



GBIF

Global Biodiversity
Information Facility

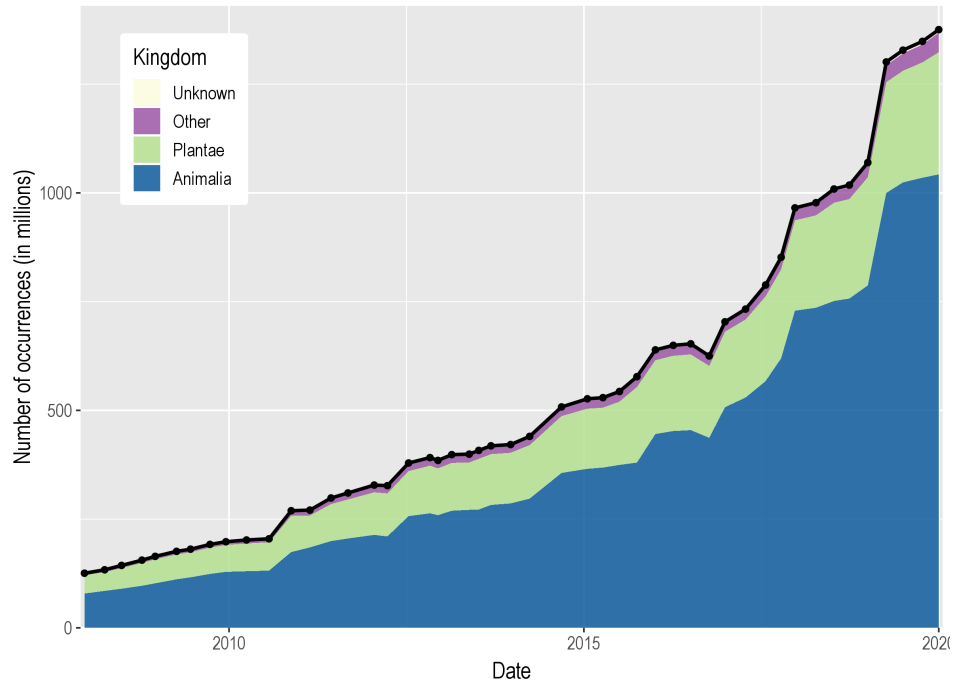
GBIF and National Biodiversity Information Facilities

