

Resources across domain boundaries



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the community of Environmental Research Infrastructures in Europe







in approximate numbers



5 operational RIs 12 data portals 300 asset suppliers 19,000 researchers

5 operational RIs 5 data portals 4000 asset suppliers (institutions@SeaDataNet) 20,000 researchers







Domain-scientists access ENVRI services directly via RI portals or APIs

Cross RI / subdomain access via ENVRI-Hub

RIs share knowledge and training resources across scientific domains and foster evolution of RIs

EOSC users access ENVRI service ecosystem through the platform ENVRI-Hub guided by rich metadata





ENVRI-Hub as a Gateway for EOSC Users



Web UI based access to the ENVRI ecosystem

- quick discovery of data, services and assets via the ENVRI-Hub search engine
- sharing of engineering practices, technologies and knowledge

Machine actionable interface to the ENVRI ecosystem

- cataloguing all RIs in the ENV domain
- accessing RIs datasets via metadata search
- interface to EOSC and other users (e.g. Copernicus)

Jupyter notebooks on scientific use cases

- use cases are made accessible as executable demonstrators and demonstrator VREs
- interoperable access to RI services
- building joint workflows



Browse the ENVRI-Hub



search.envri.eu



Collaborative Solutions for Capacity Building



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HOW TO USE THE CATALOGUE

APIs FOR DEVELOPERS

CONTACT US

Welcome to the ENVRI FAIR Training Catalogue

This catalogue is designed to facilitate findability, sharing and reuse of educational resources on FAIR data management. To do so, it hosts metadata of educational resources collected by ENVRI so that these can be searched, discovered and accessed.

Learn more in 'How to Use the Catalogue'. Start your search by clicking on 'Full Catalogue' to navigate through all the resources or use the 'Categories' below to select a specific resources type.

FULL CATALOGUE



Categories



International Schools





Video Tutorials



💄 Login

Guidelines and Best practices





Collaborative Solutions for Capacity Building

- EOSC EB Skills and Training working group
 - Co-authoring the report Digital skills for FAIR and open science
- EOSC Future WP9 (Training)
- FAIRsFAIR project
 - Workshops on metadata for learning resources
 - Co-authoring How to be FAIR with your data: A teaching and training handbook for higher education institutions
- RDA Education and Training on Handling of Research Data (ETHRD) interest group
- OpenAIRE research coordinators' Community of Practice



RDA ETHRD minimal learning resource metadata schema, based on the ENVRI Learning Resource Catalogue design. Image (c) Lucia Vaira, LifeWatch ERIC.



ENVRI Science Demonstrators

Sub-domain and cross-domain Science Demonstrators show the capabilities of service provision among ENVRI Research Infrastructures and Science Clusters. ()

Search ENVRI's Knowledge Base for Jupyter Notebooks

ICOS Carbon Portal Footprint tool

FAIR ENVRI atmospheric data demonstrator

Essential Ocean Variables Global Product

Dashboard State of the Environment

Impact of Non-Indigenous Invasive Species

FAIR Scientific Names Use Case

Daten absenden



Establishment of global standards, ontologies and interoperability for scientific data



ENVRI-FAIRistas engage broadly with RDA

Side Event 17th RDA Plenary | Metadata Standards | PID of Instruments | Training | VREs | Earth, Space, and Env. Sciences IG



I-ADOPT Framework for FAIR variables and metadata description https://www.rd-alliance.org/group/interoperable-descriptions-observable-property-terminology-wg-i-adopt-wg/wiki/i-adopt-0



FAIR Implementation Profiles as Accelerators of FAIR Enhancement and Convergence The FIP Wizard tool for open use

Development of an RI Policy Framework for Interoperability





FAIR Principles

Box 2 | The FAIR Guiding Principles

To be Findable:

- F1. (meta)data are assigned a globally unique and persistent identifier
- F2. data are described with rich metadata (defined by R1 below)
- F3. metadata clearly and explicitly include the identifier of the data it describes
- F4. (meta)data are registered or indexed in a searchable resource

To be Accessible:

- A1. (meta)data are retrievable by their identifier using a standardized communications protocol
- A1.1 the protocol is open, free, and universally implementable
- A1.2 the protocol allows for an authentication and authorization procedure, where necessary
- A2. metadata are accessible, even when the data are no longer available

To be interoperable:

- (1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- 12. (meta)data use vocabularies that follow FAIR principles
- 13. (meta)data include qualified references to other (meta)data

To be Reusable:

- R1. meta(data) are richly described with a plurality of accurate and relevant attributes
- R1.1. (meta)data are released with a clear and accessible data usage license
- R1.2. (meta)data are associated with detailed provenance R1.3. (meta)data meet domain-relevant community standards
- R4.3. (metajoata meet comainrelevant community standard

questions related to the FAIR Principles

digital objects that provide functions needed to comply with FAIR Principles

a collection of machine-readable human agreements addressing each of the FAIR Principles

FAIR Implementation Profile

(FIP)



ENVRIs use FIPs for monitoring progress in FAIRness \implies Success story of



FAIR Enabling Resource

Contributions to a consistent European RI Ecosystem

Adoption of Technical Solutions by RIs

RI2RI Technology Transfer



EPOS architecture has been adopted by JERICO (marine coastal domain)



Coordination of EOSC Future Science Projects

Strategy | Pillar Exc. Science | Architecture | Portal | Science Projects | Training | Stakeholder

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ENVRI Community contributions

ENVRIs onboarding services on the integration platform









ENVR

