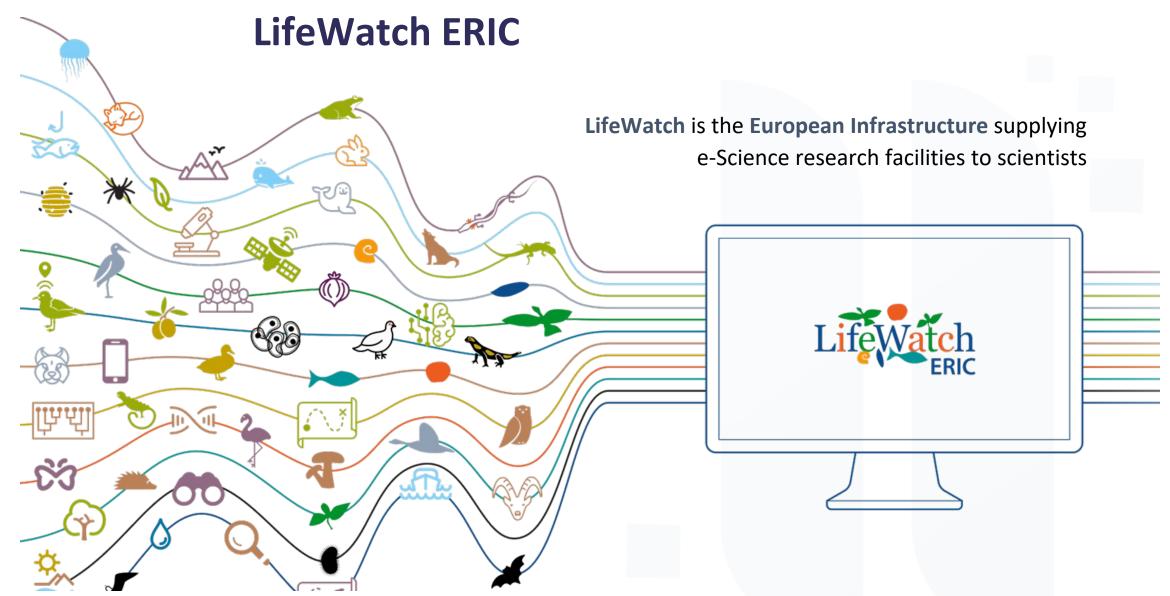




PIDs: Ecoportal and the meta(data) Catalogues in LifeWatch ERIC

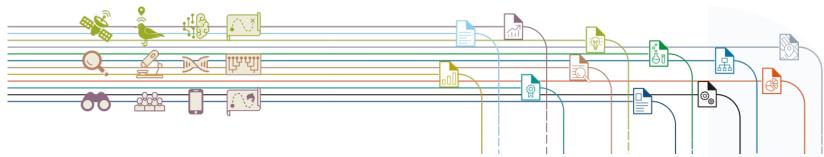
Nicola Fiore, LifeWatch ERIC, Service Centre ICT Coordinator





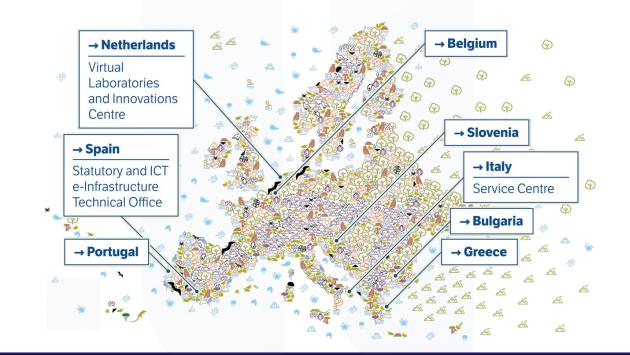


LifeWatch ERIC



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

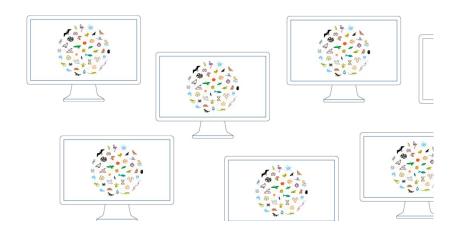
by **federating** distributed physical observatories, research and institutional environment management centres ...



