

OVERVIEW



- Refresher on GBIF 2017-2021
 Strategic Plan
- Summary of current activities on 2018 Work Programme, with highlights of key initiatives

Detailed, line-by-line set of background slides available at

http://bit.ly/gbif-wp18q2

2Q 2018 IT DEVELOPMENT PRIORITIES

- Translation for key UI elements of GBIF.org
 - labels, headers, and some system messages.
- Network pages:
 - initial implementation to show multi-publisher networks
- Improve presentation of sampling event data
- Country Reports re-implemented:
 - on-demand feature and more languages
- DataONE:
 - publish GBIF snapshots and finalize API compliance test
- GBIF Pipelines: evaluate Apache Beam implementation
- IPT: security patches (requested by the Smithsonian IT team)
- Occurrence search/downloads API update:
 - support SAMPLING_PROTOCOL, NETWORK_KEY, EVENT_ID and PARENT_EVENT_ID.
- "Include" OTUs in the GBIF Backbone
- Upgrade the Hadoop Cluster to a newer version

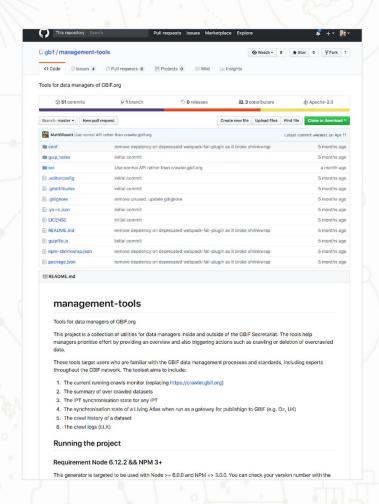
- New quarterly roadmaps for informatics & data products teams in CPH
- Will be validated with Science Committee
- Aim to provide ongoing overview on GBIF.org



1a. Focus on people

Management tools

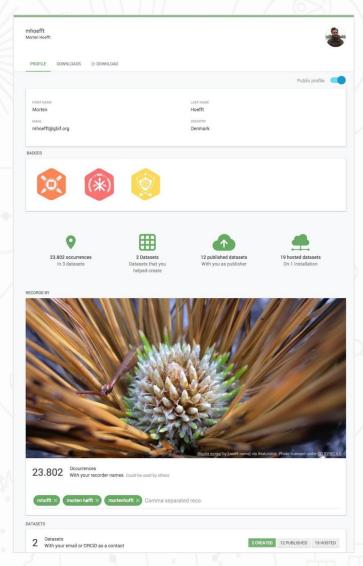
- Collection of utilities for data managers familiar with the GBIF data management processes and standards
- Trigger actions like crawling,
 IPT synchronization, and
 deletion of overcrawled data



1a. Focus on people

Personalization

- Preparing expanded user profile
- Leverage ORCIDs to link opt-in users (esp. from nodes) with datasets (as contributor, publisher or host), badges, research papers, occurrences et al.
- Builds on implementation of 'trusted contacts' for management tools



1a. Focus on people

GBIF Community Forum

∠ GBIF			Sign Up	♣ Log In	Q ≡
all categories Latest Top Categories					
Topic	Category	Users	Replies	Views	Activity
■ ▼ Welcome to the new GBIF community forum! This site is for discussing any matters relating to GBIF, including sharing experiences and advice GBIF-mediated data in research, etc. The first paragraph of this pinned topic will be visible as a way more	‡ 9	1	807	Apr 20	
Why don't African countries feature in the top countries using data from GBIF?	Data Use		5	40	18m
Publishers vs. citations	Data Publishing	9 😜	2	7	1h
There are 10k downloads per month on GBIF	Data Use	1 9 \$	4	12	2d
Citation of the week	Data Use	9 😂 🚱	6	37	6d
This just in: Amazonia is the primary source of Neotropical biodiversity	Data Use	9 7	1	23	7d
Editing text on a publisher page	Data Publishing		5	48	14d
₮ First stop for new data users	Data Use	•	1	47	24d

E 16 St

EMPOWER GLOBAL NETWORK

1e. Expand national participation

Support for multilingual content on GBIF.org

National rapport

Danmark

12-måneders rapport varende til 31. december 2017

Denne rapport giver en række opsummerende grafer, statistikker og andre detaljer ommobilisering og brug af open-access artsdata gennem GBIF netværket på global og lokal skala. Disse summeringer viser ændring over de seneste 12 måneder, hvis ikke andet er angivet. Samlet set kan elementerne i denne rapport bruges til at guide og måle fremskridit i informationstilgængelighed for nationale og internationale forpligigelser lit biodværsitet og bæredygtig udvikling.

