The Biodiversity Information Fund for Asia (BIFA) programme

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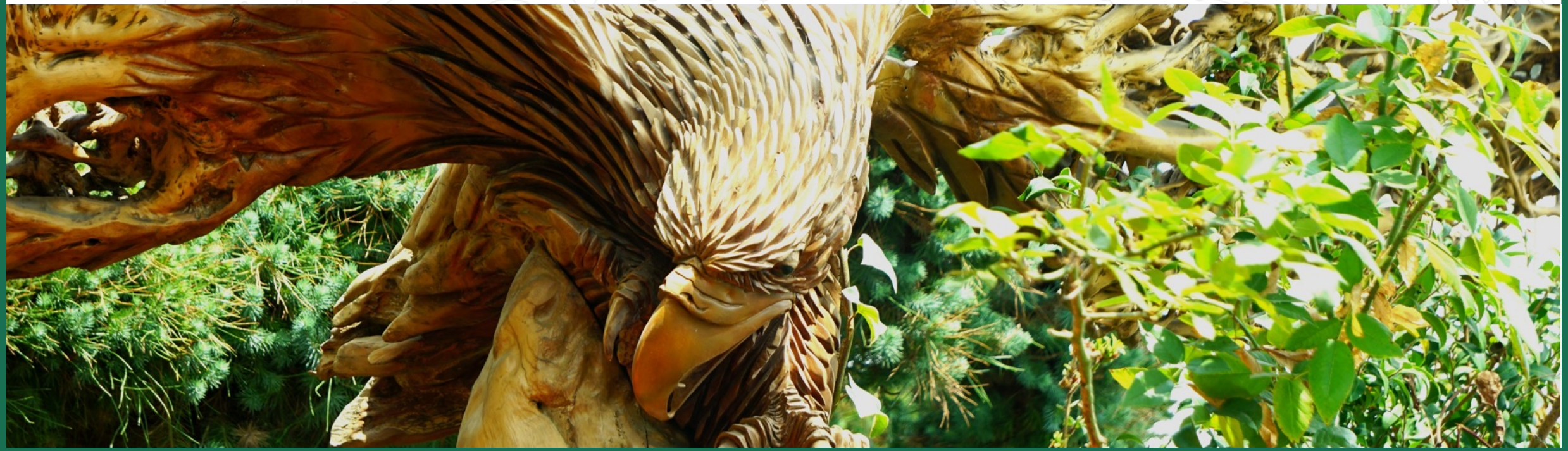
GBIF Global Biodiversity Information Facility

22 November 2022

THE BIFA PROGRAMME

Overall objective and framework



OVERALL OBJECTIVE

Enhancing capacity for effective mobilization and use of biodiversity data in research and policy to address key challenges and priorities identified in Asia.

FUNDING PROGRAMMES MANAGED BY GBIF

- Respond to needs through open calls
- Build skills through training, mentoring
- Develop regional communities of practice
- Establish sustainable data flows, institutional networks

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STRONG SUPPORT FROM THE GBIF COMMUNITY:
REVIEWERS – MENTORS – TRAINERS - TRANSLATORS

THE BIFA PROGRAMME

Impact analysis and key findings

LEVERAGING FUNDING TO SUPPORT BIODIVERSITY INFORMATION AVAILABILITY IN ASIA

- €956,000 investment from the Ministry of Environment of Japan since 2015
- Additional €1.97 Million leveraged through:
  - Contributions in kind from GBIF,
  - Co-funding from BIFA-funded projects
  - Aligned support from the EU-funded Synthesys+ project

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BIFA HAS FUNDED 46 PROJECTS IN 16 COUNTRIES AND AREAS IN ASIA

ADDRESSING BIODIVERSITY DATA GAPS IN ASIA

As of November 2022:

- BIFA-funded projects have mobilized 430,122 species occurrence records
- BIFA-funded projects have published **144** datasets

