GBIF Asia Nodes Meeting 2024

Beijing, China

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# [GBIF CAS] 2024 update

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Node Manager of GBIF CAS

Nodes Regional Representative Asia



## Node team and roles



1.Dr. Keping Ma, Head of delegation, Biodiversity Committee & Institute of Botany, Chinese Academy of Sciences

2.Dr. Liqiang Ji, Additional delegate, Institute of Zoology, Chinese Academy of Sciences

3.Dr. **Zheping Xu**, Node manager, National Science Library, Chinese Academy of Sciences

4.Dr. Maofang Luo, Node staff, Biodiversity Committee & Institute of Botany, Chinese Academy of Sciences

Roles: Support GBIF CAS and Asia Regional business



# 1. Engaging research communities for data mobilization and use



### Co-author data paper and publish via IPT:

- (1) Ocurrence dataset of birds in university campuses of Nanjing, Juangsu Province China(10.3897/BDJ.12.e126064)
- (2) Occurrence dataset of birds in Sihong Hongze Lake Wetlands National Nature Reserve in China(10.3897/BDJ.11.e113108)
- A workshop with 10 academic journals on data sharing policy, data repoitory and metadata description



## 2. Support national biodiversity commitments and the science-policy interface

- Catalogue of Life China 2024 Annual Checklist: There are 155,364 species & infraspecific taxa in 2024 Annual Checklist of Catalogue of Life China, including 141,484 species and 13,880 infraspecific taxa. It is widely used in China among the communities of research, policy and public sector.
- With Biodiversity Committee, Chinese Academy of Sciences together, host "The 2024 Asian Regional Membership Committee Meeting of IUCN in Hainan, China"
- Selected and involved as an expert for the Task Force on Data and Knowledge Management of IPBES





## 3. Promote open biodiversity data approaches within the business and finance sectors

## 2022 ESG Report Examples for Biodiversity (Data) in China

ESG: short for Environmental, Social and Governance

Data from 227 reports in the fields of computer/information industry from listed



芯原微电子(上海)股份有限公司





TPV Technology: help The Explorers (UNESCO's project) to protect Ara















G-bits: funding 200,000 RMB to protect Eurynorhynchus pygmeus and promotion by embedding into game

HIK VISION: cooperation with WWF to monitor birds in protected area an tropical rain forest

- Make discovery from big companies' ESG Annual reports, and discuss their biodiversity supporting activitie in the future.
- They usually support in 3 ways: public welfare funding, open education and public technique.



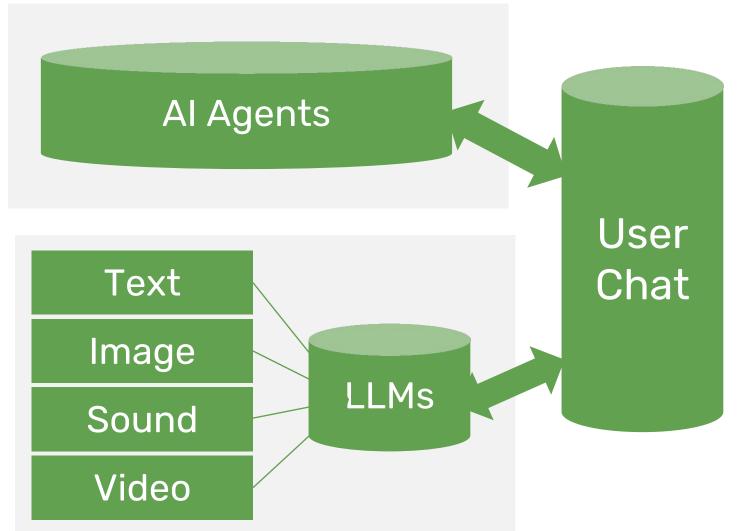
## 4. Support node development through knowledge sharing and mobility of skills

