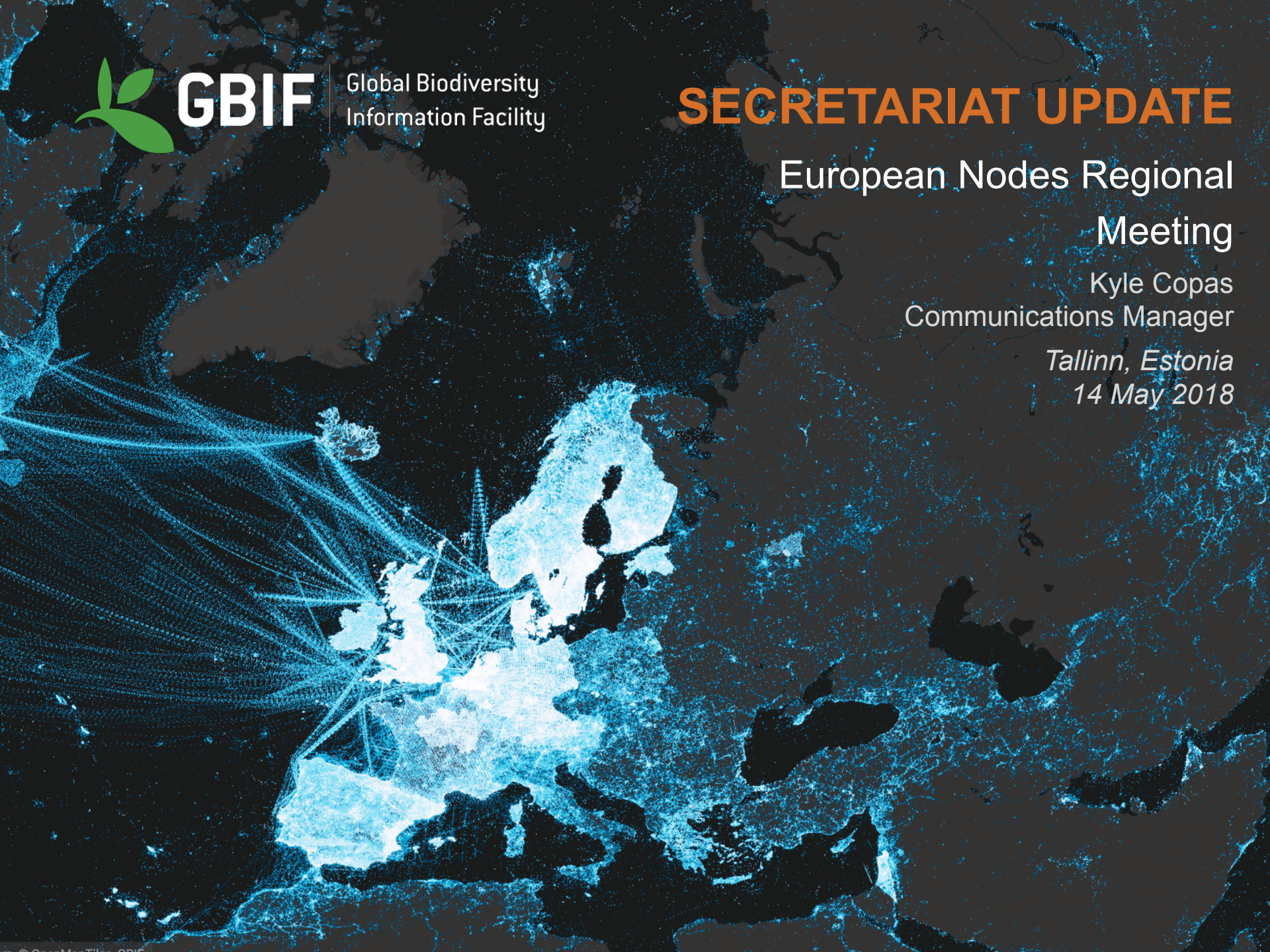


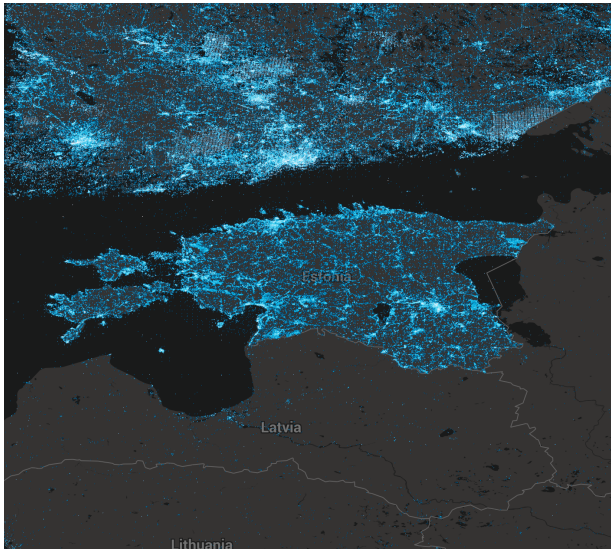
SECRETARIAT UPDATE

European Nodes Regional Meeting

Kyle Copas
Communications Manager

Tallinn, Estonia
14 May 2018

OVERVIEW



- Refresher on GBIF 2017-2021 Strategic Plan
- Summary of current activities on 2018 Work Programme, with **highlights of key initiatives**
- A provocation or two for the future

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

bit.ly/gbif-wp18q2

1 EMPOWER GLOBAL NETWORK

Ensure that governments, researchers and users are equipped and supported to share, improve and use data through the GBIF network, regardless of geography, language or institutional affiliation

https://www.gbif.org/strategic-plan

2 ENHANCE BIODIVERSITY INFORMATION INFRASTRUCTURE

Provide leadership, expertise and tools to support the integration of all biodiversity information as an interconnected digital knowledgebase

https://www.gbif.org/strategic-plan

3 FILL DATA GAPS

Prioritize and promote mobilization of new data resources that combine with existing resources to maximize the coverage, completeness and resolution of GBIF-mediated data, particularly with respect to taxonomy, geography and time

https://www.gbif.org/strategic-plan

4 IMPROVE DATA QUALITY

Ensure that all data within the GBIF network are of the highest-possible quality and associated with clear indicators enabling users to assess their origin, relevance and usefulness for any application

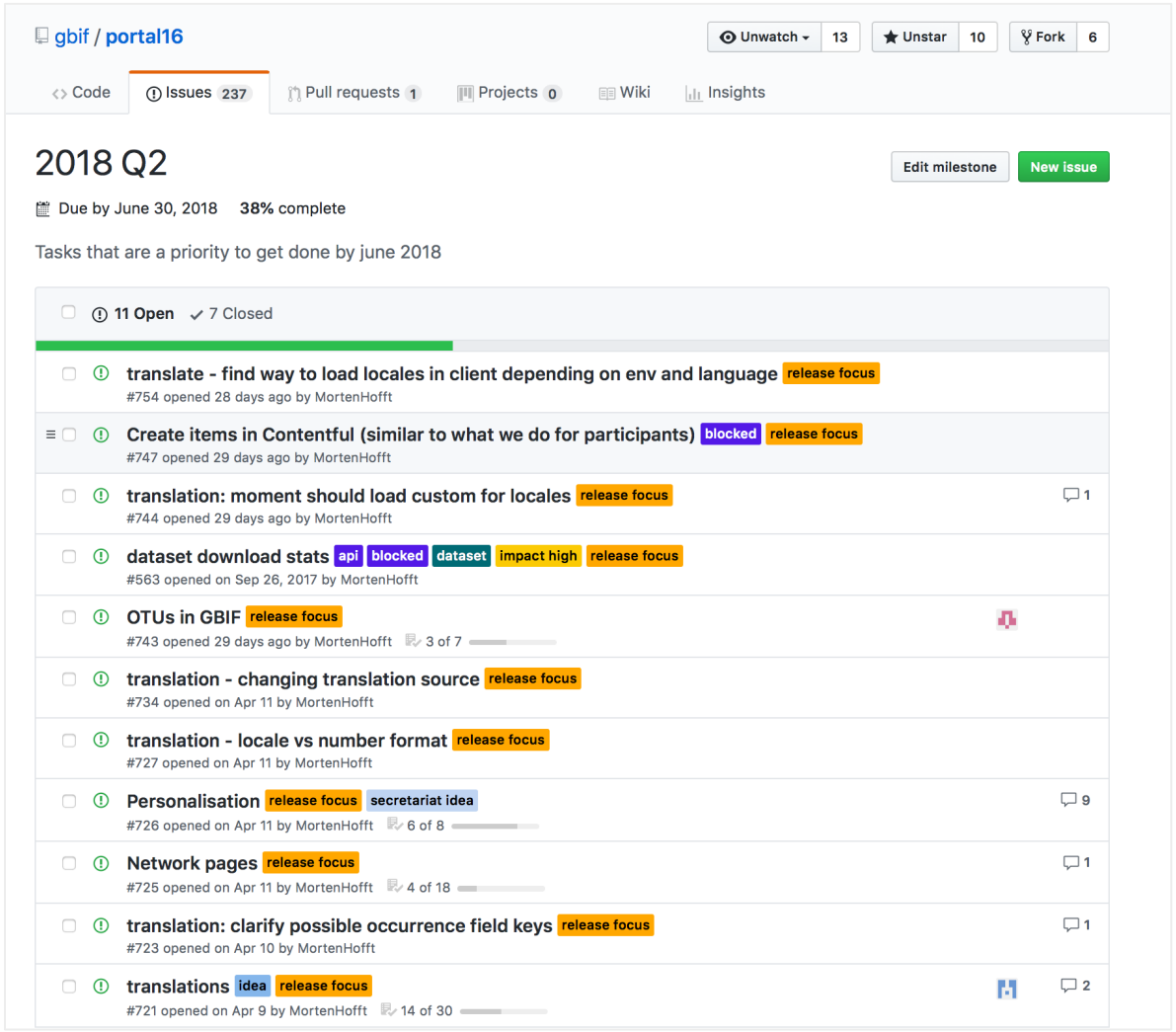
https://www.gbif.org/strategic-plan

5 DELIVER RELEVANT DATA

Ensure that GBIF delivers data in the form and completeness required to meet the highest-priority needs of science and, through science, society

https://www.gbif.org/strategic-plan

QUARTERLY DEVELOPMENT PRIORITIES



- New quarterly roadmaps for informatics & data products teams in CPH
- Publicly accessible through GitHub
- ‘portal16’ is one of **dozens of project repositories** where you can track (and also contribute to) the work of the GBIF Secretariat

