

Thematic Track 3: *Competencies and Training*

Session A: *EOSC Academy: Competencies and Training for the EOSC Federation*

Time	Topic
11:00-11:05	Introduction to Track 3
11:05-11:15	Introduction to the EOSC Academy
11:15-11:45	The EOSC Node build-up process and the skills required for successful enrolment and onboarding. Sharing experiences of the Federation Build-up Group
11:45-12:15	Panel discussion: Training needs and their expectations towards the EOSC Academy
12:15-12:30	Conclusions



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Winter School 2026

27 - 29 January 2026
Nice, France



Track 3 Competences and Training

Setting the scene

Celia van Gelder (Health-RI, ELIXIR-NL, OA5EG)

Helen Clare (Jisc, EUDAT, OA5EG)



Welcome to Track 3 Competencies & Training

eosc Word cloud from emerging topics and gaps identified by EOSC Winter School 2026 participants

- Today 35 registrants/ participants
- Which role(s) do you have in EOSC?



Our role(s) in EOSC

Join at menti.com | use code **5958 9888**



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- Setting the scene for Track 3
- Session A:
“EOSC Academy: Competencies and Training for the EOSC Federation”
- Session B:
“Embedding Training and Engagement into the EOSC Federation”
- Session C:
“Towards an EOSC skills and training roadmap”
- Preparing for reporting



EOSC Federation: Transition to production

eOSC | Federation Building the Roadmap for 2026

Transition to production

- Move the EOSC Federation from prototype to production
- Address legal, governance, operational and engagement requirements

Gov & Funding model

- Move beyond the recently approved MoU as a basis for collaboration in 2027
- Elaborate a gov. & funding model that supports a sustainable future for the EOSC Federation beyond the current co-programmed European partnership

Federation-level policies

- AAI: trust framework, levels of assurance & attribute release policies
- Rules of Participation: rights and obligations of a node host/resource provider
- Cybersecurity: Including incident response procedures
- Data Access and Use: for data sharing, licensing, and access
- FAIR Data & Interop: measurable baseline for discovery and access
- Service Mgmt & Monitoring : service quality, reliability, & accountability

Training and Engagement

- Open Science and FAIR data skills
- Contributing to the EOSC Federation
- Engagement of research communities
- Role of competence centres



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Track 3: Competencies and Training - Objectives

Session A: To discuss the role and the contribution of the EOSC Academy within the EOSC Federation

- Shape the design and delivery of the EOSC Academy
- Address the training needs of nodes joining the Federation
- Support the process of Federation development through targeted and well-designed training
- Share lessons learned from EOSC Nodes

Session B: Embedding Training and Engagement into the EOSC Federation

- Explore how open science training can enhance uptake of Node resources
- Clarify synergies between competence centres, other training providers and EOSC Nodes
- Exploring options to improve training material discovery and catalogues
- Provide input to the EOSC Academy and EOSC Federation Handbook

Session C: Towards an EOSC skills and training roadmap

- Consolidate previous recommendations and those from Sessions A and B
- Identify and prioritise next steps for different stakeholder groups
- Create a draft mandate for a new sub-group on training in the Build-up Group



Track 3: Competencies and Training

Challenges addressed

Without proper skills for & engagement from all stakeholders the benefits of EOSC can not be realized

- For potential users/researchers
 - Joining up a fragmented training landscape to make it easier for users to access training
 - Explaining EOSC - its value & services; support is needed if they want to use EOSC services;
 - Making sure users have the skills to access and use the services: training, help desk etc.

- Urgent need for research data professionals (data stewards, etc.)
 - With the appropriate skills
 - We need to have enough of them - training and train-the-trainer needed
 - (European) agreement about minimum curricula and competencies would be very useful
 - Career paths, career possibilities, and certification mechanism

- For staff building the national and thematic EOSC Nodes
 - Guidance needed, following emerging Node specifications (Handbook)
 - Services need to be on-boarded, including Training Services (o.a. Catalogue)
 - Services need to be delivered to users (helpdesk, consultancy, training...)
 - Supporting the training needs of the Federation as it develops



EOSC Academy

Eleni Toli, Athena RC



Purpose and goals

A collaborative initiative built as a **convergence space for mutual learning and knowledge sharing** by bringing together knowledge created within EOSC Federation ecosystem

- Accelerate the development of the EOSC Federation
- Foster a cohesive and sustainable EOSC ecosystem
- Create greater level of awareness on lessons learned from the current Nodes
- Build a shared understanding of the EOSC Federation: a system of people and technical infrastructures
- Assist existing and candidate Nodes and resource providers in participating in the EOSC Federation