*Mélanie Raymond,
GBIF Secretariat*

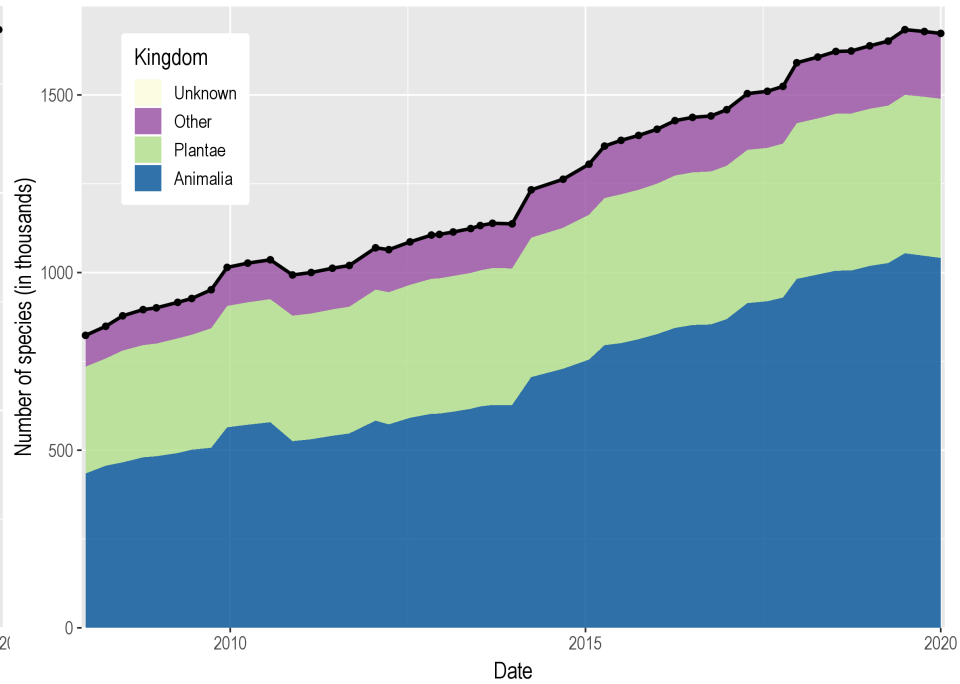
7 FEB 2020

GBIF GROWTH IN OCCURRENCE DATA

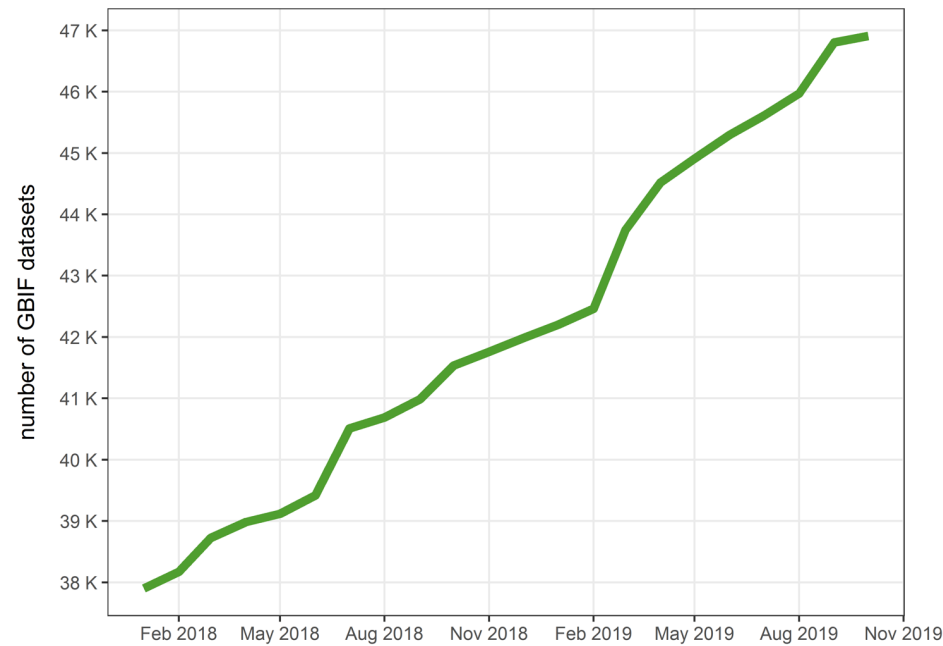
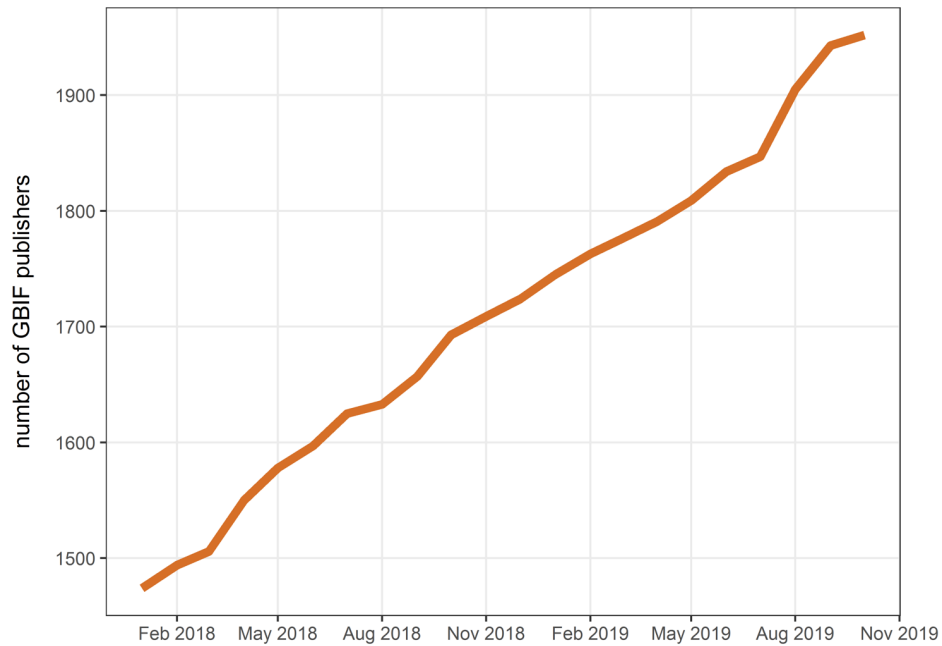
Species occurrence records accessible through GBIF over time



Number of species having occurrence records accessible through GBIF over time



GROWTH IN PUBLISHERS AND DATASETS



DATA TYPES

SAMPLING EVENT | REGISTERED OCTOBER 30, 2019

Structuring effect of environmental variables on protistan diversity patterns in two anoxic marine basins

Published by [MGnify](#)

[DATASET](#) [METRICS](#) [ACTIVITY](#) [DOWNLOAD](#) [HOME PAGE](#)

3,212 OCCURRENCES 1 CITATION

The tenet that 'everything is everywhere, but the environment selects' has influenced microbiology for several decades, and is still debated controversially. However, the proof or disproof of the hypothesis still remains difficult. Scant data from prokaryotic studies suggest that at least over large distances historical separation may overwhelm environmental effects, challenging the above mentioned hypothesis. Though, at smaller spatial scales, environmental effects seem to dominate diversity pa... [More](#)

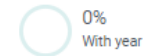
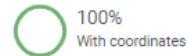
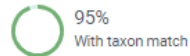
Metadata last modified: October 30, 2019

Data last changed: November 4, 2019

Hosted by: [GBIF Secretariat](#)

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How to cite: [DOI: 10.15468/cyywud](#)