https://github.com/gbif

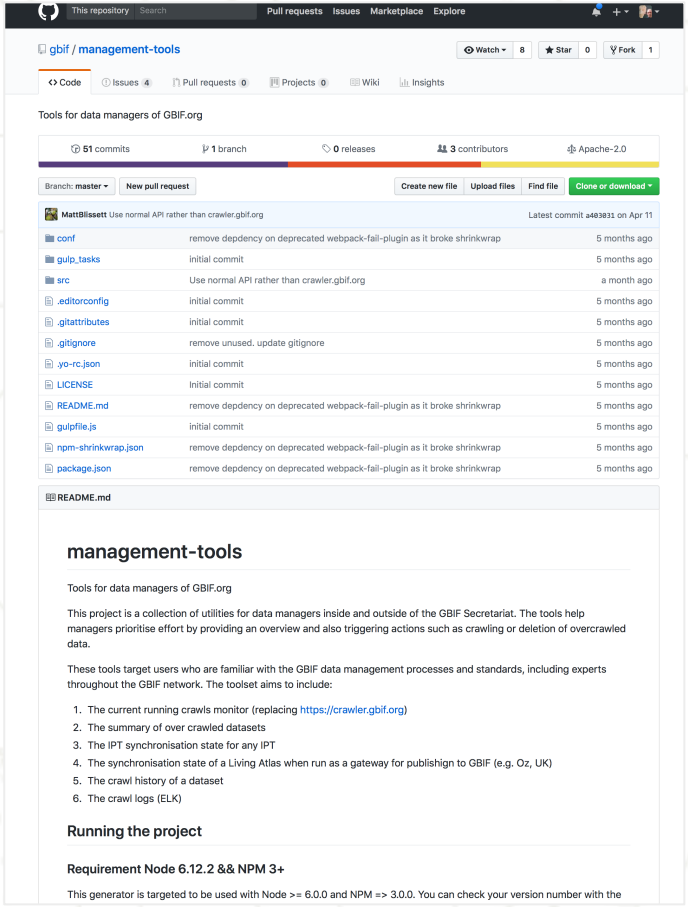
GBIF

1 EMPOWER GLOBAL NETWORK

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



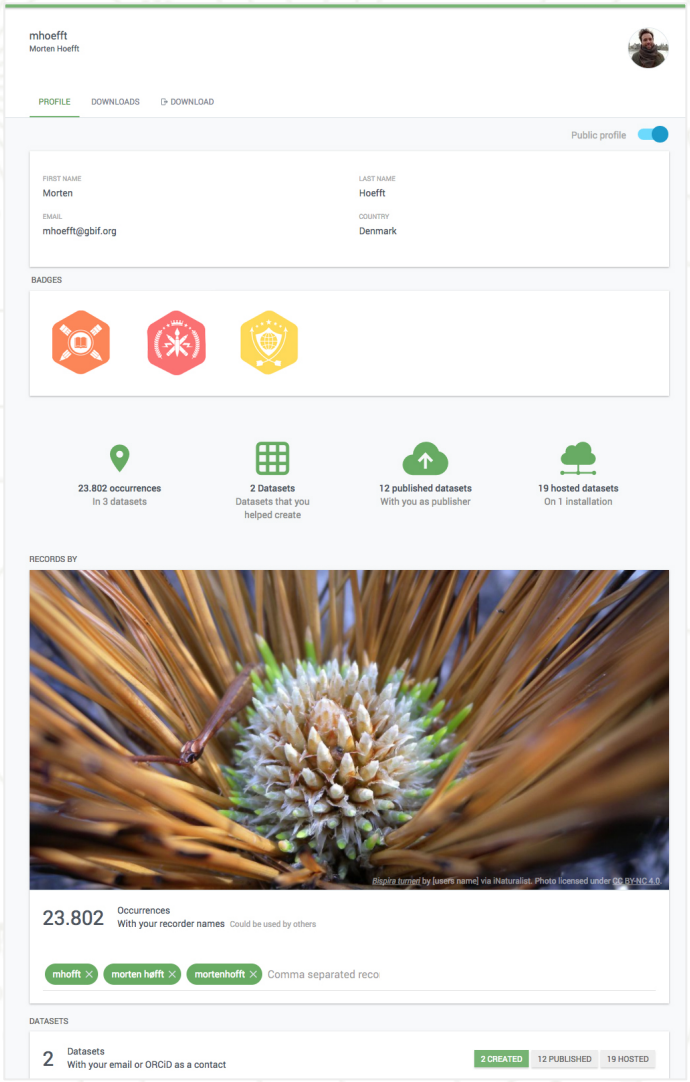
https://management-tools.gbif.org/crawl-history

1 EMPOWER GLOBAL NETWORK

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



https://github.com/gbif/portal16/issues/726

Other items worth consider, imho, include:

All opt-in users
* [ ] ORCID
* [ ] Institutional affiliations
* [ ] Project affiliations (CESP, BID, BIFA)
* [ ] GBIF-related publications (via literature tracking and/or ORCID)
* [ ] GBIF featured data uses

Network members (esp. node managers)
* [ ] GBIF network and committee roles and assignments
* [ ] GitHub profile/contributions/issues/assigned-issues
* [ ] Events attended

Data holders
* [ ] Dataset stats/metrics, as above—including download activity, too, perhaps?
* [ ] GitHub profile/issues/assigned-issues
* [ ] Events attended

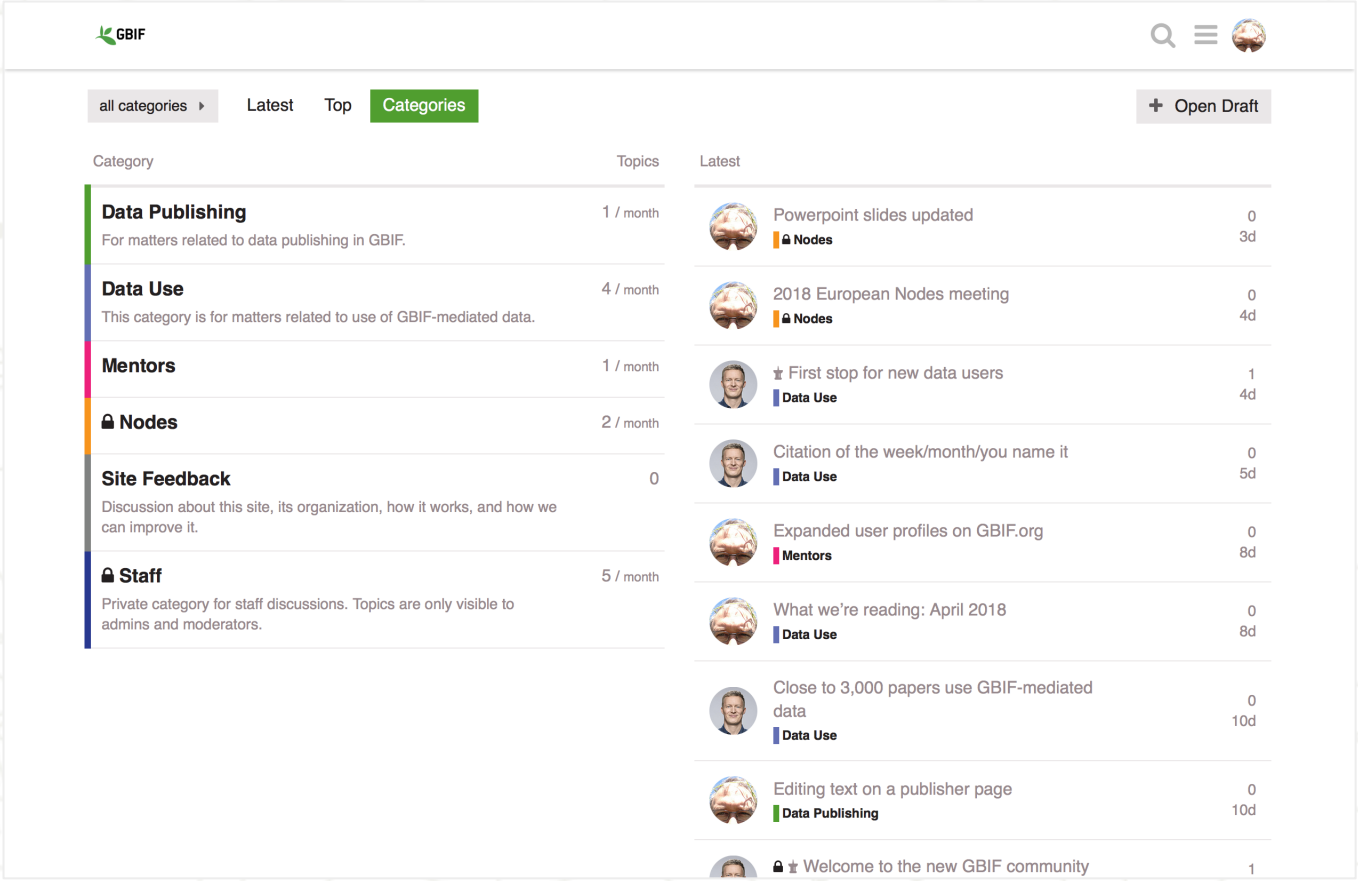
Biological knowledge experts
* [ ] Described species (long-term: claim via COL+?)

Science ambassadors could introduce other fields, too, in consultation w/ **@dschigel**

1 EMPOWER GLOBAL NETWORK

1a. Focus on people

GBIF Community Forum



https://discourse.gbif.org

1 EMPOWER GLOBAL NETWORK

1e. Expand national participation

Support for multilingual content on GBIF.org

GBIF Global Biodiversity Information Facility

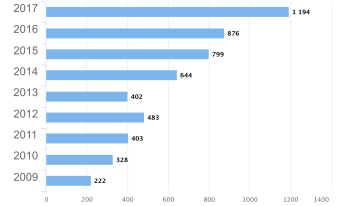
National rapport

12-måneders rapport
varende til 31. december 2017

Danmark

Denne rapport giver en række opsummerende grafer, statistikker og andre detaljer om mobilisering 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 fremskridt i informationstilgængelighed for nationale og internationale forpligtigelser ift biodiversitet og bæredygtig udvikling.

> Adgang og brug



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

Forskere fra
Danmark
bidrog til
23
peer-reviewede artikler som citerer GBIF medieret data i denne rapporteringsperiode og totalt
77
artikler siden 2008