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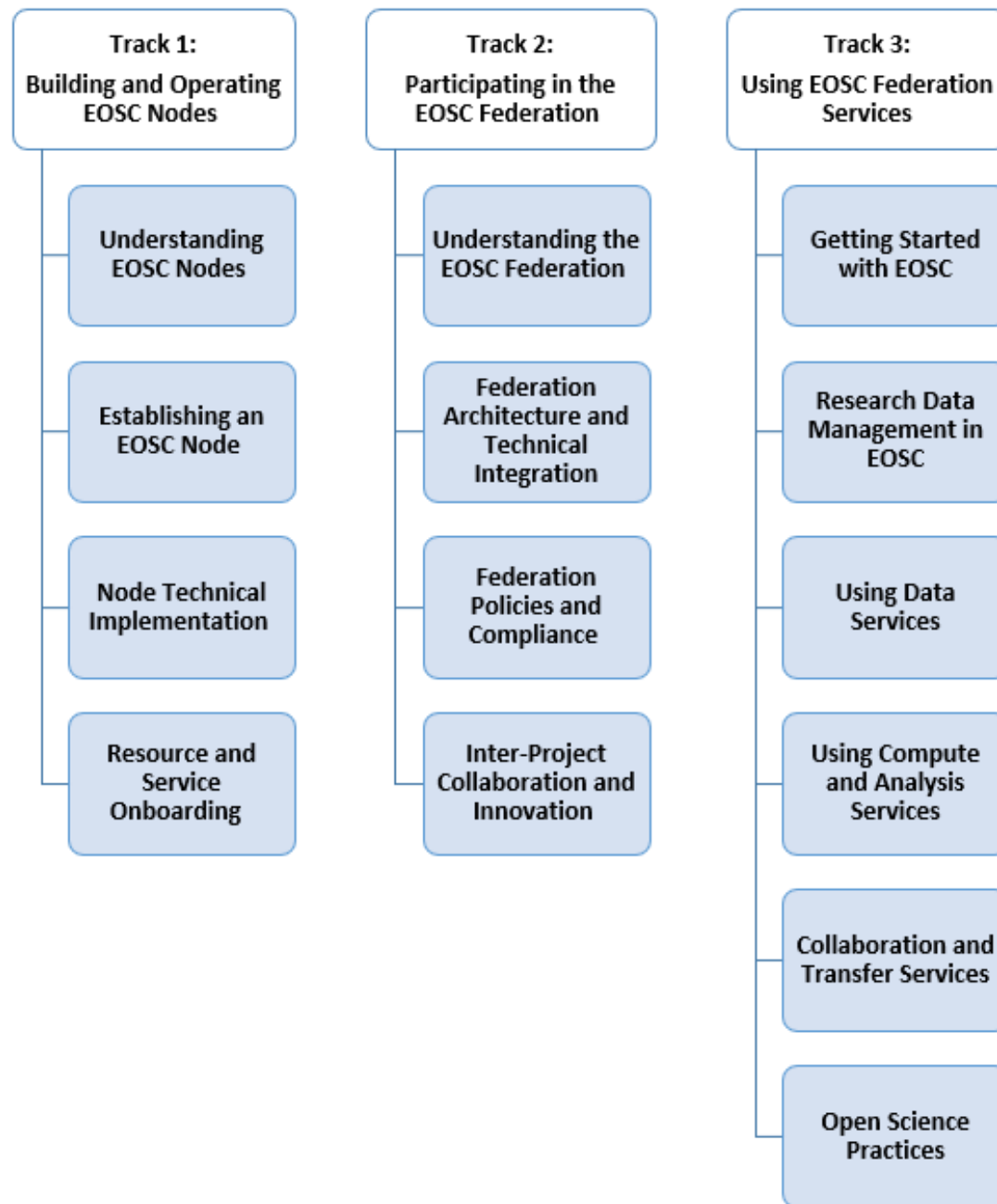


- Acts as a **knowledge bridge** between the EOSC Federation Build-up Group, the EOSC Association, and the broader research and innovation communities;
- Contributes to **accelerating the development of the EOSC Federation** and **enhances capacity and readiness** of national and thematic infrastructures and organisations to participate as fully integrated EOSC Nodes and resource providers;
- Promotes **policy and technical alignment**, supporting e.g. interoperability, adoption of common standards, governance;
- Strengthens **community cohesion**, encouraging cross-domain collaboration and mutual support;
- Creates **greater level of awareness** and builds a shared understanding of the EOSC Federation;
- Supports **long-term sustainability** by embedding continuous knowledge development and sharing, as well as collective knowledge growth into the EOSC governance and operational framework.



Indicative EOSC Academy Topics

Topics



Indicative activities of the EOSC Academy

Activities



Webinars and Online Sessions



**Training Programmes
(Online, Hybrid, and Onsite)**



**Mentorship and
Peer-to-Peer Learning**



**Onboarding Tech Clinics and
Hackathons on technical issues**



Microwebsite



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- Establish a liaison and maintain regular interaction with the EOSC Federation Training Working Group
- Aggregate and curate relevant training resources
- Design and launch of a series of webinars and targeted training actions
- Support cascading grant selected organisations/consortia by facilitating tailored learning opportunities
- Develop a dedicated microsite, as a space for sharing and providing access to all relevant information



- Eleni Toli, Elli Papadopoulou, Maria Kontopidi: Athena RC
- Isabel Caetano, Yann Libaers: EOSC Association
- Natalia Galica: NCN
- Zoltán Pompor, Ákos Lencsés: Pro-M
- Sara Pittonet Gaiarin: Trust-IT

Initiative in the making: your contributions are valuable and can shape the outcome



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Presentations

The EOSC Node build-up process and the skills required for successful enrolment and onboarding. Sharing experiences of the Federation Build-up Group