3,212 GEOREFERENCED RECORDS

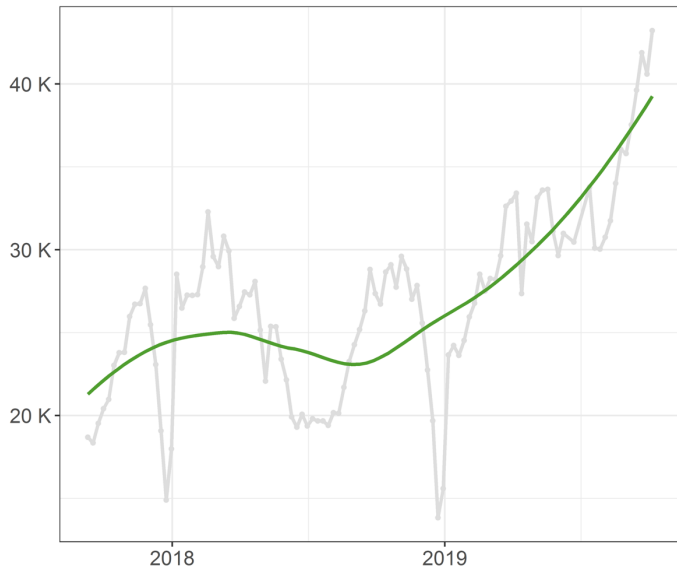


Any year

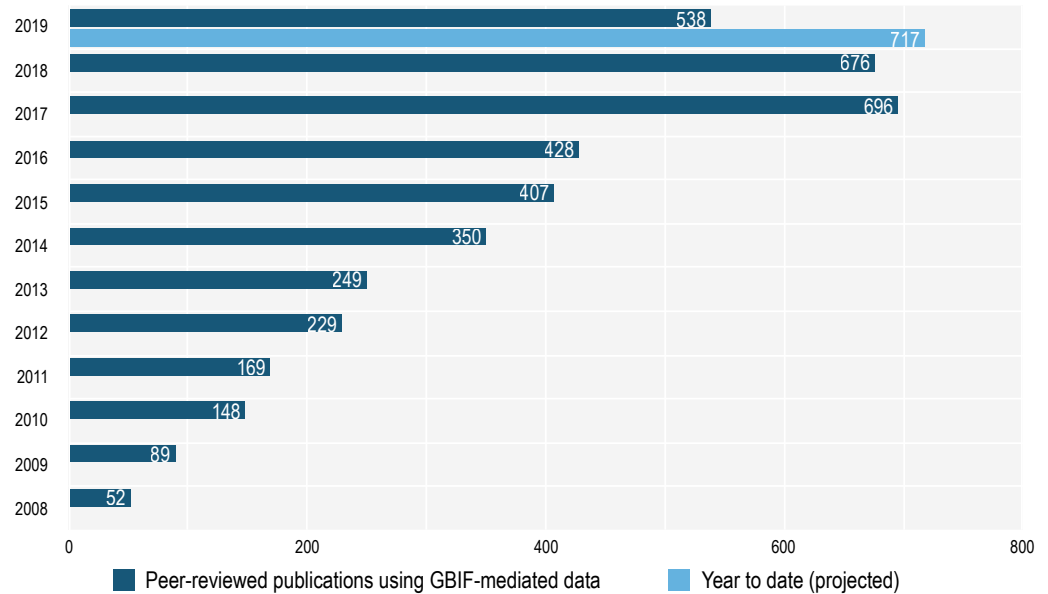
EXPLORE AREA



GROWTH IN USE



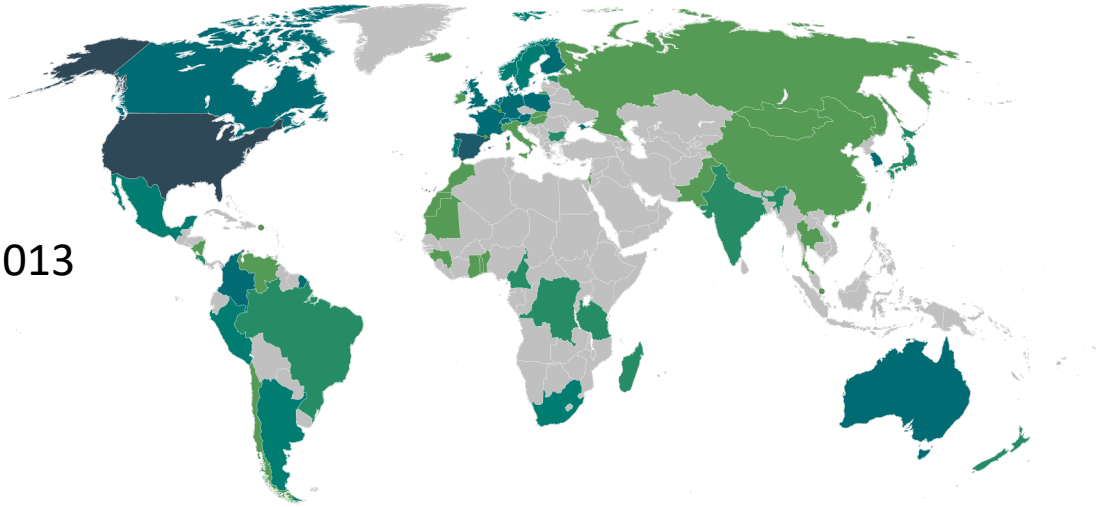
Users of GBIF.org per week
~150k per month now