> Adgang og brug

Forskere fra

Danmark

bidrog til

peer-reviewede artikler som citerer GBIF medieret data i denne rapporteringsperiode og totalt

Figur 1. Antal peer-reviewede publikationer, som citerer brug af global GBIF-medieret data artikler siden 2008

> Datatilgængelighed i Danmark

Animalia 21,746,076 Plantae 4,376,523 observationer Fungi 774,393 observationer Unknown
242
observationer

Protozoa 8,525 observationer Bacteria 4,087 observationer *Virus* **4,087** observationer Chromista
77,050
observatione

Archaea 3**7**5 observationer



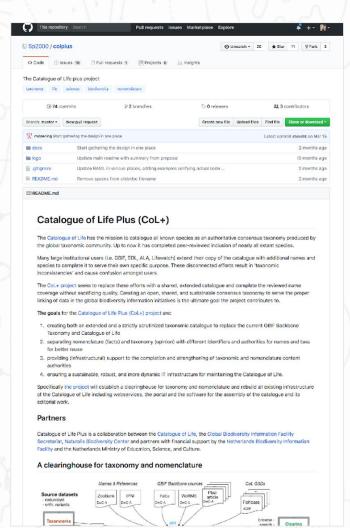
ENHANCE INFRASTRUCTURE

2b. Deliver names infrastructure

Support Catalogue of Life Plus

New COL+ infrastructure

- includes GBIF
 Backbone Taxonomy
- separates names & taxonomy
- provides avenues for (infrastructural) support to content authorities



https://github.com/Sp2000/colplus



FILL DATA GAPS

3a. Identify priority gaps

New data analyst & data administrator in CPH

- John Waller and Marie Grosjean joined data products team on 3 April
- Will (among other things)
 synthesize available tools
 for visualizing data gaps to
 support mobilization targets







FILL DATA GAPS

3b. Expand data streams

Incorporating OTUs in the GBIF backbone

- Pilot project with UNITE to integrate Operational Taxonomic Units for sequence-based 'dark matter fungi' occurrences
- Builds previous work by GBIF Norway to link to NorBOL sequences

Kingdom	Fungi
Phylum	Basidiomycota
Class	Agaricomycetes
Order	Thelephorales
Family	Thelephoraceae
Genus	Tomentella Pers. ex Pat.
Species	Tomentella bryophila (Pers.) M.J. Larsen, 1974
	Synonyms = Botrytis bryophila (Pers.) Sacc.,
	1885
	= Hypochnus obscuratus P. Karst., 1896
	 Hypochnus pallidofulvus (Peck) Burt, 1926
	= Hypochnus subferrugineus Burt, 1916
	= SH002466.07FU
	= SH002471.07FU
	= SH002492.07FU
	= SH002497.07FU
	= SH002506.07FU
	= SH002549.07FU
	= SH002611.07FU



IMPROVE DATA QUALITY

4a. Ensure data persistence

Increasing communication with leading publishers to

- Improve recommendations on data citation practices
- Recognize GBIF as a network
 of trusted data repositories
- Increase recognition of GBIF network data as FAIR data through RDA, COPDESS, AGU, EGU
- Seek CoreTrustSeal Certification



Gbif. es



Gbif.es / News and Events / Adoption of 'orphaned' Spanish datasets completed

Adoption of 'orphaned' Spanish datasets completed

Last year, the GBIF Secretariat requested the assistance of national nodes in the network to help rescue a collection of 'orphaned' datasets. These datasets no longer appeared to be actively curated or managed, suggesting that their original data hosts no longer had the capacity to host them. In some cases, data hosts have even lost datasets, for example, due to server failure, leaving no other backup than the versions published through GBIF.org.