> Datatilgængelighed i Danmark

Animalia
21,746,076
observationer

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
observationer

Archaea
375
observationer

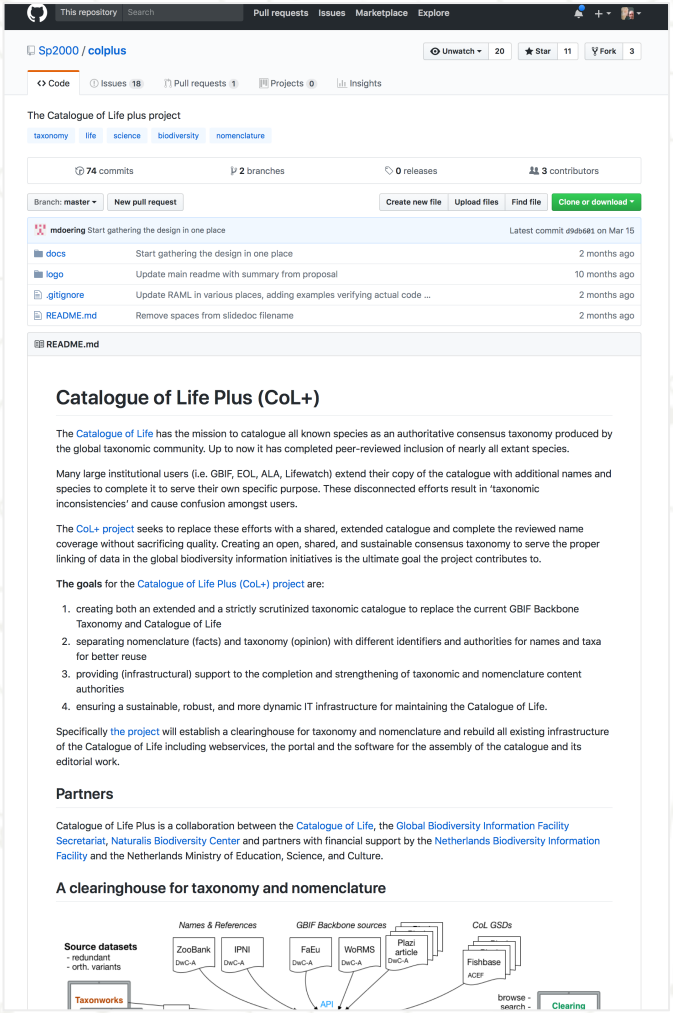
2 ENHANCE INFRASTRUCTURE

2b. Deliver names infrastructure

Support Catalogue of Life Plus

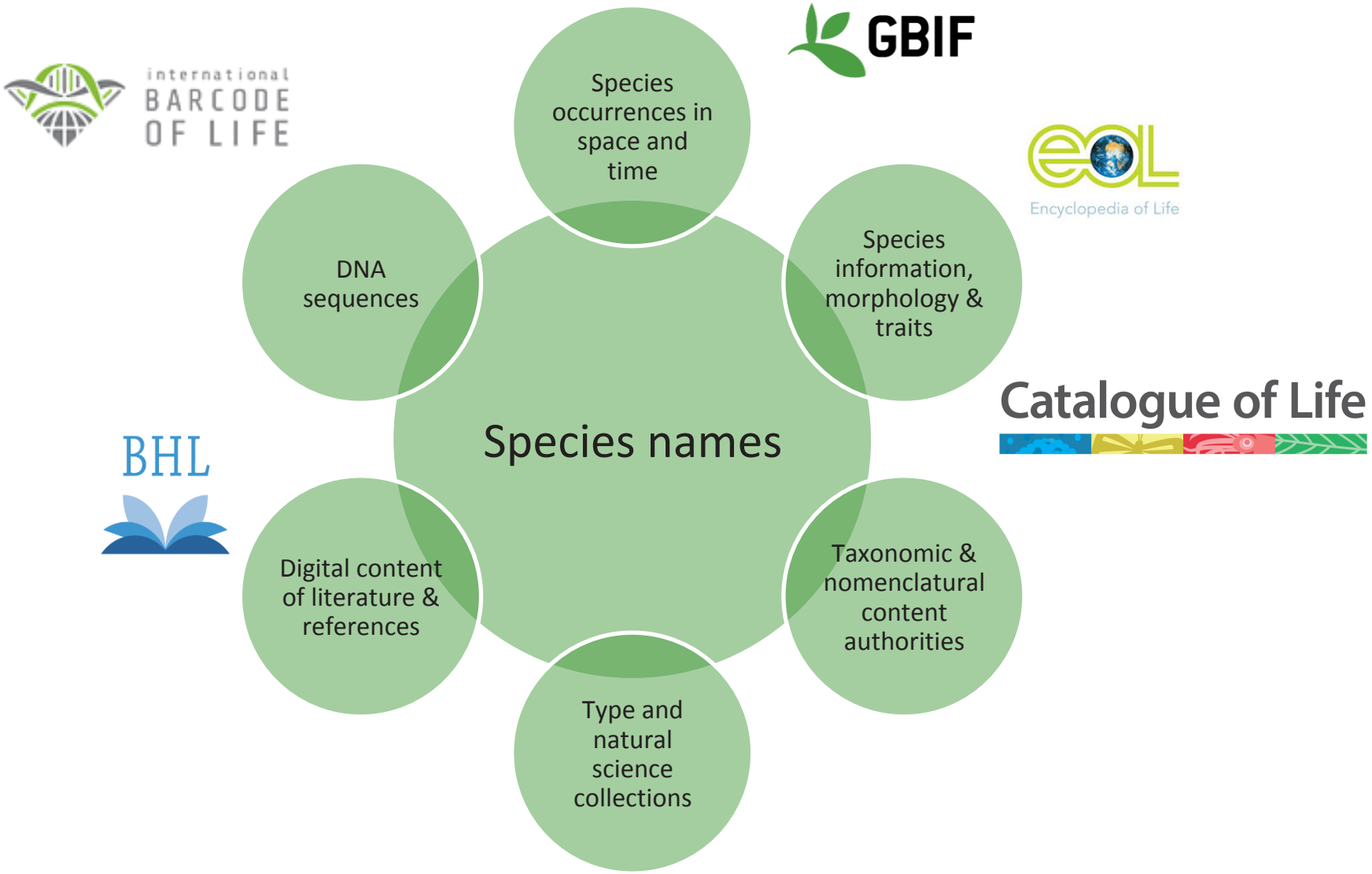
New COL+ infrastructure

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

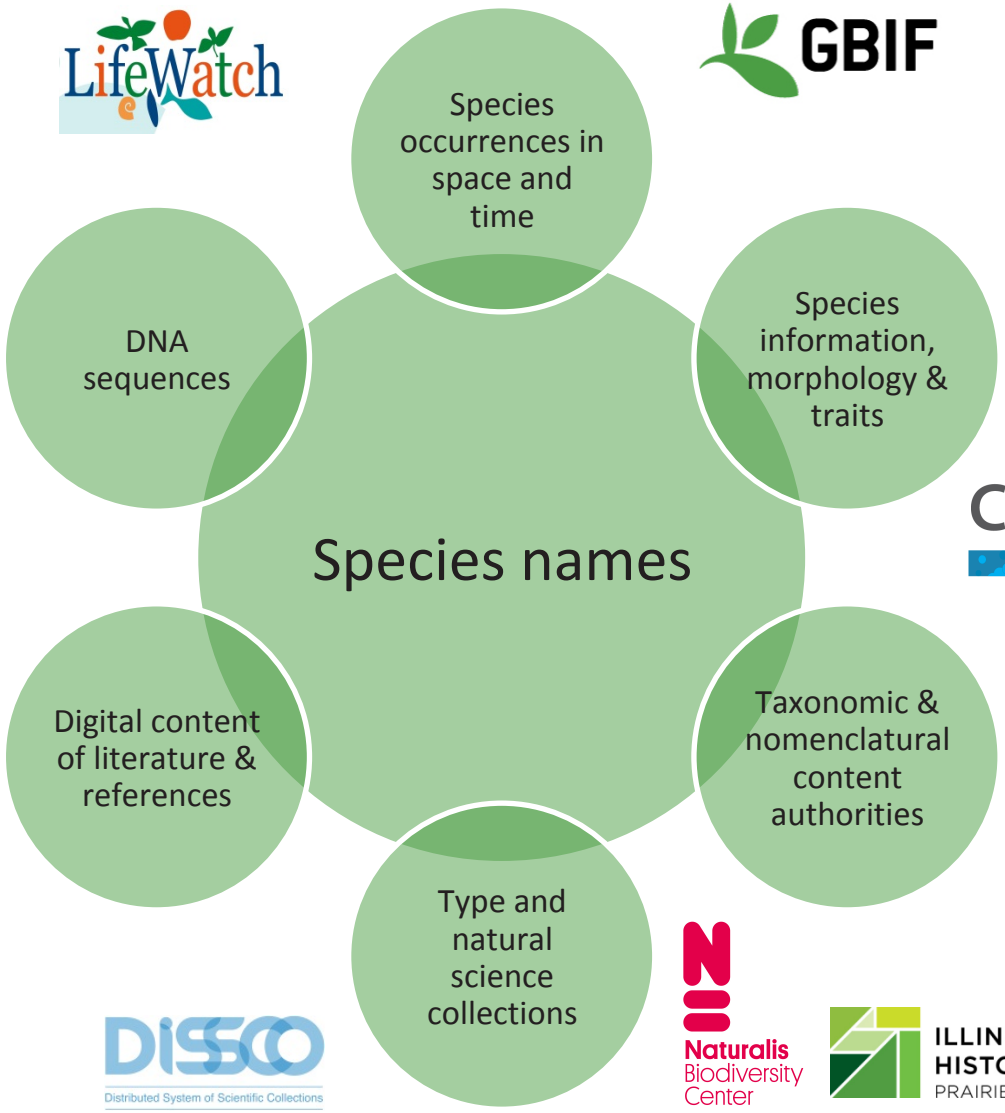


https://github.com/Sp2000/colplus

COL+ BUILDING A GLOBAL VISION



PROGRESS IN BUILDING THE CONSORTIUM



LifeWatch

GBIF

international BARCODE OF LIFE

eol Encyclopedia of Life

Catalogue of Life

BHL

ZooBank

I·P·N·I

World Flora Online

PLAZI TAKING CARE OF FREEDOM

ITIS

WoRMS World Register of Marine Species

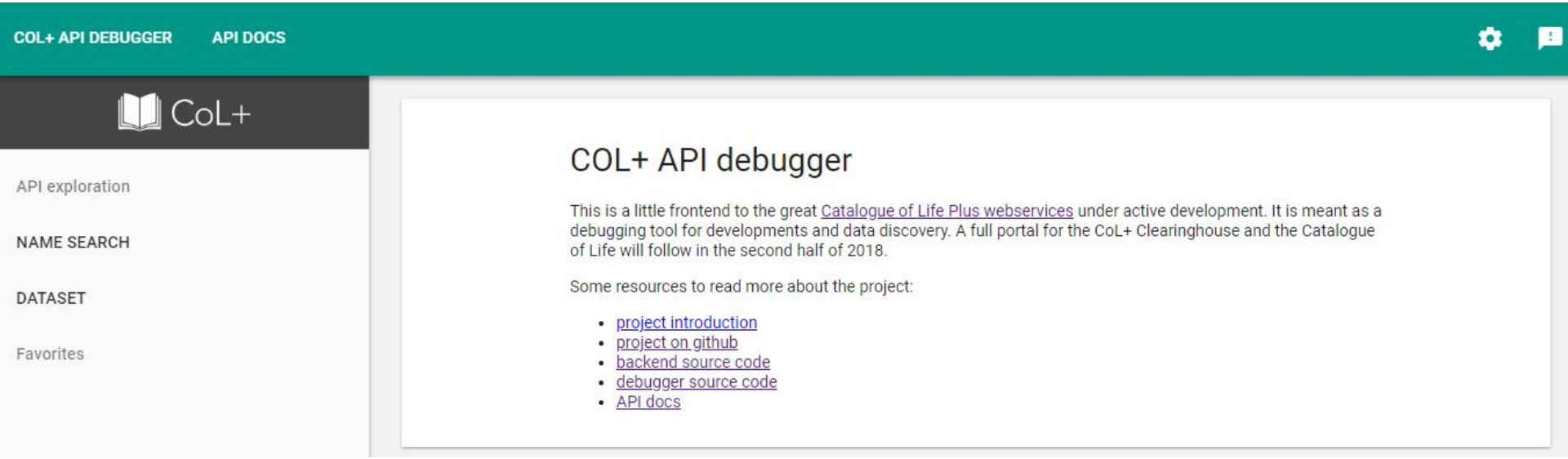
DiSSCo Distributed System of Scientific Collections

