barcoding, and the **European Reference Genome Atlas (ERGA)**, which focuses on genome sequencing.

**BIOSCAN
EUROPE**

ERGA
EUROPEAN REFERENCE GENOME ATLAS

<https://biodiversitygenomics.eu/>

Projected Diversity Map for Hymenoptera Species lacking DNA data



Biodiversity in crisis BGE Goals Partners Contact

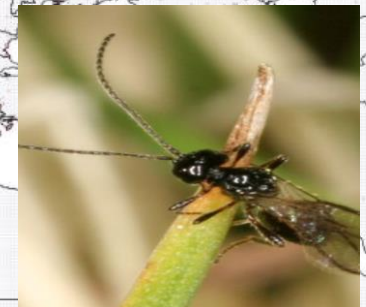
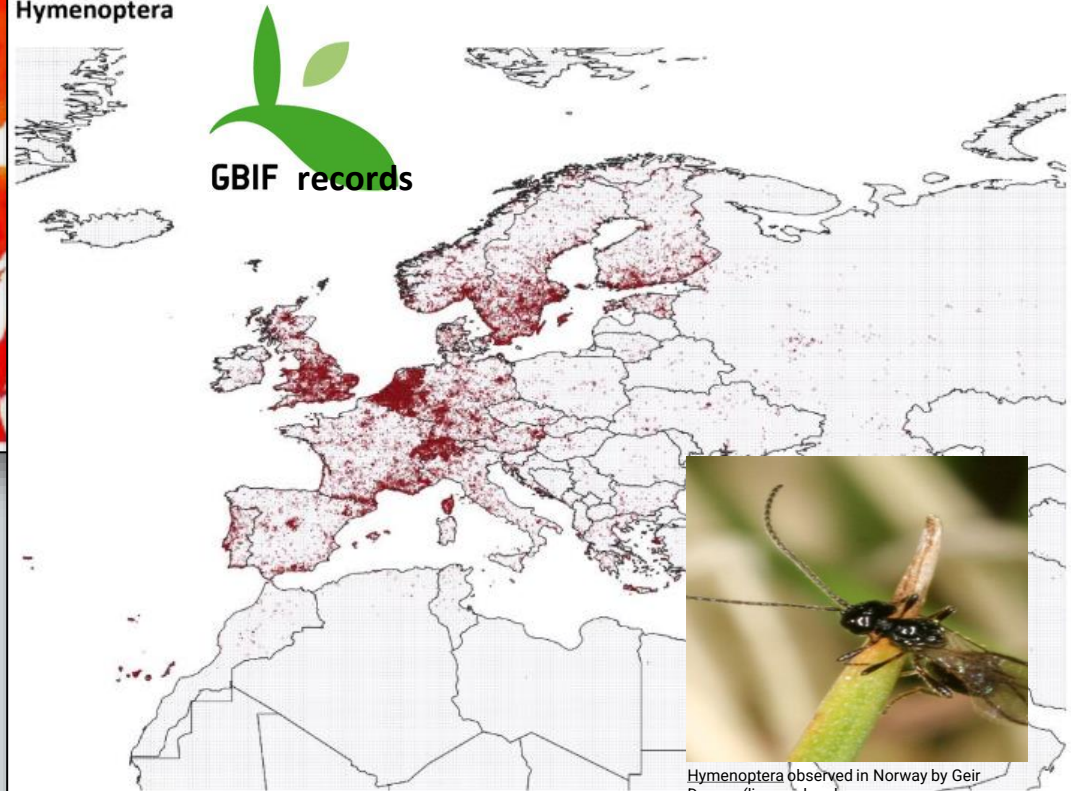
A lot of data
still needs to
be mobilised

biodiversity change, and guide interventions
to address its decline.