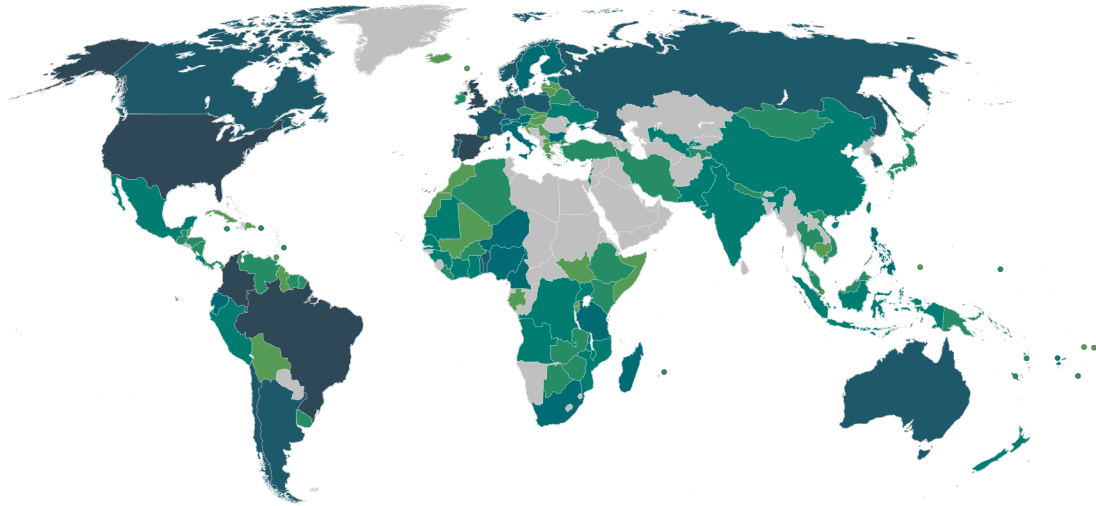
Citations of GBIF mediated data

COUNTRIES WITH DATA PUBLISHERS

September 2013



Today



THE ROLE OF NODES IN MAKING THIS POSSIBLE

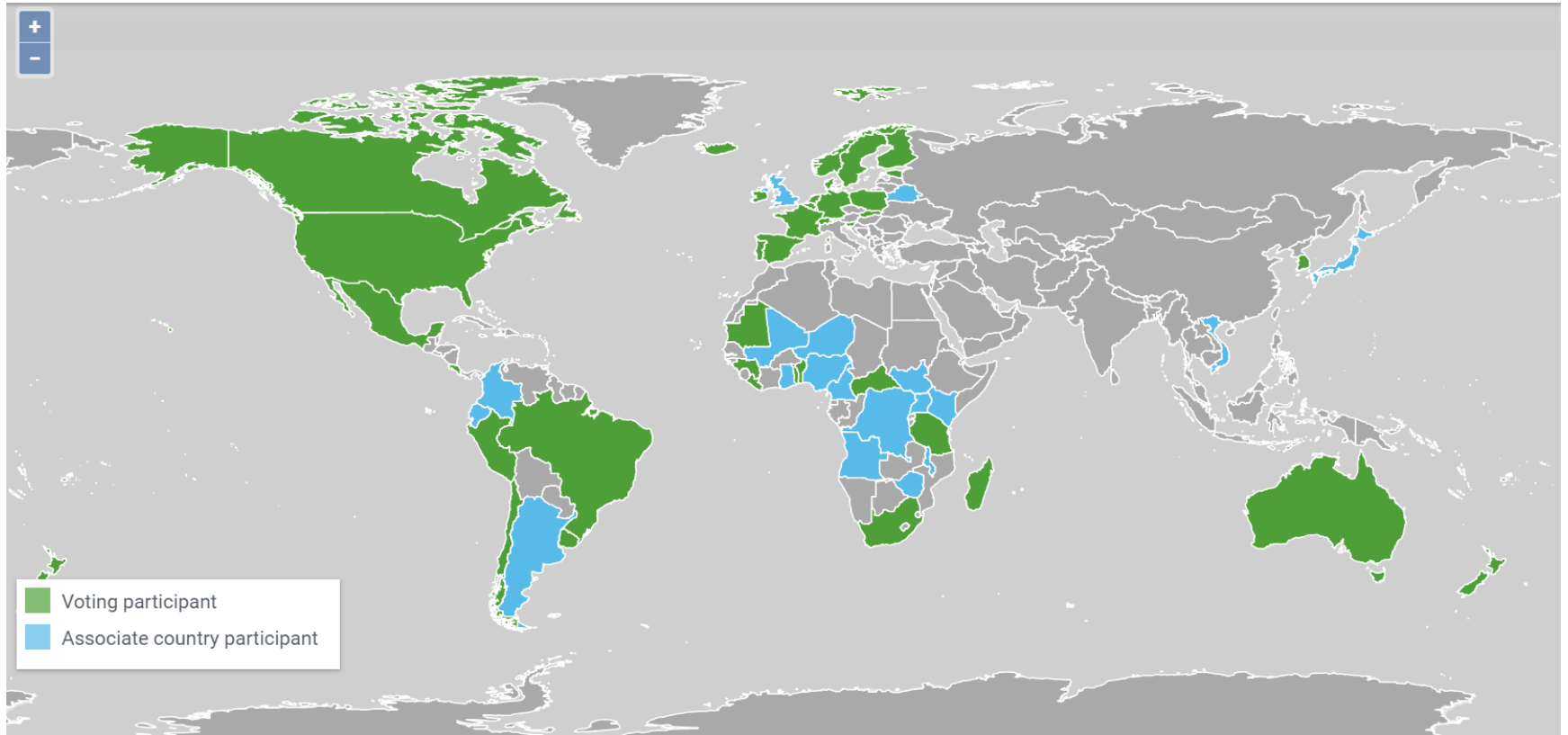
General recommendations on establishing nodes

