

Heraklion, 30 June - 3 July 2025







Session: Exploring boundaries of life hosting spaces: Habitat mapping

2 July 2025 | 08:30-10:30





Exploring boundaries of life hosting spaces: Habitat mapping *Presenter: Olga Ameixa*



The LifeWatch ERIC Thematic Working Group (WG) on Habitat Mapping of Ecosystem Services









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UAveiro/CESAM | some context





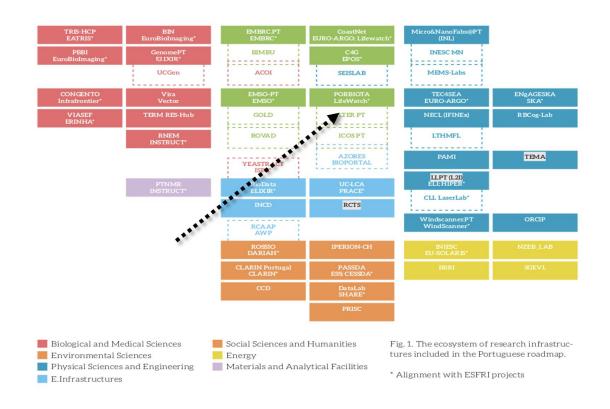


LifeWatch Portugal | some context









PORBIOTA was one of the 40 Research Infrastructures in Environmental Sciences to integrate the Portuguese Roadmap of Research Infrastructures of strategic interest.

Aligned with LifeWatch-ERIC



LifeWatch Portugal | some context

Information Facility



NETWORK | Ecological DATA Biodiversity Ecosystems Environment





LifeWatch Portugal | some context







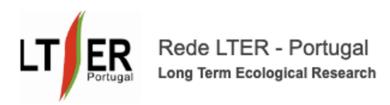
LifeWatch ERIC was established as a European Research Infrastructure Consortium in March 2017. LifeWatch ERIC seeks to understand the complex interactions between species and the environment, taking advantage of High-Performance, Grid and Big Data computing systems, and the development of advanced modelling tools to implement management measures aimed at preserving life on Earth.

Integrated Carbon Observation System (ICOS) is a pan-European research infrastructure founded in 2008, which provides harmonised and high-precision scientific data on carbon cycle and greenhouse gas budget and perturbations. ICOS European Research Infrastructure Consortium (ERIC) was established in 2015.





GBIF—the Global Biodiversity Information Facility—is an international network and research infrastructure funded by the world's governments and aimed at providing anyone, anywhere, open access to data about all types of life on Earth. GBIF was officially established in 2001. http://www.gbif.pt



This organized network of LTER sites first appeared in the USA in the 1980's. In 1993 an international network was developed (ILTER) and, more recently, the European network of LTER sites was created, with the main objectives of monitoring and storing relevant data in ecology, establishing links among institutions and researchers and promote the exchange of data and knowledge.

https://www.lterportugal.net



The LifeWatch ERIC Thematic Working Group (WG) on Habitat Mapping of Ecosystem Services

Objectives

- Bringing together researchers, practitioners, and policymakers to advance habitat-based approaches for assessing and visualising ecosystem services.
- Mapping ecosystem services to illustrate their *supply, demand, spatial distribution, trends, and pressures*, providing vital insights for *sustainable management and policy support*.



Key objectives – Line of activities #1

Mapping Requirements and Gap Analysis



 Identify supply and demand for ecosystem services most relevant for targeted actions (e.g., biodiversity conservation, restoration planning, climate change response), and assess current mapping coverage within LifeWatch ERIC.

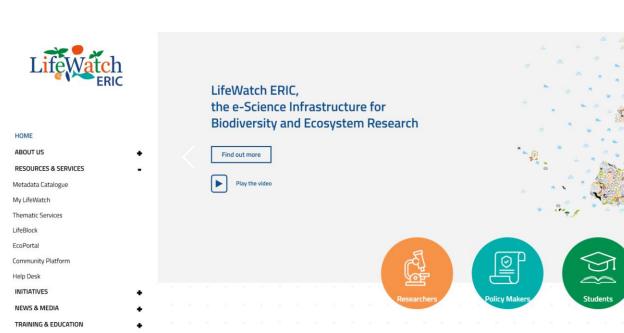




CONTACT US

BEES CONFERENCE 2025

Ensure mapped services
 and associated data are
 accessible via the LifeWatch
 ERIC Marketplace.



Access and use the resources and services for biodiversity and ecosystem researchers made available through our catalogues.