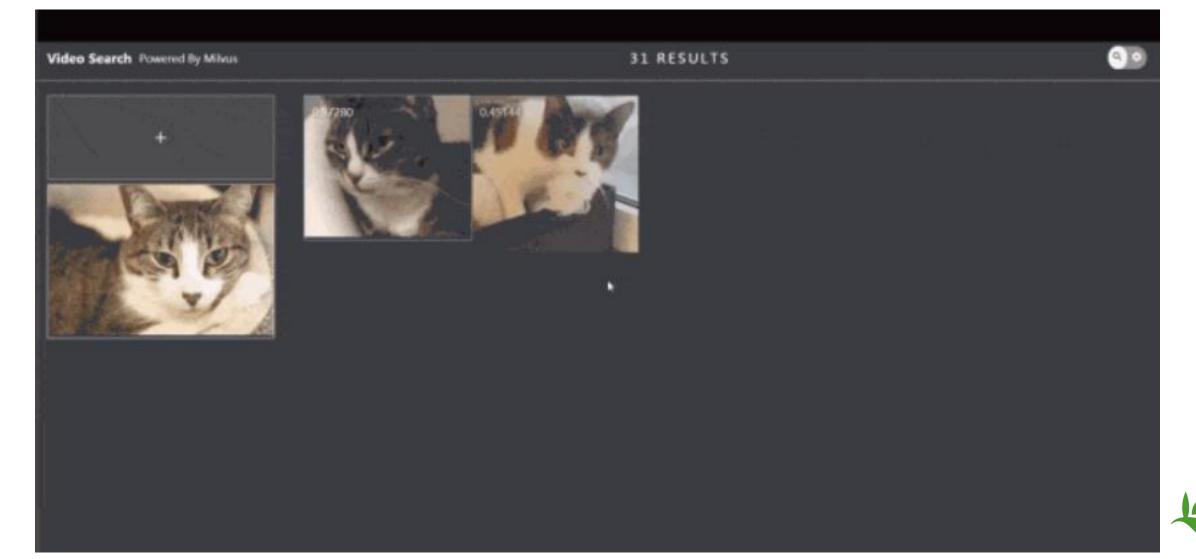
群聊名称

- Training on data publishing and data data paper in several phyical workshop and webinar
- A group of volunteer translators
- Co-apply CESP project with ICIMOD
- Al technique Development(In-processing):
  (1)Online Al Agent, comining your knowledge with
  LLMs; (2)Multimodal RAG(Retrieval Augmented
  Generation ) for species, including text, image,
  sound, video and DNA Sequence; (3)Al governance:
  sensitive and security



GBIF中文翻译小组 >





# 5. Develop capacity within regional communities of practice

- Author a report entitled "2023 Asian Biodiversity Data Use Guide: Linking to the UN 17 Sustainable Development Goals and Open Science"
- Prepare an article about what and how GBIF data is used in Asia
- Investigation the possibility of regional newsletter(August):(1)Sri Lanka Launches Ambitious "30×30" Initiative For Conservation And Sustainable Development; (2) New KoEF project to enhance biodiversity protection and research capacity in Bhutan; (3)A United Stand for Philippine Biodiversity **Strategy** and Action Plan (PBSAP)

#### 2023 ASIAN BIODIVERSITY DATA USE GUIDE

Linking to the UN 17 Sustainable Development Goals and Open Science





**GBIF ASIA** GBIF CAS (Chinese Academy of Sciences) Node March 2024

15.2 ASSESSING HIGH CONSERVATION VALUE AREAS FOR RARE, ENDEMIC AND THREATENED (RET) SPECIES: A STUDY IN

India

/ regional / local lists. However, a consistent robust methodology for identification of these areas, does not

methods offer an efficient and reliable approach for the application of the HCV concept, elsewhere in the world.

Mehebub Sahana, Gopala Areendran, Akhil Siyadas, Nature Conservation, 2023,73, 126406, ISSN 1617-

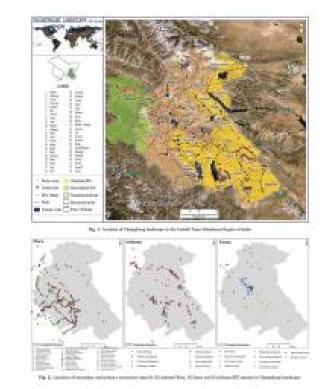
#### Data Uses GBIF, eBird

#### Open Sciences

Open scientific publications, Open research data

#### Affiliations

- Indira Gandhi Conservation Monitoring Centre
- 2. University of Manchester, United Kingdom
- 3. Indira Gandhi Conservation Monitoring Centre (IGCMC), India
- National Conservation program, India
- National Tiger Conservation Authority (NTCA), India