Werk van Onurcan
Çirpik – ITC Enschede,
MSc stagiaire

<https://biodiversitygenomics.eu/>

Hymenoptera

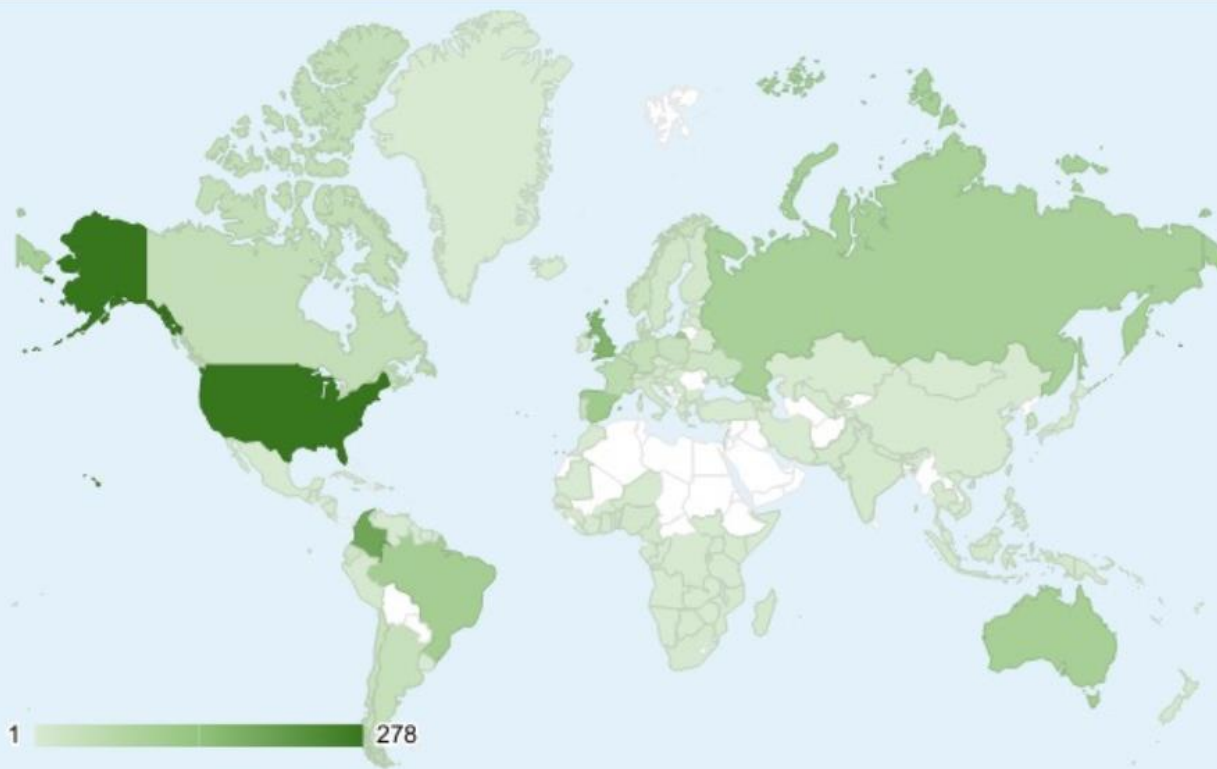


Hymenoptera observed in Norway by Geir Drange (licensed under <http://creativecommons.org/licenses/by-nc-sa/4.0/>)

Figure 7: All unique occurrence points Hymenoptera.

GBIF RESULTATEN 2022

GBIF NETWORK OF DATA PUBLISHING INSTITUTIONS 31 Dec 2022



134 countries/areas
with institutions
sharing data
through GBIF

Top 10 countries: number of data publishers

1	United States	278
2	Colombia	192
3	United Kingdom	164
4	Spain	114
5	Brazil	102
6	Australia	99
7	Russian Federation	95
8	France	56
9	Canada	44
10	Germany	40
10	Netherlands	40

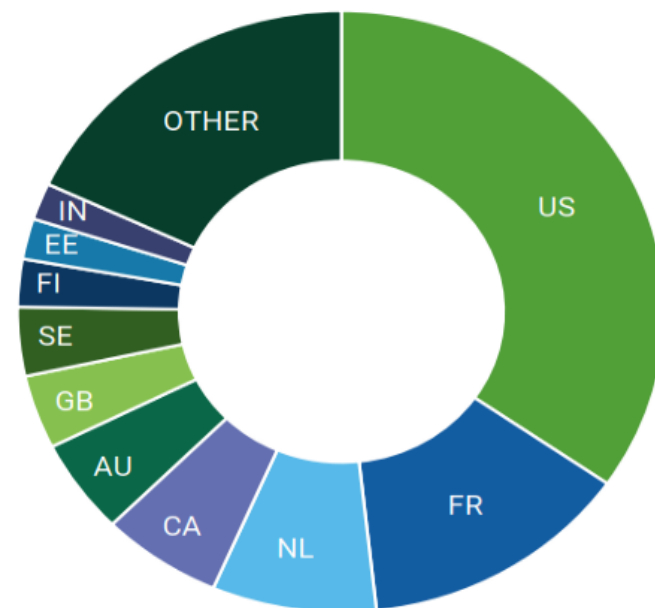
<https://www.gbif.org/publisher/search>

GBIF RESULTATEN 2022

OCCURRENCES PUBLISHED ANNUALLY BY COUNTRY 31 Dec 2022

		2022	2021 total	2021 rank
1	United States	123,152,046	145,520,357	1
2	France	40,243,552	1,229,583	24
3	Netherlands	30,330,743	2,609,622	17
4	Canada	22,328,115	24,595,830	2
5	Australia	18,787,368	6,676,589	4
6	United Kingdom	14,602,384	24,285,291	3
7	Sweden	13,698,583	5,466,063	7
8	Finland	9,447,541	499,507	37
9	Estonia	8,054,503	1,145,145	26
10	India	7,300,428	5,857,419	5
OTHER COUNTRIES + AREAS		66,653,115	54,341,744	
TOTAL		369,598,387	252,569,971	