What roles do nodes perform

What makes nodes successful

The structure and governance around a node is essential for engagement

GBIF'S SUCCESS RESTS ON STRONG NATIONAL PARTICIPATION

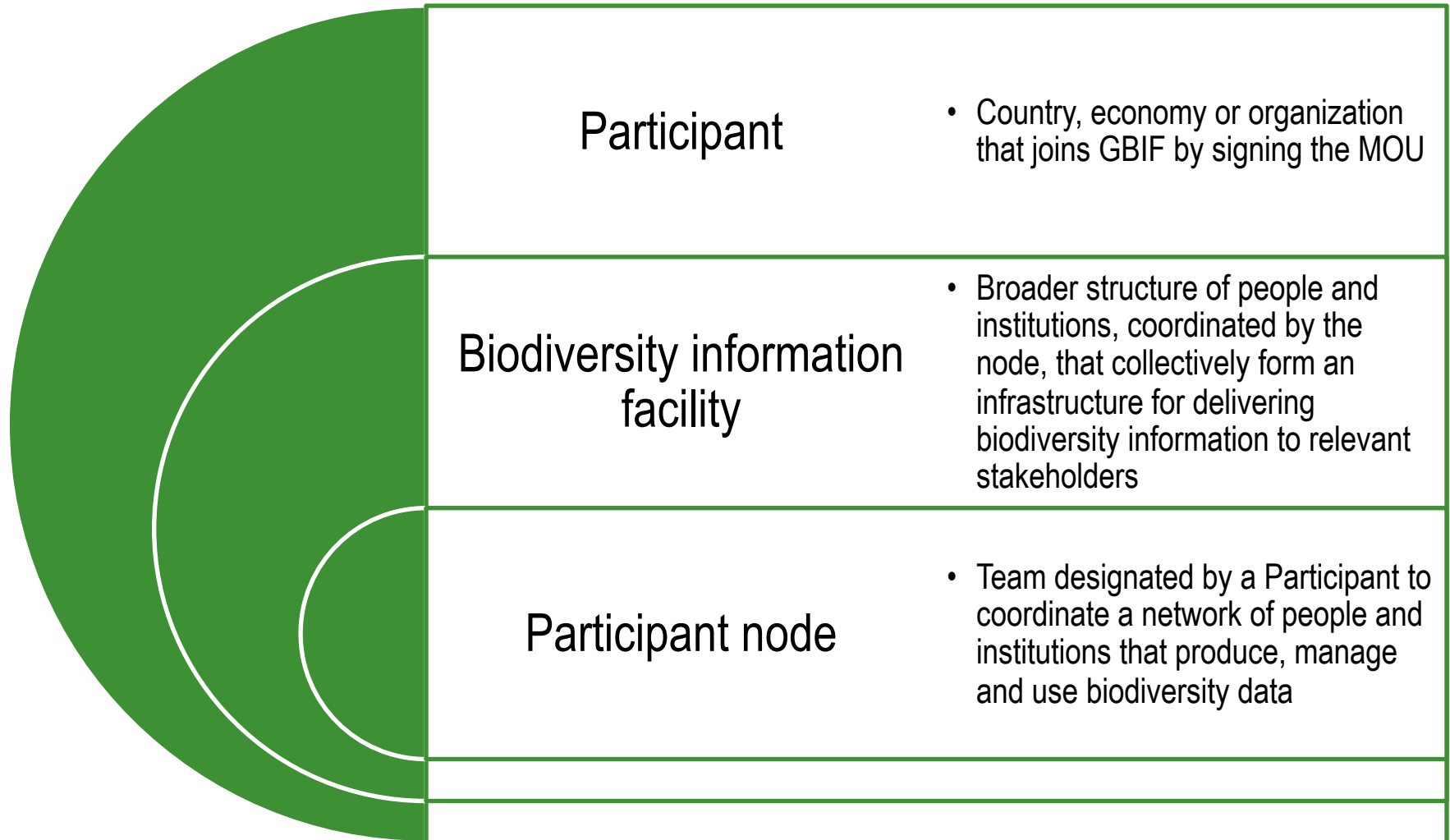


COMMITMENT IN SIGNING THE GBIF MOU

“(c) form a Participant Biodiversity Information Facility (with a Node or network of Nodes), to organise and/or provide access to biodiversity data and metadata, standards, software tools or other services to enhance the GBIF network.”



NODES AND BIODIVERSITY INFORMATION FACILITIES



TWO MAIN ROLES

Head of Delegation

- Governing board member
- Strategic direction of GBIF Participation

Node Manager

- Nodes committee member
- Managing the node team

GLOBAL AND REGIONAL COMMITTEES



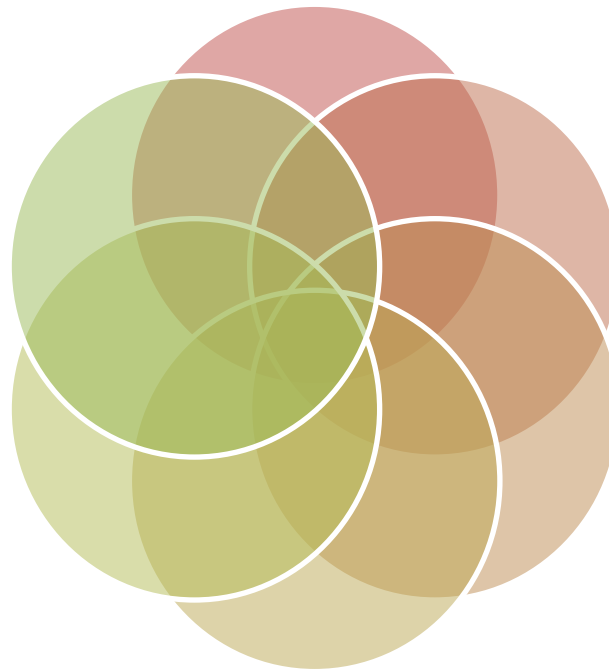
WHY PARTICIPANT NODES ARE NEEDED

Increasing the return from
past, current and future
investments in biodiversity
data collection

Supporting information
requirements for meeting
national and global
commitments

Making publication of
primary data part of the
scientific mainstream

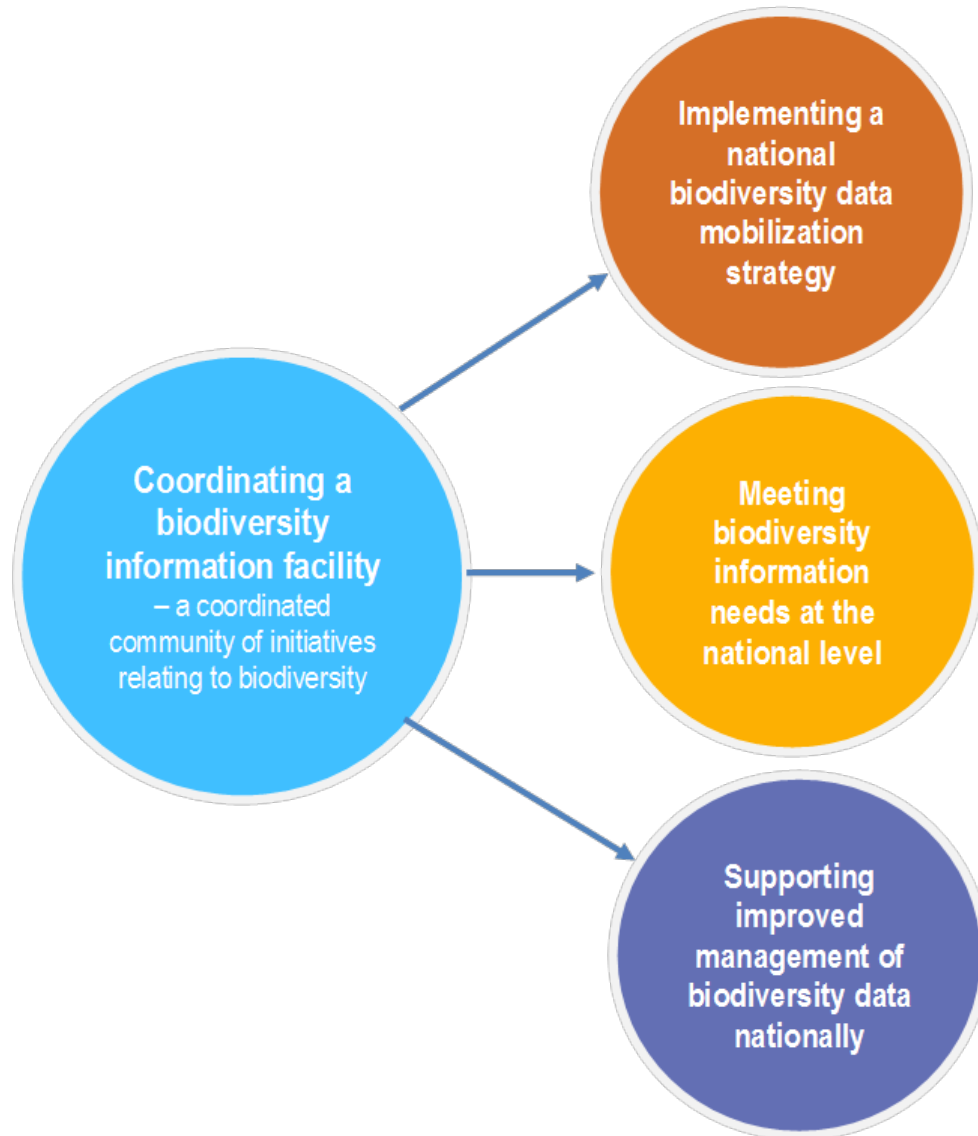
Developing capacity in
the use of collective
biodiversity data
resources



