



Global Biodiversity Informatics Outlook

www.biodiversityinformatics.org

DELIVERING BIODIVERSITY KNOWLEDGE IN THE INFORMATION AGE

The Global Biodiversity Informatics Outlook helps to focus effort and investment towards better understanding of life on Earth and our impacts upon it. It proposes a framework that will help harness the immense power of information technology and an open data culture to gather unprecedented evidence about biodiversity and to inform better decisions.

THE GBIO FRAMEWORK



The GBIO Framework

The framework includes four focus areas, each with a set of related components. Each focus area – and the individual components – can be progressed independently but investments in each area will complement and reinforce each other, delivering wide-reaching benefits to many stakeholders.

- Culture** This area focuses on practices and infrastructure for sharing data. Investments here will ensure that digital biodiversity data benefit the whole global community and that these data can be preserved and improved for future use.
- Data** This area addresses the need to transform historical biodiversity knowledge into usable digital forms and to ensure that all new measurements and observations automatically contribute to a global knowledge resource.
- Evidence** This area deals with organizing and assessing data from all historical and new sources to provide clear, consistent and comprehensive views of everything that has been recorded about any species or ecosystem.
- Understanding** This area builds models from recorded measurements and observations to support data-driven research and evidence-based planning. Key deliverables include assessments and indicators of the state of biodiversity.

What you can do

If you're a policy maker

- Support legislation to promote data sharing and to fund data mobilization
- Invest in tools to support data-driven planning and policies in conservation and other areas

If you're a funder

- Align funding criteria with the GBIO framework
- Invest in long-term data mobilization and storage capacity

If you run a regional, national or international biodiversity organization

- Align your mission and activities with the GBIO framework
- Make your organization's biodiversity data permanently, freely and openly available for reuse

If you're an owner or custodian of biodiversity data

- Make your data permanently, freely and openly available for reuse
- Seek funding and resources to mobilize historical sources in digital forms

If you're a biodiversity researcher

- Align your research and project with the GBIO framework — particularly by sharing data
- Help to improve existing digital information on your areas of expertise

If you're an IT professional or biodiversity informatics specialist

- Apply skills and technologies to addressing the goals of the GBIO framework
- Identify opportunities to deliver exciting tools and visualizations from mobilized data

If you're a member of the public

- Participate in biodiversity-related science projects
- Lobby for increased support for biodiversity research for free and open access to data

The GBIO is intended to be a dynamic and interactive process. The website at www.biodiversityinformatics.org will be updated with community input on projects, solutions and funding sources relevant to each component. Please visit this website and share your ideas and expertise.



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