



# LifeWatch Portugal

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# LifeWatch Portugal

LifeWatch Portugal is one of the seven national nodes composing LifeWatch ERIC, the e-Science European Infrastructure consortium providing data resources, web services and Virtual Research Environments (VRE) to biodiversity and ecosystem research.

LifeWatch Portugal is managed at a national level by PORBIOTA – the Portuguese e-Infrastructure for Information and Research on Biodiversity, led by CIBIO-InBIO – the Research Centre in Biodiversity and Genetic Resources. PORBIOTA was included in the first Portuguese Roadmap for Research Infrastructures of strategic relevance in 2014. PORBIOTA contributes to promoting integrative taxonomy and building up knowledge of national biodiversity, comprising descriptions of new species both for science and at a national level. It promotes advancements in highly competitive cutting-edge areas, such as metabarcoding and environmental metagenomics.

By supporting the digitisation, aggregation and dissemination of data on biodiversity and Portuguese ecosystems, PORBIOTA contributes very significantly to the advancement of scientific knowledge in biodiversity, ecosystems functions and ecosystem services, and is increasing the international impact of Portuguese research in these fields.



## What we do

LifeWatch PT through PORBIOTA offers access to a wide variety of services related to biodiversity, ranging from biodiversity and environmental data resources to computational and analytical tools for research and policy implementation and evaluation.



### Biodiversity data

LifeWatch PT provides an online platform with biodiversity data collected either in Portugal or worldwide by Portuguese institutions.



### DNA barcodes

LifeWatch PT provides an online platform with DNA barcodes for animal and plant species that occur in Portugal.



### Species identification

LifeWatch PT supports species identification based on morphological and molecular tools.



### Services

LifeWatch PT offers ecosystem identification services and access to four Long Term Ecological Research Sites and Platforms, as well as to greenhouse gas and ancillary data from specific ecosystems.

# The Consortium

PORBIOTA connects the main Portuguese research institutions working in biodiversity:

- Research Centre in Biodiversity and Genetic Resources-Research Network in Biodiversity and Evolutionary Biology, Associate Laboratory (CIBIO-InBIO);
- Polytechnic Institute of Viana do Castelo (IPVC);
- Centre for Environmental and Marine Studies, U.Aveiro (CESAM-UA);
- Marine and Environmental Sciences Centre, U.Coimbra (MARE-UC);
- Forest Research Centre, School of Agriculture of the U.Lisbon (CEF-ISAUL);
- Linking Landscape, Environment, Agriculture and Food, School of Agriculture of the U.Lisbon (LEAF-ISAUL);
- Centre for Ecology, Evolution and Environmental Changes, Faculty of Sciences of the U.Lisbon (cE3c-FCUL);
- National Museum of Natural History and Science, U.Lisbon (MUHNAC-UL);
- Science Museum, U.Coimbra (MC-UC);
- Museum of Natural History and Science, U. Porto (MHNC-UP);
- Institute for Nature Conservation and Forests (ICNF);
- Portuguese node of GBIF;
- Portuguese Ecological Society (SPECO).

PORBIOTA is listed in the Portuguese Roadmap of Research Infrastructures of strategic interest, which includes: LTER Portugal, ICOS Portugal and Azores BIOPORTAL.

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## LifeWatch ERIC



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