Chair: Kamran Naim



EOSC-PL

Magdalena Szuflita-Żurawska & Roksana Wilk
Gdańsk University of Technology & Cyfronet AGH



Introduction to the Node

Objectives:

1

Integration

Bring resources into the EOSC Federation

2

Standards

Ensure compliance with FAIR principles across all integrated services

3

Access

Provide federated (AAI) for a seamless user experience

4

Interoperability

Enable open science interoperability across platforms and services

5

Impact

Facilitate cross-border collaboration and efficient resource use for researchers

Governance:

A coordinated federation:

- light central steering
- strong community execution
- iterative approach

Structure:

- Defined roles and responsibilities
- Steering group
- Regular weekly meetings
- Ad hoc Working Groups

Use cases:

- Implementation of federating capabilities
- Design and implementing research workflows based on resources across Federation

Node's entry point:

- Discovery platform
- Federated AAI
- FAIR-by-design working space for researchers



Wave 1 – Providers & Technical Developers (Onboarding Track)

Target group: service providers, infrastructure operators, technical developers

Goal: enable integration and onboarding into the EOSC PL Node, support providers in the *professional delivery of resources in EOSC PL*

- EOSC architecture & interoperability standards
- Service onboarding workflows and compliance
- Technical integration with core capabilities(AAI, catalogue, monitoring,...)
- DevOps & operational best practices
- Producing and onboarding training materials for onboarded services
- Hands-on labs: publishing and connecting services

Wave 2 – End Users (Competence Center Training Track)

Target group: researchers, research communities, data practitioners

Goal: empower effective use of EOSC services and FAIR research practices

- Using EOSC PL infrastructure for research workflows
- Data Life Cycle training (from collection to reuse)
- Research Data Management (RDM) & Data Management Plans
- FAIR & CARE data principles applied in practice
- Data analysis, data science & reproducible research
- Service-specific (EOSC Exchange) training materials

Outcome: A scalable, two-level training ecosystem supporting EOSC PL onboarding, adoption, and long-term cultural change.



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- Providers - onboarding@eosc.pl
- Coordination: contact.eosc.pl

www.eosc.pl



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EOSC Node Digital Twin of the Ocean

Sara Pittonet Gaiarin

Senior Manager, Trust-IT Services

EOSC Node Digital Twin of the Ocean Communications officer



Node Coordination

Coordinating organisation



**Consiglio Nazionale
delle Ricerche**

CNR – Consiglio Nazionale delle Ricerche

Node organisation

Coordinator

Pasquale Pagano (CNR)

Technical Coordinator

Dick Schaap (MARIS)

Stakeholder Engagement and

Dissemination Coordinator

Sara Pittonet Gaiarin (Trust-IT Services)

Operation Manager

Massimiliano Assante (CNR)

Security Officer:

- Tommaso Piccioli (CNR)
- **Infrastructure Manager**
- Andrea Dell'Amico (CNR)

Node Operation

eosc | Blue-Cloud2026



The Ocean doesn't work in silos — Why should we?" — *Nicolas Segebarth, DG RTD*

The European Mandate: Unifying Digital Ecosystems

- **EOSC Federation:** The horizontal, trusted **System of Systems** for all European Research.
- **EU Mission: "Restore our Ocean and Waters"** – The clear, policy-driven societal objective.
- **European DTO / EDITO:** The official, operational infrastructure for marine science.

The Challenge

- Ensuring these powerful strategic pillars are technically and operationally connected to prevent new, larger silos between the DTO Core and the long-tail scientific community.

Our Position

- The **EOSC Node Digital Twin of the Ocean** is the strategic and operational bridge. It promotes dedicated mechanisms to federate marine research capacity into the EOSC ecosystem.



The Solution: Connecting the Ocean within EOSC

A Thematic Node for Empowered Researchers

The **Digital Twin of the Ocean** transforms marine research by providing an integrated environment built on EOSC principles

- **FAIR Federated Data Services**: harmonised data collections with advanced subsetting, semantic enrichment, and provenance tracking, so researchers get exactly the data they need with full trust.
- **Integrated Virtual Research Environment (VRE)**: suite of powerful tools within our Virtual Labs, including:
 - Interactive computing (Jupyter Notebooks, RStudio).
 - Reproducible workflows (Galaxy).
 - Containerization and application management pipelines.
- **Seamless EOSC & EDITO Integration**: seamlessly connect with the EOSC Federation and the European Digital Twin of the Ocean (EDITO), placing marine science at the heart of Europe's digital ecosystem.



Researchers are empowered with trusted, interoperable tools and seamless access to data

The true value of the Marine Node is demonstrated by its impact on science and society

Real-World Cross-Disciplinary Use Case

- A researcher can now seamlessly combine aggregated in-situ and satellite data from key European services like **EMODnet** and **Copernicus Marine** with specialized observation data from Research Infrastructures like **Euro-Argo**, carbon data from **ICOS**, and deep-sea data from **EMSO**.
- They can process this integrated dataset using interoperable workflows in a Blue-Cloud Virtual Lab, with the results directly contributing to the **European Digital Twin of the Ocean (EDITO)** and being shared openly via EOSC.

