

EOSC Portal and Onboarding to the EOSC Marketplace

Milica Ševkušić, OpenAIRE/EIFL

How to make your research products discoverable in the EOSC Portal

12 June 2023

The EOSC Future project is co-funded by the
European Union Horizon Programme call
INFRAEOSC-03-2020, Grant Agreement 101017536





European Open Science Cloud

An initiative by the European Commission to develop a federated and open multi-disciplinary environment where European researchers, innovators, companies and citizens can publish, find and reuse data, tools and services for research, innovation and educational purposes.

“The European Open Science Cloud (EOSC) ultimately aims to develop a 'Web of FAIR Data and services' for science in Europe upon which a wide range of value-added services can be built.”

Read more:

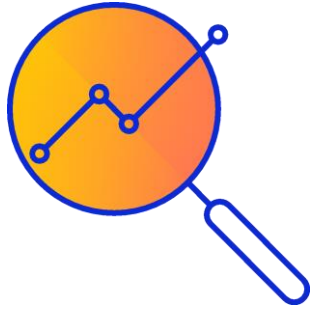
<https://eosc-portal.eu/about/eosc>

EOSC projects: <https://eosc-portal.eu/about/eosc-projects>

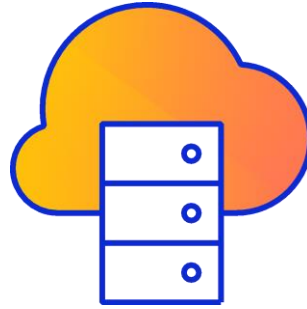
Use cases: <https://eosc-portal.eu/eosc-in-practice/use-cases>



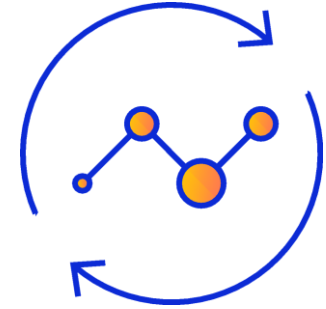
EOSC Future will provide a user-friendly environment for:



Data discovery



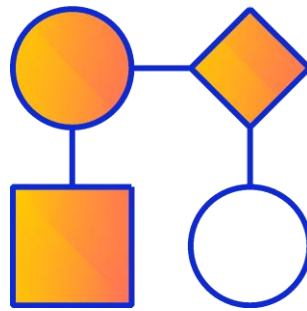
Data storage



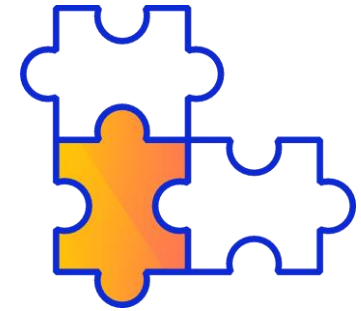
Data recomposition



Computing services



Complex workflows



Integratable services



EOSC Portal

What?

“A gateway to information and resources in EOSC”, delivery channel, interface, entry point,...

Where?

<https://eosc-portal.eu/>

For whom?

All EOSC Stakeholders

researchers, research performing organizations, libraries, service providers, research infrastructures, e-infrastructures, citizen scientists

<https://europeanopensciencecloud.github.io/Governance/StakeholdersAndResources.html>