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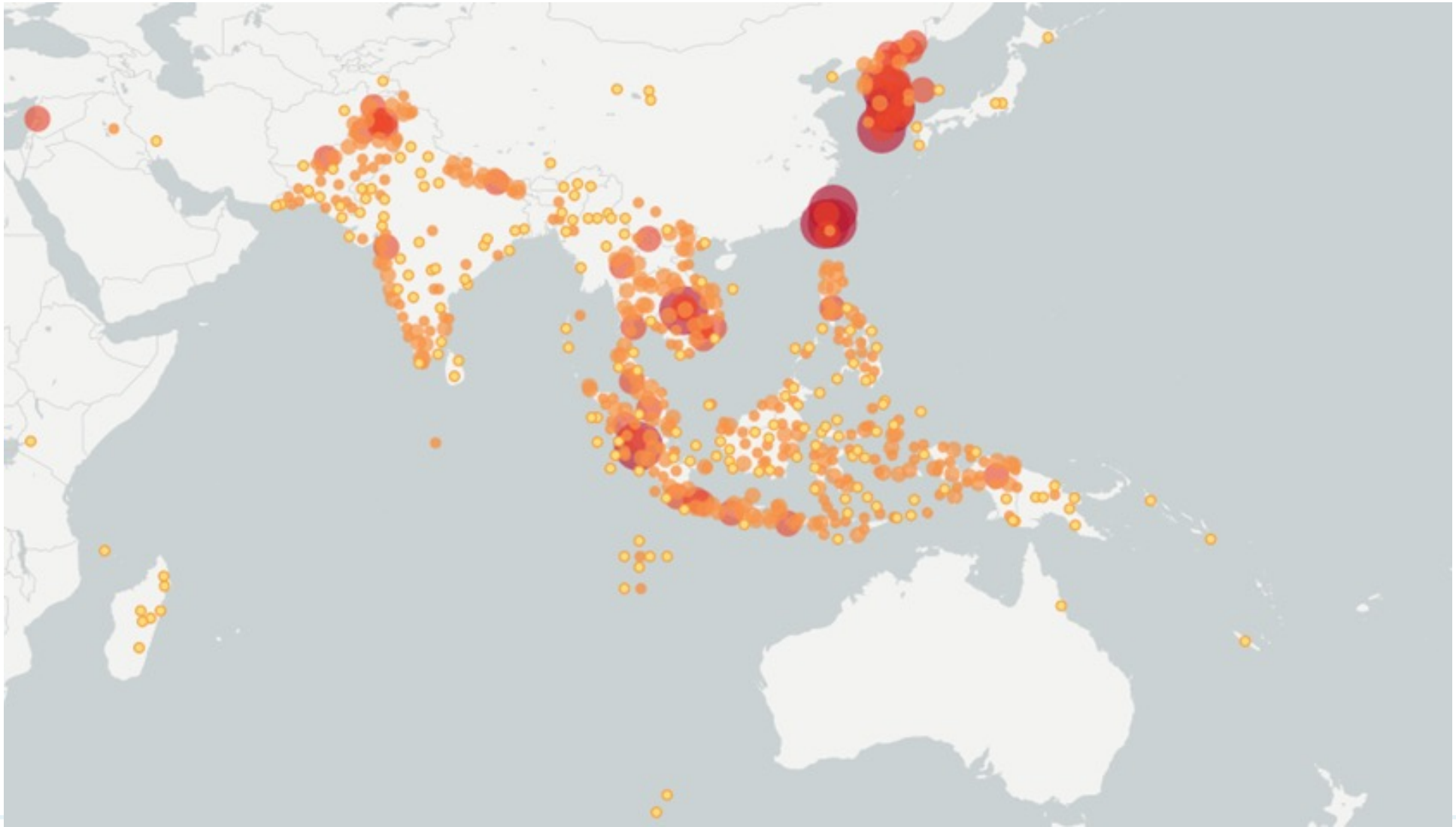
OCCURRENCE DATA RECORDS MOBILISED THROUGH BIFA PROJECTS