# 6. Strengthen support services for collection communities



542 records in China



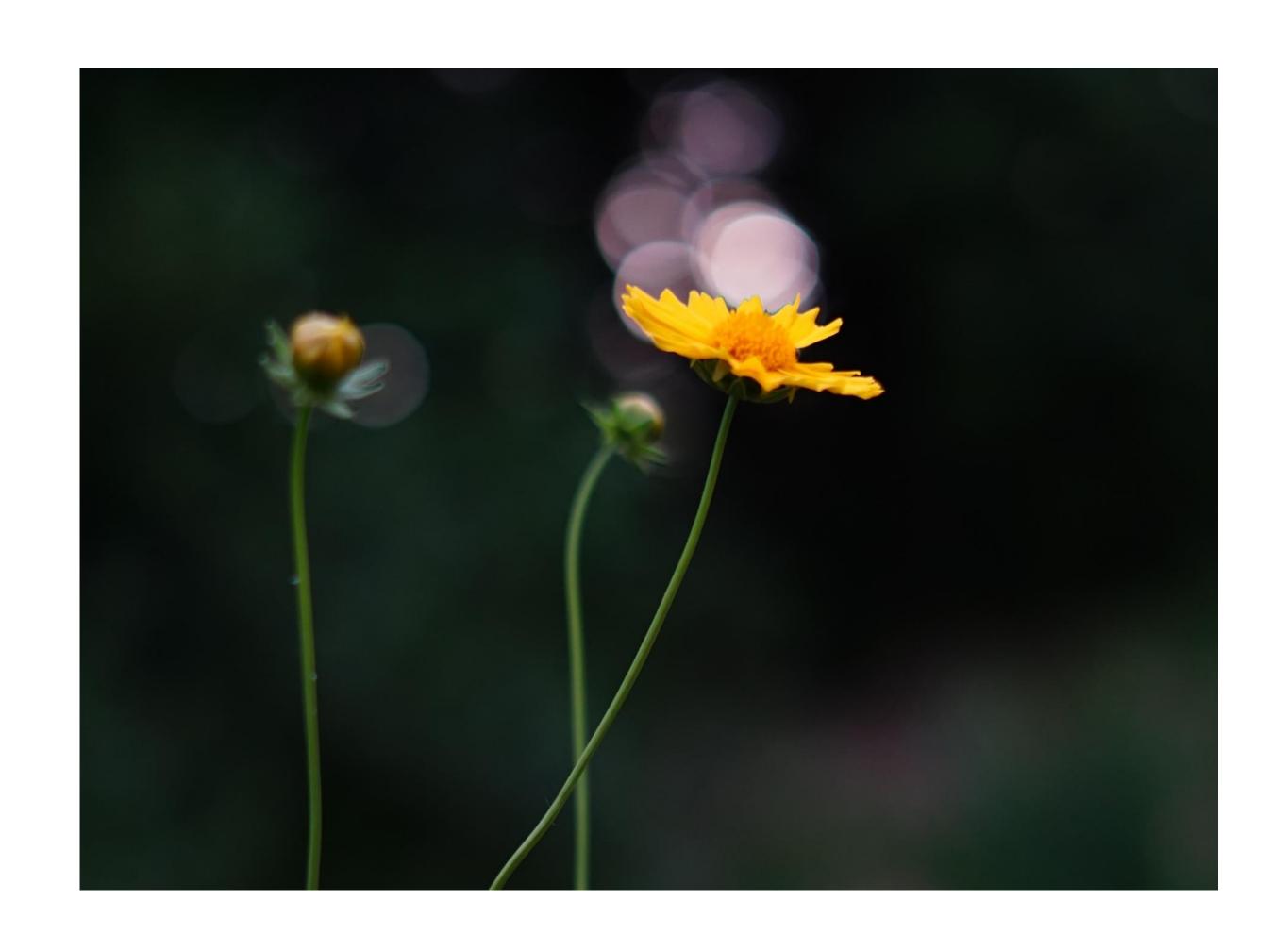
371 herbaria nad 2,253 staffs in China

- Deployment of local hosted portals
- Discuss the mechnism of synchronous update between GBIF GRSciColl and Chinese data source like CVH etc



## 7. Contribute to data model enhancements

 Contact some researchers on eDNA data and camera-trap data, make a design plan for future publishing





# Thankyou

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## GBIF Asia: Discussions on status and priorities

## **Priority Area 1: Science and Research**

- **1.** Engage research communities for data mobilization and use
- \* <u>scientific leaders</u>; <u>local researchers</u>; <u>FAIR and CARE</u> <u>principles</u>; <u>targeting research communities</u>; <u>invasive alien</u> <u>species</u>; <u>Data Use Club</u>; <u>graduate schools</u>, <u>universities</u>; <u>Award</u>; <u>data-intensive biodiversity research</u>

## Priority Area 2: Policy and Partnerships

- 2. Support national biodiversity commitments and the science-policy interface
- \* <u>CBD</u>; <u>National Biodiversity Strategies and Action</u> <u>Plans (NBSAPs)</u>; <u>Kunming-Montreal GBF;SDGs</u>; <u>IPBES</u>
- **3.** Promote open biodiversity data approaches within the business and finance sectors
- \* private sector; Environmental and Social Impact Assessments (ESIA); Data4Nature initiative

## **Priority Area 3: Community and Capacity**

- **4.** Support node development through knowledge sharing and mobility of skills
- \* <u>Assist in communicatin and Collaboration; CESP programme;</u> data publication and use; hosted portals and Living Atlases;
- **5.** Develop capacity within regional communities of practice \* partnerships with nodes regional support teams; BID programme; regional nodes meetings and engagement

## Priority Area 4: Infrastructure and data products

- **6.** Strengthen support services for collection communities
- \* GRSciColl; hosted portals
- 7. Contribute to data model enhancements
- \* New data model: regular webinars; training materials