Naturalis Biodiversity Center

ILLINOIS NATURAL HISTORY SURVEY PRAIRIE RESEARCH INSTITUTE

CETAF CONSORTIUM OF EUROPEAN TAXONOMIC FACILITIES

PROGRESS: DATA STORE MILESTONE



CoL+ project documentation

CoL+ slide doc

API installation & documentation

http://api.col.plus

Work in progress, frequent changes

Quick debugger frontend

http://tools.col.plus/

Documentation & source code

https://github.com/Sp2000/colplus

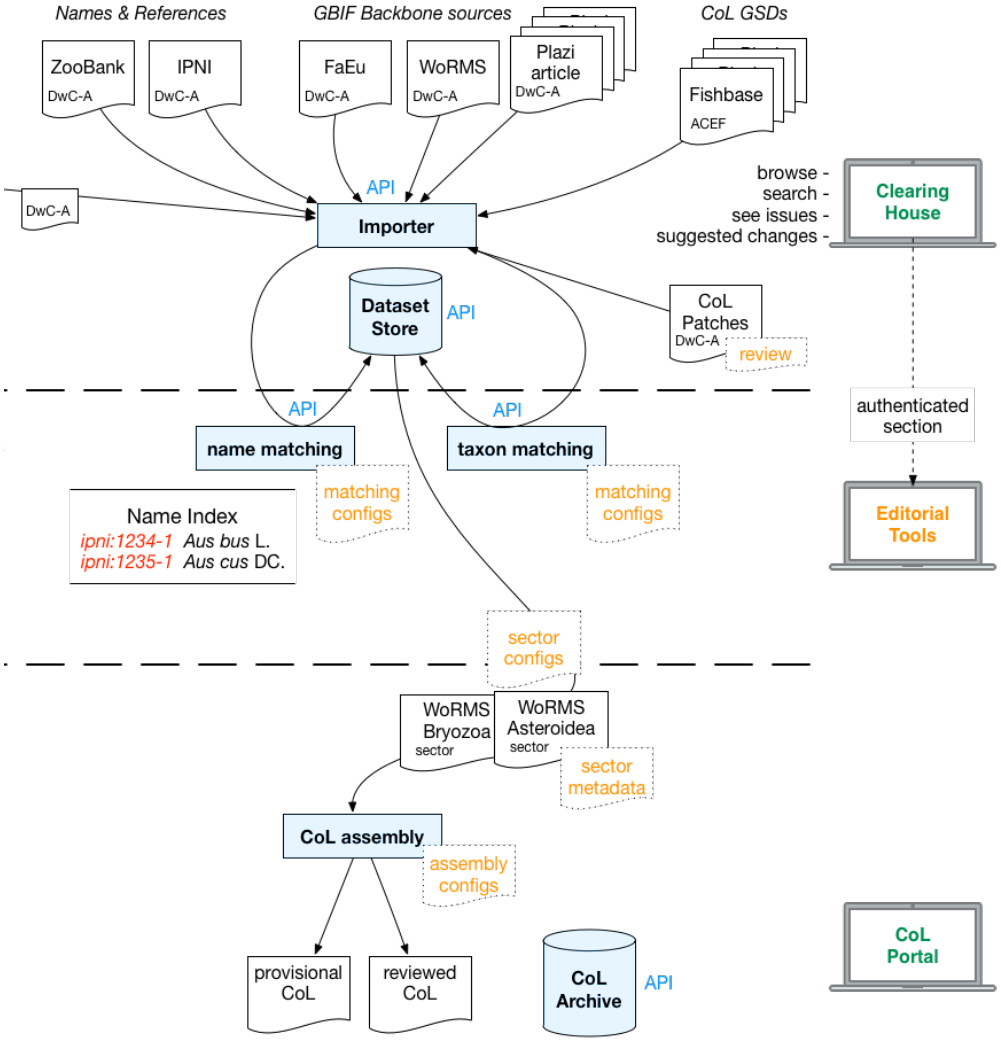
https://github.com/Sp2000/colplus-backend

https://github.com/Sp2000/colplus-debugger

ACEF GSD Data

https://github.com/Sp2000/colplus-repo

DEVELOPMENT ROADMAP



Dataset Store √

Importer √

Names Index

Editorial Tools

Archive Store

Taxon Index

User Comments

Review Queues

Final Deployment

3 FILL DATA GAPS

3a. Identify priority gaps

New data analyst & data administrator in CPH

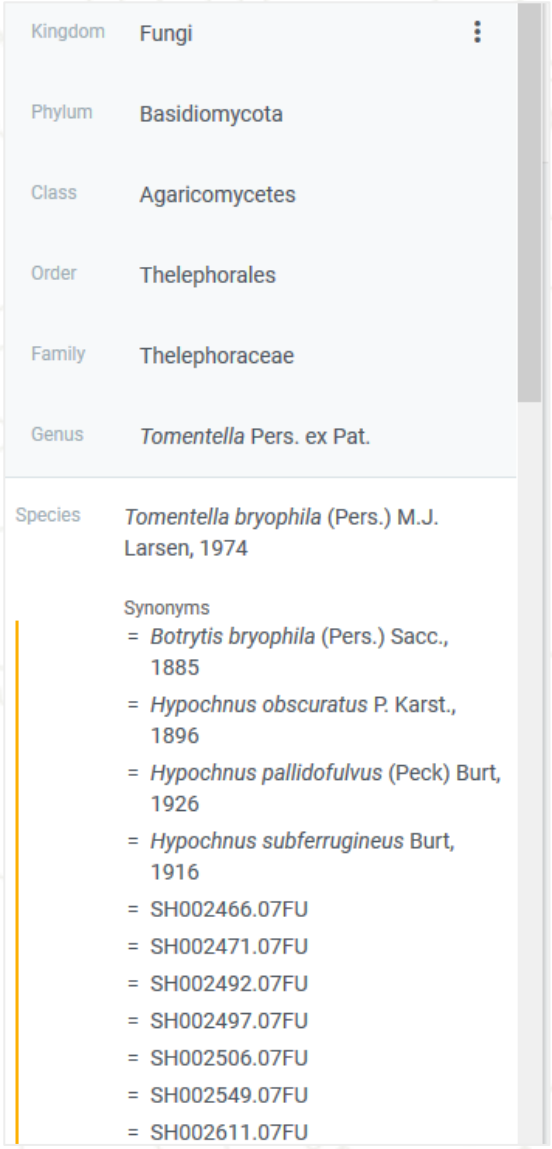
- **John Waller** and **Marie Grosjean** joined data products team on 3 April
- Will (*among other things*) synthesize available tools for visualizing data gaps to support mobilization targets

3 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



https://unite.ut.ee

3 FILL DATA GAPS

3e. Liaise with journals

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

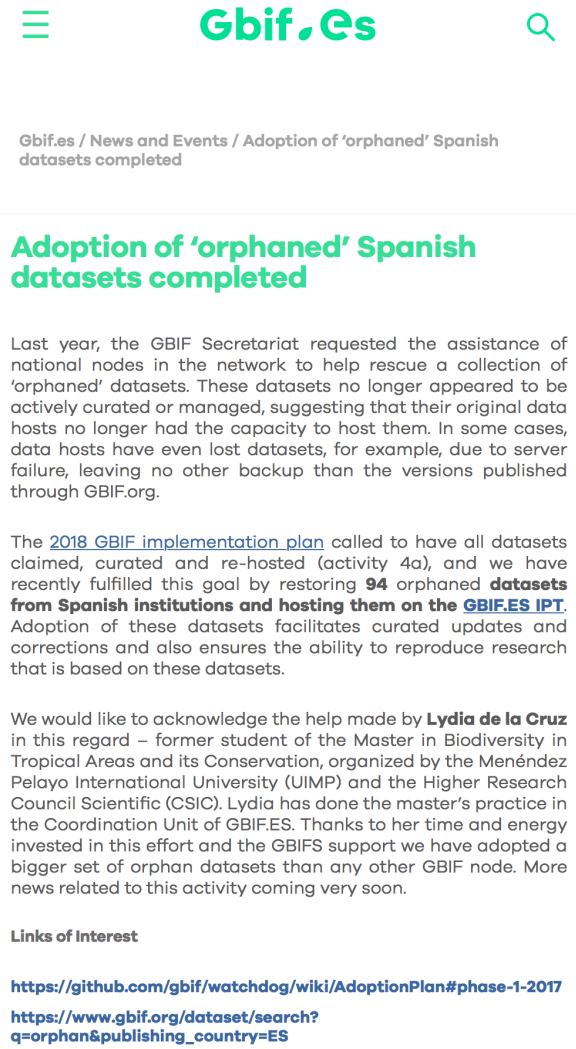
https://unite.ut.ee

4 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



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 2018 GBIF implementation plan 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 GBIF.ES IPT**. 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

https://www.gbif.es/en/proceso-de-migracion-de-las-bases-de-datos-publicadas-a-traves-de-gbif-es/

4 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?

README.md

Pipelines for data processing and indexing

Status: early development

Vision: Consistent data processing pipelines (parsing, interpretation and quality flagging) for use in GBIF, the Living Atlases project and beyond. Built to scale from laptop to GBIF volumes. Deployable on JVM, Spark, Google Cloud, .

Architecture

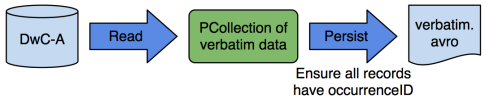
The project provides vanilla JVM-based parsing and interpretation libraries, and pipelines for indexing into SOLR and ElasticSearch, built using Apache Beam.

> Apache Beam provides a high level abstraction framework ideal for this purpose with the ability to deploy across target environments (e.g. Spark, local JVM) and with many built in connectors for e.g. HBase, SOLR, ElasticSearch etc.

Ingress

Ingress is from Darwin Core Archive (zip files of one or more "CSV"s) or ABCD Archives (compressed XML) only[1]. During ingress data is converted from it's native format and stored as Avro files containing Darwin Core compliant data.

This is depicted below:



https://github.com/gbif/pipelines

5 DELIVER RELEVANT DATA

5a. Engage academia

Secretariat and Science Committee focused on widening the reach of

- **Young Researchers Award**

Abierta convocatoria 2018 Premio GBIF Jóvenes Investigadores

GBIF.ORG ha abierto la convocatoria para optar al **Premio Jóvenes Investigadores**, dirigido a estudiantes graduados que trabajan con los datos de GBIF en sus estudios de máster o doctorado. El objeto de estos premios es incentivar la investigación en el campo de la bioinformática. Los candidatos deben realizar sus estudios en una universidad perteneciente a uno de los países con derecho a voto o asociados a GBIF. El premio consistirá en dos becas de 5.000 euros, una para cada tipo de estudiante.

En la convocatoria de 2017, Nora Escribano, estudiante de la Facultad de Ciencias de la Universidad de Navarra, fue la primera española en conseguir este galardón. Además del premio, Nora ha visto reconocido el buen trabajo realizado durante su investigación.

https://www.gbif.org/young-researchers-award

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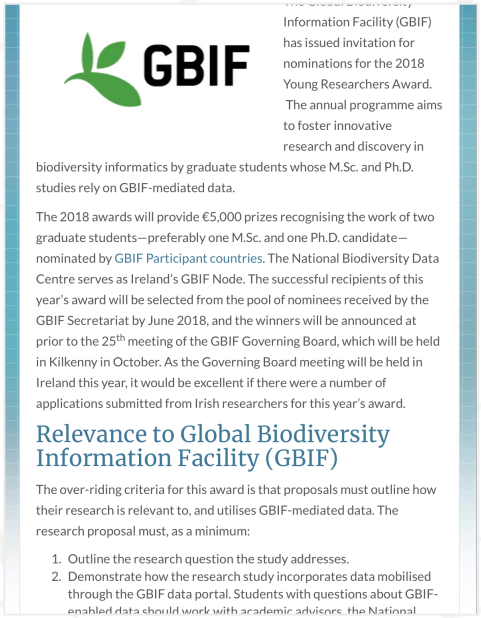

GBIF

Information Facility (GBIF) has issued invitation for nominations for the 2018 Young Researchers Award. The annual programme aims to foster innovative research and discovery in biodiversity informatics by graduate students whose M.Sc. and Ph.D. studies rely on GBIF-mediated data.

The 2018 awards will provide €5,000 prizes recognising the work of two graduate students—preferably one M.Sc. and one Ph.D. candidate—nominated by GBIF Participant countries. The National Biodiversity Data Centre serves as Ireland's GBIF Node. The successful recipients of this year's award will be selected from the pool of nominees received by the GBIF Secretariat by June 2018, and the winners will be announced at prior to the 25th meeting of the GBIF Governing Board, which will be held in Kilkenny in October. As the Governing Board meeting will be held in Ireland this year, it would be excellent if there were a number of applications submitted from Irish researchers for this year's award.