The <u>2018 GBIF implementation plan</u> called to have all datasets claimed, curated and re-hosted (activity 4a), and we have recently fulfilled this goal by restoring **94** orphaned **datasets from Spanish institutions and hosting them on the <u>GBIF.ES IPT</u>. Adoption of these datasets facilitates curated updates and corrections and also ensures the ability to reproduce research that is based on these datasets.**

We would like to acknowledge the help made by **Lydia de la Cruz** in this regard – former student of the Master in Biodiversity in Tropical Areas and its Conservation, organized by the Menéndez Pelayo International University (UIMP) and the Higher Research Council Scientific (CSIC). Lydia has done the master's practice in the Coordination Unit of GBIF.ES. Thanks to her time and energy invested in this effort and the GBIFS support we have adopted a bigger set of orphan datasets than any other GBIF node. More news related to this activity coming very soon.

Links of Interest

https://github.com/gbif/watchdog/wiki/AdoptionPlan#phase-1-2017

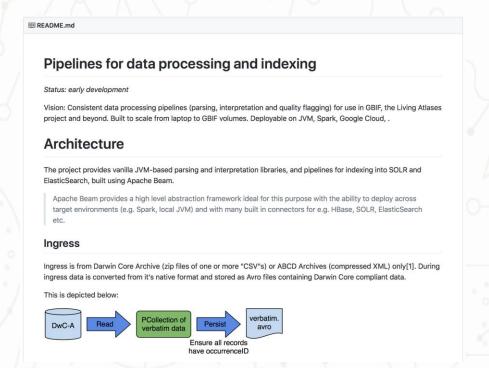
https://www.gbif.org/dataset/search? q=orphan&publishing_country=ES



IMPROVE DATA QUALITY

4b. Assess data quality

- Rebuild of the ingestion pipeline to provide consistent data processing (parsing, interpretation, quality flagging)
- Will align code base of GBIF, Living Atlases—and others?





DELIVER RELEVANT DATA

5a. Engage academia

Secretariat and Science Committee focused on widening the reach of

- Young Researchers Award deadline 15 June
- Ebbe Nielsen Challenge deadline 5 September



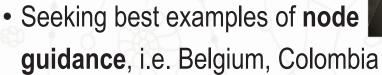


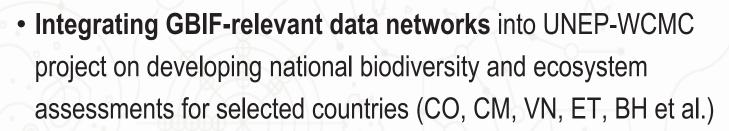
DELIVER RELEVANT DATA

5b. Support biodiversity assessment

MOU signed with IPBES

Expected to emphasize
 national-level links between
 nodes and IPBES focal points



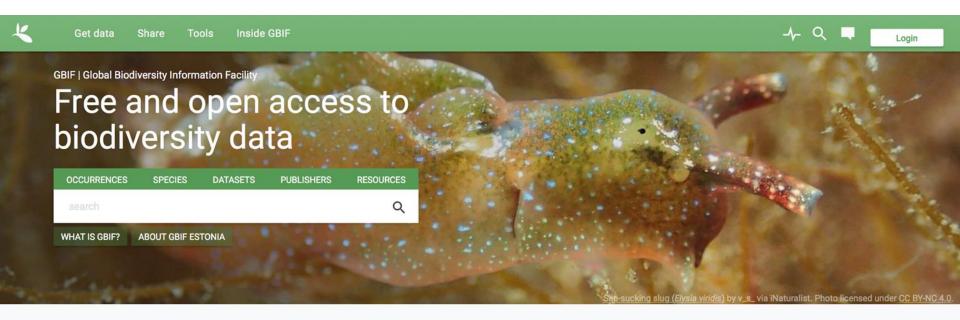


 Proactive global and national engagement prior to launch of 2019 I&AS assessment



#GBIF1billion

#GBIF1billion



Occurrence records 981,456,243

Datasets 38,947

Publishing institutions 1,181

Learn more about the number of species covered by data in GBIF.org.

Species



2018 GBIF Ebbe Nielsen Challenge seeks open-data innovations for biodiversity

9 May 2018



Port Stephens, Australia - a sea hare haven?