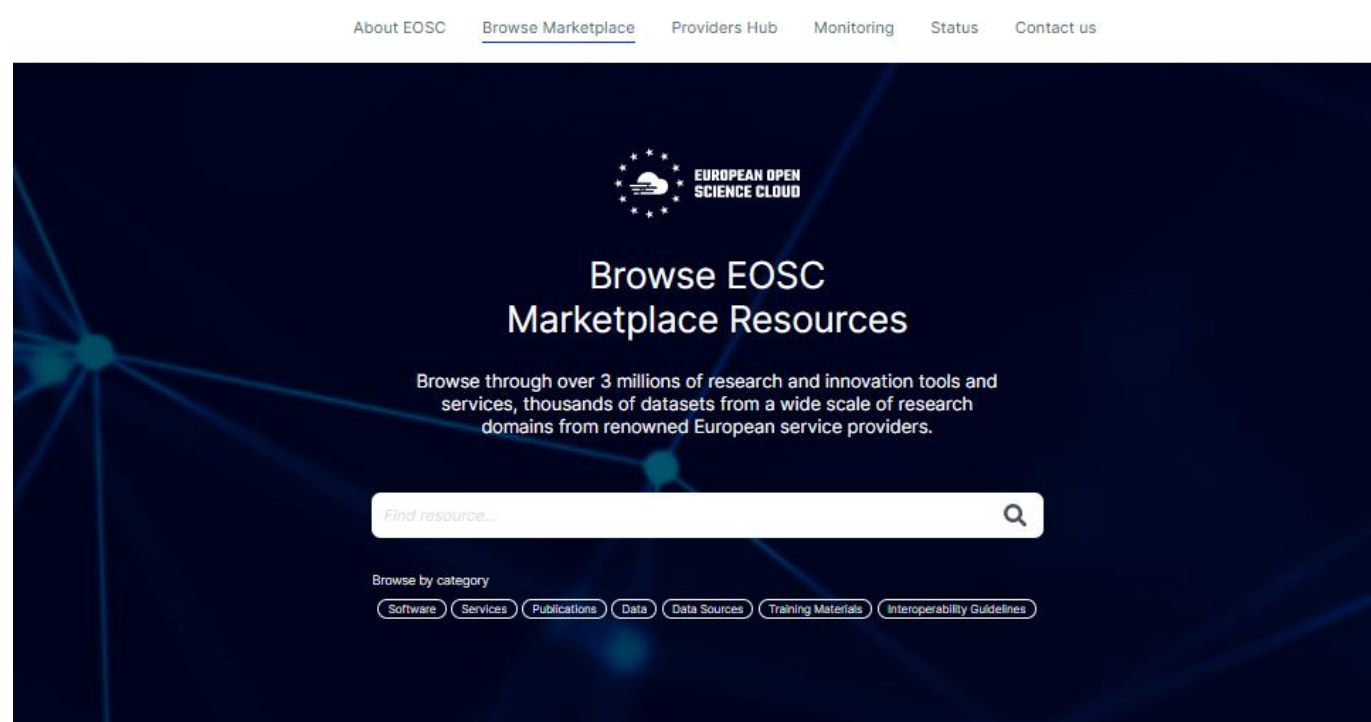


EOSC Marketplace

Resources are described using a standardised set of metadata.

It is possible to compare various **services** and to order them through the EOSC Portal.

Resources are not hosted in the EOSC Marketplace. The Marketplace enables discovery and access.



The screenshot shows the top navigation bar with links: About EOSC, Browse Marketplace, Providers Hub, Monitoring, Status, and Contact us. The main header features the European Open Science Cloud logo and the text "Browse EOSC Marketplace Resources". Below this is a search bar with the placeholder "Find resource..." and a magnifying glass icon. Underneath the search bar are category buttons: Software, Services, Publications, Data, Data Sources, Training Materials, and Interoperability Guidelines. The background is a dark blue network diagram.

Search by Research Activity



[Discover Research Outputs](#)

Find datasets, scientific publications, software.



[Data Management](#)

Find robust, feature-rich and user-friendly services for Data Management.



[Access research infrastructures](#)

Find frameworks made by scientific clusters or RIs that will equip you with the tools to tackle your use case.



[Find Instruments & Equipment](#)

Find research instruments and scientific equipment.



[Publish research outputs](#)

Store, backup, archive your data, publications, software.



[Access computing and storage resources](#)

Find HPC, IT centres for science, cloud computing, cloud container computing, online storage.



[Process and analyse](#)

Verify, organise, transform and integrate data, then export it in the format that works with your tools.



[Access training material](#)

Find lessons, courses, videos.