Metadata Catalogue

of Resources & Services

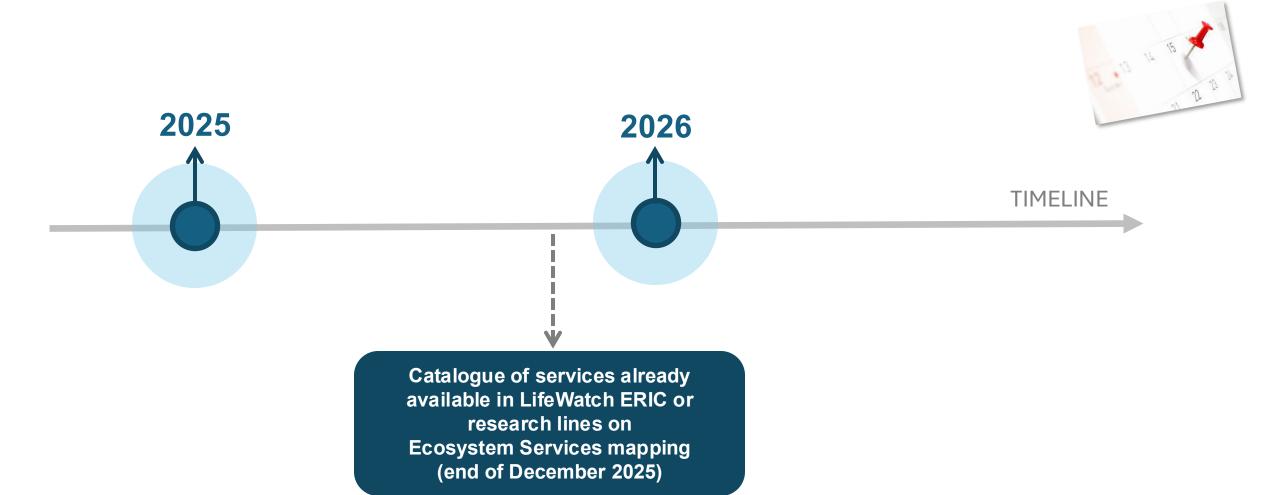


Collect mapping needs from WG
members and stakeholders to
guide the expansion of datasets
and prioritise efforts to fill
spatial and thematic gaps.











Key objectives – Line of activities #2

Methodological Alignment and Innovation

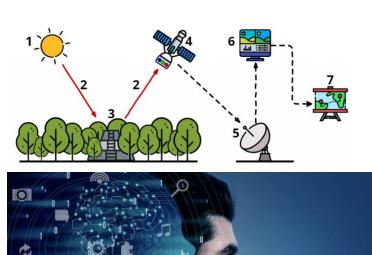


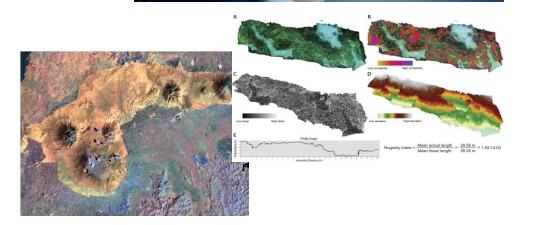
 Promote harmonisation of methodologies by reviewing and aligning mapping standards, classification systems, and indicators across members.





 Encourage the integration of advanced techniques such as remote sensing, GIS modelling, and machine learning for scalable, habitat-based ecosystem service mapping.





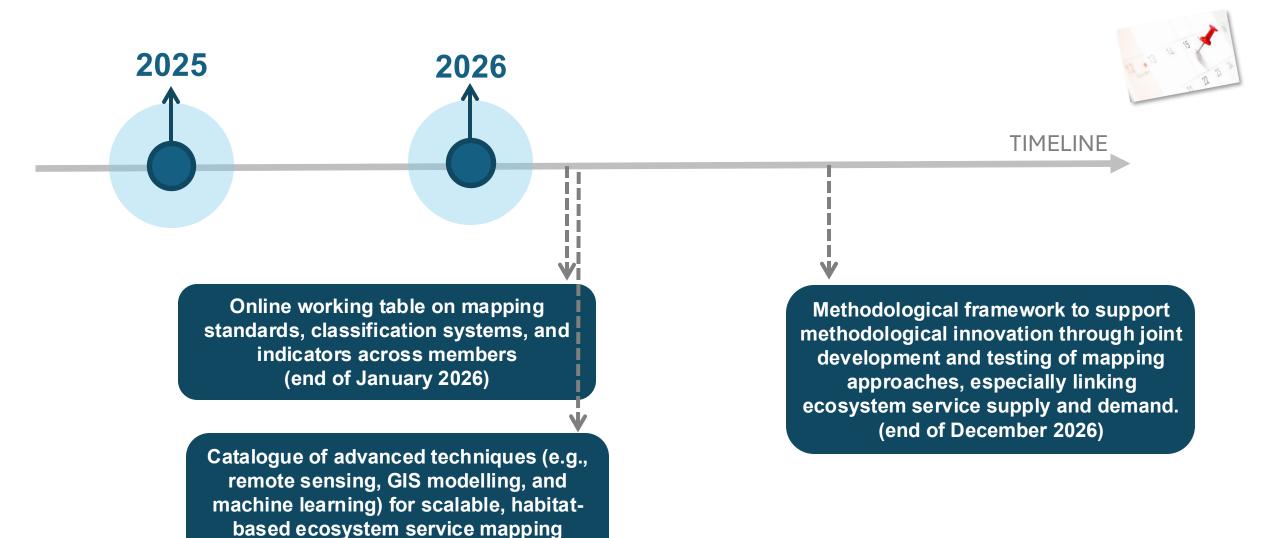


 Support methodological innovation through joint development and testing of mapping approaches, especially linking ecosystem service supply and demand.