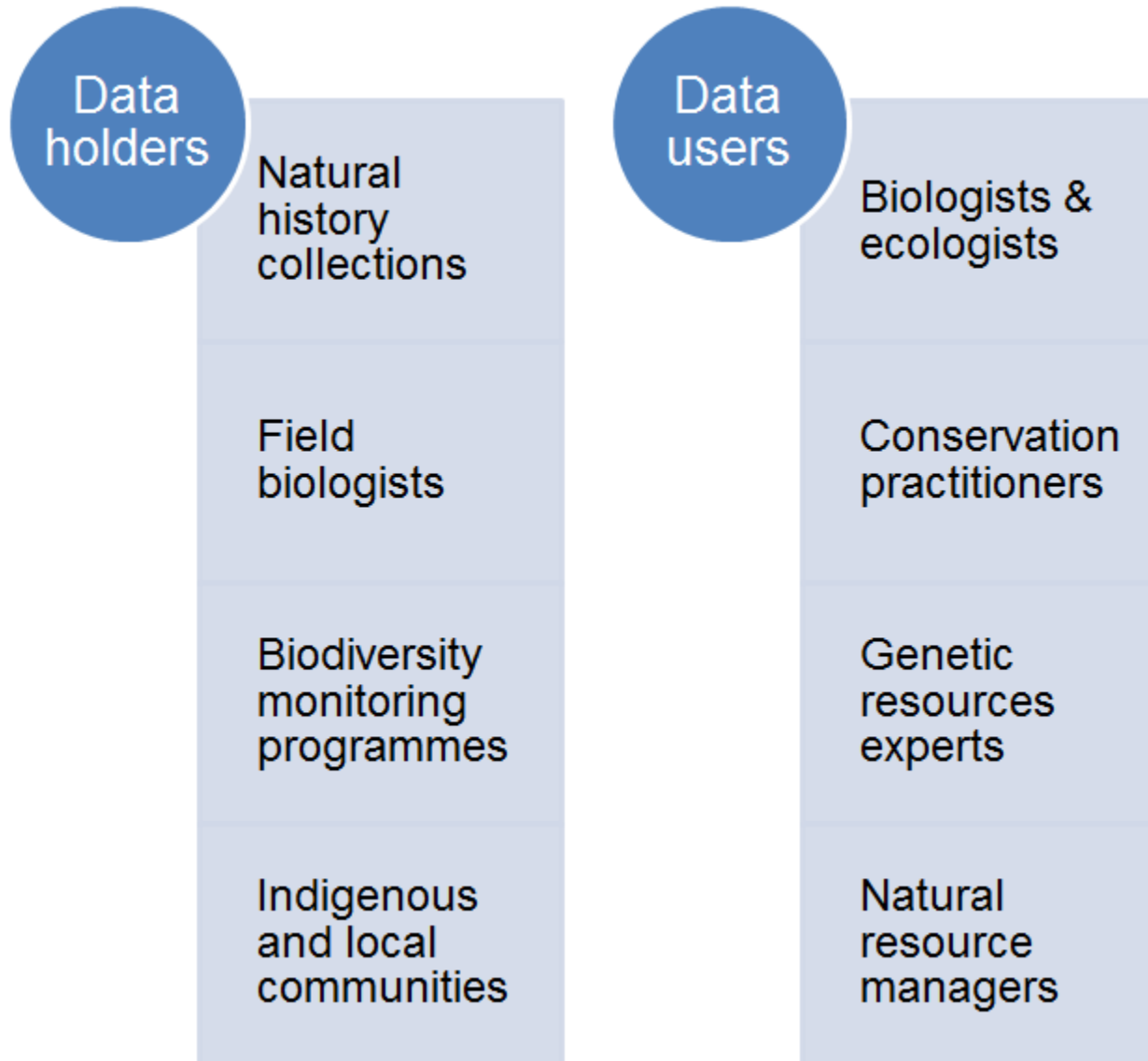
Promoting transparency
and open access

Improving data quality
through standards and
integration

KEY AREAS OF NODE ACTIVITY



STAKEHOLDERS TO ENGAGE: 5 KEY AUDIENCES



STAKEHOLDERS TO ENGAGE: 5 KEY AUDIENCES

Biological
knowledge
experts

Taxonomists

Ecologists

Nomenclatural
associations

Expert networks

Decision
makers

National govt
ministry & agency
officials

Research funding
agencies

Intergovernmental
convention
officials

Global
foundations

Public
stake-
holders

Educators

University
students

Wildlife
enthusiasts

Software
developer
community

KEY GUIDANCE MATERIALS

Guide to establishing an effective GBIF Participant node

Capacity self-assessment guidelines for national biodiversity information facilities

The image displays two key materials. The top material is the cover of a guide titled "Establishing an Effective GBIF Participant Node: Concepts and general considerations", published by the GBIF Secretariat in Version 1.0 on 2019-07-24. The cover features a photograph of ants on a green leaf. The bottom material is a screenshot of the "Online capacity self-assessment tool for national biodiversity information facilities", dated 19 MARCH 2019. The screenshot shows a navigation bar and a flowchart with three main paths: a blue path on the left, an orange path in the middle, and a dark blue path on the right, each consisting of several steps represented by arrows.