Resources

- [Services](#)
- [Data sources](#) (e.g. repositories)
- Research products ([Publications](#), [Data](#), [Software](#))
- Other resources (e.g. [Learning resources](#))

Metadata schema

- [Resource profiles](#)
- [Research product profiles](#)
- [Data source profile](#)
- [Training resource profile](#)



SOFTWARE



PUBLICATIONS



SERVICES



DATA



DATA SOURCES



TRAININGS



OTHER

<https://eoscfuture.eu/understanding-different-types-eosc-resources>

Basic Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.BAI.0	ID	A persistent identifier, a unique reference to the Resource.	ResourceID	1	Mandatory	Yes
ERP.BAI.1	Name	Brief and descriptive name of the Resource as assigned by the Provider.	String (100)	1	Mandatory	Yes
ERP.BAI.2	Abbreviation	Abbreviation of the Resource Name.	String (30)	1	Mandatory	Yes
ERP.BAI.3	Resource Organisation	The name of the organisation that manages or delivers the resource, or that coordinates the Resource delivery in a federated scenario.	ProviderID	1	Mandatory	Yes
ERP.BAI.4	Resource Providers	The name(s) of (all) the Provider(s) that manage or deliver the Resource in federated scenarios.	ProviderID	Multiple	Optional	Yes
ERP.BAI.5	Webpage	Webpage with information about the Resource usually hosted and maintained by the Provider.	URL	1	Mandatory	Yes

Marketing Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
ERP.MRI.1	Description	A high-level description in fairly non-technical terms of a) what the Resource does, functionality it provides and Resources it enables to access, b) the benefit to a user/customer delivered by a Resource; benefits are usually related to alleviating pains (e.g., eliminate undesired outcomes, obstacles or risks) or producing gains (e.g. increased performance, social gains, positive emotions or cost saving), c) list of customers, communities, users, etc. using the Resource.	String (1000)	1	Mandatory	Yes
ERP.MRI.2	Tagline	Short catchphrase for marketing and advertising purposes. It will be usually displayed close to the Resource name and should refer to the main value or purpose of the Resource.	String (100)	1	Mandatory	Yes
ERP.MRI.3	Logo	Link to the logo/visual identity of the Resource. The logo will be visible at the Portal. If there is no specific logo for the Resource the logo of the Provider may be used.	URL	1	Mandatory	Yes
ERP.MRI.4	Multimedia URL	Link to video, screenshots or slides showing details of the Resource.	URL	Multiple	Optional	Yes
ERP.MRI.5	Multimedia Name	Short description of the Multimedia content.	String (100)	Multiple	Optional	Yes
ERP.MRI.6	Use Case URL	Link to use cases supported by this Resource.	URL	Multiple	Optional	Yes
ERP.MRI.7	Use Case Name	Short description of the Use Case content.	String (100)	Multiple	Optional	Yes

Resource profile

- Metadata schema (description of the fields in the registration form)
- Onboarding guide
- Controlled terms

<https://wiki.eoscfuture.eu/display/PUBLIC/B.+v4.00+EOSC+Resource+Profile>

Service

HORIZONTAL SERVICE



OpenAIRE ScholeXplorer

OpenAIRE ScholeXplorer

The data and literature interlinking service

Organisation: OpenAIRE

☆☆☆☆☆ (0.0 /5) 0 reviews

Add to comparison

Add to favourites

Access the service

OPEN ACCESS



- [Webpage](#)
- [Helpdesk](#)
- [Helpdesk e-mail](#)
- [Manual](#)
- [Training information](#)

[Ask a question about this service?](#)

ABOUT

DETAILS

GUIDELINES

REVIEWS (0)



OpenAIRE ScholeXplorer

The data and literature interlinking service

Organisation: OpenAIRE

☆☆☆☆☆ (0.0 /5) 0 reviews

Add to comparison

Add to favourites

- [Webpage](#)
- [Helpdesk](#)
- [Helpdesk e-mail](#)
- [Manual](#)
- [Training information](#)