Relevance to Global Biodiversity Information Facility (GBIF)

The over-riding criteria for this award is that proposals must outline how their research is relevant to, and utilises GBIF-mediated data. The research proposal must, as a minimum:

1. Outline the research question the study addresses.
2. Demonstrate how the research study incorporates data mobilised through the GBIF data portal. Students with questions about GBIF-enabled data should work with academic advisors, the National

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5a. Engage academia

Secretariat and Science Committee focused on widening the reach of

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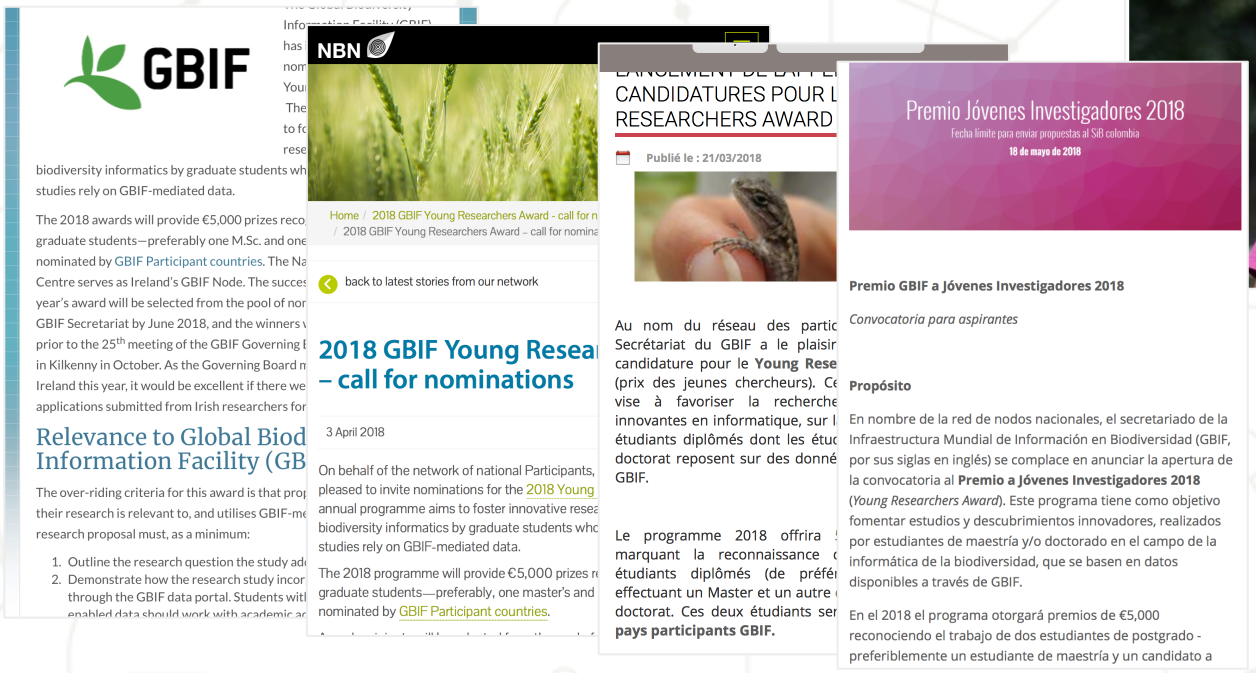
Secretariat and Science Committee focused on widening the reach of

- **Young Researchers Award**



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gbif.org/young-researchers-award

5 DELIVER RELEVANT DATA

5a. Engage academia

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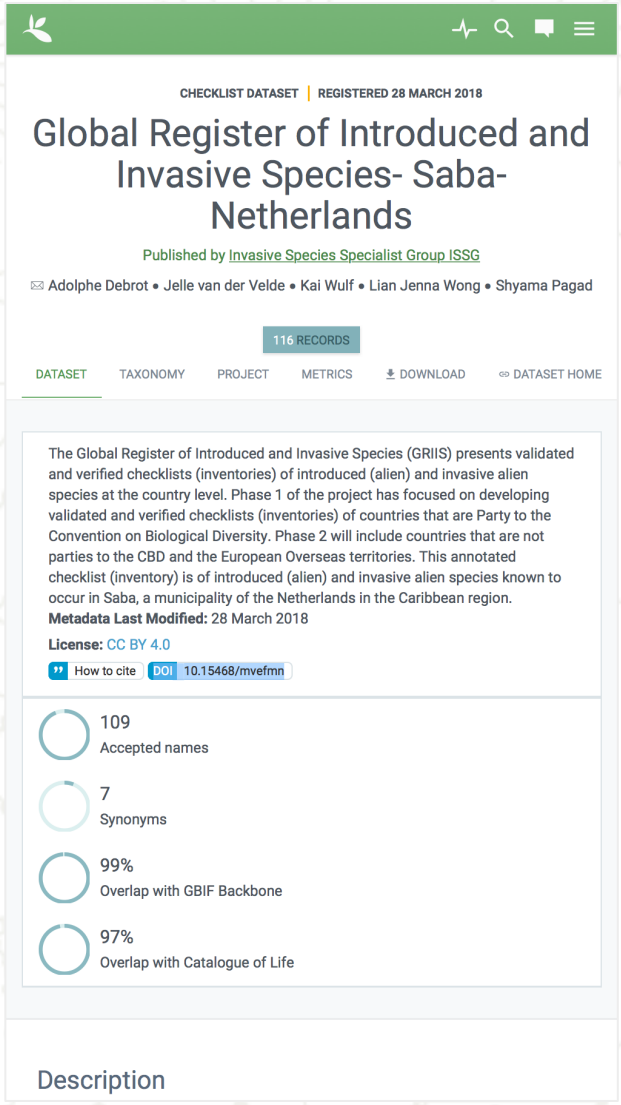
- Young Researchers Award
- **Ebbe Nielsen Challenge**

https://www.gbif.org/news/1GQURfK5jS4Iq4O06Y0EK4

5 DELIVER RELEVANT DATA

5b. Document needs

- Requirements from 2016 alien & invasive species task group assembled
- Implementation scheduled for 2nd half of 2018
- Also leverages ongoing publication of national alien species checklists by IUCN ISSG | GRIIS
- 10 new national lists published since January



https://www.gbif.org/news/83005
https://www.gbif.org/news/80f4taFSTu8kgkMU2qcqe

5 DELIVER RELEVANT DATA

5b. Support biodiversity assessment

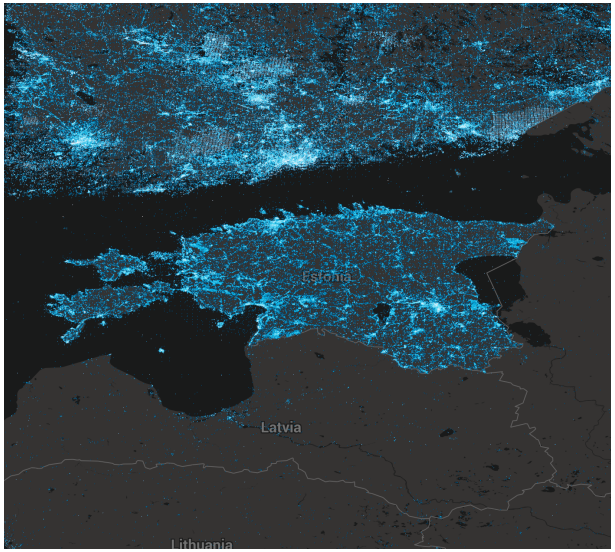
MOU signed with IPBES

- Expected to emphasize **national-level links** between nodes and IPBES focal points
- Seeking best examples of **node guidance**, i.e. Belgium, Colombia
- **Integrating GBIF-relevant data networks** into UNEP-WCMC project on developing national biodiversity and ecosystem assessments for selected countries (CO, CM, VN, ET, BH et al.)
- Proactive global and national engagement prior to launch of **2019 I&AS assessment**

https://www.gbif.org/news/2ggIFqrxre4im4oSMeMmA2

INTERMISSION

GDPR



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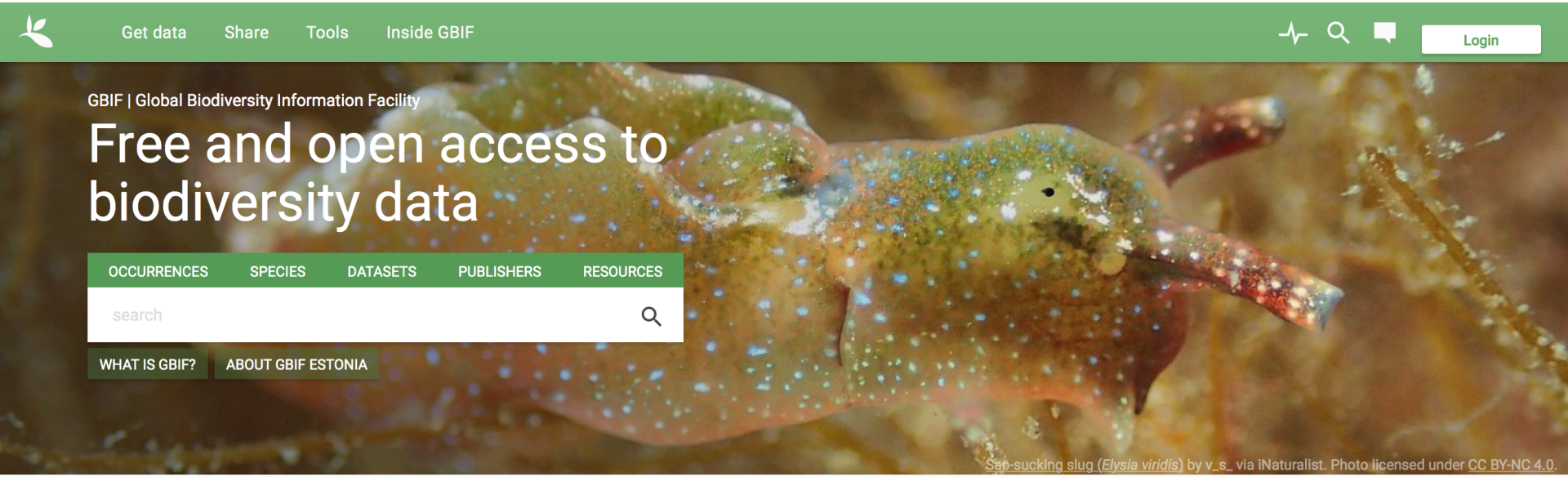
- A provocation or two for the future

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

bit.ly/gbif-wp18q2

#GBIF1billion



Occurrence records
981,456,243

Datasets
38,947

Publishing institutions
1,181

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

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

#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

https://www.gbif.org/gbif1billion

5 DELIVER RELEVANT DATA

5a. Engage academia

Biodiversity Open Data Ambassadors

Know GBIF → Use GBIF → Love GBIF → Promote GBIF

	Research	*Education*
One to many	Conference presentations Papers Social media	Lectures Courses Programmes
One to few	Seminars Interactive sessions Workshops Blogs	Data practicals Computer exercises
One to one	Project collaborations Paper collaborations Coffee talks	Supervision Instruction

NAME AND DEFINITION

BIODIVERSITY OPEN DATA AMBASSADORS

~~SCIENCE AMBASSADORS~~
~~OPEN DATA CHAMPIONS~~
~~GBIF DATA AMBASSADORS~~

Programme will seek to support established researchers with strong publication / teaching record. Profile likely includes:

- Hands on experience with GBIF data access, analysis and citation
- Pro user of GBIF.org, API, R libraries.
- Willing to maintain regular contact with Node / Secretariat

*Title **and** role*

Internationally clear and unambiguous

GBIF awarded

General enough for all data actions: use, citation, archival etc.

Nodes guidance document emphasizes value of having a ”person with a scientific background, knowledge of the relevant research communities, and the ability **to motivate and communicate** with data holders, data users and those engaged in policy development”—an ideal national contact for Biodiversity Open Data Ambassadors

BIODIVERSITY OPEN DATA AMBASSADORS
PROPOSED PROCESS

- Nodes, committee members or Secretariat invite potential ambassadors, explain concept, and direct them to web form
  (candidates may also self-select & submit through GBIF.org)
- Web form includes agreement to open data norms/ principles and interest in taking on the role
- Secretariat checks submissions and forwards relevant ones to nodes (or Nodes Steering Group) for endorsement,
- Candidate informed of decision; if accepted, presented with badge, toolkit, etc., to start work

TIMELINE

2016	Original idea: Olaf Bánki
Sep 2017	Presentation & discussion Global Nodes Meeting
Feb 2018	Concept refined with SC & NSG
Mar 2018	Action plan developed
Apr 2018	Presentation and approval of proposal to SC & NSG
Apr-Sep 2018	Implementation • Web content, including definition, principles, process • Web form • First nominations and names • Resources (the kit)
Oct 2018	Progress report at GB25
Nov-Dec 2018	Initial operations and refinement
2019 ->	Fully operational

Volunteers welcome!

