The LifeWatch Eric Semantic Platform

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LifeWatch is the European Infrastructure supplying e-Science research facilities to scientists.
LifeWatch ERIC

adding knowledge and deepening understanding on Biodiversity organisation and Ecosystem functions and services

by federating distributed physical observatories, research and institutional environment management centres ...
LifeWatch ERIC

... and by bringing together **scientific communities** into a single accessible web space

in **support** of our **societies** to address **key planetary challenges**
Architecture Overview

[Diagram of Architecture Overview]
Welcome to EcoPortal, the LifeWatch ERIC repository of semantic resources for ecology and related domains.

- 25 Semantic Artefacts Published
- more than 100 in publication
- a customised ISO 19139 for VREs, services, workflows and research sites;
- EML 2.2.0 profile for datasets.

https://metadatalibrary.lifewatch.eu
Visual Semantic Search

LifeWatch Italy Semantic Platform
To search through and access LifeWatch Italy resources with the help of semantically enriched queries. The platform is based on a main semantic model that describes different resources and their metadata, as well as on meaningful links between the controlled vocabularies for the Biodiversity and Ecosystems domain and the resources of LifeWatch Italy.

What are you searching for?
The platform is powered by a semantic search engine that can be used in two modes - simple or structured.

Simple Search
To use the simple search, type at least two characters in the search box.

Structured Search
Use the structured search to formulate more complex queries. Start by selecting the kind of resource you wish to find.

https://semantics.lifewatchitaly.eu
Visual Semantic Search

Structured query

LifeWatch ERIC Upper Ontology (LUPO)

LifeWatch Italy Datasets metadata

LifeWatch Italy Datasets observations
The structured search allows users that do not know how to write SPARQL queries to formulate questions that are more complicated with respect to a simple text-based search by using only the UI.

It permits to query and browse datasets observations by fostering the investigation and collaboration between scientific communities of different domains by means of semantic artifacts.
Stay tuned

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