Supporting a European Mission

- By providing the essential tools and FAIR data infrastructure, the Digital Twin Ocean node directly contributes to the ambitious goals of the **EU Mission: "Restore our Ocean and Waters"**.

A Blueprint for Other Thematic Communities

- Our approach serves as a proven model for how other scientific domains can federate their specific services and data into the **EOSC ecosystem**, extending impact well beyond the marine community.

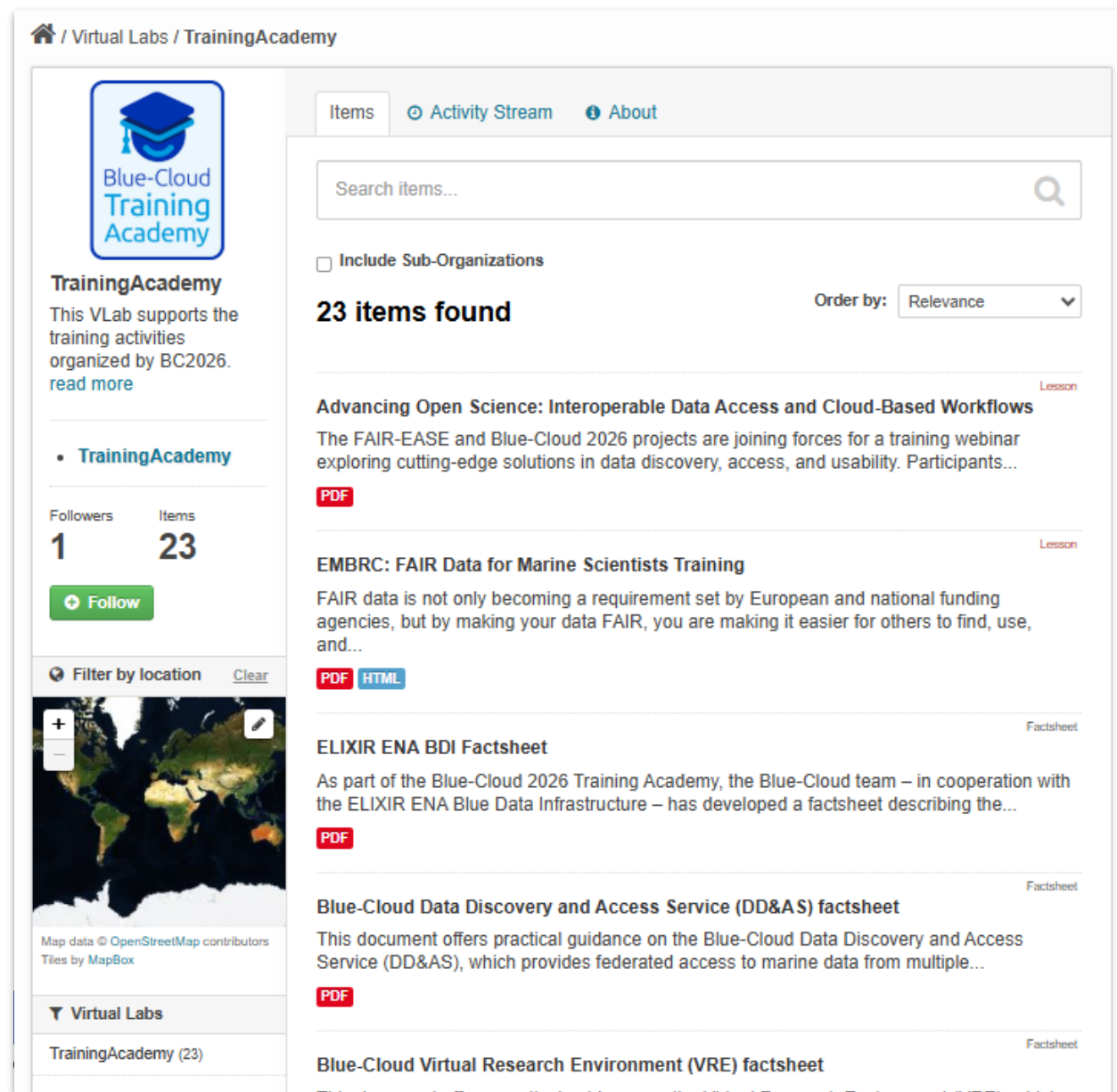
The EOSC Federation accelerates scientific discovery and generates tangible societal impact

The **Blue-Cloud Training Academy** offers comprehensive lessons and materials that guide users in utilising EOSC Node DTO services for Open Science in marine research.

- **A catalogue of Training resources & Materials**
- **Webinar series** on FAIR data, Blue-Cloud VRE, WBs and main Services
- **Partnership** with OTGA for thematic course

+ the **Service Catalogue**





The screenshot shows the Blue-Cloud Training Academy website. The header includes the EOSC and GRAVITY logos. The main content area displays a list of 23 training items, with the first three visible:

- Advancing Open Science: Interoperable Data Access and Cloud-Based Workflows** (Lesson) - The FAIR-EASE and Blue-Cloud 2026 projects are joining forces for a training webinar exploring cutting-edge solutions in data discovery, access, and usability. Participants...
- EMBRIC: FAIR Data for Marine Scientists Training** (Lesson) - FAIR data is not only becoming a requirement set by European and national funding agencies, but by making your data FAIR, you are making it easier for others to find, use, and...
- ELIXIR ENA BDI Factsheet** (Factsheet) - As part of the Blue-Cloud 2026 Training Academy, the Blue-Cloud team – in cooperation with the ELIXIR ENA Blue Data Infrastructure – has developed a factsheet describing the...