WHAT DO NODES NEED TO BE EFFECTIVE?

Functional capacity relating to organizational and institutional effectiveness

Technical capacity: the specific skills, knowledge and competencies that Participants need to mobilize, manage and use biodiversity data

FUNCTIONAL CAPACITY



Implementation & Evaluation

- Dedicated staff
- Institutional & financial support

Planning & Policy

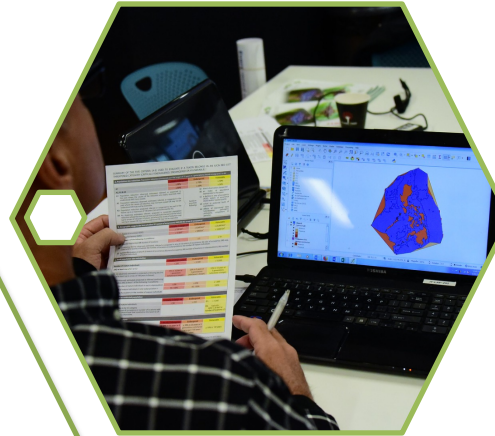
- Mandate
- Governance structure
- Work plans

Engagement

- Collaborative framework
- Communications



TECHNICAL CAPACITY



Data Analysis & Use

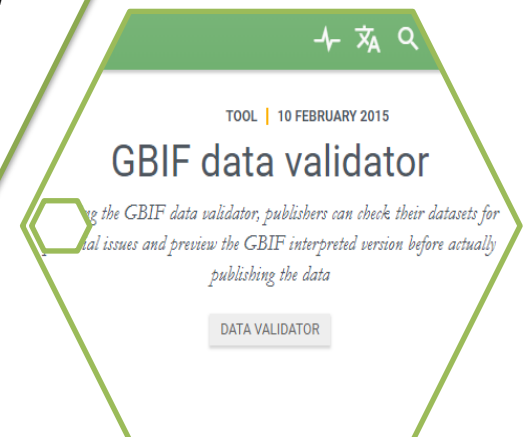
- Tools
- Information products
- Training