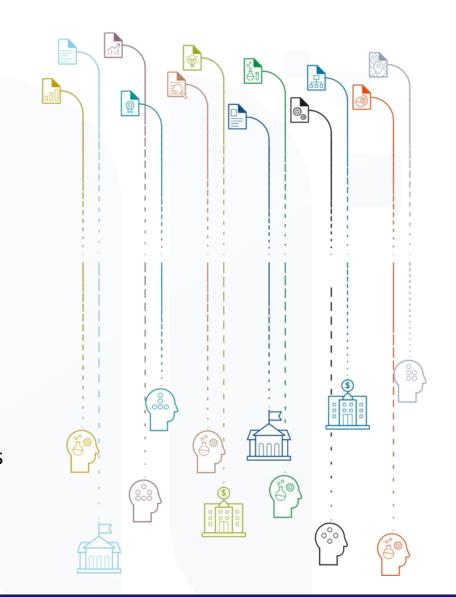


LifeWatch ERIC

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

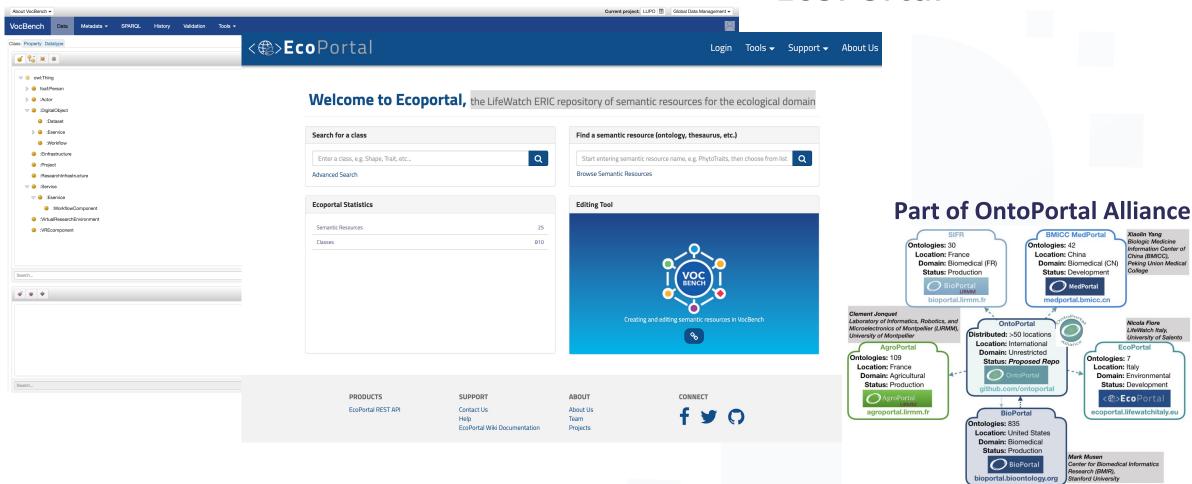


in support of our societies to address key planetary challenges



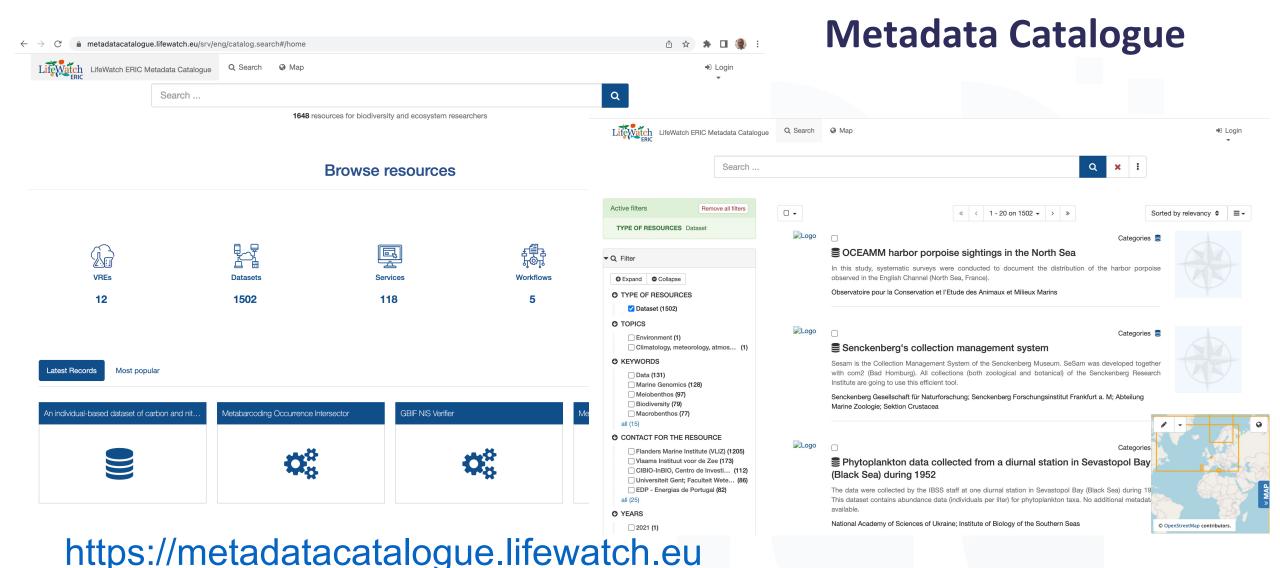


EcoPortal



http://ecoportal.lifewatch.eu







Where PIDs are used

- Semantic artefacts
 - ontologies
 - controlled vocabularies
 - taxonomies
 - thesauri
 - named authority lists







- PIDs for affiliated institutions (optional)
- Versions, multiple PIDs, provenance ?