4 May 2018



The world's newest country becomes GBIF's newest Participant

18 April 2018



Call for nominations opens for 2018 GBIF Young Researchers Award

Deadline: 15 June 2018

#GBIF1billion



Get data

Inside GBIF







#GBIF1billion

Resources for the GBIF network to use in association with the upcoming big data milestone

The GBIF Secretariat is pleased to provide the Participants and nodes of the GBIF network the following resources to assist them in marking and celebrating the achievement of 1 billion species occurrence records.

We currently expect that GBIF.org will reach 1 billion records during the first half, possibly even the first quarter, of 2018. However, the communications team in Copenhagen will prepare materials and conduct media outreach in advance of reaching that milestone.

Comments? Questions? Interest in coordinating your own activities marking #GBIF1billion?

Write to the communications team

#GBIF1billion campaign goals

- · Build awareness in new audiences
- · Align existing perceptions with current status and achievements
- Promote network innovations in the mobilization, delivery, use and citation of open data
- · Emphasize impacts on scientific research and policy

Social media

BIODIVERSITY OPEN DATA AMBASSADORS

Suggested process draft webpage & form



Agree with key principles

Be ready to direct experience, position, time, role, and other resources to advocate for best practice in biodiversity data.

- •Findable, accessible, interoperable, and reusable
- •Fully and openly shared on the least restrictive basis possible
- Available with minimum time delay and free of charge
- •Require stewardship, citation, authenticity, and quality control
- Recognized as fundamental research products by data publishers, users, authors, reviewers, editors, curators and funders through education and advocacy effort from experts like you

Basic eligibility screening at GBIF Secretariat

Approval by the country Node – GBIF participant countries Nodes Steering Group / GBIF Science Committee

Names and affiliations visible at GBIF.org

Welcome letter, links and resources sent

Ambassadors **present and promote** best practice as they see fit / responding to the GBIF Secretariat invitations

Intensity in ambassador's **control**; no reporting, specific Ambassador forum

Timeline



Calendario Azteca tallado en piedra www.flickr.com/photos/edwinpoon_gz/6791267050

2016, GBIF S Original idea by Olaf Banki

Sep 2017, Helsinki Presentation & discussion, Global Nodes

Meeting

Feb 2018, GBIF S Refining the concept with SC and NSG

Mar 2018 Minutes closed, action plan developed

Apr 2018 Presentation of action plan to SC and NSG,

final tweaks, approval

Apr-Sep 2018 Implementation, first steps

- Webpage: definition, principles, how it works
- Webform
- First nominations and names
- Resources (the kit)

Oct 2018, Kilkenny Presentation of progress at GB25

Nov-Dec 2018 Refinement, running the program

2019+ Rolling smoothly

Information & communication toolkit

resources webpage



- Definition
- Criteria
- Application form
- List of ambassadors
- Useful GBIF webpages, always at hand: dataset classes, citation guidelines, R and Python, library
- GBIF user guide
- GBIF communication strategy
- GBIF guide for Nodes -> Handbook
- GBIF monthly slides
- Live or offline support with difficult questions through distributed helpdesk
- GBIF for science slides (1-, 3-, 10- slide versions and full set of 15 slides)
- including advice on access, data quality, post-processing, citation on data publishing
- Posters and brochures: layout files to print locally
- Communication space, GBIF forum



= not started / in progress / ready

NODES



1c. Equip Participant nodes

Supporting the establishment of effective Participant Nodes



UPDATES ON KEY GUIDANCE MATERIALS

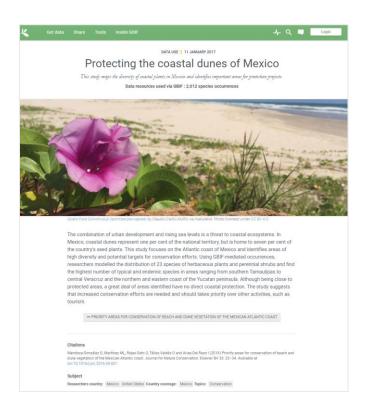
Guide to establishing an effective GBIF Participant node

Capacity self-assessment guidelines for national biodiversity information facilities



https://www.gbif.org/document/80925 https://www.gbif.org/document/82277

SEEKING GUIDING EXAMPLES FROM NODES



Help others learn from your experience

How has your node grown, developed and overcome challenges? We'd like real examples from the community