A compact working group of five people—2 NSG, 2 SC and Dmitry—to start up programme

Contact dschigel@gbif.org

BIODIVERSITY OPEN DATA AMBASSADORS
INFORMATION AND COMMUNICATION TOOLKIT

- Definition
- Criteria
- Application form
- List of ambassadors
- Useful GBIF webpages, always at hand: dataset classes, citation guidelines, R and Python, library
- GBIF user guide (work in progress)
- GBIF communication strategy
- GBIF guide for Nodes -> Handbook
- GBIF monthly slides
- GBIF for science slides (1-, 3-, 10- slide versions and full set of 15 slides) including advice on access, data quality, post-processing, citation and on data publishing
- Posters and brochures: layout files to print locally
- Contacts of support team at Nodes, GBIF S
- Communication space where other ambassadors are (work in progress)

Key: not started | in progress | ready to use

1 EMPOWER GLOBAL NETWORK

1c. Equip Participant nodes

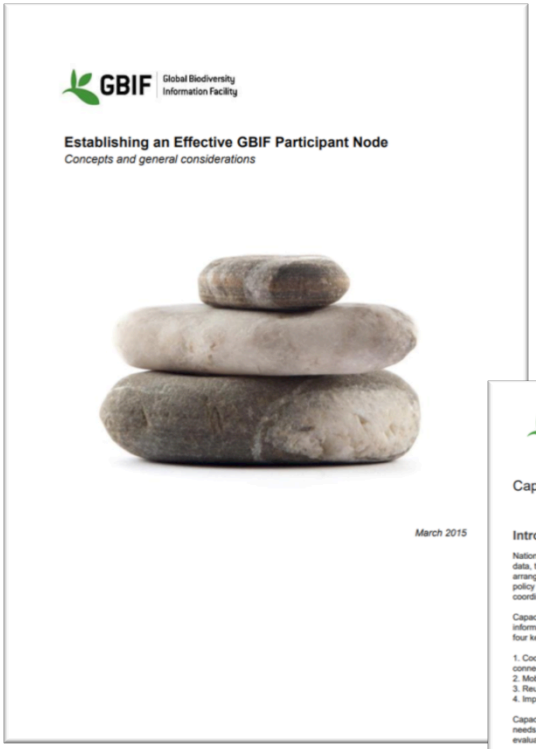
Supporting the establishment of effective Participant Nodes

https://discourse.gbif.org

UPDATES ON KEY GUIDANCE MATERIALS

Guide to establishing an effective GBIF Participant node

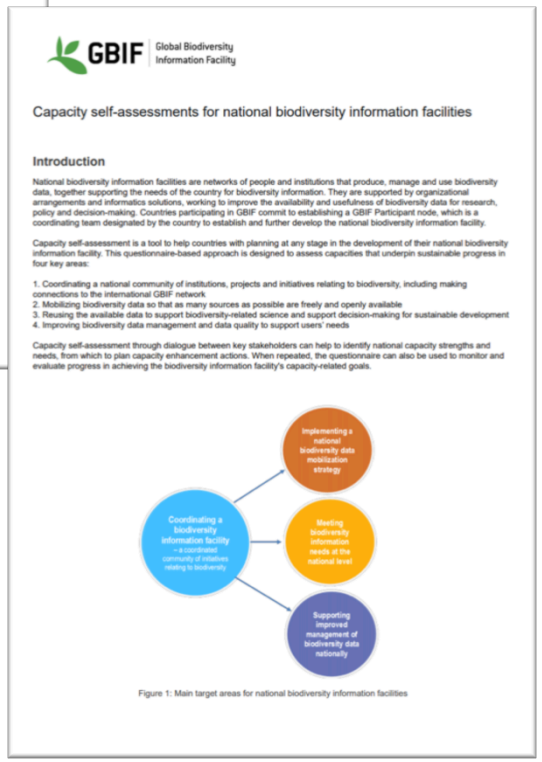
Capacity self-assessment guidelines for national biodiversity information facilities


GBIF Global Biodiversity Information Facility

Establishing an Effective GBIF Participant Node

Concepts and general considerations

March 2015


GBIF Global Biodiversity Information Facility

Capacity self-assessments for national biodiversity information facilities

Introduction

National biodiversity information facilities are networks of people and institutions that produce, manage and use biodiversity data, together supporting the needs of the country for biodiversity information. They are supported by organizational arrangements and informatics solutions, working to improve the availability and usefulness of biodiversity data for research, policy and decision-making. Countries participating in GBIF commit to establishing a GBIF Participant node, which is a coordinating team designated by the country to establish and further develop the national biodiversity information facility.

Capacity self-assessment is a tool to help countries with planning at any stage in the development of their national biodiversity information facility. This questionnaire-based approach is designed to assess capacities that underpin sustainable progress in four key areas:

1. Coordinating a national community of institutions, projects and initiatives relating to biodiversity, including making connections to the international GBIF network
2. Mobilizing biodiversity data so that as many sources as possible are freely and openly available
3. Reusing the available data to support biodiversity-related science and support decision-making for sustainable development
4. Improving biodiversity data management and data quality to support users' needs

Capacity self-assessment through dialogue between key stakeholders can help to identify national capacity strengths and needs, from which to plan capacity enhancement actions. When repeated, the questionnaire can also be used to monitor and evaluate progress in achieving the biodiversity information facility's capacity-related goals.

Figure 1: Main target areas for national biodiversity information facilities

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

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

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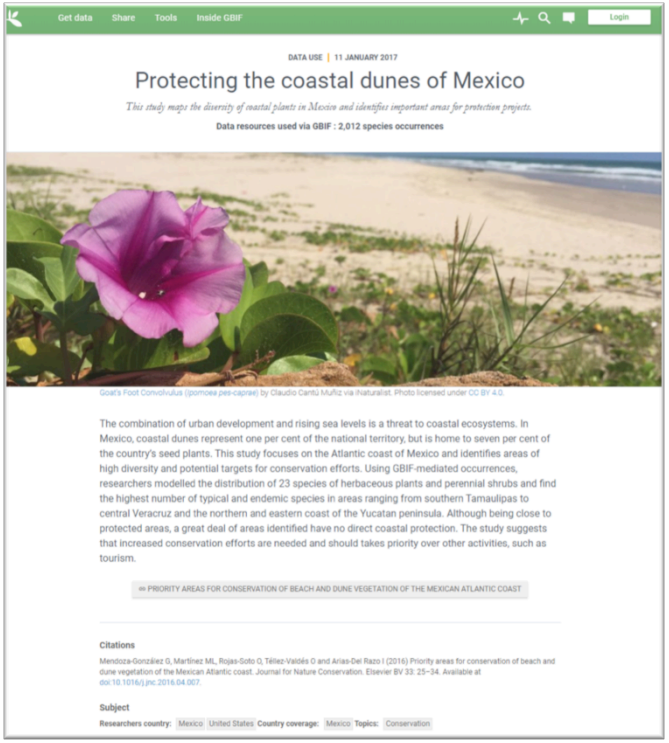
SEEKING GUIDING EXAMPLES FROM NODES



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 mraymond@gbif.org for template

VOLUNTEER MENTORS FROM THE COMMUNITY

Andry Jean Marc Rakotomanjaka mentoring participants in the first BID data mobilization workshop, Cape Town, 2015

- 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

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VOLUNTEER MENTORS FROM THE COMMUNITY

Trainers and mentors 'selfie' at BID Pacific workshop 2017

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VOLUNTEER MENTORS FROM THE COMMUNITY

Mentors at the BID Caribbean workshop, Trinidad, 2017

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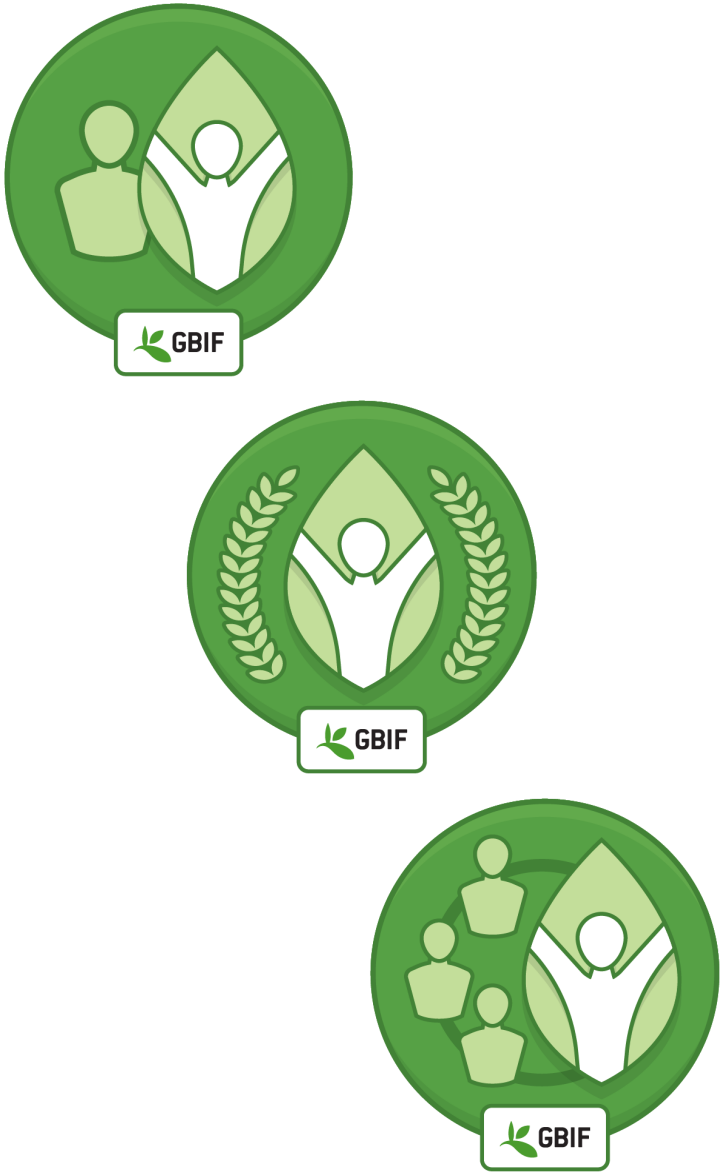
GBIF VOLUNTEER MENTORS 2018



- 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)

CAPACITY ENHANCEMENT SUPPORT PROGRAMME
2018 REVIEW

- Core programme with annual call for proposals, open only to GBIF Participants
- Co-funding to support Participant-led collaborative activities
- 22 projects funded since 2014, with six new projects to be funded this year
- Consultation with nodes in 2018 will lead to recommendations for GB25

CURRENT MENTORS FROM EUROPE

Full name	*Country*	*BID Mentor*	*BID Trainer*	*GBIF Trainer*	*GBIF Mentor*
Aaike De Wever	Belgium				
Abraham (Han) de Koeijer	Belgium				
Anders Telenius	Sweden	Yes			
Anton Van de Putte	Belgium				
ARCHAMBEAU Anne-Sophie	France	Yes			
César José Pollo Mateos	Spain				
Dag Endresen	Norway				Yes
Dimitri Brosens	Belgium	Yes			
Fabien Caviere	France				Yes
Francisco Pando	Spain	Yes			
Franck Theeten	Belgium				
Heughebaert André	Belgium	Yes			
Katia Cezón García	Spain	Yes			
Kevin Holston	Sweden				
Larissa Smirnova	Belgium				
Lien Reyserhove	Belgium				Yes
Luisa Fernanda Seixas Teixeira	Portugal				
Marco Schmidt	Germany				
Marie-Elise Lecoq	France	Yes	Yes		
Mehmet Keçeci	Turkey				
Nicolas Noé	Belgium	Yes	Yes	Yes	
Patricia Mergen	Belgium	Yes			
Paul Geerders	Netherlands				
Piotr Tykarski	Poland				Yes
Quentin Groom	Belgium				
Rui Figueira	Portugal	Yes			
Sophie Pamerlon	France	Yes	Yes	Yes	
TAÏBI Aude Nuscia	France				

