

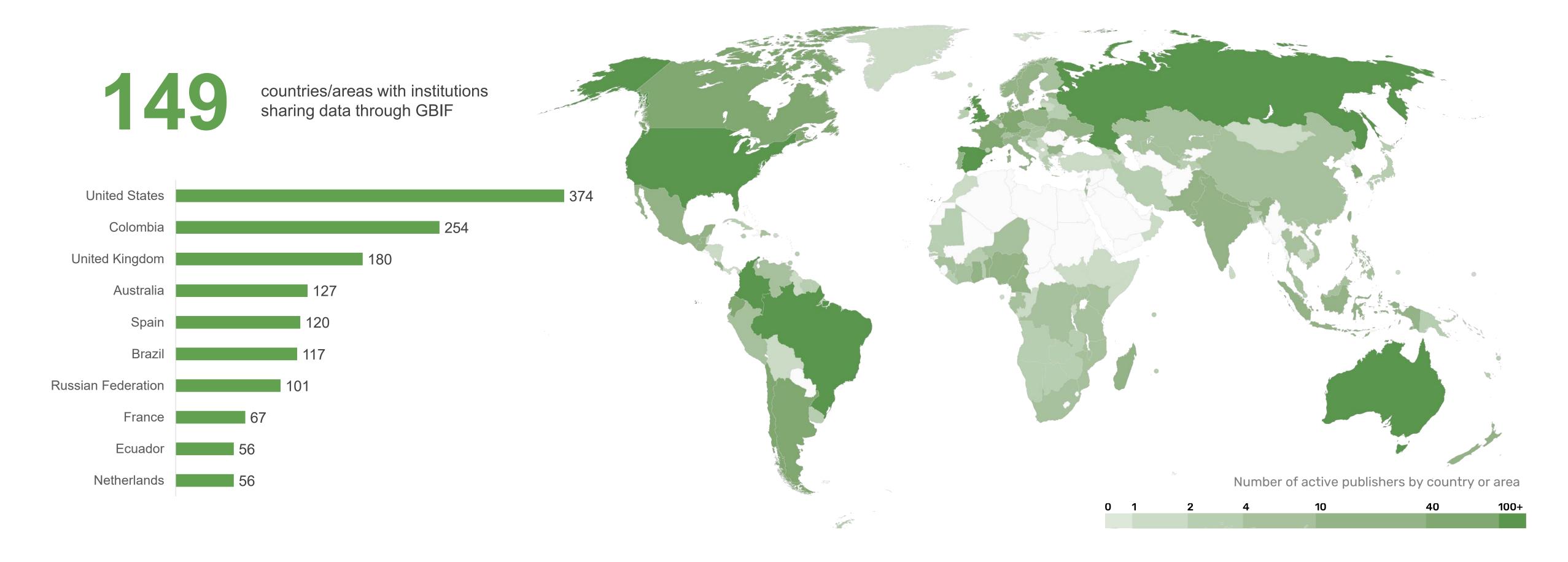
CO-OP 4 CBD Training and Networking Meeting

