WHO ARE WE

14 international partners from **11** countries

- Naturalis Biodiversity Center (NATURALIS)
- Royal Botanic Garden Edinburgh (RBGE)
- Meise Botanic Garden (MeiseBG)
- Helmholtz Centre for Environmental Research
- e-Science European Infrastructure for Biodiversity and Ecosystem Research (LifeWatch ERIC)
- Pensoft Publishers (PENSOFT)
- The European Land Conservation Network (Eurosite)
- University of Tartu (UTARTU)
- Stichting Catalogue of Life (COL)
- The International Hellenic University (IHU)
- The Senckenberg Nature Research Society (SGN)
- The Environment Agency Austria (EAA)
- The National Research Council (CNR)
- SIB Swiss Institute of Bioinformatics (SIB)



BMD
Biodiversity Meets Data

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DURATION

1 March 2025 – 28 February 2029

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WEBSITE

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Co-funded by the European Union

Project funded by

Schweizerische Eidgenossenschaft
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Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs
Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

BMD (Biodiversity Meets Data) receives funding from the European Union's Horizon Europe Research and Innovation Programme (ID No 101181294) and the Swiss State Secretariat for Education, Research and Innovation (SERI) (contract number 24.00519). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union, the European Research Executive Agency (REA) or SERI. The EU, REA and SERI cannot be held responsible for them.

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WHAT WE DO

BMD is turning biodiversity data into actionable insights to support natural resource managers and policy makers. Biodiversity data is being collected, aggregated and mobilised, then harmonised and packaged into easy-to-use data cubes. These are stored and processed in a cloud-based Biodiversity Data Space, which includes tools to explore, visualise, and analyse information across land, freshwater, and marine ecosystems.

This all comes together in BMD's Biodiversity Explorer – a one-stop digital toolbox for natural resource managers and policy-makers. Tools and services are being co-designed with stakeholders to ensure they meet real-world needs, with dedicated training supporting their adoption across the community.

The Biodiversity Explorer will provide access to:

- High-throughput biodiversity monitoring tools, including camera traps, acoustic devices, and eDNA sampling, combined with AI-based taxon identification
- Tools to mobilise historical and newly collected biodiversity data into FAIR data repositories
- Co-designed data analysis and visualisation tools for terrestrial, freshwater, and marine ecosystems, and applicable at local, regional, national, and European scales
- A Web-GIS Map Viewer for intuitive exploration, integration, and visualisation of harmonised biodiversity data and analysis results across multiple ecosystems

WHY WE DO IT

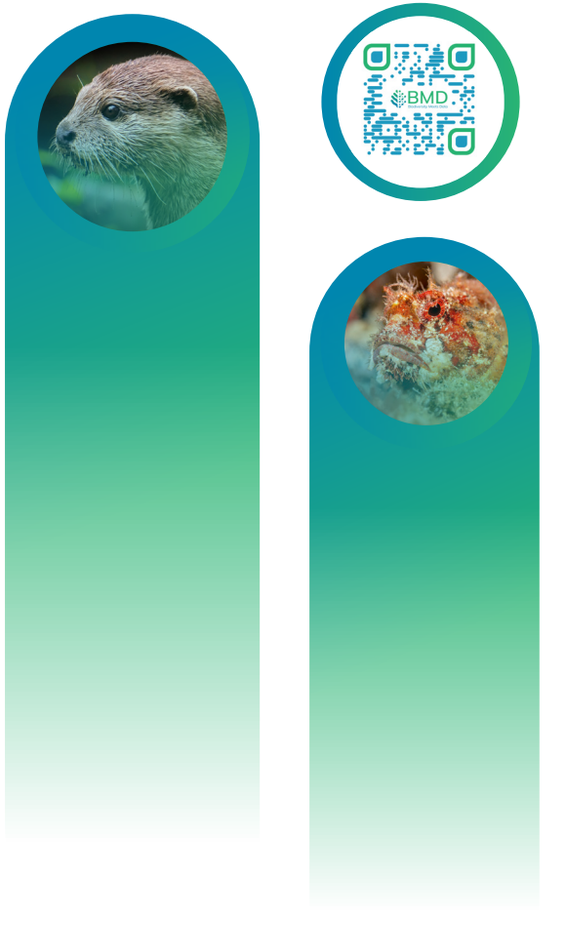
The European Union (EU) has been working to protect nature for decades, with the Natura 2000 network now safeguarding over 18% of EU land and 9% of its marine territory. Yet, biodiversity is still in trouble, with only 50% of bird species and 15% of habitats in good conservation status. The main threats to biodiversity include land and sea use changes, direct exploitation, climate change, pollution, and invasive species.

To turn the tide, the EU's Biodiversity Strategy for 2030 will enlarge existing Natura 2000 areas, implement the EU's first-ever Nature Restoration Regulation, and introduce concrete measures to achieve global biodiversity targets. Success will depend on enhancing biodiversity monitoring, making better use of data for decision-making, and gaining a clearer picture of how nature is changing.



GET INVOLVED

We are committed to working hand-in-hand with stakeholders through a dynamic programme of engagement activities designed to inform, inspire and involve. Guided by principles of inclusivity and ethical collaboration, our approach values diverse perspectives across cultures, nationalities, genders and backgrounds. By taking part, stakeholders will play a central role in shaping the design and delivery of the Biodiversity Explorer, ensuring it meets real-world needs.



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