(end of January 2026)



Key objectives – Line of activities #3

Knowledge Exchange and Capacity Building



 Organise regular workshops, webinars, and training sessions to exchange knowhow, share case studies, and build technical skills among members.



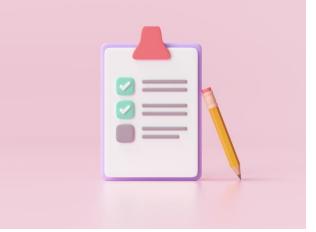
Thematic Service Workshop "Habitat Mapping: From Science and Policy Needs to Solutions". Aveiro, 3rd of May 2024



 Create a shared repository of guidance documents, tools, templates, and data resources accessible to WG members and broader communities.







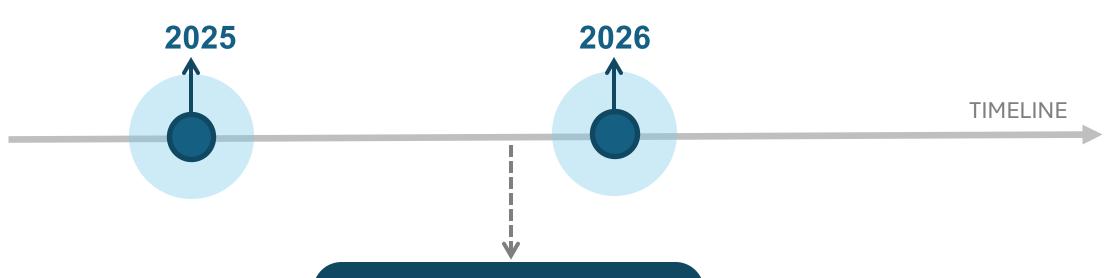


 Facilitate cross-sector learning and foster interdisciplinary collaboration among ecologists, data scientists, spatial planners, and policymakers.









Create a shared repository of guidance documents, tools, templates, and data resources accessible to WG members and broader communities.

(end of December 2025)



Key objectives – Line of activities #4

Policy Relevance and Uptake



 Develop policy-relevant use cases demonstrating the application of habitat-based mapping in supporting EU strategies (e.g. Biodiversity Strategy, Nature Restoration Law).











 Engage with policymakers and practitioners to co-design outputs that are directly usable in planning, reporting, and restoration initiatives.











 Promote the WG's work as a model for ecosystem-based planning, reinforcing LifeWatch ERIC's role in supporting science-policy interfaces.

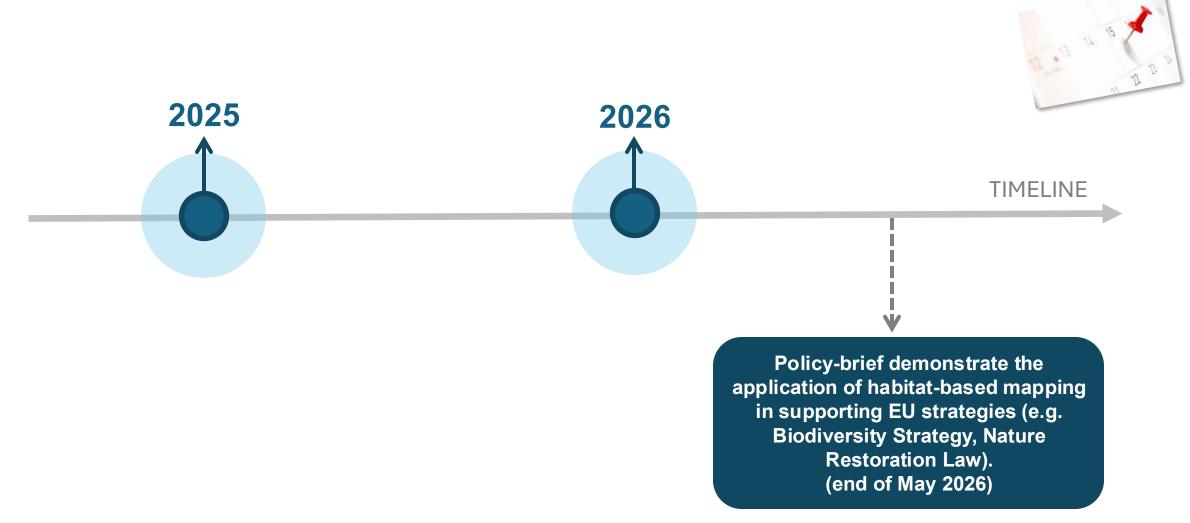


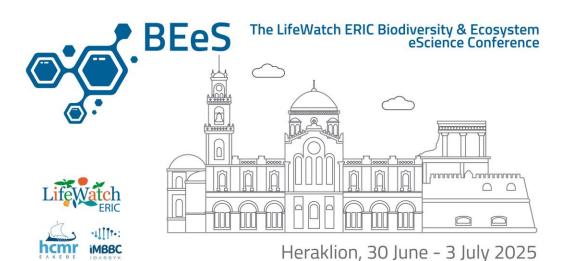












Thank you!







