

Biodiversity Meets Data

A Single Access Point to high-throughput biodiversity monitoring, biodiversity data, and biodiversity analyses for better conservation across Europe.















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Partners































Represented Biodiversity RIs and Projects through BMD partners







































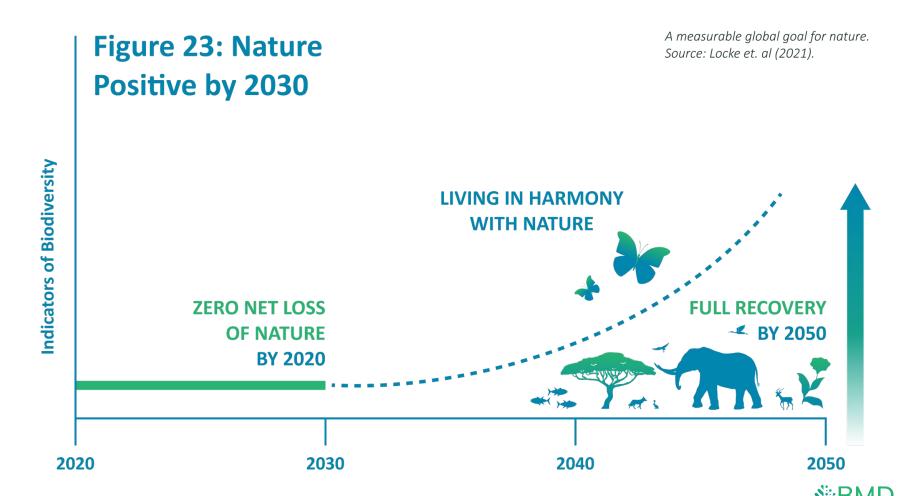






- Plan, manage and expand protected areas and improve the conservation status of species and habitats based on up-to-date knowledge and solutions.
- Understand and address drivers of biodiversity decline, mainstream biodiversity, ecosystem services, including through the development of nature-based solutions.









 Better monitoring of biodiversity in the EU by high-throughput methods leading to a better implementation of the Nature Directives.

 Better understanding of the state of nature and of the drivers of biodiversity loss, a better usage of existing data.

 More complete view of the state of nature and its evolution.





- 1 Enable resource managers with high-throughput AI-driven biodiversity monitoring.
- 2 Support FAIR sharing of legacy biodiversity data.
- 3 Create a data catalogue for unified access to relevant datasets.
- 4 Build a pipeline to harmonise spatio-temporal and taxonomic data.
- 5 Co-design Virtual Research Environments with stakeholders.
- 6 Co-design Single Access Point with stakeholders.
- 7 Develop extensive training and capacity building material.





COMMUNICATION, DISSEMINATION & TRAINING

WP7

DATA POLICIES

DATA GAP

BIAS SURFACES

WP₂

DATA

MOBILISATION

Biological

DATA

CUBE ENGINE

HIGH-THROUGHPUT

DATA GENERATION

Image

Sound

e-DNA

DATA

HARMONISATION

Taxonomic

DATA / METADATA

CATALOGUE

Biological

Environmental

Climatic

Remote sensing

WP1



Managers of natural resource sites responsible for site-level biodiversity conservation.

Government agencies responsible for reporting under the Nature Directives.

Policymakers in the EU Green Deal, EU Biodiversity Strategy for 2030, and EU Nature Restoration Law.

Private sector with obligations under the Corporate Sustainability Reporting Directive.

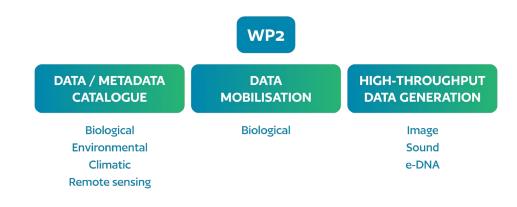
Academia in natural and life sciences.

Society at large interested in biodiversity and nature conservation.



Data access, mobilisation & capture

Providing stakeholders access to high-throughput image and sound capture methods for eDNA sampling and Al-based species identification.



DATA POLICIES









Data harmonisation

Harmonising biodiversity data through data cubes, taxonomic integration, and spatial-temporal analysis to enhance access, identify gaps, and inform policy.

WP3

DATA HARMONISATION

DATA GAP
BIAS SURFACES

DATA
CUBE ENGINE

Spatial

Temporal

Taxonomic









Data storage, visualisation & computing

Creating a FAIR-aligned Data Space for on-demand storage, computing, and visualisation of harmonised biodiversity data via scalable cloud and geospatial tools.

WP4

DATA / MAP VISUALISATION

CLOUD COMPUTING

DATA SPACE





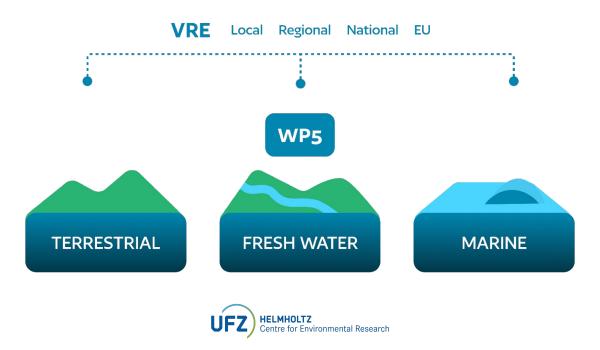






Virtual Research Environments

Co-designed with stakeholders, these on-demand tools enable analysis of biodiversity trends, drivers, and impacts across all realms to support targeted action and policy.



Virtual Research Environments





Covers the three realms and all spatial scales



Users define their own analyses



Natura 2000 designation reports

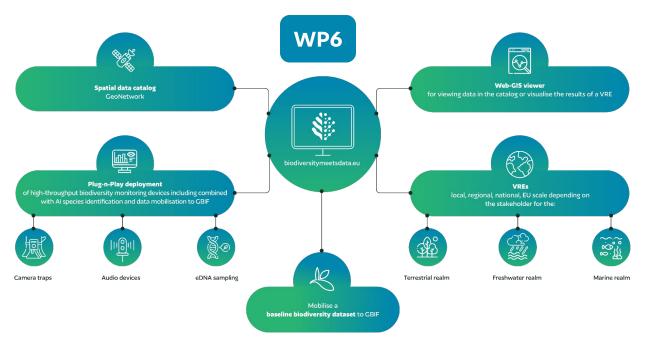


National checklists



Single Access Point

A co-designed platform providing high-throughput monitoring tools, legacy dataset publishing, configurable research environments, and a web-GIS viewer for visualising aggregated biodiversity data.





Communication, Dissemination & Training







Stakeholder engagement through ethical, inclusive collaboration to shape the Single Access Point for real-world needs.

Trainings for site managers, policymakers, and researchers to build skills in using the SAP and other tools.



















Get involved!





Key Performance Indicators



Deploy monitoring devices



Facilitate stakeholder enrolments



Mobilise and disseminate new datasets



Create a catalogue with relevant data

Key Performance Indicators



Setup biodiversity data cubes



Co-design
Virtual Research
Environments



Establish a Single Access Point



Develop training products and organise workshops



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