Hilary Goodson | Partnerships





GBIF network of data publishing institutions





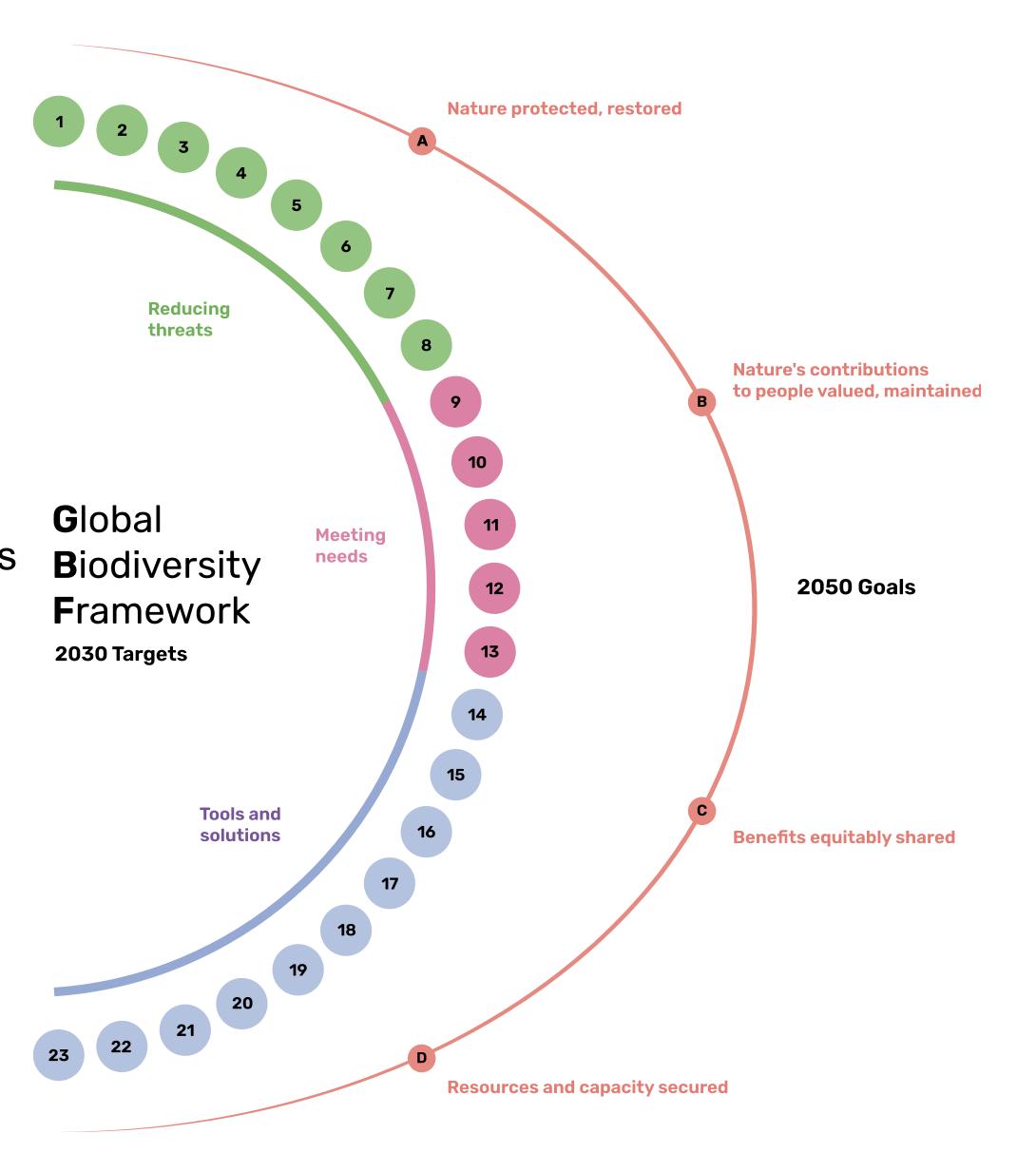
GBIF relevance to KMGBF

 GBIF as a mechanism to fill data gaps across the KMGBF monitoring framework

Relates directly to target 21

"Ensure that the best available data, information and knowledge, are accessible to decision makers, practitioners and the public...and, also in this context, traditional knowledge, innovations, practices and technologies of indigenous peoples and local communities should only be accessed with their free, prior and informed consent..."

- Work on community metrics in progress to provide better tools for identifying data gaps