The interface also includes a search bar, filters for location and sub-organizations, and a sidebar with a map and a list of virtual labs.

23 Training documents on how to access the VLab services, the VRE and specific Node services

Flow of publication of training materials

1. Log in to the EOSC Node DTO Catalogue
2. Upload the document, making sure to fill in the required metadata fields
3. Push the data into Zenodo
4. Through APIs, the document is published automatically on the Blue-Cloud Training Academy for public access and search





Blue-Cloud 20

Part of EU Open Research Repository

Search records...

My dashboard

Log in






Sign up

Published November 27, 2024 | Version v2

Lesson

Open

FAIR Data Principles 3: Applying FAIR Principles across the (ocean) data management value chain

Pitraner, Gábor, Sara¹ , Cocoquempot, Lucie² , Dobler, Delphine³ , Bejs, Joana⁴ , Buck, Justin⁵ 

Show affiliations

The webinar is the third in a series of three Blue-Cloud 2026 Training Academy webinars on FAIR Data Principles.

Following on from our Blue-Cloud 2026 FAIR Data Principles 1 (Sep 2023) and 2 (Apr 2024) webinars, the upcoming third webinar is dedicated to **exploring the practical application of FAIR Principles throughout the entire data value chain**. This comprehensive focus will encompass every stage: **from the collection of data and transmission (e.g. sensors) through its processing, curation, and application in various products and services**. This session will feature real-world use case experiences, showcasing how these principles are effectively implemented across different stages to enhance data utility and integrity.

The webinar aims to broaden the understanding of FAIR Principles beyond their traditional association with research and academic environments. It will highlight their relevance and growing significance in industry and other sectors, demonstrating how adopting these principles can drive innovation, efficiency and collaboration across different domains. Participants will gain insights into how best practices can be leveraged to optimize data management processes and facilitate interoperability between systems.

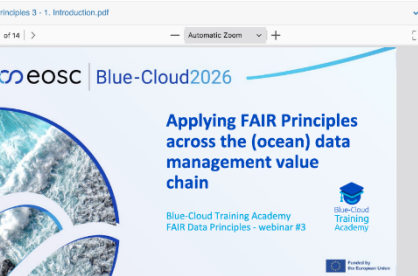
By presenting a range of sector-specific examples and use cases, the webinar will illustrate the tangible benefits of implementing FAIR principles in real-world scenarios. This includes not only improving the accessibility of data but also ensuring its long-term usability, interoperability and compatibility with various technologies and standards. It offers perspectives on how to effectively integrate FAIR Principles into data management strategies to maximize the value and potential of data in various contexts.

Files









FAIR Data Principles 3 - 1. Introduction.pdf

1 of 14

Automatic Zoom



Files (3.8 MB)

Name	Size	Download all
FAIR Data Principles 3 - 1. Introduction.pdf nodo:10.5281/zenodo.14232654:cloud/14232654	1.4 MB	 
FAIR Data Principles 3 - 2. Applying FAIR principles in ocean monitoring sensors and programme.pdf nodo:10.5281/zenodo.14232654:cloud/14232654	1.6 MB	 
FAIR Data Principles 3 - 4. Data Fairness within Argo data system.pdf nodo:10.5281/zenodo.14232654:cloud/14232654	2.5 MB	 
FAIR Data Principles 3 - 4. Data Fairness within EuroB-S data from EMCOndr Biology.pdf nodo:10.5281/zenodo.14232654:cloud/14232654	1.0 MB	 
FAIR Data Principles 3 - 5. Recommendations for handling Complex		

165 VIEWS

448 DOWNLOADS

Show more details

Versions

Version v2

Nov 27, 2024

10.5281/zenodo.14232654

Version 1

Nov 27, 2024


10.5281/zenodo.14232653

Now at 2 versions

Cite all versions: using the DOI [10.5281/zenodo.14232658](https://doi.org/10.5281/zenodo.14232658). This DOI represents all versions, and will always resolve to the latest one. [Read more](#).

External resources

Indexed in

 OpenAIRE

Communities

EU Open Research Repository

Blue-Cloud

Part of EU Open Research Repository

Keywords and subjects

Data Access

Data Management

Data service provider

Data standard

FAIR

FAIR data

Level Basic

Training Academy

Details

DOI

10.5281/zenodo.14232654

Resource type


Lesson

Publisher

Zenodo

Rights

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Keywords



The Blue-Cloud Training Academy **currently offers:**

- **17 Webinar series on FAIR data, Blue-Cloud VRE, WBs and main Services**

Upcoming events:

- 3 Ocean Observers Webinars with and for the EuroGOOS community to present the VLabs
- 3 Ocean Literacy webinar series

Internal training

- on how to upload and use the Training Catalogue in February 2026

The screenshot displays the Blue-Cloud Training Academy event catalogue. It features a sidebar with filters and a main grid of event cards.