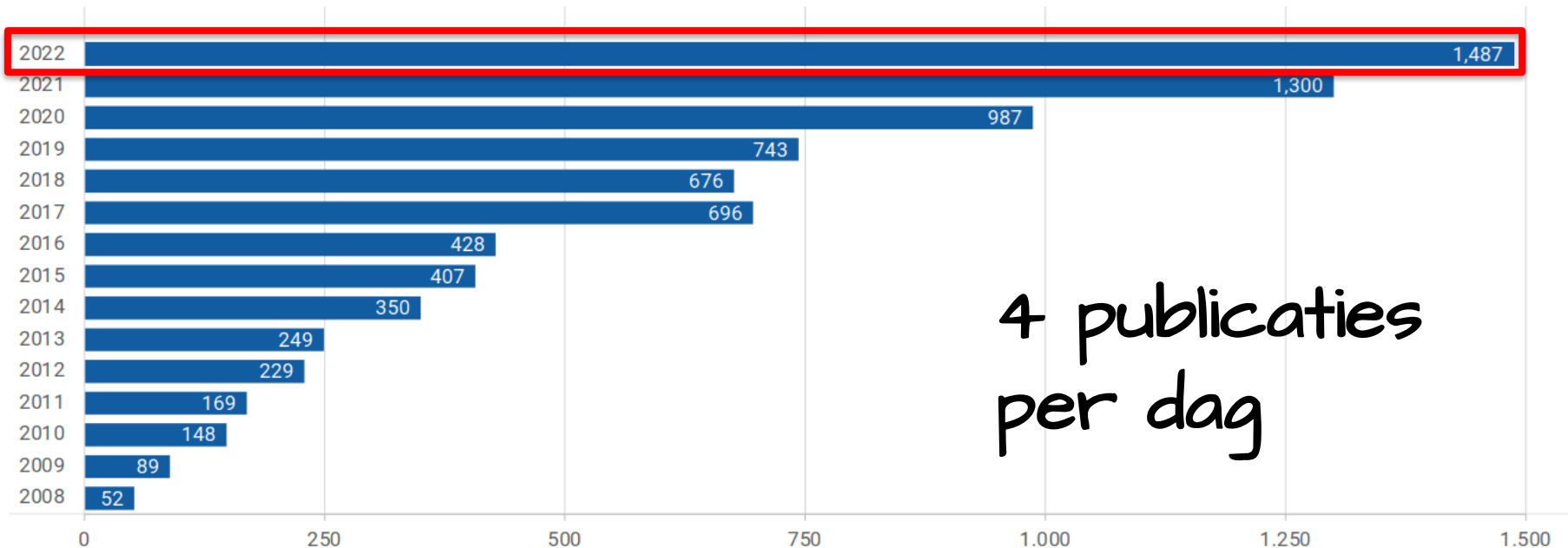
Occurrences published in 2022



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

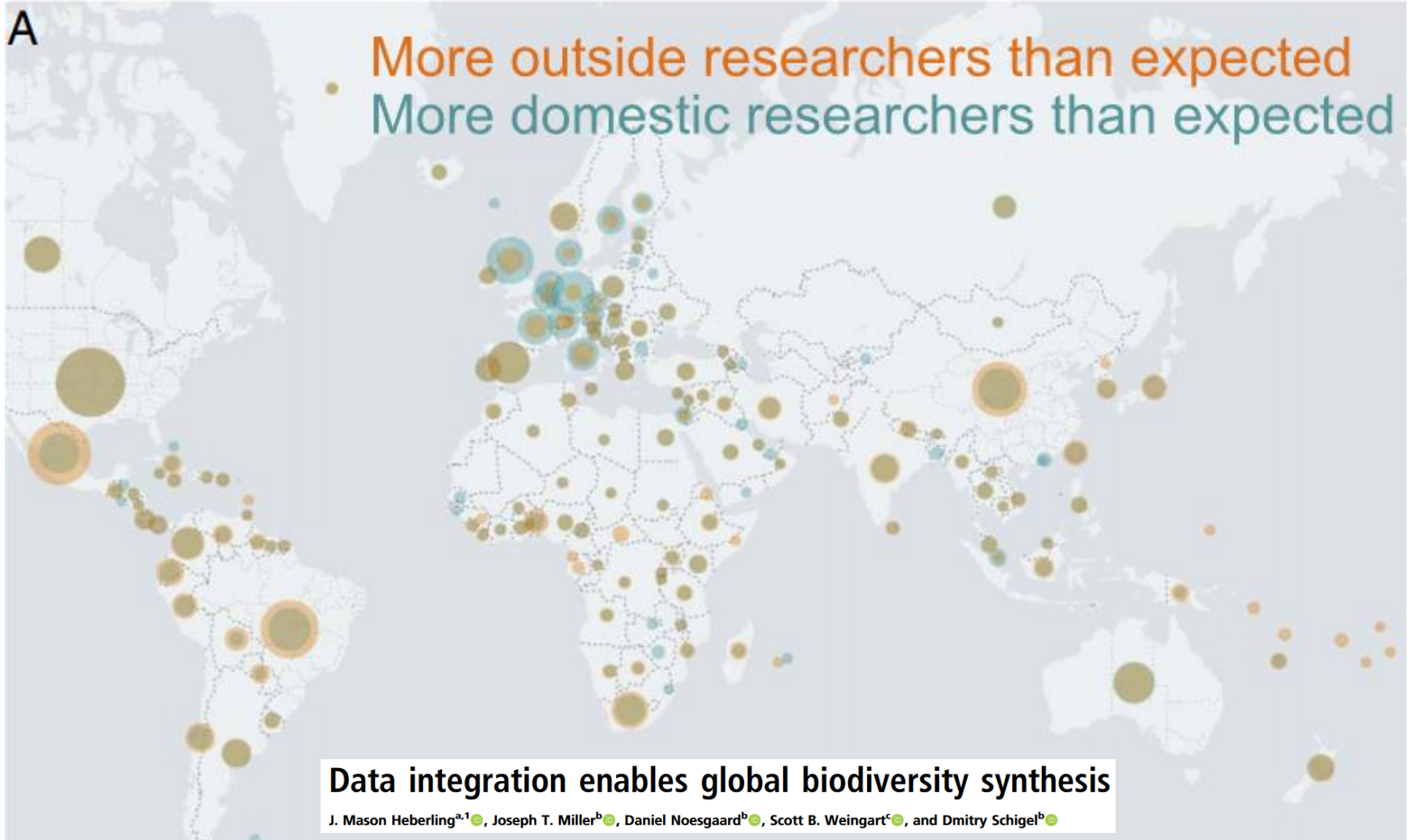
GBIF RESULTATEN 2022

PEER-REVIEWED PUBLICATIONS USING GBIF-MEDIATED DATA 31 Dec 2022



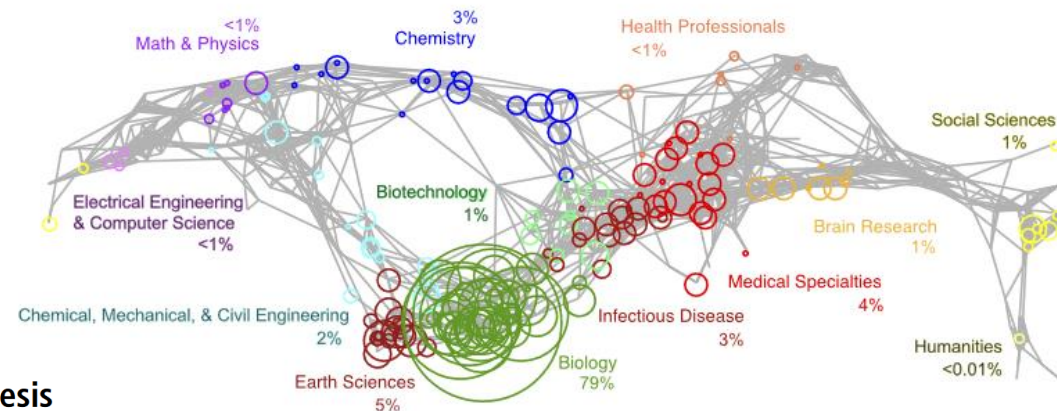
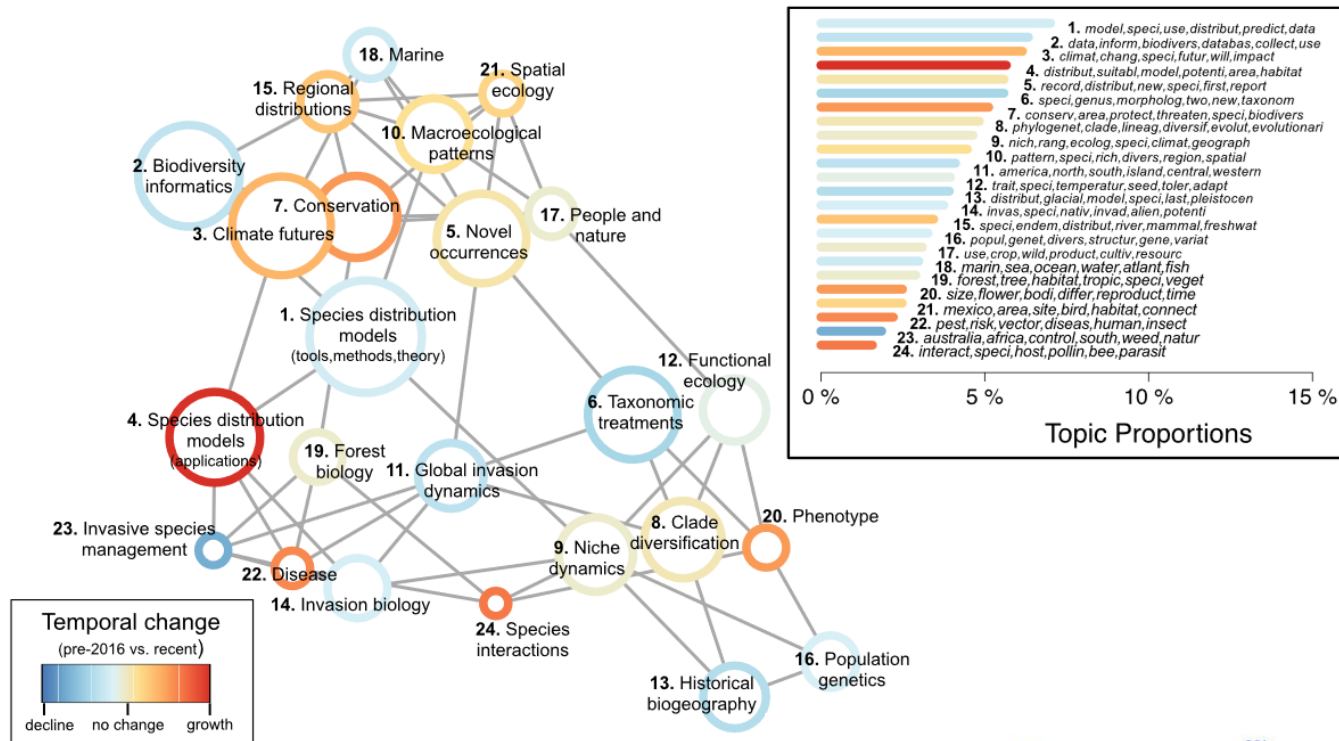
<https://www.gbif.org/occurrence/search>

GBIF RESULTATEN 2022