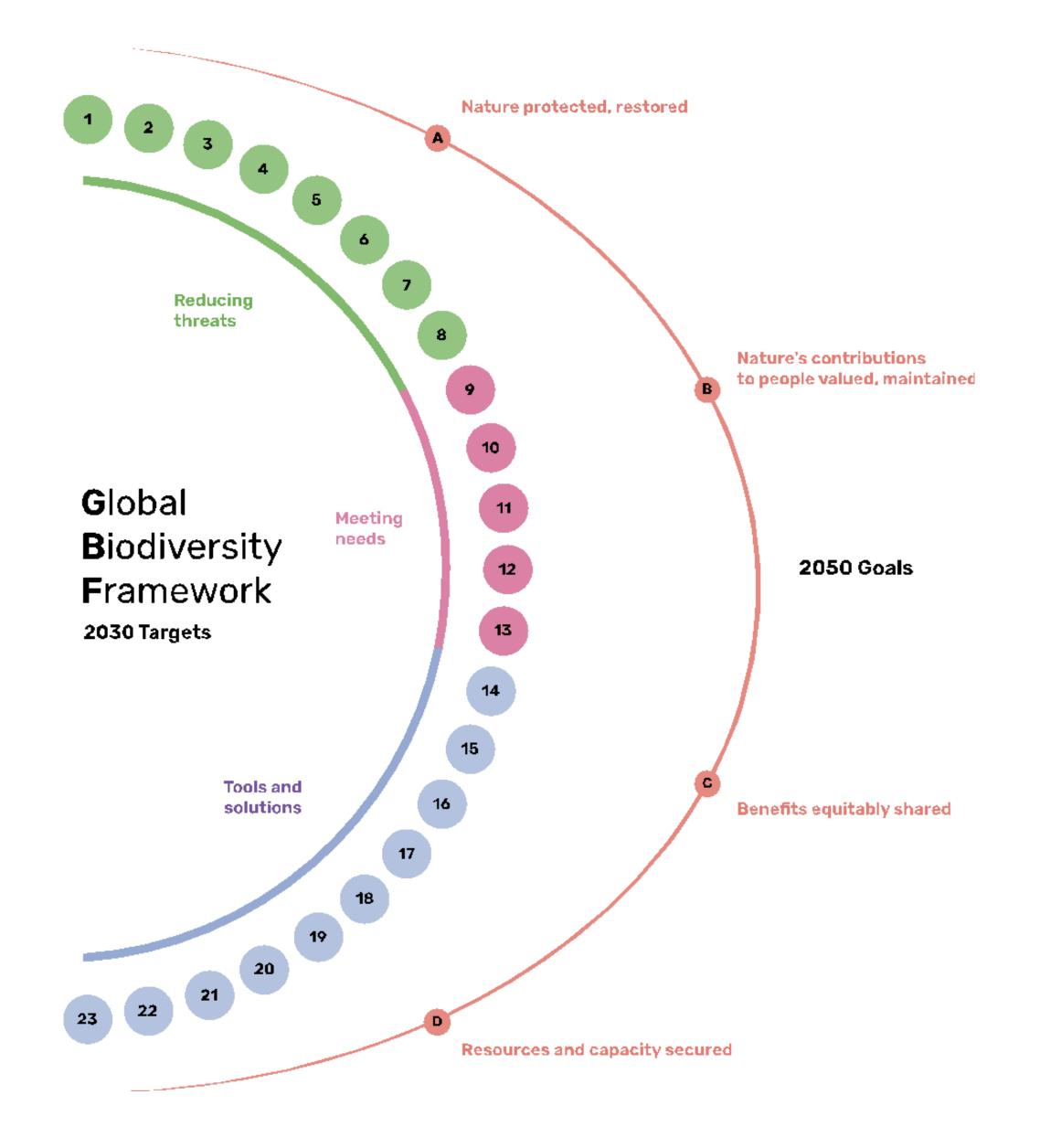
GBIF relevance to KMGBF

GBIF supporting indicators as direct data component

- Headline, binary, component and complementary indicators
- Includes data flows to existing indicators and potential flows to indicators under development

Headline indicator guidance with specific mention of GBIF

- A.4: The proportion of populations within species with an effective population size > 500 ("Ne indicator")
- 6.1: Rate of invasive alien species establishment
- 15.1: Number of companies disclosing their biodiversity-related risks, dependencies and impacts
- 21.1: Indicator on biodiversity information for monitoring the global biodiversity framework





GBIF & the UN Convention on Biological Diversity

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"Given the relevance of the work undertaken by GBIF to the implementation of the Kunming-Montreal Global Biodiversity Framework and to the Convention on Biological Diversity generally, I encourage all Parties to join GBIF as national participants"