Filters:

- Title:** Search by title...
- Event status:**
 - ☒ All events
 - ☐ Upcoming events
 - ☐ Past events
- Type of event:**
 - ☐ Blue-Cloud Event
 - ☐ Hackathon teams event
 - ☒ Training Academy event
 - ☐ Third-party event with Blue-Cloud
 - ☐ Other Event
- Topic:**
 - ☐ DD&AS
 - ☐ EOVs Workbenches
 - ☐ FAIRness
 - ☐ VLabs
 - ☐ VRE

Event Cards:


- Blue-Cloud VRE and Labs Open Info Day** (17 March 2023 01:00, Online)
- Blue-Cloud VLabs for demonstrating open science - Info session** (8 June 2023 02:00, Online)
- webODV for the Physical WorkBench (PWB)** (6 July 2023 10:00–11:00, Online)
- Machine Learning to Improve and Support Ocean Data Quality Control** (6 July 2023 11:00–12:00, Online)
- IQOD 2023 Workshop** (10 July 2023 09:00 – 11 July 2023 17:00, Potsdam, Germany & Online)
- Copernicus Marine In Situ TAC QC procedure and duplicate check** (11 July 2023 11:00–12:00, Online)
- FAIR Data Principles 1: Foundational components, best practices and standards** (26 September 2023 16:00–17:00, Online)
- Optimising FAIRness of federated Blue Data Infrastructures webinar** (6 December 2023 10:00–12:00, Online)
- FAIR Data training course available for marine biologists by EMBRC** (23 January 2024 00:00 – 25 January 2024 00:00, InnovOcean Campus, Ostend, Belgium)


Skills and training within the Node: Partnerships



OceanExpert
 A Directory of Marine and Freshwater Professionals

Last Name ▼

Displaying 1 – 3 results of 3.


How to use a Virtual Laboratory on Coastal Ocean Currents from Observations
Training Course
 17/09/2025 - 31/07/2026




How to use a Virtual Laboratory on Carbon Plankton Dynamics Training Course
 17/09/2025 - 01/07/2026



Navigating the Global Fisheries Atlas Virtual Laboratory: Tools and Techniques
Training Course
 17/09/2025 - 31/07/2026

Displaying 1 – 3 results of 3.

UNESCO/IOC Project Office for IODE

InnovOcean Campus - Jacobsenstraat 1
8400 Oostende, Belgium

 | [Statistics](#) | [Disclaimer](#)

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Starting from September 2025, the EOSC Node DTO / Blue-Cloud 2026 Training Academy is enriched with a set of 4 hour courses designed to empower ocean scientists by providing a comprehensive understanding and practical skills in using the Virtual Laboratories (VLabs) running in the Blue-Cloud Virtual Research Environment (VRE).

Thanks to the project collaboration with the **UNESCO/IOC Project Office for IODE**, the courses are available on the **IOC OceanTeacher Global Academy**, a comprehensive internet-based training platform that supports classroom training, blended training, and online (distance) learning.

- 3 OTGA courses live, 8 by the end of the project developed in cooperation with UNESCO
- 47+50+41 participants associated to the courses, mainly from outside Europe



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The EOSC Node Service Catalogue

12 services harvested into the EOSC EU Node catalogue

The screenshot shows the 'EOSC Node Digital Twin of the Ocean Environment Service Catalogue'. The breadcrumb trail is 'EOSCNodeDTO-Catalogue / Service Catalogue /'. The main content area displays the 'Integration of Coastal oceans observations along Europe VLab'. It includes a sidebar with 'Followers: 0', a 'Rating' of 5 stars (1 review), and a 'Virtual Lab' section. The main description states: 'This VLab provides an environment to access, integrate and exploit observations collected along the European coastal ocean areas. It brings together observations collected by partners of the Joint European Research Infrastructure for Coastal Observatories (JERICO-RI) with other available observation and complementary information, implementing advanced processing and post-processing facilities, analytical tools and interactive state-of-the-art visualizations that provide an unprecedented insight on key processes affecting European coastal ocean environments. It focuses on three thematic services based on key scientific and societal questions: TS#1: Transboundary processes and connectivity, TS#2: Extreme Events and TS#3: Ocean Glider, supporting researchers, Blue Economy actors, environmental and crisis response managers.' The 'Tags' section includes 'Academics and Educators', 'Access Mode Free', 'Extreme Events', and 'JERICO'.

The screenshot shows the 'European Open Science Cloud - EU Node' search results for 'VLab'. The breadcrumb trail is 'Home > Resource hub'. The search bar contains 'VLab' and the results show 'Showing 1 to 1 of 1 resources'. The service is titled 'Integration of Coastal oceans observations along Europe VLab' and is categorized under 'Natural Sciences'. The 'Keywords' section lists: 'Academics and Educators', 'Access Mode Free', 'Extreme Events', 'JERICO', 'Joint European Research Infrastructure for Coastal Observatories', 'Natural Sciences', 'Ocean Glider', and 'Policy...'. The interface also includes a 'SERVICE' button and an 'OPEN ACCESS' button.