Data Management & Curation

- Data quality workflow

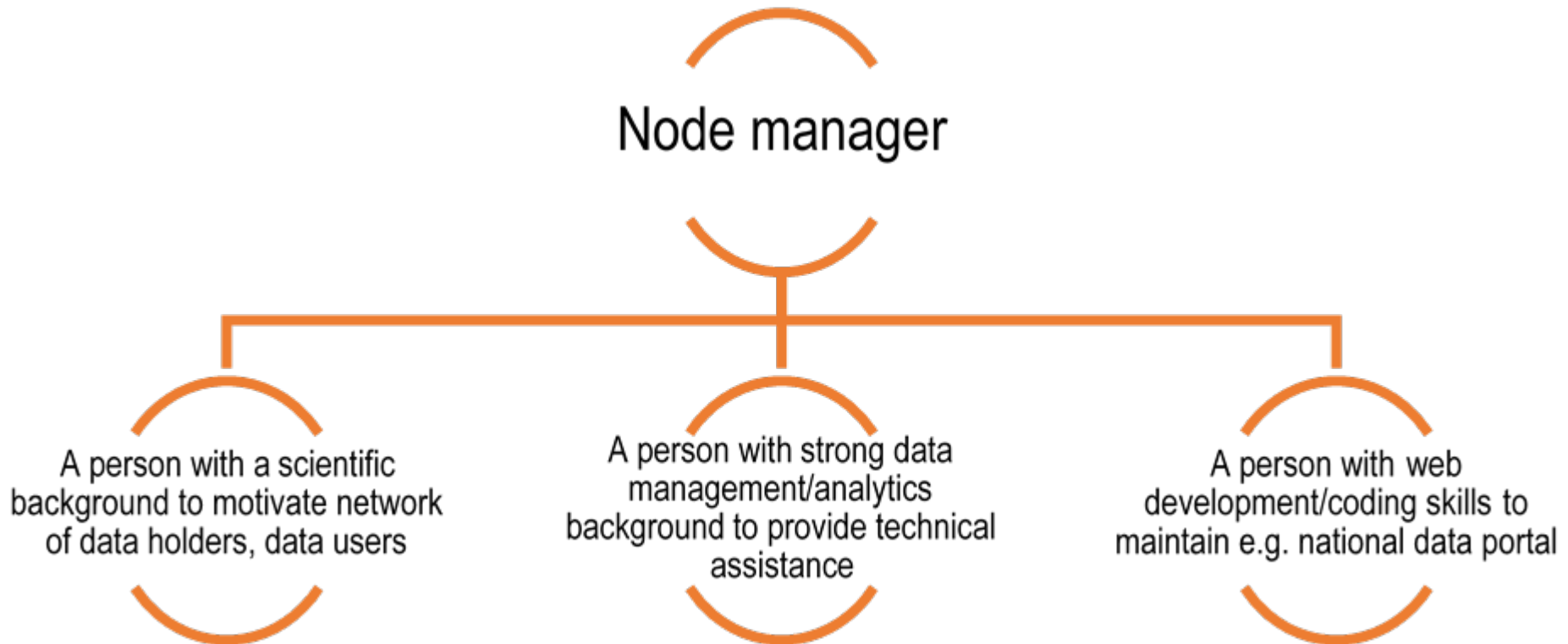
Data Mobilization

- Infrastructure
- Helpdesk
- Training

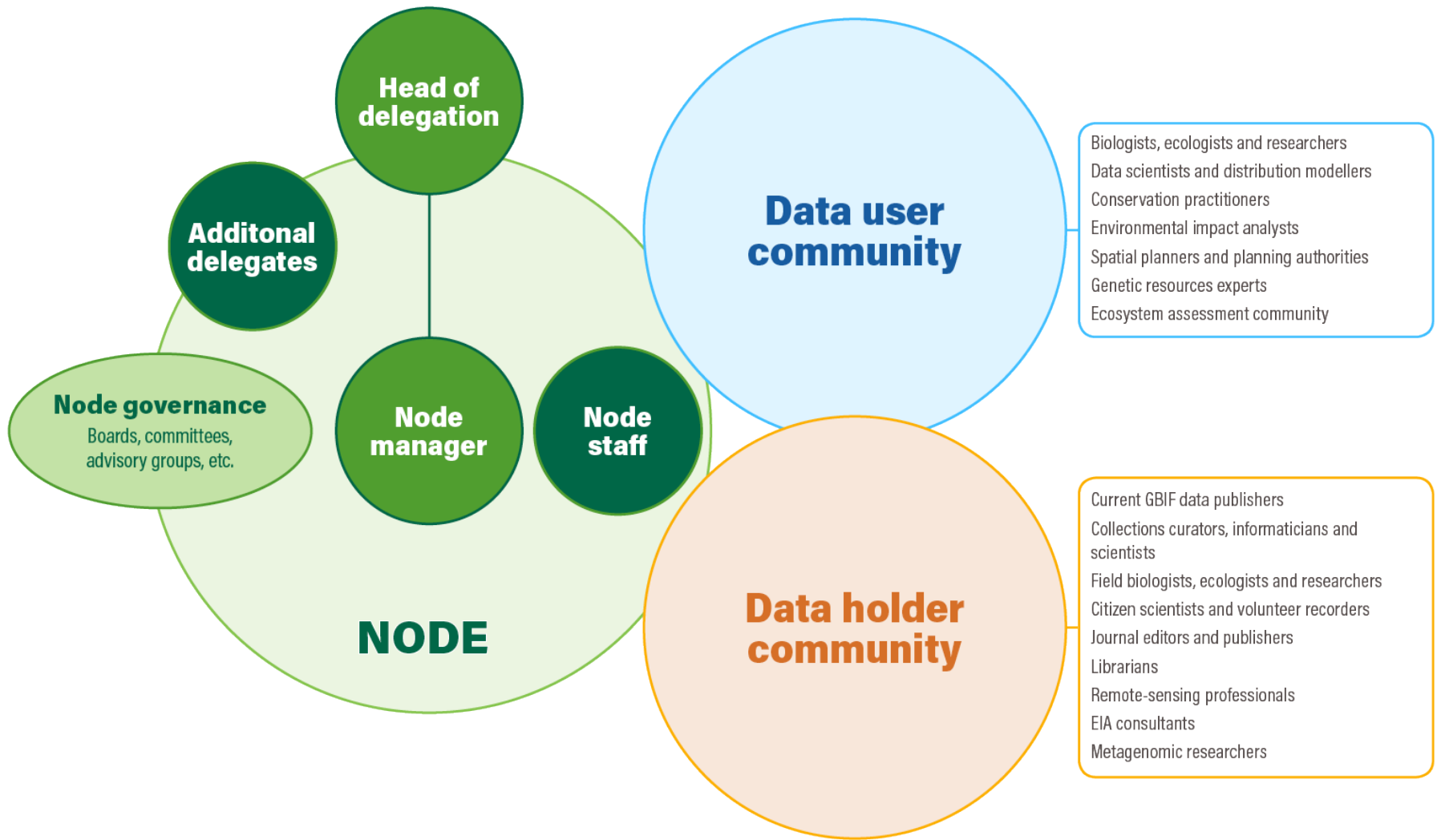


RECOMMENDATIONS ON STAFF ROLES WITHIN NODES

Consider at least:



BIODIVERSITY INFORMATION FACILITY



RECOMMENDED PROCESS FOR ESTABLISHING A PARTICIPANT NODE (II)

Scoping the BIF and node

- Define **priorities** for the BIF
- Discuss which parts of the BIF are already in place
- Define **key roles for the node** in support of the broader BIF

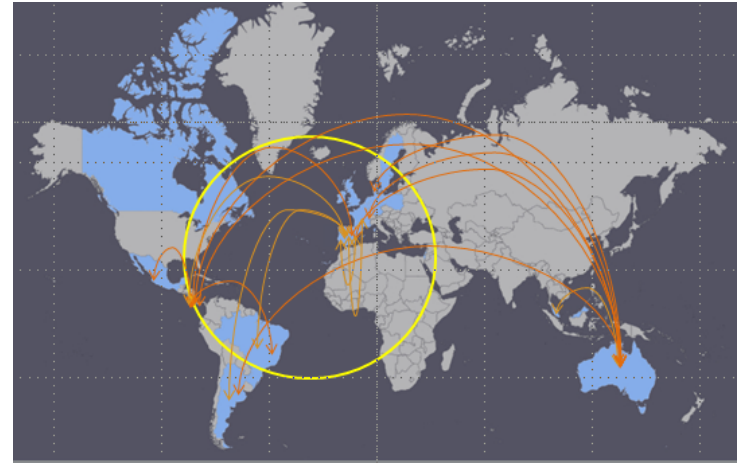
Defining implementation models

- Define **formal agreements** to support effective collaboration
- Discuss model for **informatics infrastructure**
- Discuss **governance** model and representation
- Consider **institutional location** for the node
- Discuss the **team for the node** and node manager role
- Discuss **funding models** for the node

SUPPORT FOR ESTABLISHING NODES: GBIF CAPACITY ENHANCEMENT APPROACH

Challenges include:

- Expanding network of countries, institutions and people
- Rapidly evolving tools and processes
- ‘Small’ secretariat



“Focused on mechanisms that **share expertise between members of the network**, through information exchange, collaborative activities, and training and mentoring programmes”

GBIF NORWAY CONTRIBUTIONS TO CAPACITY DEVELOPMENT



PROJECT | IN PROGRESS

OpenPSD: Promoting publication and use of private-sector data on biodiversity

📅 1 Jun 2019 - 31 May 2020 € 19,500

ABOUT



Road to nordkapp by SØ JORD photo via flickr. Image licensed under CC BY-ND 2.0.

A significant amount of biodiversity data is recorded every year by private companies. Collected as part



BioDATA





GBIF

Global Biodiversity
Information Facility

GBIF and National Biodiversity Information Facilities

