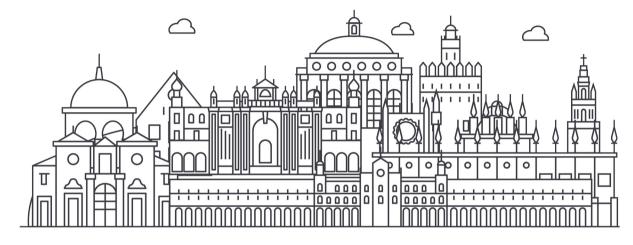


The LifeWatch ERIC Biodiversity & Ecosystem eScience Conference



Seville 22-24/05/23

Threats and challenges to biodiversity and ecosystem conservation from an eScience perspective









The European Research Infrastructure LifeWatch ERIC and its support to the Biodiversity and Ecosystem Research Community

Christos Arvanitidis, Juan Miguel González Aranda, Lucas de Moncuit, Alberto Basset, Peter van Tienderen, Antonio José Sáenz Albanés, Joaquín López Lérida, Nikos Minadakis, Antoni Huguet Vives.









What are Research Infrastructures?

Research infrastructures are organisations that enable the research community to use specific facilities, resources and services in order to accelerate scientific achievements and promote sustainable research.

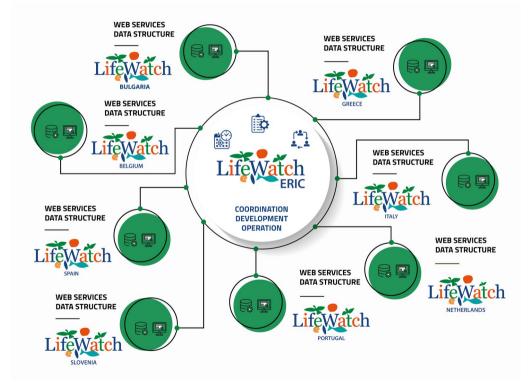








LifeWatch ERIC 2017 - 2021









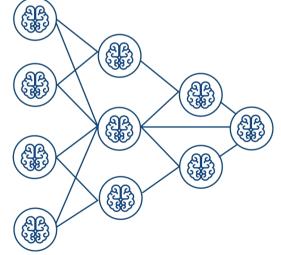
LifeWatch ERIC 2017 – 2021: the essential ingredients

- 1) Open access (FAIR) data;
- 2) Reproducible analytics;
- 3) Mobilised communities.



From brain-etics to brain-omics











LifeWatch ERIC 2017 – 2021: cross-cutting technologies















LifeWatch ERIC 2017 – 2021: cross-cutting technologies

Training opportunities on our services and key scientific issues;

Master and PhD programmes;

Summer schools;

Webinars;

Educational initiatives.











LifeWatch ERIC 2017 – 2021: how far we have

gone?











BEeS Threats and challenges to biodiversity and ecosystem conservation from an eScience perspective LifeWatch ERIC 2022 – 2026: New vision and mission

1. Vision

Become the Research Infrastructure providing access to the world's biodiversity content, services and communities in one click.

2. Mission

Accelerate the research effort of the scientific community by delivering the European state-of-the-art e-Infrastructure on Biodiversity and Ecosystem Research: a Digital Twin which provides (a) access to, and support for, key scientific services by applying cutting-edge ICT technology, (b) enables reproducible analytics, (c) is co-designed and co-created with the user communities and (d) is tuned with the needs for research that provides key insights for society, in particular science-based policy.







LifeWatch ERIC 2022 – 2026: principles









LifeWatch ERIC 2022 – 2026: priorities



GOBIERNO DE ESPAÑA E INNOVACIÓN

LW ERIC as an Organisation ->
optimisation of structure and function
LW ERIC as an Infrastructure ->
expansion of current
Infrastructure prototype and transformation
into"next-gen IBER"

LW ERIC as a Community -> expansion of current Infrastructure through collaboration with scientific communities

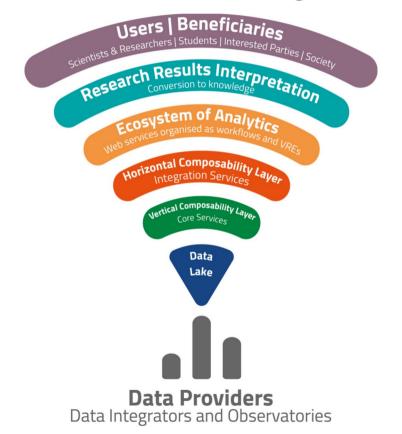
Industrialisation, Technology Transfer and Innovation -> Strategy and scoping of relevant markets to ensure long-term sustainability.