ABOUT

DETAILS

GUIDELINES

REVIEWS (0)

Classification

• Research Steps:
Discover Research Outputs

• Target Users:
Businesses, Researchers, Research Organisations, Providers

• Access Types:
Virtual

• Tags:
scholix open science e-INFRA OpenAIRE

Public Contacts

• info@openaire.eu

Maturity Information

• Tri:
9 - ACTUAL SYSTEM PROVEN IN OPERATIONAL ENVIRONMENT

• Life Cycle Status:
Production

• Standards:
Scholix, JSON, REST

• Version:
v1.0

Management

→ [Helpdesk](#)

→ [Manual](#)

→ [Terms of use](#)

→ [Privacy policy](#)

Marketing

→ [Multimedia 1](#)

ScholeXplorer populates and provides access to a graph of relationships between datasets and literature, and between datasets and datasets. Objects and relationships are provided by data sources managed by publishers (e.g. CrossRef), data centers (e.g. DataCite and non-DataCite data archives), repositories (e.g. OpenAIRE itself and similars). The service aggregates links expressed in Scholix format and offers programmatic access (APIs) that allow third-party services to run queries/provision of the links in the graph. Among known consumers the service API accounts for Science Direct, Scopus, and several data repositories. Enhancing Linked Open Science. Intelligent and contextualized research. Enabling new forms of research impact. As to May 2019, the production service includes more than 56.000.000 links between more than 20.000.000 research objects, counting around 5 billion accesses since production mode (November 2017)

SCIENTIFIC CATEGORISATION



Generic





Research product

 View all 2 versions

Research Data . Dataset . 2019

CNP-building-blocks.db - (4) data quality file (summary of changes made)

Romeo, Daina;  Thomsen, Marianne;  Scotti, Marco;

OPEN ACCESS

ENGLISH

Published: 01 Jan 2019

Publisher: PANGAEA

Summary

Abstract

The table informs about changes made in the original datasets in order to obtain the food nutrient composition database. Therefore, it is composed of 954 food items (in the rows) and the columns correspond to those of the file "CNP-building-blocks.db - (1) food nutrient composition database of 954 food items". The following codes explain how concentration values in the nutrient composition database were obtained: (1) SD (source data), the value was available in the original sources (i.e. Lee et al. 1970, "Free sugars in fruits and vegetables", New York's Food Life Science Bulletin 1, 1-12; FAO 1970, "Amino-acid content of foods and biological data on proteins"; and BEDCA database, see <http://www.bedca.net/>); (2) ND (not defined), the value was not in the original sources and was set to zero; (3) MVR (missing value recalculated), the value was not present ...

[View more >](#)



Subjects

human nutrition, technical validation, Earth System Research

Download from

[View less >](#)

 **PANGAEA - Data Publisher for Earth and Environmental Science** 
Dataset . 2019
License: <http://creativecommons.org/licenses/by/4.0/>
Data sources: PANGAEA - Data Publisher for Earth and Environmental Science

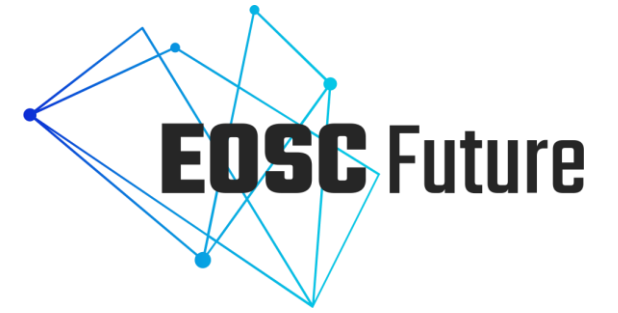
 **B2FIND** 
Dataset . 2019
Data sources: B2FIND

- Data
- Publications
- Software

Powered by the OpenAIRE research Graph

cfuture.eu





Being a provider



Providers

An EOSC Provider is an **organisation or a part of an organisation** provisioning one or more resources to the EOSC.