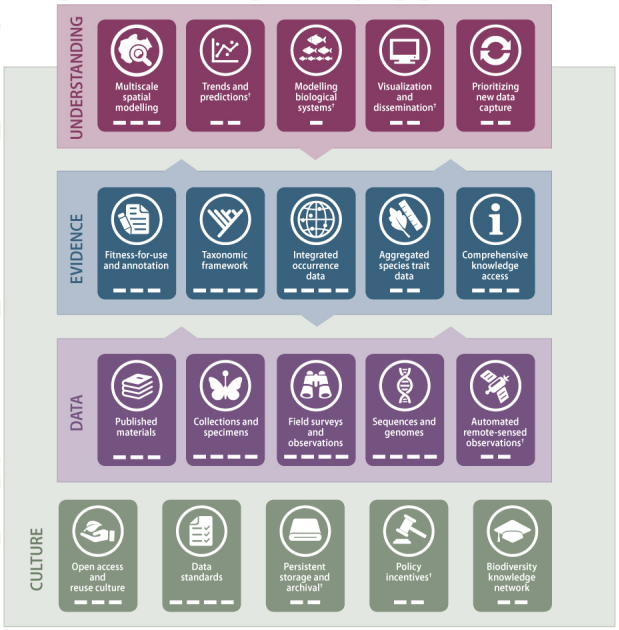
1 EMPOWER GLOBAL NETWORK

1f. Plan implementation

GBIC2

2nd Global Biodiversity Information Conference

Delivering biodiversity knowledge in the information age



https://www.biodiversityinformatics.org

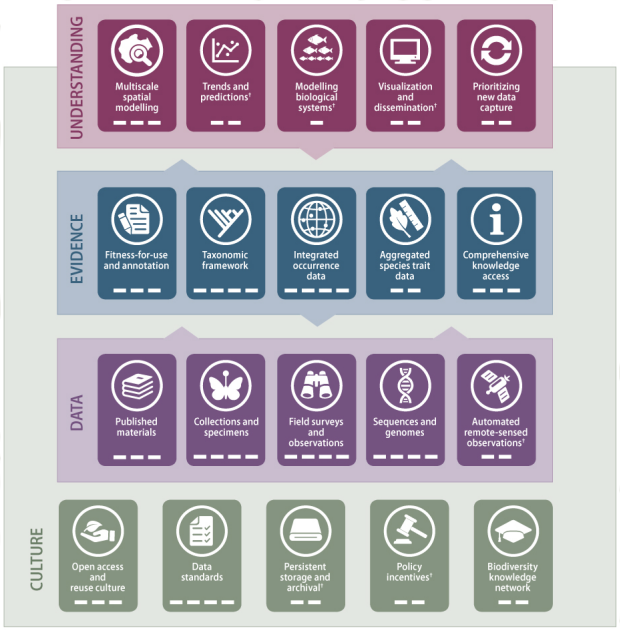
1 EMPOWER GLOBAL NETWORK

1g. Coordinate resources

GBIC2

2nd Global Biodiversity Information Conference

Delivering biodiversity knowledge in the information age



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1 EMPOWER GLOBAL NETWORK

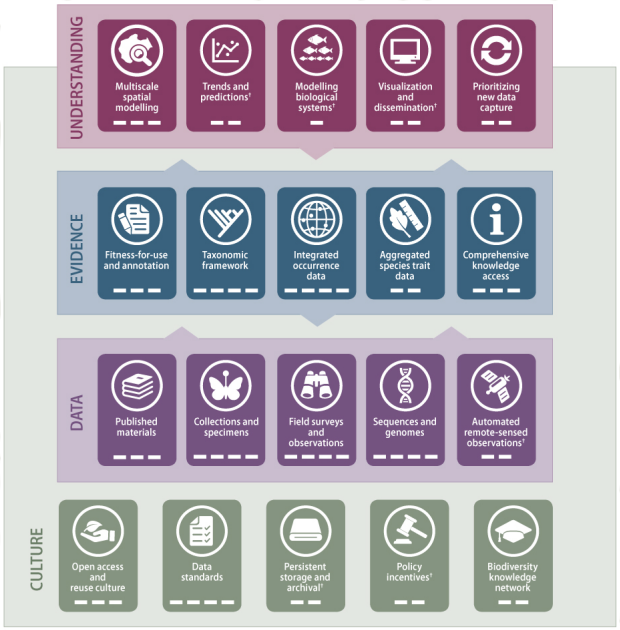
1g. Coordinate resources

GBIC2

2nd Global Biodiversity Information Conference

Delivering biodiversity knowledge in the information age

24-27 July 2018
Copenhagen



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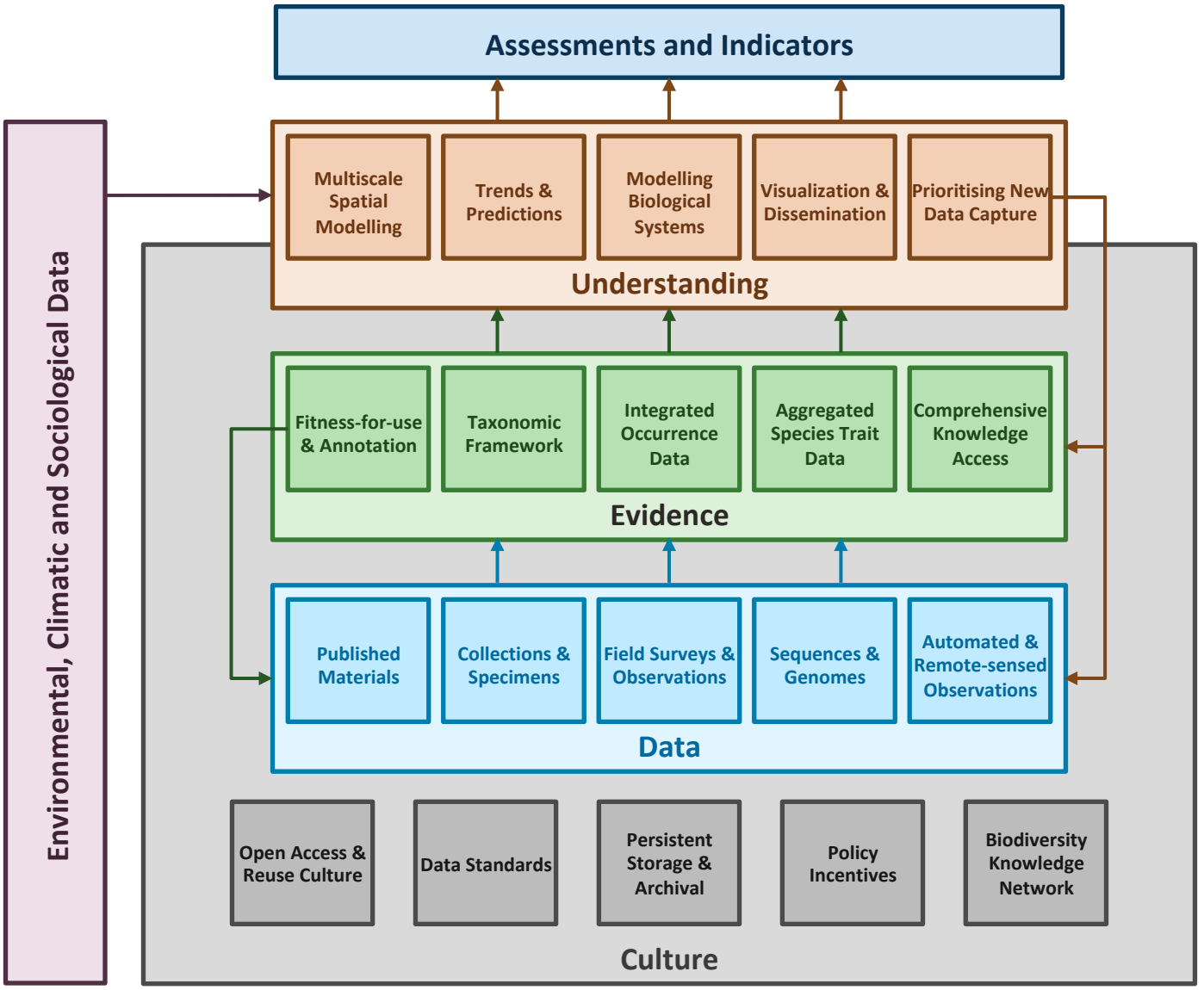
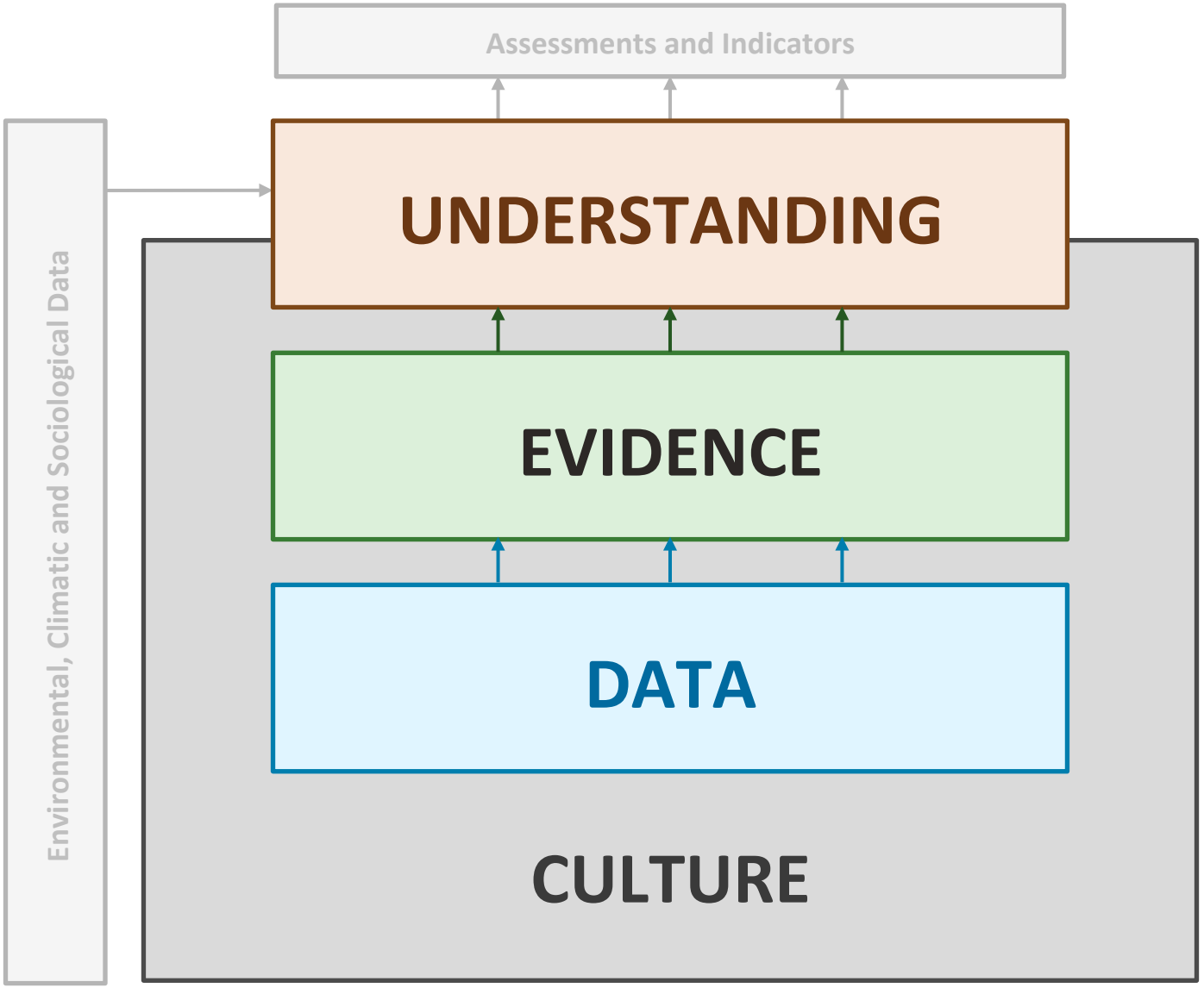
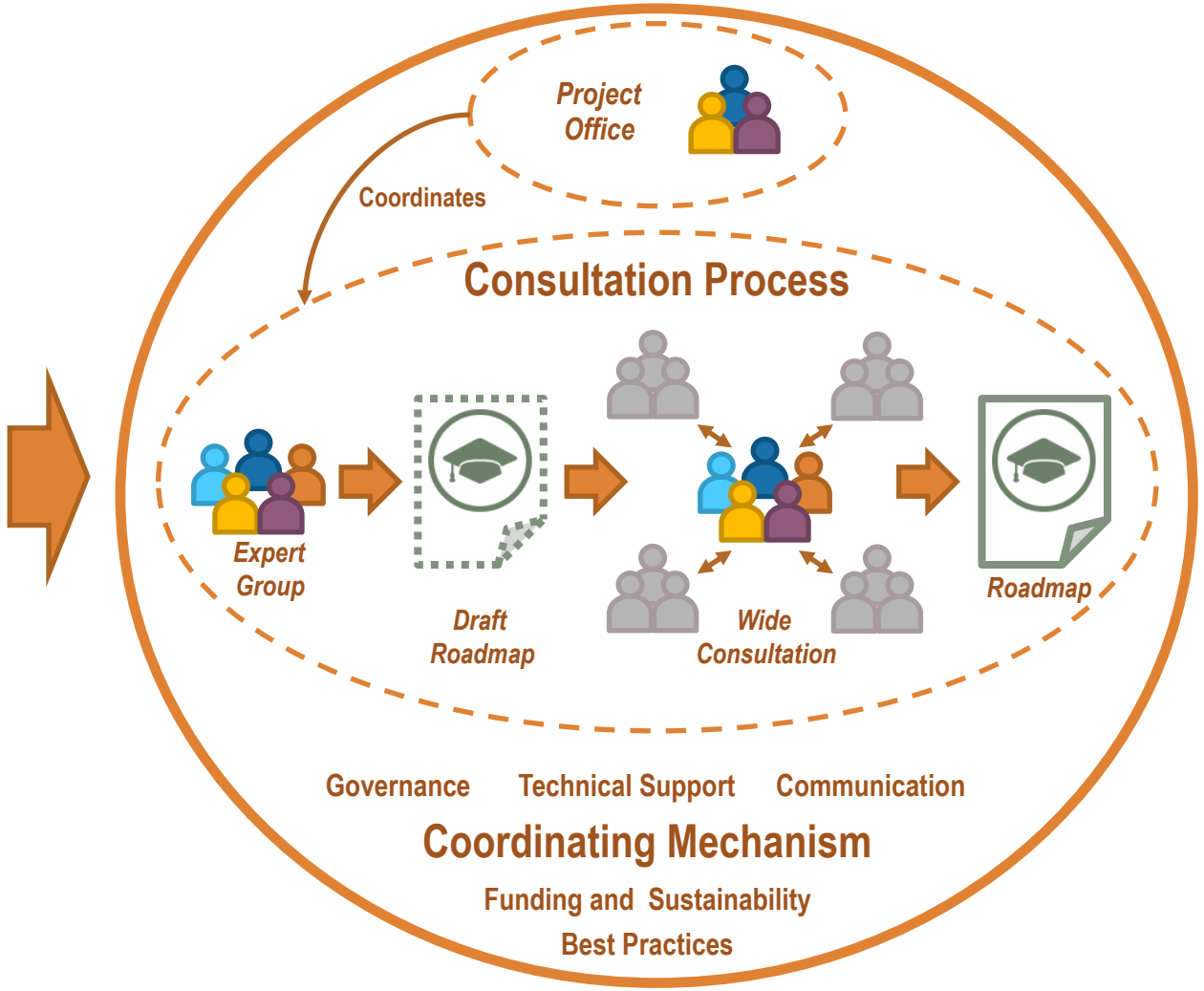
GBIO COMPONENTS



