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Towards a European Biodiversity Observation Network

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Co-funded by the European Union





Top Challenges

- Inaccessible and insufficient raw data
- Unharmonised measurements and indicators
- Reporting and financial burden
- Confusing network of knowledge holders
- European IT infrastructure for biodiversity absent

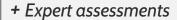










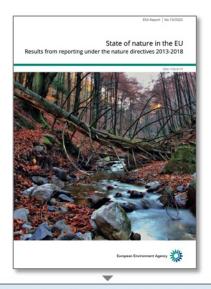




National integration







Harmonized reporting & quality check



Topic Center for Biodiversity

EU integrated information systems







~65% reporting done with limited data or solely qualitative assessments

Organisations working hand in hand

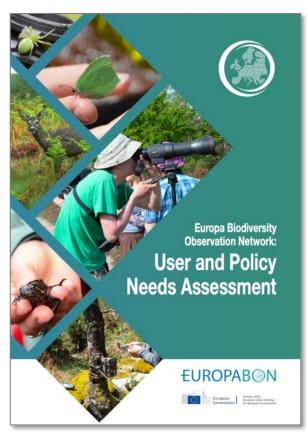






- Assess current biodiversity monitoring efforts to identify gaps, data &
 workflow bottlenecks and analyse cost-effectiveness of monitoring schemes
- Demonstrate how EBV & EESVs provide timely and relevant data for Europe including policy relevant indicators to track progress towards the targets
- Assess feasibility of settign up a center to coordinate monitoring activities across Europe
- 74 research policy actors and environmental policy actors from 36 European and associated countries
- Part of the EU Biodiversity Strategy 2030
- Pooling resources (800 M €, 2021-2028)
- Promoting link between research, monitoring & policy (incl supporting transnational biodiversity monitoring)

The EuropaBON User & Policy Needs Assessment



- Better coordination between the national & subnational biodiversity monitoring schemes
- Sustainable funding
- Harmonisation (methods, protocols, databases,...)
- Digitalisation & new technologies
- Better integration of in situ & remote sensing data
- Stronger engagement of society / citizen science approaches
- Capacity building
- (....)

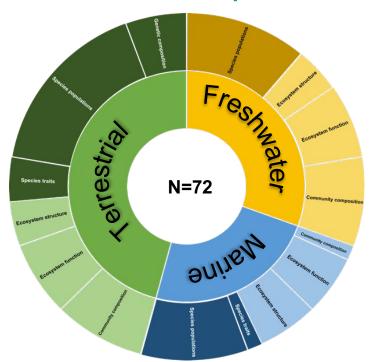
⇒ Promoting & supporting transnational biodiversity monitoring

Catalog of monitoring initiatives



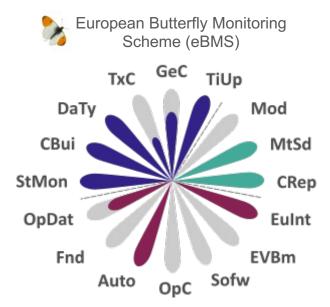


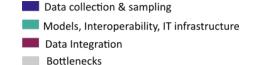
Essential Biodiversity Variables



- Species variables: status of species of conservation interest
- Ecosystem variables: trends in ecosystem condition and restoration
- Important variables for estimating ecosystem services

Gaps and bottlenecks for producing EBVS





The EuropaBON showcases

TATE OF NATURE

CROSS-SECTORIAI POLICIES

Birds Directive

Farmland birds EBV



Habitats Directive

Habitat extent EBV



Water framework directive

Freshwater benthic invertebrates EBV



©Felicity Rose Cole / BBC

Bioeconomy

Fructification phenology EBV



Soil restoration

Microbial biomass EBV



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Specifications and workflows for each EBV

Benefits and costs at different levels of ambition

Datasets from the showcases in the EBV Portal





- Understand national and subnational biodiversity monitoring governance structures, and priorities
- Enriching and testing the EuropaBON outcomes in different countries/ contexts
- Co-developing solutions to overcome the challenges and bottlenecks identified by EuropaBON (incl governance aspects)
- Increase ownership by environmental policy actors
- Capacity building + Sustainability

Biodiversity Monitoring Coordination Center



On-going research call

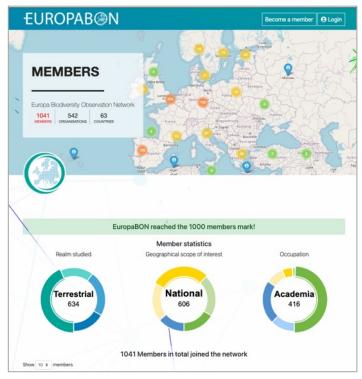
Improved transnational monitoring of biodiversity and ecosystem change for science and society

Over 40M€ budget reserved 33 countries participating





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Thank you!