Resource Providers, Service Providers, Data (Source) Providers, Service Developers, Research Infrastructures, Distributed Research Infrastructures, Resource Aggregators, Thematic Clouds, Regional Clouds...

Metadata schema

- [Provider profile](#)
- [Multi-provider catalogue profile](#)

Who can be an EOSC provider?

- Only legal entities can be EOSC providers.
- A provider should be able to ensure the resource is delivered by them or their collaborators
- A provider should agree to remove resources that are no longer operational or available

Resources should be onboarded by the coordinating or lead provider in case of a federated or jointly provided resource (they are the 'Resource Organisation). Other onboarded providers may be added as supporting or supplementary providers ('Resource providers).



See: [Requirements for providers](#)

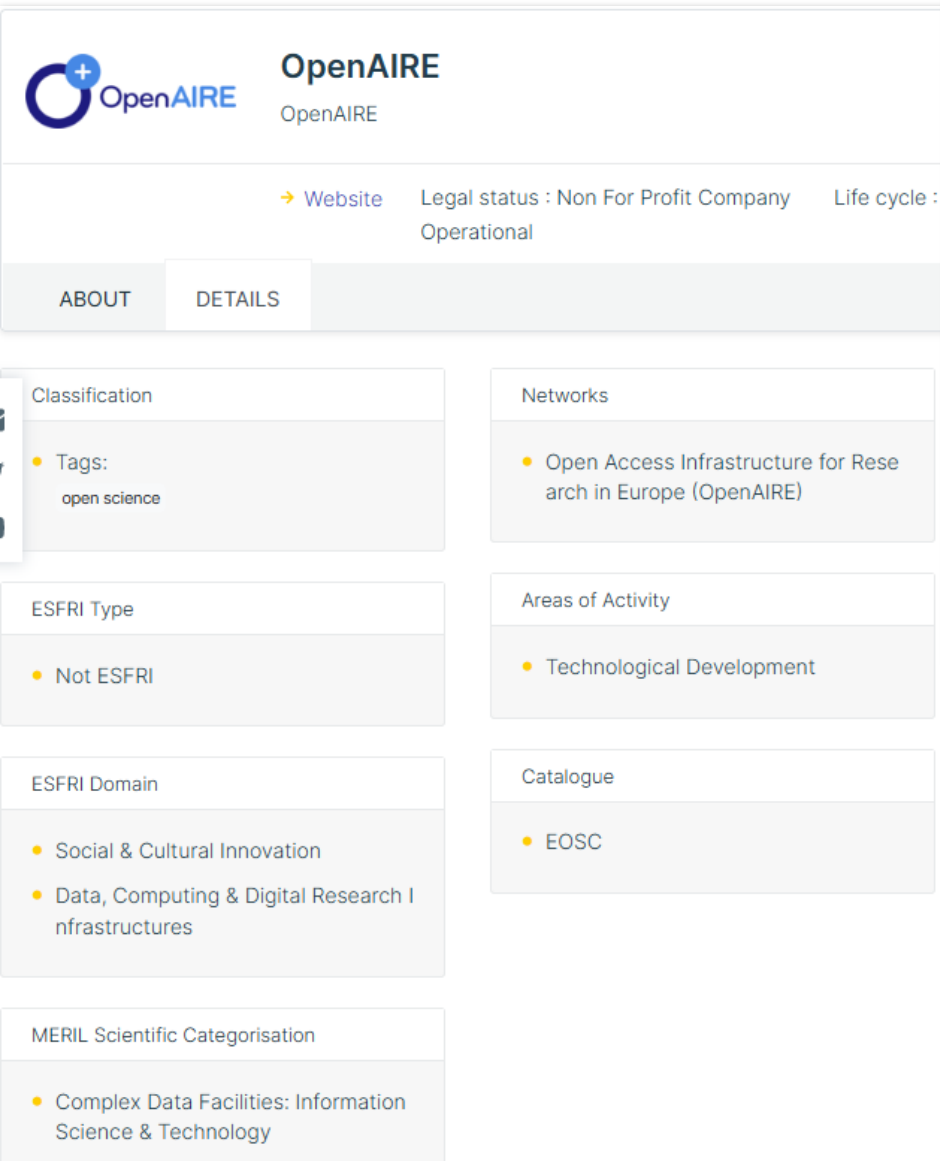
Basic Information						
Code	Attribute Name	Definition	Type	Multiplicity	Required	Public
EPP.BAI.0	ID	A persistent identifier, a unique reference to the Provider.	ProviderID	1	Mandatory	Yes
EPP.BAI.1	Name	Full Name of the Provider/Organisation offering Resources and acting as main contact point for the Resources.	String (max 100)	1	Mandatory	Yes
EPP.BAI.2	Abbreviation	Abbreviation of the Provider Name.	String (max 30)	1	Mandatory	Yes
EPP.BAI.3	Website	Website with information about the Provider.	URL	1	Mandatory	Yes
EPP.BAI.4	Legal Entity	A Y/N question to define whether the Provider is a Legal Entity or not.	Boolean	1	Mandatory	Yes
EPP.BAI.5	Legal Status	Legal status of the Provider. The legal status is usually noted in the registration act/statutes. For independent legal entities this should be the legal status of the Provider. For embedded Providers this should be the legal status of the hosting legal entity.	Enumerated (Provider Legal Status)	1	Optional	Yes
EPP.BAI.6	Hosting Legal Entity	Name of the organisation/institution legally hosting (housing) the Provider or its coordinating centre. A distinction is made between: (1) research infrastructures that are self-standing and have a defined and distinct legal entity, (2) research infrastructures that are embedded into another institution which is a legal entity (such as a university, a research organisation, etc.). If (1) - name of the research infrastructure, If (2) - name of the hosting organisation.	Enumerated (Hosting Legal Entity)	1	Optional	Yes