T3.2 Kick-off Meeting Espoo, 06/10/2022



Where PIDs are used

- Semantic artefacts
 - ontologies
 - controlled vocabularies
 - taxonomies
 - thesauri
 - named authority lists



- complex, evolving datasets
 - o complete or partial imports
 - references to external artefacts
 - highly evolving according to type
- IRIs: strategy, procedure for minting
 - o we need a lot of them
 - URL or URN, meaningful or opaque: security, language bias, persistence



T3.2 Kick-off Meeting Espoo, 06/10/2022



Where PIDs are used

- Datasets
- Services
- Workflows
- Virtual Research Environments
- Research Sites





Datasets may already have their own PIDs

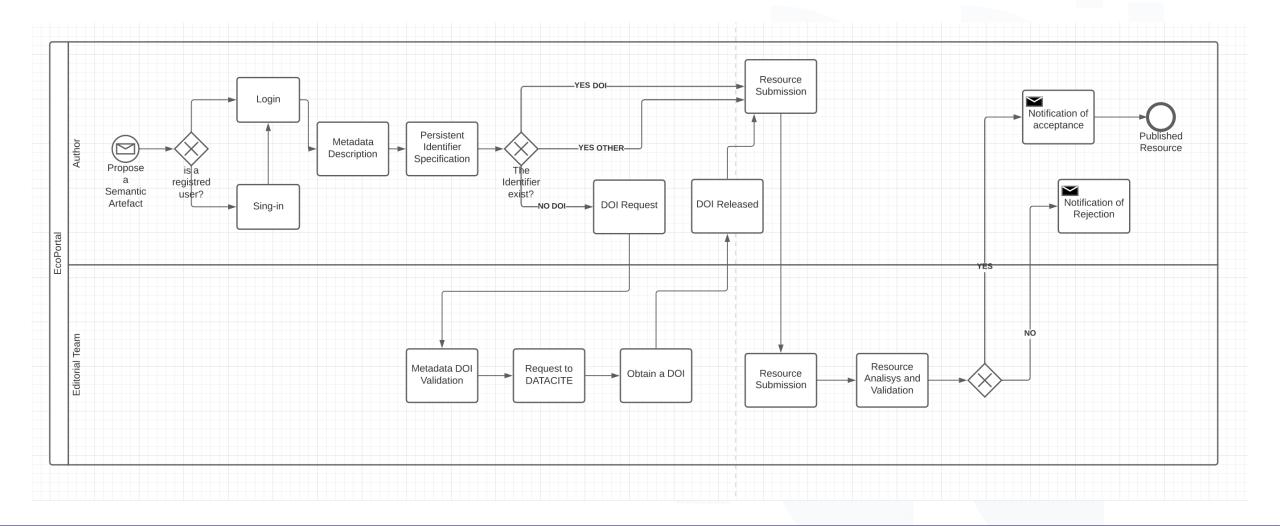
Services, Workflows, VREs, Research Sites?