Astrid Schomaker
Executive Secretary
-CBD Notification 2025-037



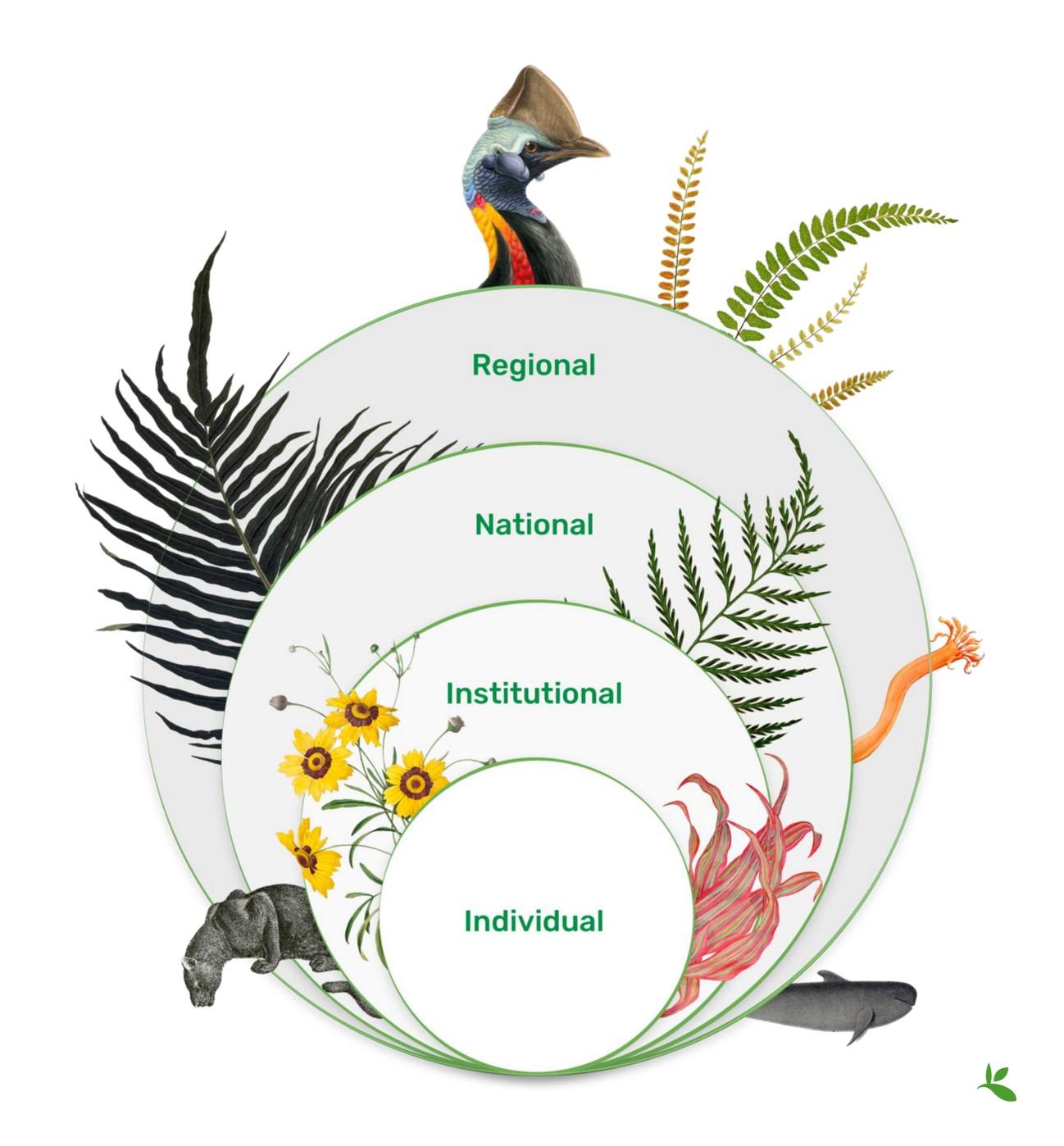






Scalable capacity for national nodes

- Introduction to GBIF
- Biodiversity Data Mobilization
- Using GBIF-mediated data
- Establishing Biodiversity information facilities
- Regional collaboration
- Funded programmes: BID, CESP