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Presenter: Sara Pittonet Gaiarin, Trust-IT Services – s.pittonet@trust-itservices.com

Node : EOSC Node Digital Twin of the Ocean: info@blue-cloud.org

Helpdesk Email: support@d4science.org | Security Contact: security@d4science.org

The website of the node/landing page: <https://blue-cloud.org/eosc-node-digital-twin-ocean>



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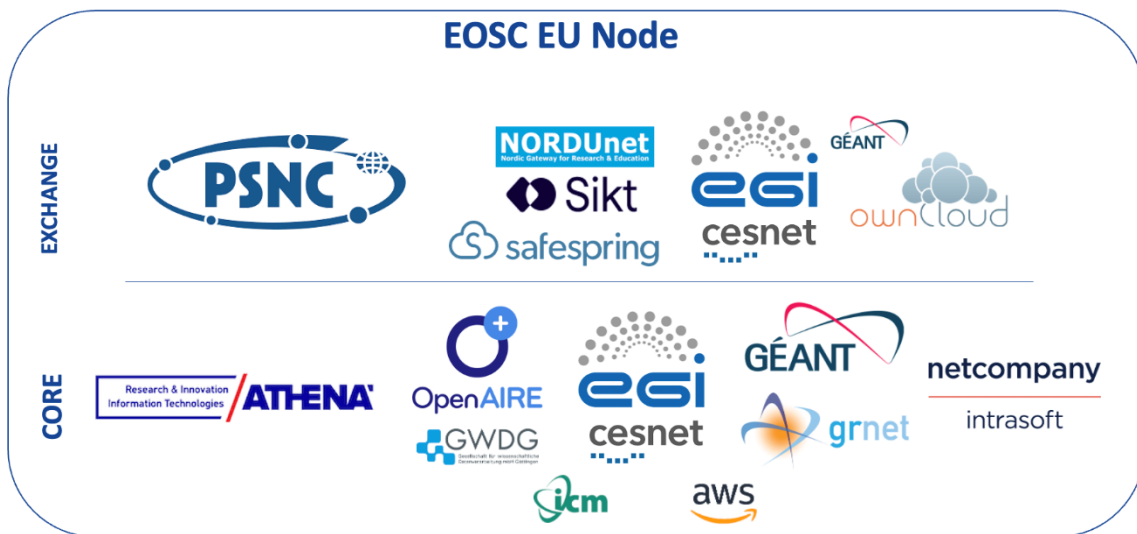
EOSC EU Node

Maja Dolinar

OpenAIRE AMKE



Introduction to the Node



- The first node of the EOSC Federation commissioned by the EC as the Business Owner (DG CONNECT) and operated by the Managed Service Contractors
 - **European level multi-disciplinary** and **multi-national** scientific data/service portfolio for all research users and citizen scientists
 - Specified, provisioned, and operated leveraging experience and outcome gained from EOSC-related projects under a new pragmatic, focused, and quality-assured perspective
 - Serves as a **blueprint** for other EOSC Nodes; architecture and open-source software
 - Provides **federating capabilities** (e.g. AAI via GEANT) and **SaaS** (e.g., Helpdesk) offerings to other Nodes (optional; lower the entry barrier/costs)

The EOSC EU Node serves

- **researchers & groups** (across disciplines, under-served, last resort), **citizen scientists** (discover RO)
- **Service Providers** (discover, access, order), **RIs** (compute/storage resources), **Nodes** (enrol)
- Focal point of the EOSC Federation, but it is only one EOSC Node



Goals and Value Proposition

GOALS

- Deliver a production EOSC Node operated for the EC (DG CONNECT) as Business owner
- Provide an EU-level, multidisciplinary portfolio for researchers and citizen scientists
- Act as a blueprint/reference implementation for other EOSC Nodes (architecture + open-source software)
- Offer federation enablers (e.g. AAI) and optional shared services (e.g. Helpdesk) to lower entry barriers

VALUE / GAPS ADDRESSED

- Reduce fragmentation: a clear entry point to validated services and resources
- Lower onboarding costs for emerging nodes / providers via reusable components and shared services
- Increase trust and usability through quality-assured operations
- Support under-served communities and cross-disciplinary reuse (including “last resort” scenarios)
- Accelerate federation rollout through repeatable processes and tooling



Training Resources (available today)







- Documentation for all EOSC EU Node services and features
- Factsheets for researchers: 1-page quick starts per service with links to the full-service documentation and training materials
- Learning Center with tutorials and courses for researchers (certificates, badges)



<https://openplato.eu/eosceunode>



Explore EU Node Services Fact Sheets

Bulk Data Transfer	Cloud Container Platform	File Sync & Share
		
Interactive Notebooks	Large File Transfer	Virtual Machines
		



Learning Resources for Researchers

For **Researchers**

Tutorials

Quick & step by step guides to help you understand and use the EOSC EU NODE effectively.

[Browse](#)

Courses

Deepen your knowledge and skills in using EOSC EU NODE services and tools.