Heberling, J.M. *et al.* (2021). *PNAS* 118 (6). <https://doi.org/10.1073/pnas.2018093118>

GBIF RESULTATEN 2022



Data integration enables global biodiversity synthesis

J. Mason Heberling^{a,1}, Joseph T. Miller^b, Daniel Noesgaard^b, Scott B. Weingart^c, and Dmitry Schigel^b

2023 - 2027

GBIF Strategic Framework



Vision

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



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

Values



Trust and Transparency: Expectations that all decisions and processes are open; that data is properly attributed and of the highest-possible quality; and that infrastructures are robust, documented and persistent

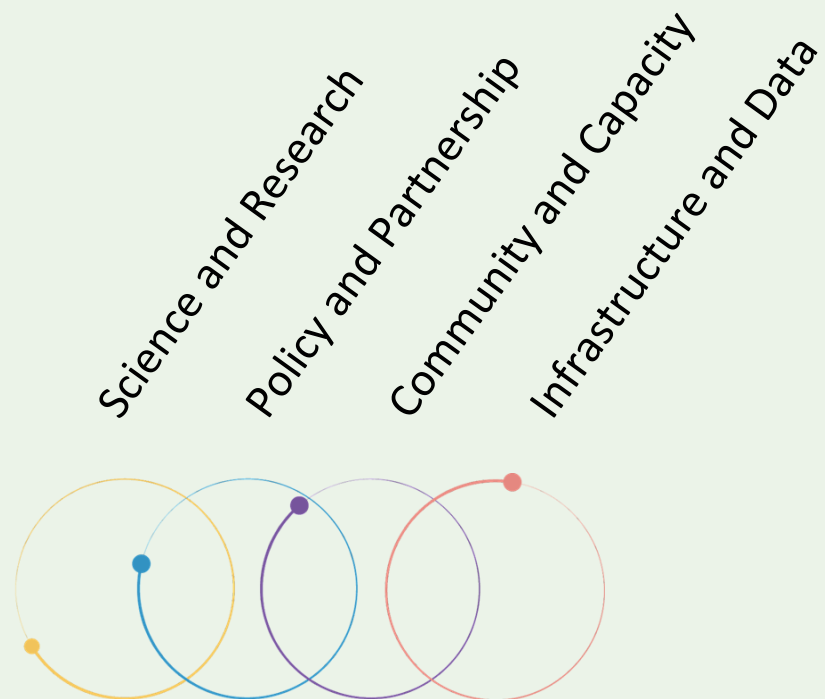
Collaboration and Collective Benefit: A recognition that only through a spirit of cooperation can we fulfil GBIF's mission by sharing skills, data, tools and experiences, avoiding duplication, and growing a global community of practice