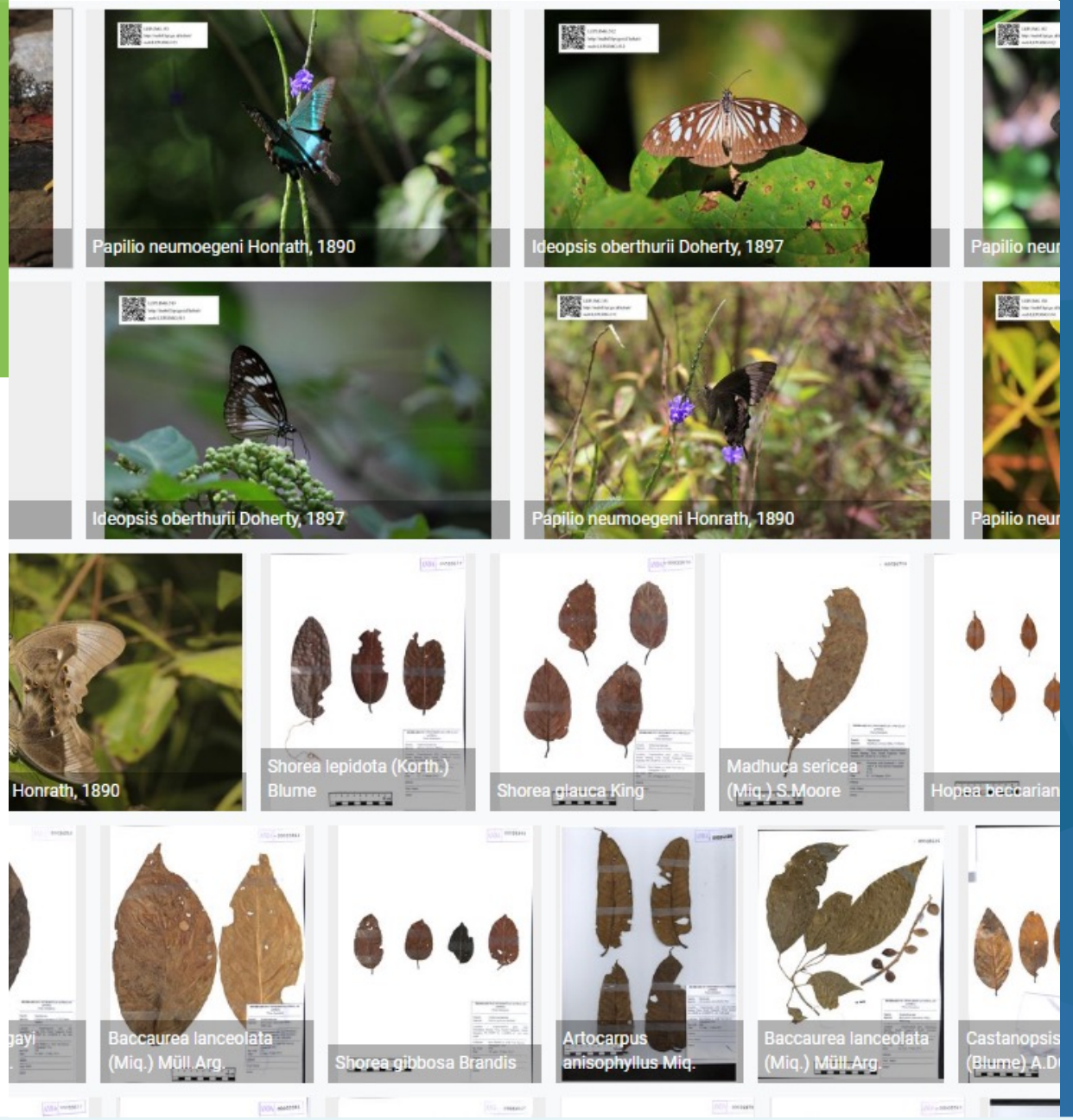
ADDRESSING BIODIVERSITY DATA GAPS

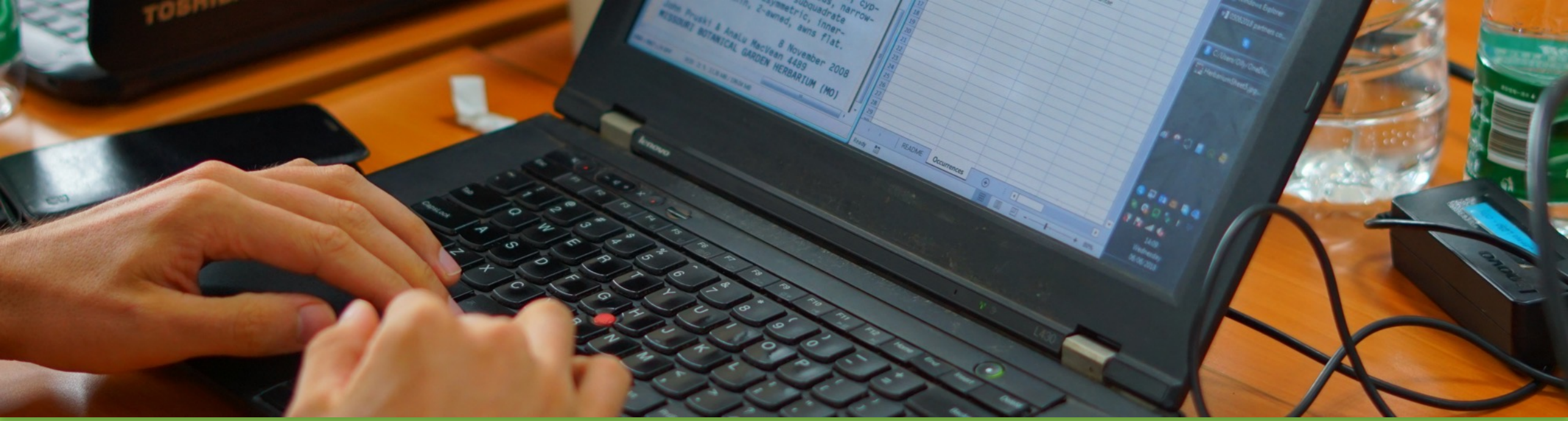
BIFA-funded projects have mobilized over 430,000 species occurrence:

- Relating to nearly 13,000 accepted species names
- of which 4,290 were recorded for the first time in the GBIF in at least one country

ADDRESSING BIODIVERSITY DATA GAPS

- Over 460 accepted species within records mobilized under the BIFA programme are assessed as globally threatened (critically endangered, vulnerable, or endangered) in the IUCN Red List of Threatened Species
- Seven of these threatened species can **only** be found in GBIF in datasets mobilized through the BIFA programme





ENABLING RESEARCH & APPLICATIONS ACROSS A RANGE OF ASIAN POLICY PRIORITIES

- Data mobilized through BIFA-funded projects has been used and cited in 411 peer reviewed publications including research related to:
  - Conservation
  - Climate change impact
  - Invasive alien species
  - Agriculture
  - Human health

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TRACKING TANGIBLE OUTCOMES

Datasets
Project ID

Citations of paper

#CiteTheDOI
DOI

Project page

Events
Suggest an event form

Will climate change cause the global peatland to expand or contract? Evidence from the habitat shift pattern of Sphagnum mosses — Literature

Cao, Z. Ma, X. Shu, L. Xu, H. Zhu, R. (2022) Global Change Biology
Peatlands play a crucial role in the global carbon cycle. Sphagnum mosses (peat mosses) are considered to be the peatland ecosystem engineers and contribute to the carbon accumulation in the peatland ecosystems. As cold-adapted species, the dominance of Sphagnum mosses in peatlands will be threatene…