Range of suggested themes and topics

bit.ly/gbifnode-guiding-examples

- Coordinating a national biodiversity information facility
- Implementing a national biodiversity data mobilization strategy
- Meeting biodiversity information needs at the national level
- Supporting improved management of biodiversity data nationally
- Collaborating with other nodes/initiatives (beyond the purely national scope)

Contact <u>mraymond@gbif.org</u> for template

VOLUNTEER MENTORS FROM THE COMMUNITY



Trainers and mentors 'selfie' at BID Pacific workshop 2017

- Approach started in the Biodiversity Information for Development (BID) programme
- Developing a community of practice:
 Involving experts from the GBIF community
 to support the BID funded projects
- Volunteers apply through online form and trained after selection in a webinar
- Mentors given roles in supporting capacity enhancement workshops and now assigned to support BID projects

GBIF VOLUNTEER MENTORS 2018



- Next step:
 expanding from BID programme
- Recruiting new volunteer mentors:
 - Apply via online form
 - Plans to organize new webinar series for mentors
- Opportunities to support upcoming training events and provide support to other projects (e.g. supported through BIFA)

CURRENT MENTORS FROM NORTH AMERICA

Full name	Institution	Country	Webinar date	Volunteer Mentor Badge Awarded	BID Project Mentor	BID Trainer	GBIF Trainer
David Bloom	VertNet, Project Coordinator; iDigBio, Data Mobilization Specialist	United States	25-Jan- 2017	26-Jan-2017	Yes		
Deborah Paul	Florida State University, Digitization - Workforce Training Specialist						
Kate Ingenloff	PhD Candidate, Biodiversity Institute, University of Kansas	United States	12-Mar- 2017		Yes		
Katherine Webbink	Field Museum of Natural History Information Systems Specialist	United States					
Nelson Rios	Yale University Peabody Museum, Head of Biodiversity Informatics and Data Science	United States	25/10/2017		Yes		
Robert P Guralnick	Professor and Curator at University of Florida	United States	4-Aug-2018				
Sharon Grant	Field Museum - Technology Liasion to Science	United States	13-Jul-2016	14-Dec- 2016		Yes	Yes



GBIC 2



1g. Coordinate resources



GBIC2

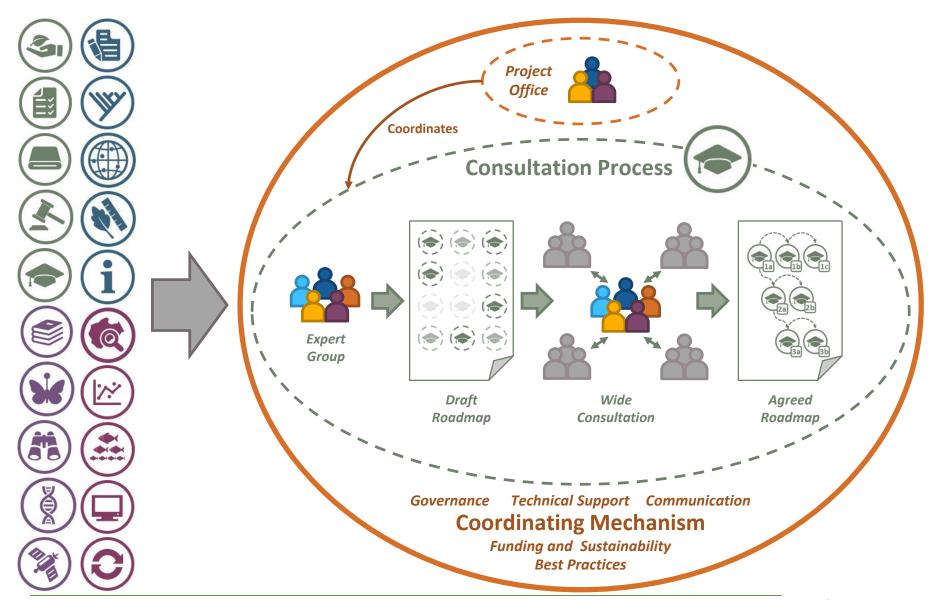
2nd Global Biodiversity Information Conference

Delivering biodiversity knowledge in the information age

24-27 July 2018 Copenhagen



GBIC2: COORDINATING GBIO IMPLEMENTATION





GBIC2: COORDINATING GBIO IMPLEMENTATION