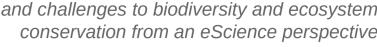




LifeWatch ERIC 2022 – 2026: next-gen IBER

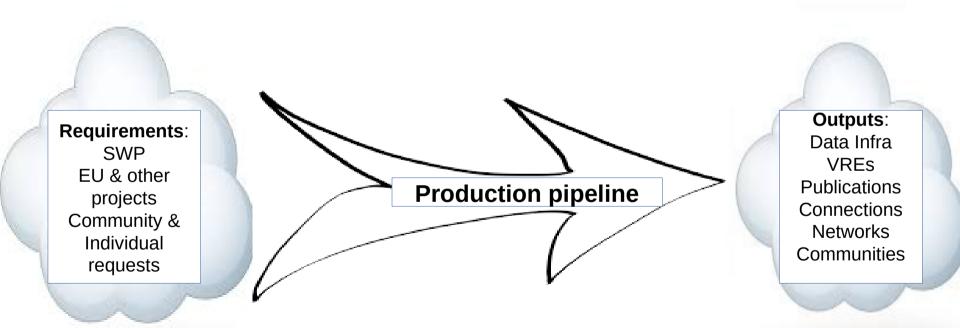








LifeWatch ERIC 2022 – 2026: industrialization











Where to?

https://www.lifewatch.eu/internal-joint-initiative/workflows/

	Sign In with you	ır credentials
L	ifeWatch ERIC	ORCID
G	Google	EGI



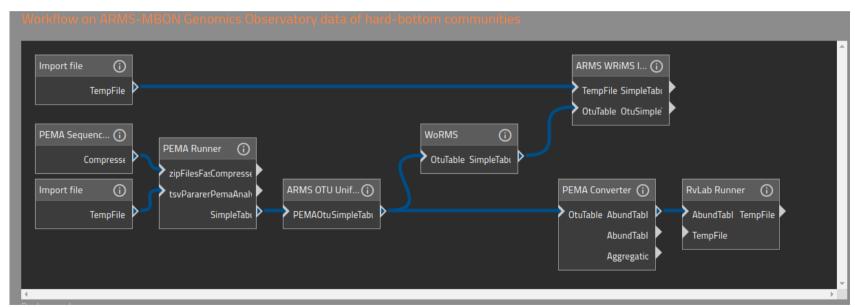








How it works?



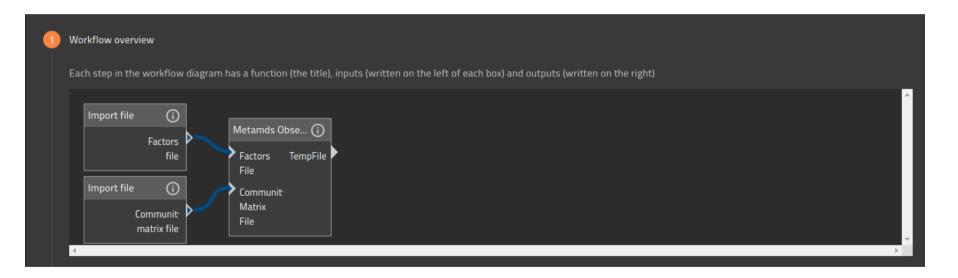








How it works?





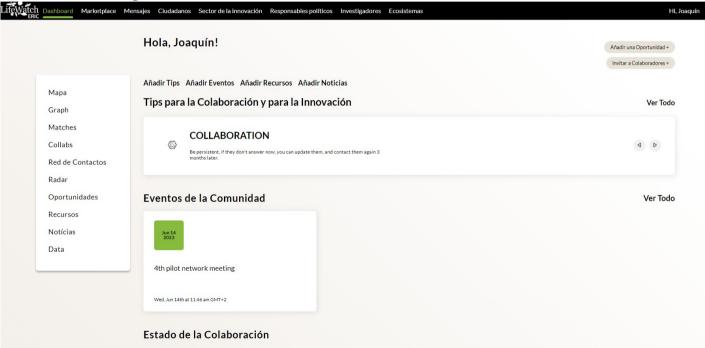




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Where to? mylifewatch.eu



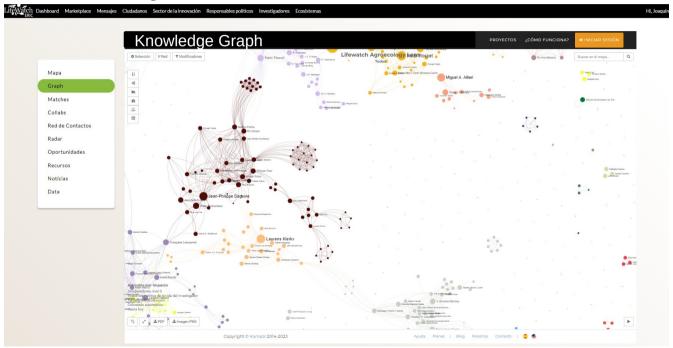








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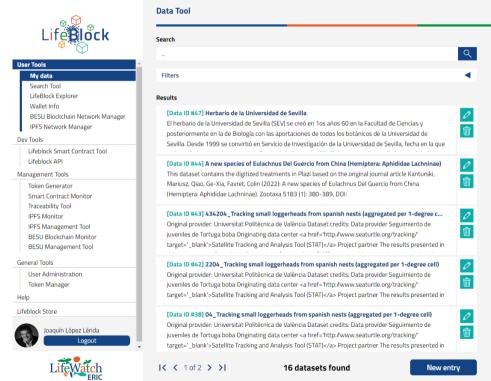