MaxEnt • bog • carbon sink • climate warming • peat moss
Journal article | Peer-reviewed
Data referenced in study DOI 10.15468/dl.edxfrb

The Flora and Vegetation of Easter Island: Past and Present — Literature

Zizka, G. Zizka, A. (2022) The Prehistory of Rapa Nui (Easter Island),Developments in Paleoenvironmental Research
The floristic inventory of a region can be divided into two groups based on immigration history: native species that evolved in situ or arrived via dispersal without human action and introduced species that occur in an area due to human impact (Richardson et al. 2000). Introduced species may have ar…

Book section | Peer-reviewed
Data referenced in study DOI 10.15468/dl.4r3r6x

Divergent roles of herbivory in eutrophying forests — Literature

Segar, J. Pereira, H. Baeten, L. Bernhardt-Römermann, M. De Frenne, P. Fernández, N. … - (2022) Research Square
Abstract Ungulate herbivore populations are increasing across Europe with important implications for forest plant communities. Concurrently, atmospheric nitrogen (N) deposition continues to eutrophy forests, threatening many rare plant species. These pressures may critically interact to shape biodiv…

Preprint | Open access
Data referenced in study DOI 10.15468/dl.cxdh9m

phylogatR : Phylogeographic data aggregation and repurposing — Literature

Carstens, B. Crouch, S. Decker, S. Franz, E. Ohrstrom, J. Parsons, D. … - (2022) Molecular Ecology Resources
Patterns of genetic diversity within species contain information about the history of that species, including how they have responded to historical climate change and how easily the organism is able to disperse across its habitat. More than 40,000 phylogeographic and population genetic investigation…

biodiversity informatics • data repurposing • genetic diversity • macrogenetics • open science
Journal article | Peer-reviewed
Data referenced in study DOI 10.15468/dl.76ur2y

Unraveling host-microbe interactions and ecosystem functions in moss-bacteria symbioses — Literature

TRACKING TANGIBLE OUTCOMES

PROJECT | CLOSED

Data mining of historical herbarium specimens from the Korean peninsula

1 April 2018 - 30 March 2019 € 15,000

ABOUT NEWS & EVENTS DATASETS 233 CITATIONS

EXAMPLE OF SPECIFIC APPLICATIONS OF DATA MADE ACCESSIBLE THROUGH BIFA




Recommendations for management of alien frog invasions in the Philippines

Analysis of the evolutionary origins of the SARS-CoV-2 virus via bat records in Southeast Asia

Projections for impacts on crop yields in China due to changes in insect community structure as a result of climate change

Proposals for improved conservation of endemic reptiles in the Western Ghats, India

Images:
Rhacophorus pardalis Günther, 1858 observed in Philippines by Gerrie Mae Flores (licensed under http://creativecommons.org/licenses/by-nc/4.0/)
Hipposideros armiger (Hodgson, 1835) observed in Malaysia by Terry Munyard (licensed under http://creativecommons.org/licenses/by-nc/4.0/)
Myllocerinus ochrolineatus Voss, 1937 observed in China by 江国彬 (licensed under http://creativecommons.org/licenses/by-nc/4.0/)
Ahaetulla isabellina (Wall, 1910) observed in India by sssuresh (licensed under http://creativecommons.org/licenses/by-nc/4.0/)

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ENHANCING SKILLS TO DIGITIZE AND SHARE BIODIVERSITY DATA

113 participants from 21 Asian countries and areas took part in four data mobilization workshops associated with BIFA project calls since 2017

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MULTIPLIER EFFECT

4 GBIFs- led training events on **Data Mobilization** organized through BIFA trained **113** people

Over 17 replication workshops using curricula developed by GBIF on Data mobilization organized by BIFA projects trained a further **1,200** professionals across Asia