T3.2 Kick-off Meeting Espoo, 06/10/2022

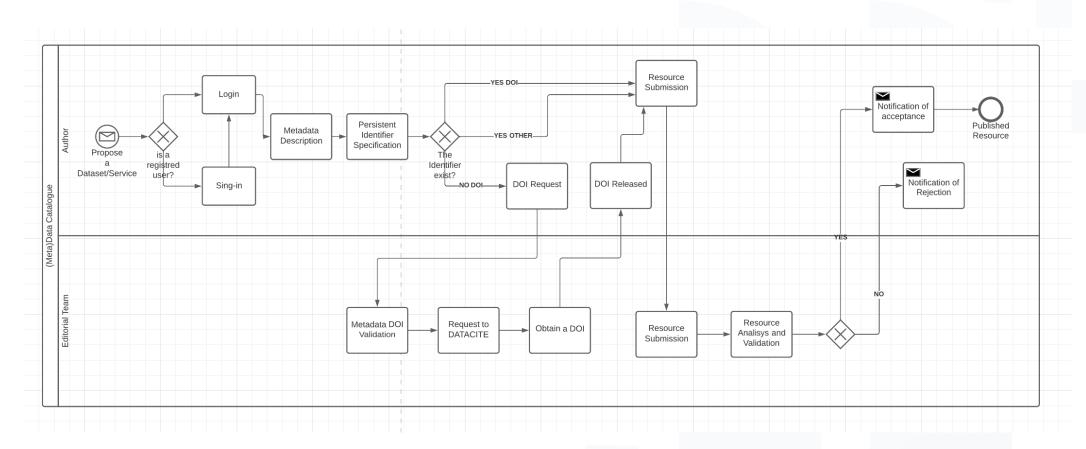


EcoPortal Governance



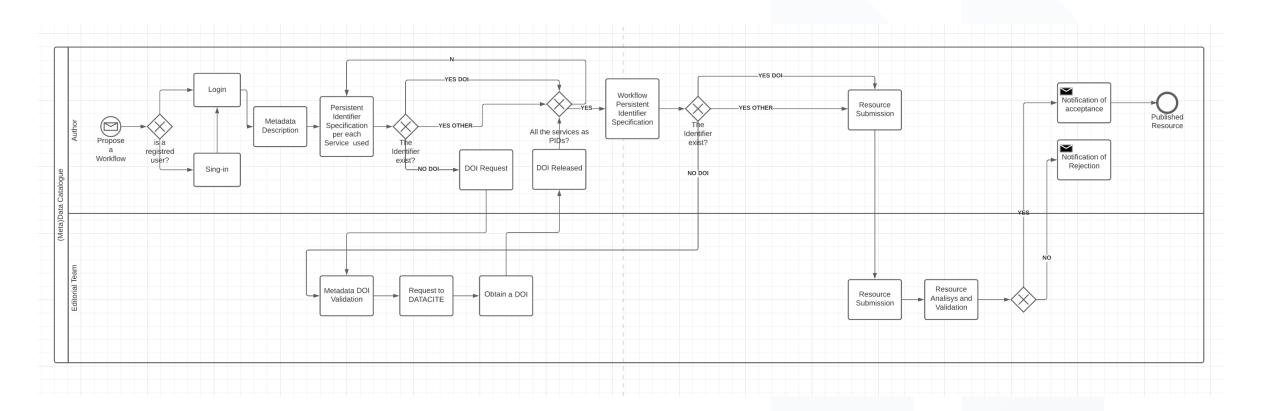


Meta(Data) Catalogue Governance





Meta(Data) Catalogue Governance



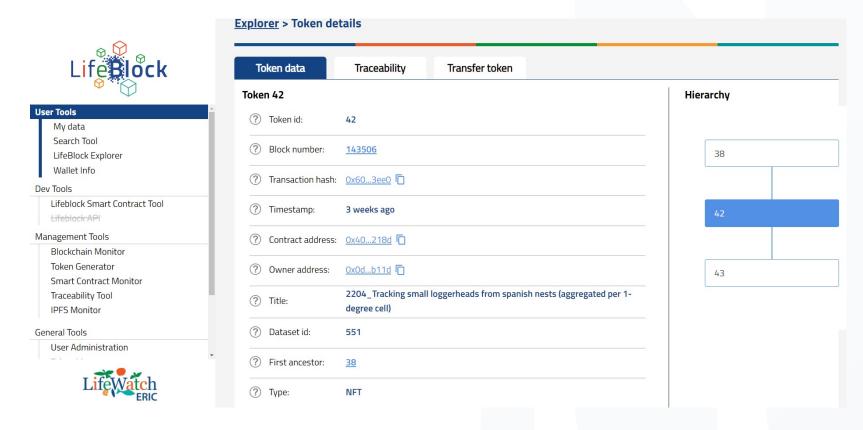


PIDs Open Issues

- •Dataset granularity: commonly in the Virtual Research Environment, a dataset can be filtered and composed with rows coming from other datasets and analyzed by services, the final result is a new dataset. How can we manage the provenance of this new dataset? DOI/PIDs of the entire dataset or DOI/PIDs of the provenance subsets? Plus DOI/PIDs of the services. Different Metadata Schema Profiles?
- •Workflow granularity: a workflow contains one or more services, each service has assigned or not a DOI/PID. Before to assign a DOI to the workflow all the services that compose it must have an assigned DOI? Is it possible to automatize the DOI assignment process?
- •Version granularity: version of the entire artefact, version of the entities inside, link between deprecated and valid entities
- •PID Policy definition: how to be aligned with the EOSC Policy?



PIDs Challenges: LIFEBLOCK – the adoption of Blockchain technology



Nicola Fiore nicola.fiore@lifewatch.eu









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