BEeS Threats and challenges to biodiversity and ecosystem Seville, 22-24 May 2023 Conservation from an escioned parametrize conservation from an eScience perspective



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BEeS Threats and challenges to biodiversity and ecosystem conservation from an eScience perspective



Where to? LifeBlock; search tool

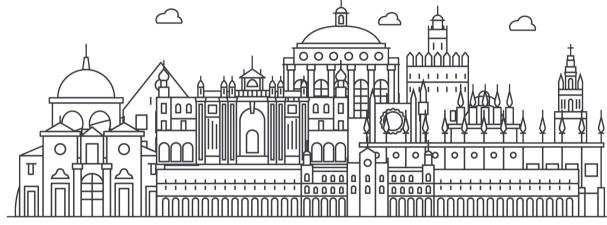
m 🗘 .	Dataset Search		
LifeBlock	Federated search Semantic keyword search Semantic Structured Search		
User Tools	Import from		
My data	GBIF ▼		
Search Tool	Select a data source		
LifeBlock Explorer	GBIF		
Wallet Info	Zenodo		
BESU Blockchain Network Manager	Lter		
IPFS Network Manager	Metadata catalogue		
Dev Tools	DISSCO Ré au		
Lifeblock Smart Contract Tool	All		
Lifeblock API	Herbario de la Universidad de Sevilla		
Management Tools	El herbario de la Universidad de Sevilla (SEV) se creó en 1os años 60 en la Facultad de Ciencias y posteriormente en la de Biología con las aportacio		
Token Generator	en Servicio de Investigación de la Universidad de Sevilla, fecha en la que se le unió el antiguo herbario de la facultad de Farmacia (SEVF) de 22.000 materiales del existentes en el herbario son de la Península ibérica, principalmente Andalucía y del Norte de África (95%), aunque presenta material		
Smart Contract Monitor	materiales dei existentes en el nerbano son de la Pennisola Ibenta, principalmente Amadota y dei Not e de Arinta (53 %), adrique presenta material		
Traceability Tool IPFS Monitor	Herbario de la Universidad de Sevilla. SEV-Historico		
IPFS Management Tool	<		
BESU Blockchain Monitor	trajo Pedro Abat de Igualada (anteriores a 1785), hasta la primera mitad del siglo XX. Entre el material contenido en los Herbarios, hay que destaca		
BESU Management Tool	Virreinatos de Perú y Chile, 1777-1788; Expedición a Nueva España, 1785-1803; Expedición de Malaspina alrededor del mundo, 1789-1795; Expe		
General Tools			
User Administration	Andalusia, Spain. Small loggerheads from a nest at Pulpí (Almería) (aggregated per 1-degree cell)		
Token Manager	Original provider: Doñana Biological Station (CSIC)-Universitat Politècnica de València Dataset credits: Data provider Seguimiento de juveniles de Tc target=' blank'>Satellite Tracking and Analysis Tool (STAT) Project partner Doñana Biological Station, CSIC		
Help	UV Asociación Española de Herpetología-AHE br>Environmental Office of Andalusia Volta Andrew of Sevilla Asociación Española de Herpetología-AHE Abración		
Lifeblock Store			
	Colección de Vertebrados (naturalizados y en fluido) del Departamento de Zoología de la Facultad de Biología de la Universidad de Sevilla		
Joaquín López Lérida	Este juego de datos incluye los ejemplares de Peces, Anfibios, Reptiles conservados en fluido y las Aves y Mamiferos naturalizados que se encuent		
Logout	de Biología de la Universidad de Sevilla. Los datos referidos a Peces, Anfibios y Reptiles conservados en fluido están tratados en lote, especificando		
ئ و ● م	conservan de la misma. Los de Aves y Mamíferos, naturalizados o disecados, se tratan como especímenes individuales.		
L <mark>ifeWatc</mark> h			
ERIC	Herbario IES San Isidoro de Sevilla		
	El herhario procede del Museo Nacional de Ciencias Naturales y el Jardín Rotánico de Madrid, fue enviado al Centro como anovo a la enseñanza de l		







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Thank you! | www.lifewatch.eu/bees-2023