Infrastructure to support national reporting



8 Institutional



14
GBIF national
Participants and regions

56

Hosted portals in production

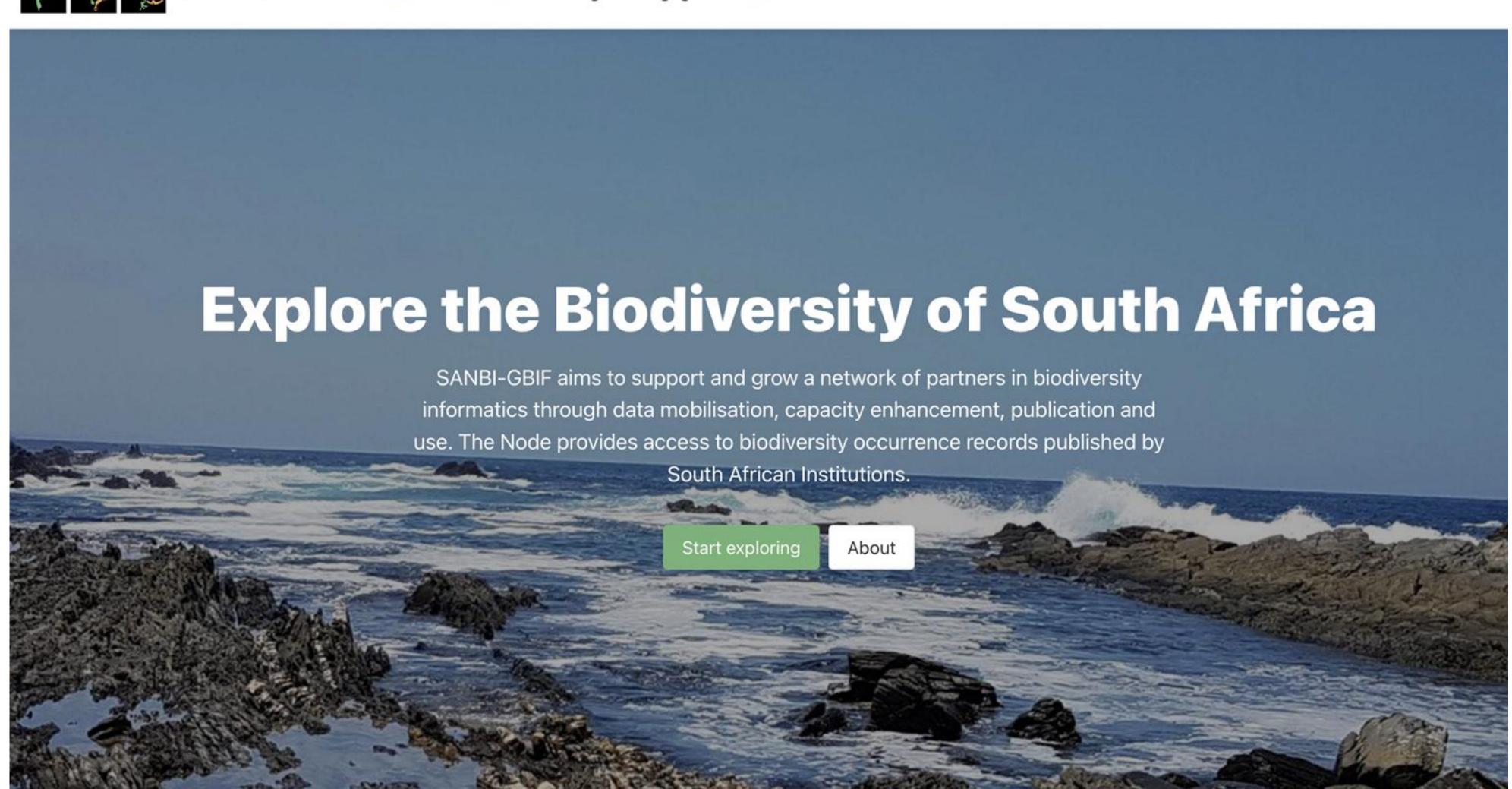


27Scientific journal



7
Networks/thematic networks





41,213,616

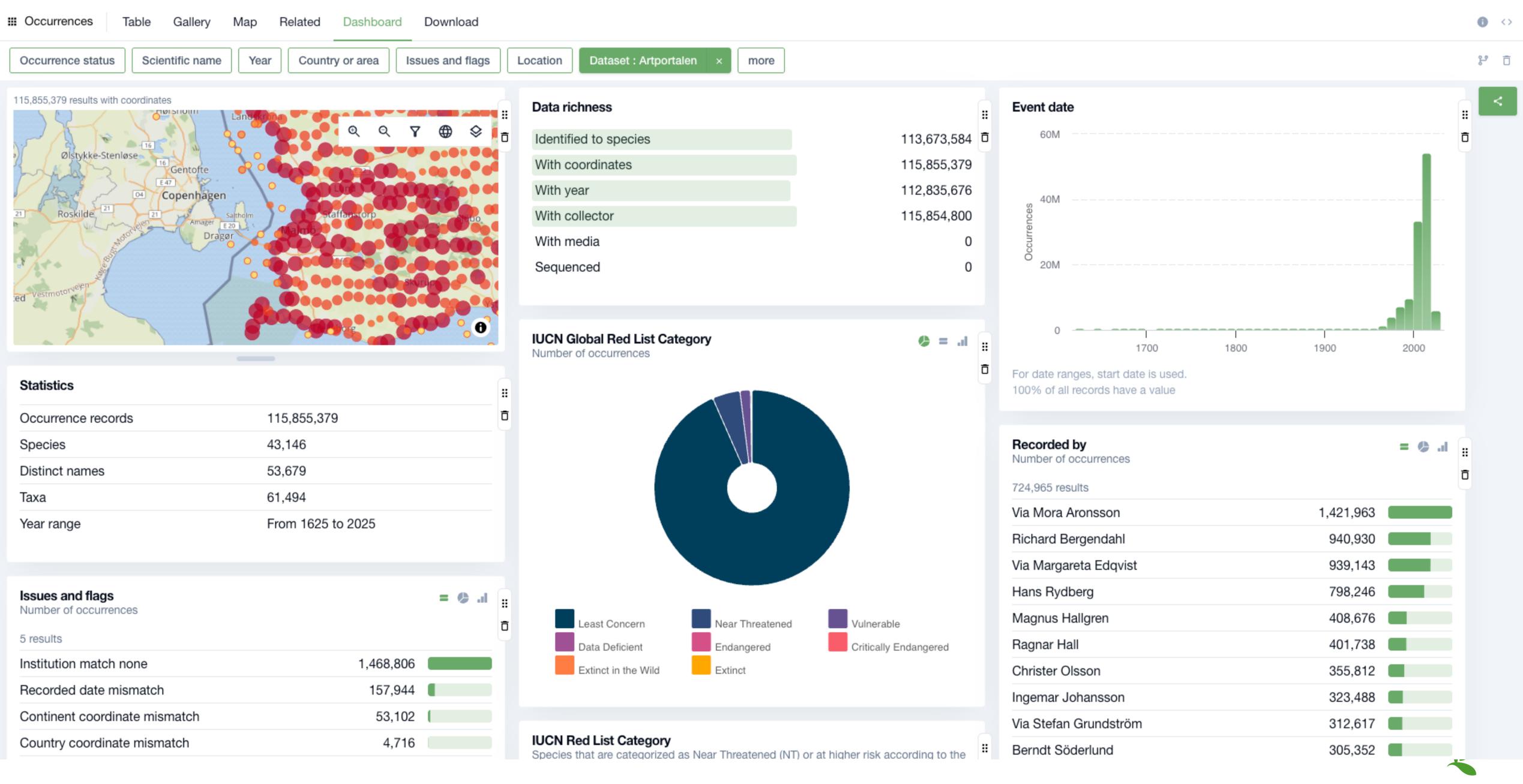
20,930

127

12







Get data 🗸

About ~

Community ~

Data publisher support

Resources to support data publishers

- Guides w/ publishing template
 - Quick start
 - Comprehensive
- Humboldt extension manuscript
- Resources to facilitate community discussion

SAM hub: https://gbif.link/SAM-hub

Data model development

Biological surveys and monitoring

By integrating and standardizing systematically collected data about the presence, absence and abundance of species over time, GBIF provides an essential reusable resource for understanding and evaluating changes to life on Earth