[Browse](#)



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Tutorials for quick understanding



EOSC EU Node Learning Center

Tutorials for Researchers

TUTORIAL

Beginner

BULK DATA TRANSFER:
INTRODUCTION FOR RESEARCHERS

Bulk Data Transfer

Bulk Data Transfer: Introductory Tutorial

2 Enrolled

TUTORIAL

Beginner

CLOUD CONTAINER PLATFORM:
INTRODUCTION FOR RESEARCHERS

Cloud Container Platform

Cloud Container Platform: Introductory Tutorial

2 Enrolled

TUTORIAL

Beginner

FILE SYNC & SHARE:
INTRODUCTION FOR RESEARCHERS

File Sync & Sharing

File Sync & Share: Introductory Tutorial

3 Enrolled

TUTORIAL

Beginner

HOW TO CREATE GROUPS:
INTRODUCTION FOR RESEARCHERS

Getting started

How to create Groups: Short Tutorial

2 Enrolled



Courses

Optional quizzes available to test knowledge and earn certificates



EOSC EU NODE Learning Center

Courses for Researchers

Beginner

HOW TO CREATE A USER ACCOUNT IN EOSC EU NODE

Getting started

How to create a User Account in EOSC EU Node

8 Enrolled

Beginner

HOW TO USE BULK DATA TRANSFER SERVICE: A COMPLETE GUIDE

Bulk Data Transfer

How to Use Bulk Data Transfer Service: A Complete Guide

3 Enrolled

Beginner

HOW TO USE THE CLOUD CONTAINER PLATFORM: A COMPLETE GUIDE

Cloud Container Platform

How to use the Cloud Container Platform: A Complete Guide

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Beginner

HOW TO USE THE EOSC EU NODE RESOURCE HUB: A COMPLETE GUIDE

Resource Hub

How to use the EOSC EU Node Resource Hub: A Complete Guide

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Course landing page

How to use the EOSC EU Node Tools Hub: A Complete Guide

Category
Tools Hub

Course Overview Course Content

Course Overview

Welcome to this course on how to create a user account in the EOSC EU Node. The EOSC EU Node connects researchers, developers, and institutions across Europe with a wide range of digital services and resources. By creating an account, you will gain access to advanced tools, services, and collaborative spaces to facilitate your research or professional activities. This course will guide you step by step through the process of registering a user account on the EOSC Node, ensuring that you can easily access the available resources and tools.

EOSC EU NODE

HOW TO USE THE EU NODE TOOLS HUB: A COMPLETE GUIDE

Enrol Now

- Updated 30 Jun 2023
- Lessons
- Enrolled
- Language English
- Skill Level Beginner

Entering a course

How to use the Interactive Notebooks: A Complete Guide

0% COMPLETE

- Section 1 - Introduction to Interactive Notebooks
- Section 2 - Navigating the User Interface
- Section 3 - Real-Time Collaboration (not available yet)
- Section 4 - API Access
- Section 5 - File Management and Synchronisation
- Section 5 - Publishing Notebooks
- Section 6 - Conclusion
- Supporting resources

Underlying Components

When working with the Interactive Notebooks, you will interact with several underlying technologies. Here's a quick overview:

Jupyter Notebooks

JupyterLab

JupyterHub

Additional Features and Integrations

Interactive Notebooks offer several advanced features that can enhance your workflow:

- Authentication and Authorization:** Users must log in via the EOSC Portal.
- Extensions and Add-Ons:** Several helpful extensions are available within the environment, such as:

EXIT COURSE



Certificates

Successful completion of a final course quiz grants a certificate of completion

A robust certification and badges system designed to showcase progress and commitment to Open Science and data management best practices

Complete a course to earn official certificate that verifies your knowledge



CERTIFICATE OF COMPLETION

This is to certify that

Maja Dolinar

has successfully completed the course

How to use the Interactive Notebooks: A Complete Guide

Date of completion:

Verify this certificate

9IzNZOsOtL



EOSC EU Node Research Practitioner Badge

Complete a **dedicated learning path** to earn the **EOSC EU Node Research Practitioner** badge.

The badge demonstrates foundational competence in navigating and using the EOSC EU Node to support research activities.



Training Resources (upcoming)



- Tutorials/Guides and courses for contributors – released when the Contributors Dashboard opens (service / tool / resource onboarding)
- Focus: integration, onboarding, metadata / FAIR & interoperability, operations, security & compliance
- Planned formats: step-by-step onboarding guides, self-paced courses
- Dedicated **learning path** for contributors resulting in **EOSC EU Node Research Contributor**

For Contributors

Tutorials

Clear short guides that walk you through key contributor actions.

Coming Soon

Courses

Gain the skills to integrate and maintain your services within the EOSC EU Node framework.

Coming Soon



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Grant agreement ID: 101188045

eosc

Winter School 2026

27 - 29 January 2026
Nice, France



- Presenter: Maja Dolinar, OpenAIRE AMKE, maja.dolinar@openaire.eu
- EOSC EU Node
- <https://open-science-cloud.ec.europa.eu>



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Winter School 2026

27 - 29 January 2026
Nice, France



Panel Discussion

Moderator: Kamran Naim



Kamran Naim



Roksana Wilk



**Magdalena
Szuflita-Żurawska**



**Sara
Pittonet Gaiarin**



Maja Dolinar



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What is your opinion?

Join at menti.com | use code **5958 9888**



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Conclusions and next steps

Kamran Naim



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