Diversity and Inclusiveness: A commitment to engage and welcome people of all nationalities, cultures, genders and backgrounds while recognizing all contributions to our global community

Innovation: An ambition to lead by example in advancing open science and data services and in adopting novel techniques for collaboration and learning, recognizing that simplicity is often the best means of reaching our goals

Integrity: An assurance that professional norms and scientific integrity are respected; and that data-sharing safeguards the rights of indigenous peoples and local communities as well as potential risks to sensitive species

Strategic Priority Areas





Science and research: Building the evidence to advance scientific research and understanding of global biodiversity

Objectives

- Reduce knowledge gaps by helping the network to set targets for consolidating data coverage across thematic, taxonomic, phylogenetic, spatial and temporal dimensions.
- Enable, expand and diversify the uptake and application of GBIF-mediated data.
- Support the evolution of fundamental data-driven biodiversity research and its application across methods, scales and disciplines in life and environmental sciences.
- Ensure meaningful data exchange and reuse of data through citations and measurements, promoting and consistently applying accepted standards that adhere to best practices and sustain the highest aspirations in open and data-intensive science.
- Increase GBIF's relevance to research, promote recognition, expand involvement and improve best practices for data in academia and higher education.



Policy and partnership: Supporting policy responses and knowledge transfer *that address* urgent societal challenges around planetary change

Objectives

- Develop high-impact programmes that frame themes related to the biodiversity data needs for key societal challenges, including biodiversity loss, climate change, food security and human health.
- Strengthen capacity for use of data to contribute to local, national, regional and global biodiversity-related goals, joining with partners to support application of data in policy-relevant information tools and products.
- Work with intergovernmental policy partners to provide decision-makers with a more complete global view of biodiversity status and trends, including the use of GBIF-mediated data to generate indicators and to track essential biodiversity variables.
- Enhance GBIF's relevance to policy and decision-makers by creating and maintaining deeper collaborative engagement, through multilateral environmental agreements, UN agencies and science-policy platforms.
- Refine messaging to help GBIF target and engage with a wider range of stakeholders.



Community and capacity: Enabling the network to meet future needs and challenges

Objectives

- Ensure that GBIF nodes provide a strong and stable foundation for data mobilization and use through the network.
- Increase national participation while strengthening engagement of existing voting participants, including in GBIF governance and decision-making.
- Develop solutions that increase meaningful participation in the GBIF community by reducing linguistic barriers and providing capacity development and programme support.
- Maximize GBIF's impact by pursuing collaborations across a growing community of partners.
- Foster greater openness and transparency through distributed open-source development of shared infrastructure, targeted campaigns for data mobilization and data use, and joint public and private partnerships.
- Leverage and diversify funding sources to direct financial support toward strategic growth, especially in biodiversity-rich areas, while maintaining core funding through voting participants.

Infrastructure and data: Driving innovation to advance biodiversity- related knowledge

4

Objectives

- Sustain and improve a robust, environmentally responsible technical infrastructure capable of providing the most accurate, up-to-date, interoperable and reusable data available.
- Evolve and adapt data standards and models to enable routine generation of increasingly complex, integrated and comprehensive biodiversity data.
- Improve data quality by ensuring rapid, efficient identification and resolution of errors and issues.
- Strive toward operating a real-time biodiversity monitoring infrastructure that reduces barriers and delays to integrating current data.
- Use the convening power of GBIF to continue to drive the coordination and advancement of the global biodiversity informatics community.