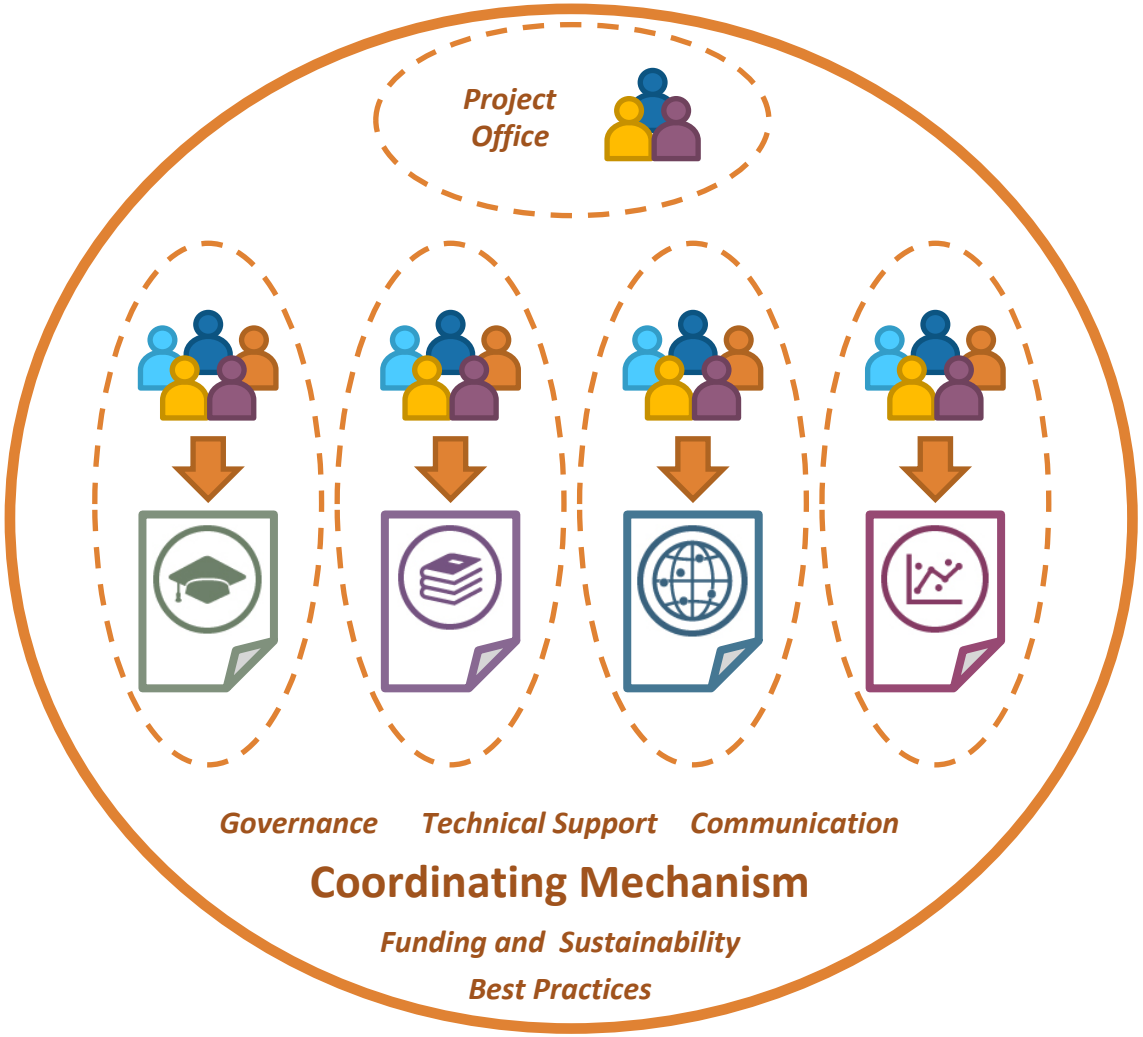
GBIF 2030 AND GBIO



GBIC2: COORDINATING GBIO IMPLEMENTATION



GBIC2: COORDINATING GBIO IMPLEMENTATION



GBIC2: COMPONENT ROADMAPS

1. Define deliverables to be achieved
2. Identify known challenges and issues
3. Document existing standards and best practices
4. Identify existing infrastructures or tools for adoption/support/ enhancement as components
5. Identify and describe missing components and required services
6. Identify dependencies or overlaps with other GBIO component areas

GBIC2: FUNDING ROADMAP IMPLEMENTATION

International institutions and projects

1. Identify potential funding sources
2. Develop funding proposals to implement components
3. Plan sustainable delivery and long-term collaboration

Roadmap project office

1. Offer guidance on alignment with international plans
2. Coordinate letters of support from global community

International partners

1. Provide requirements / advice / implementation support
2. Align activities with funded components

GBIC2: FUNDAMENTAL REQUIREMENTS

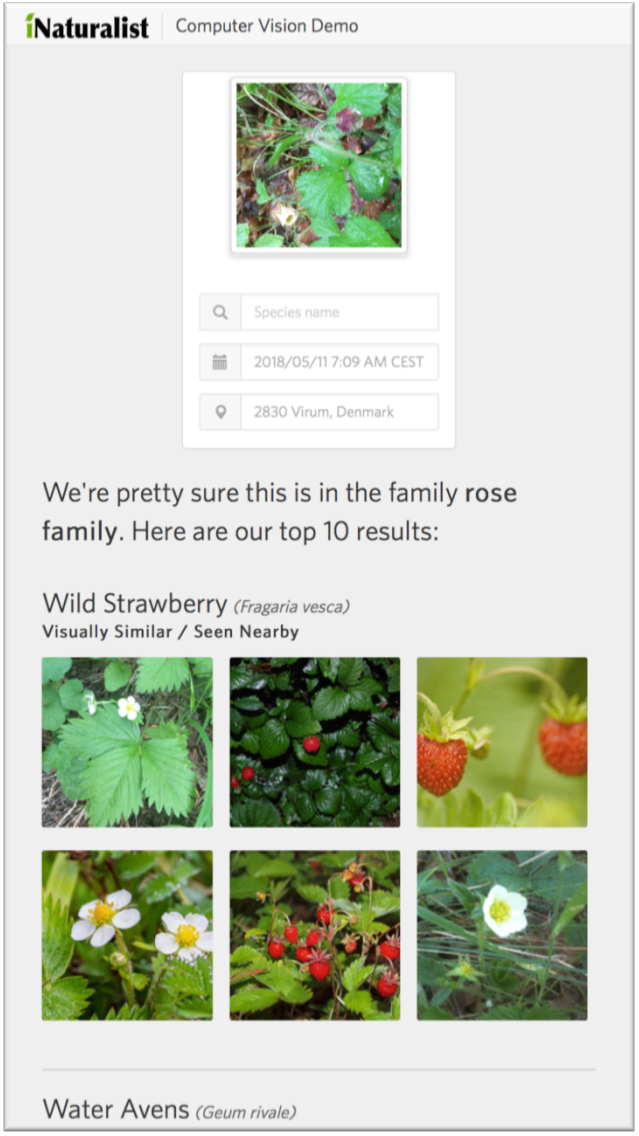
- Transparency and clear governance
- Open international collaboration
- Mechanisms to support trust between stakeholders
- Commitment to open access data culture
- Development of a common conceptual outline
- Credibility with governments and funding bodies
- Credibility with researchers and scientific bodies

GBIC2: ISSUES TO SOLVE

- Existing funding short-term project-based
- Overlapping stakeholder mandates
- Existing project timelines and milestones
- Sustainability of components
- Low levels of trust from researchers for “aggregators”
- Handling competitive attempts to implement components
- Limited engagement with some geographic regions
- Challenges of multilingual collaboration

Provocation for the future

AI | COMPUTER VISION



- The federated data in the GBIF index represents the world's largest collection of species occurrence images (23 million+)
- What is the sense of the community about the reuse of suitably licensed images in training machines to recognize species?
- Are there cultural sensitivities or barriers to such uses? If so, how do we begin to address them now?