The most recent data mobilization workshop for BIFA projects used trainers and mentors drawn exclusively from Asia, demonstrating the programme's impact in terms of skills transfer

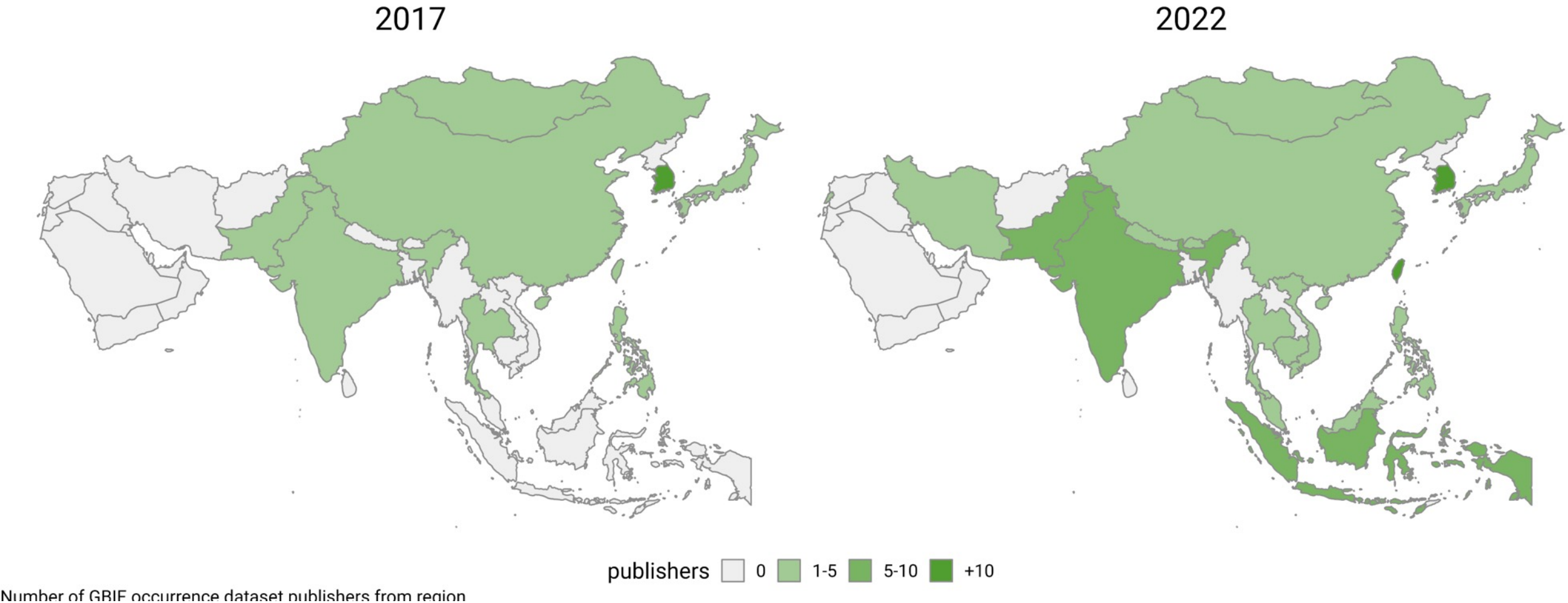
Photo @arochakenya - https://pic.twitter.com/kRIulUYdNr

PROVIDING A FOUNDATION FOR IMPROVED NATIONAL AND INSTITUTIONAL PARTICIPATION IN GBIF

Following engagement activities started through the BIFA programme, two new countries (Vietnam and Cambodia) joined GBIF as Participants and established national nodes.

GROWTH IN DATA PUBLISHING INSTITUTIONS –FOCUS ON ASIA

GBIF Region - Asia



Number of GBIF occurrence dataset publishers from region

JOIN US!

Join the community of practice and become:

Trainer - Mentor – Translator - Ambassador

Help us expend the BIFA model to other regions or specific thematic areas

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