GBIF WERKPROGRAMMA 2023

Eurasian Oystercatcher *Haematopus ostralegus* Linnaeus, 1758 observed in Germany by Jakob Fahr. Licensed under [CC-BY 4.0](#)

GBIF WERKPROGRAMMA 2023

← → ↺ 🏠

docs.gbif.org/2023-work-programme/en/

🔍 📄 ⭐

Table of Contents

Explanatory note

Priority Area 1: Science and Research

Activity 1.1: Drive mobilization and use of biodiversity data to support priority thematic areas of relevance

Activity 1.2: Advance GBIF's contribution to latest biodiversity modelling approaches

Activity 1.3: Support open science principles

Ongoing activities to support science and research

Priority Area 2: Policy and Partnerships

Activity 2.1: Support implementation of the post-2020 Global Biodiversity Framework

Activity 2.2: Support the 2030 Agenda for Sustainable Development

Activity 2.3: Support the science-policy interface

Activity 2.4: Support nature-positive outcomes from private-sector decisions

Priority Area 3: Community and Capacity

Staff time among WP priority areas

1.		27%	Science and research
2.		13%	Policy and partnership
3.		29%	Community and capacity
4.		31%	Infrastructure and data

Finally, the Work Programme combines activities required to maintain GBIF's existing services and collaborations as a mature infrastructure as well as measures to implement the enhancements and developments needed to meet the objectives of the Strategic Framework. The document's structure indicates these components within each priority area.

Priority Area 1: Science and Research

Improving biodiversity evidence for scientific research and understanding

Activity 1.1: Drive mobilization and use of biodiversity data to support priority thematic areas of relevance

<https://doi.org/10.35035/doc-cvcq-rs47>



Terugtrekkende

... en nieuwe NLBIF commissieleden

Eufriesea mariana (Mocsáry, 1896) observed in Argentina by Santiago (CC BY-NC 4.0)

NLBIF beoordelingscommissie – terugtreedende leden

1. Dhr. dr. ir. Joris Timmermans, IBED, UvA
2. Dhr. Martin Epe, Zoogdiervereniging



NLBIF commissie – Voorzitter

Dhr. Erwin Bleumink, Vilans en voormalig
SURF



NLBIF beoordelingscommissie – toetredende leden

1. Dhr. dr. Edwin Pos, Wetenschappelijk directeur, Botanische tuinen, UU
2. Dhr. Willem-Pier Vellinga, Xeno-Canto



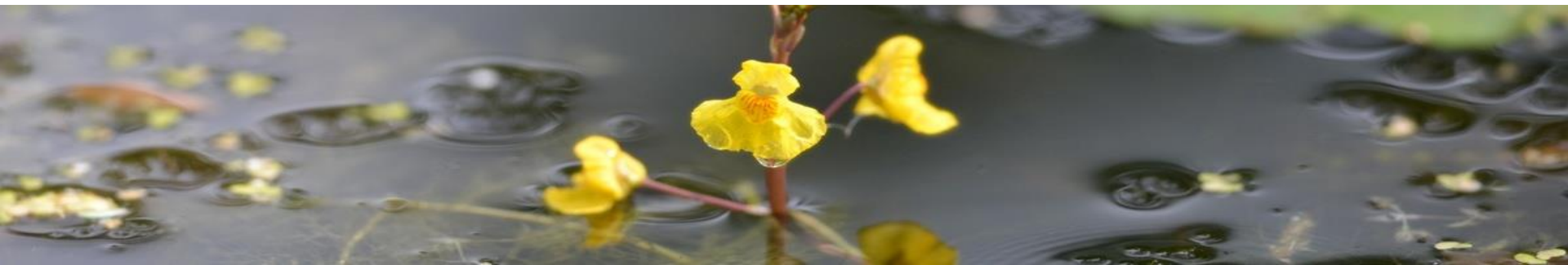
NLBIF-CALL 2023



Ploceus baglafecht (Daudin, 1802) observed in Tanzania by Catarina Lobato (CC BY-NC 4.0)

NLBIF-CALL 2023

- Budget € 226.400,- en max. € 30.000,- per aanvraag
- Aanvragen zijn in overeenstemming met ten minste één van de volgende drie thema's:
 - a) **Data** - mobiliseren van biodiversiteitsdata naar GBIF.org, en/of;
 - b) **Infrastructuur** - infrastructurele ontwikkelingen die mobilisatie van biodiversiteitsdata naar GBIF.org faciliteren, en/of;
 - c) **Participatie** - Het NLBIF/GBIF-netwerk uitbreiden met nieuwe data-eigenaren en/of data-gebruikers
- Dient aan te sluiten bij het GBIF strategische meerjarenplan 2023-2027 en/of het GBIF werkprogramma 2023



NLBIF-CALL 2023

Voorwaarden:

- Hoofdaanvrager van ingediende voorstellen is een Nederlandse of internationale organisatie met vertegenwoordiging in Nederland
- Aanvragen van Naturalis Biodiversity Center zijn uitgesloten van deelname



Quiver tree (*Aloidendron dichotomum*) observed near Warmbad, Namibia by Conor Eastment. Photo via iNaturalist (CC BY-NC 4.0)

NLBIF-CALL 2023

De aanvraag dient de volgende onderdelen te bevatten:

- Titel
- Projectgroep
- Aanleiding; *Waarom dit? Waarom nu? Waarom deze projectgroep?*
- Projectomschrijving



A herd of pronghorns (*Antilocapra americana*) by Greg Lasley. Photo licensed under CC BY-NC 4.0.

NLBIF-CALL 2023

Projectomschrijving:

- Beschrijving van werkzaamheden
- Verwachte resultaten bij afronding project;
- Impact en urgentie van het project (zie selectie criterium 1);
- Meerwaarde van het project (zie selectie criterium 2);
- Efficiëntie en kosteneffectiviteit (zie selectie criterium 3);
- Duurzaamheid van het project (zie selectie criterium 4);
- Risico's van het project (zie selectie criterium 5)



A herd of pronghorns (*Antilocapra americana*) by Greg Lasley. Photo licensed under CC BY-NC 4.0.

NLBIF-CALL 2023

De aanvraag dient de volgende onderdelen te bevatten:

- Titel
- Projectgroep
- Aanleiding; Waarom dit? Waarom nu? Waarom deze projectgroep?
- Projectomschrijving
- Planning (maximaal 1 jaar)
- Begroting



A herd of pronghorns (*Antilocapra americana*) by Greg Lasley. Photo licensed under CC BY-NC 4.0.

NLBIF-CALL 2023

Selectiecriteria (max. score 50):

1. Impact en urgentie
2. Meerwaarde
3. Efficiëntie en kosteneffectiviteit
4. Duurzaamheid
5. Risico



Triturus cristatus (Laurenti, 1768) observed in Netherlands by Xilona Blanco (licensed under <http://creativecommons.org/licenses/by-nc/4.0/>)

NLBIF-CALL 2023

NLBIF beoordelingscommissie

Dhr. Erwin Bleumink, Vilans, **voorzitter**

1. Dhr. Dolf Moerkens, Unie van Waterschappen
2. Dhr. Chris Driessen, Regelink Ecologie & Landschap
3. Dhr. dr. Peter Desmet, Instituut Natuur- en Bosonderzoek (INBO)
4. Dhr. dr. Edwin Pos, Wetenschappelijk directeur, Botanische tuinen, UU
5. Dhr. Willem-Pier Vellinga, Xeno-Canto





Hartelijk dank voor uw aandacht

Vragen ?

PROGRAMMA 2023

Tijd	Activiteit		Spreker
9:30 - 10:00	Inloop, ontvangst & koffie		
10:00 - 10:10	Welkom		Niels Raes Node manager
10:10 - 11:00	• Ontwikkelingen NLBIF • GBIF resultaten 2022 GBIF strategisch meerjarenplan 2023-2027 GBIF jaarlijkse werkprogramma 2023 • Terugtreedende en nieuwe NLBIF Commissie-leden • Opening NLBIF-call 2023		
11:00 - 11:30	Koffie		
11:30 - 11:50	Europese biodiversiteit projecten	BGE (Biodiversity Genomics Europe)	Rutger Vos
11:50 - 12:10		MAMBO (Modern Approaches to the Monitoring of BiOdiversity)	Vincent Kalkman
12:10 - 12:30		BioDT (Biodiversity Digital Twin)	Sharif Islam
12:30 - 13:30	Lunch		
13:30 - 14:30	Workshops	Workshop COL checklistbank & beschermde soortenlijsten	Olaf Bánki
		GBIF data gebruik via gbif.org en de API & Key Performance Indicators (KPIs): Data downloads & Dataset citaties	Niels Raes
14:30 - 15:00	Koffie		
15:00 - 15:15	MOVE2GBIF – GPS-zendergegevens van dieren mobiliseren naar Movebank en GBIF		Peter Desmet
15:15 - 15:30	Automatische beeldherkenning als instrument voor museumcollecties		Sander Pieterse
15:30 - 15:45	Lange-termijn dynamiek van lichaamsgrootte bij vogels		Henk van der Jeugd
15:45 - 16:00	(Ook) Mariene data boven water – GBIF en de Open Data Viewer		Barbara Schoute
16:00 - 16:15	Afsluiting		Niels Raes
16:15 - 17:30	Borrel		