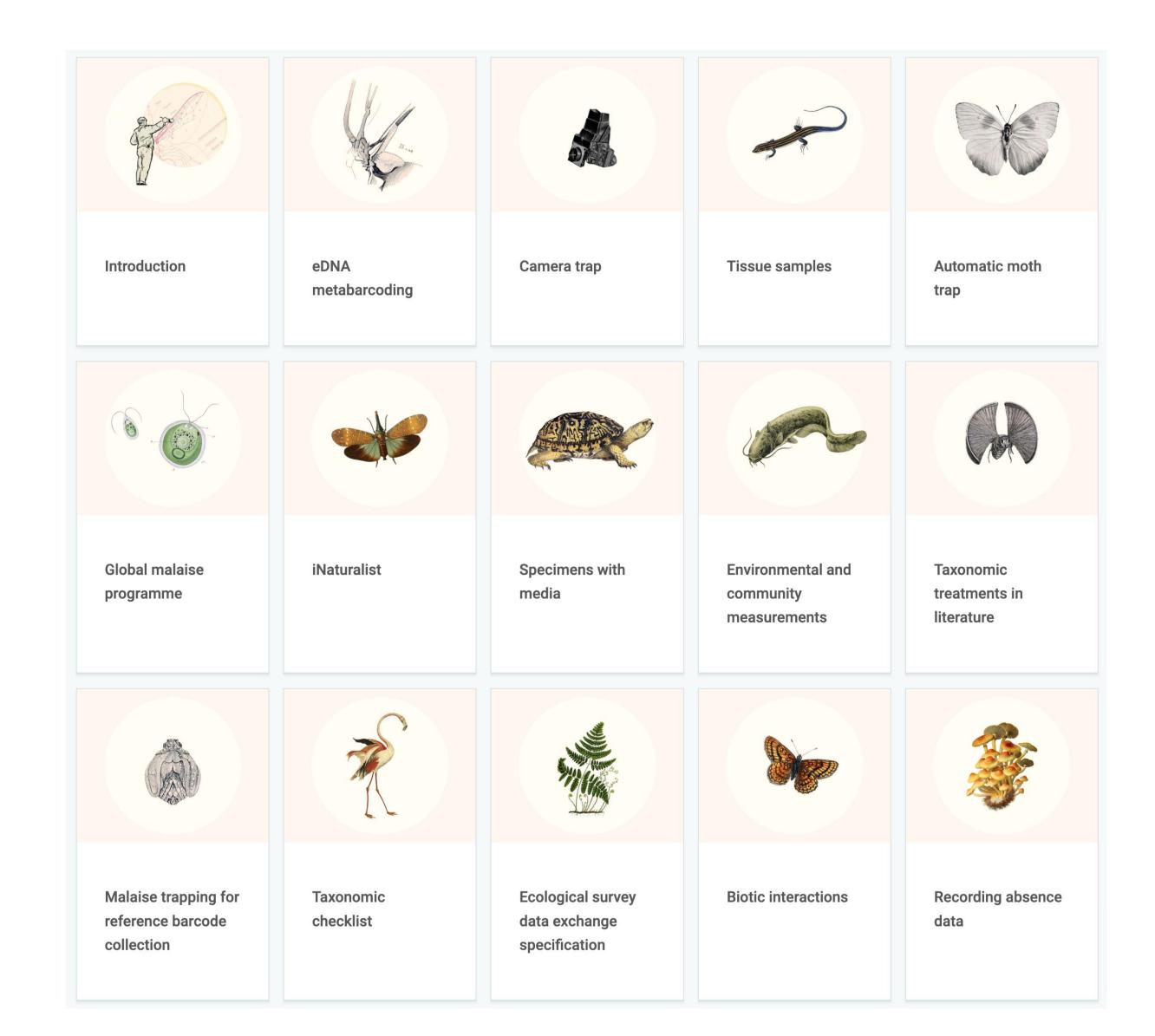


Our planet's biodiversity faces unprecedented pressures, making biological surveys and monitoring efforts more essential than ever. Whether driven by scientific inquiry, conservation needs, national and corporate reporting, or natural curiosity, the systematic collection data about the presence, absence and abundance of species over time is indispensable for assessing biodiversity patterns and processes, informing science, policy and action, and understanding how organisms, assemblages and ecosystems respond to change.

In response to growing global demand, the GBIF network and its robust infrastructure enable researchers and institutions to share and and discover high-quality standardized ecological data that is free, open and FAIR. The widely adopted Darwin Core standard and its extensions—most notably the Humboldt extension for ecological inventories—ensures that users have access to essential data on survey design, sampling effort, scope, and methods, enabling them to assess datasets' relevance and reliability and base their analyses on a more complete view of global biodiversity.



Continual infrastructure evolution



Active work

Collection Management Systems	A family of use cases related to collection management systems from the perspective of the material and associated digital objects.
Biotic Interactions	Covers Events that provide evidence of interactions at the primary, organismal level (not at the derived taxonomic level).
Camera Traps	Monitoring of an area, related sequences of images, machine generated annotations.
Phylogenetic trees	Covers links between specimens, sequences, material citations, and phylogenetic trees with the objective of enabling phylogenetic-based search and discovery.
Environmental DNA	Covers sampling design and material subsampling; DNA based sequences to infer taxon occurrences.
Ecological Inventories	A family of use cases related to hierarchical inventory and monitoring- related events supporting observed presence, inferred absence and abundance.