Provider profile

- Metadata schema (description of the fields in the registration form)
- Onboarding guide
- Controlled terms

<https://wiki.eoscfuture.eu/display/PUBLIC/A.+v4.00+EOSC+Provider+Profile>

Provider page



OpenAIRE
OpenAIRE

[Website](#) Legal status : Non For Profit Company Life cycle : Operational

ABOUT DETAILS

Classification

- Tags:
open science

ESFRI Type

- Not ESFRI

ESFRI Domain

- Social & Cultural Innovation
- Data, Computing & Digital Research Infrastructures

MERIL Scientific Categorisation

- Complex Data Facilities: Information Science & Technology

Networks

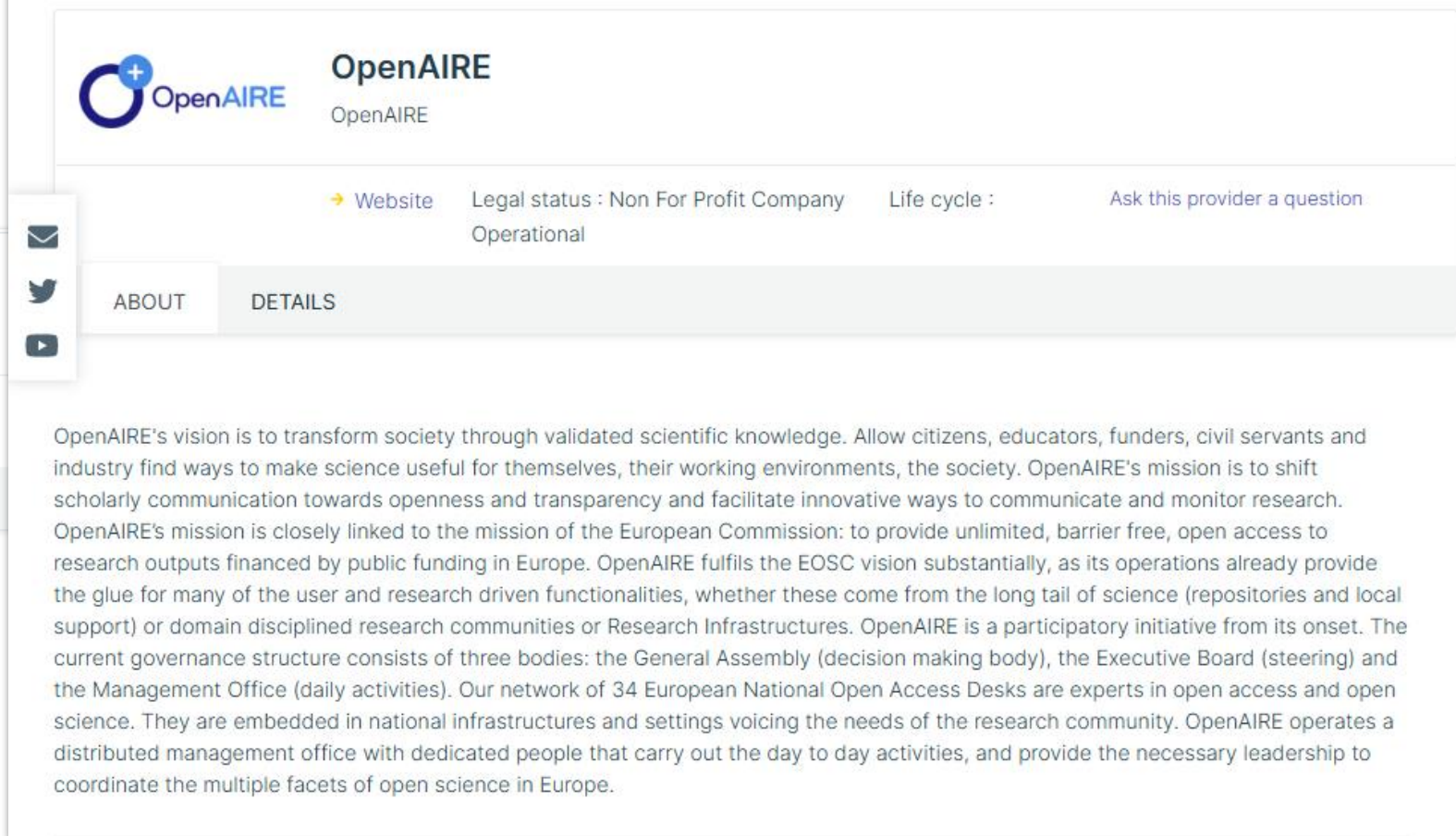
- Open Access Infrastructure for Research in Europe (OpenAIRE)

Areas of Activity

- Technological Development

Catalogue

- EOSC



OpenAIRE
OpenAIRE

[Website](#) Legal status : Non For Profit Company Life cycle : Operational [Ask this provider a question](#)

ABOUT DETAILS

OpenAIRE's vision is to transform society through validated scientific knowledge. Allow citizens, educators, funders, civil servants and industry find ways to make science useful for themselves, their working environments, the society. OpenAIRE's mission is to shift scholarly communication towards openness and transparency and facilitate innovative ways to communicate and monitor research. OpenAIRE's mission is closely linked to the mission of the European Commission: to provide unlimited, barrier free, open access to research outputs financed by public funding in Europe. OpenAIRE fulfils the EOSC vision substantially, as its operations already provide the glue for many of the user and research driven functionalities, whether these come from the long tail of science (repositories and local support) or domain disciplined research communities or Research Infrastructures. OpenAIRE is a participatory initiative from its onset. The current governance structure consists of three bodies: the General Assembly (decision making body), the Executive Board (steering) and the Management Office (daily activities). Our network of 34 European National Open Access Desks are experts in open access and open science. They are embedded in national infrastructures and settings voicing the needs of the research community. OpenAIRE operates a distributed management office with dedicated people that carry out the day to day activities, and provide the necessary leadership to coordinate the multiple facets of open science in Europe.

<https://marketplace.eosc-portal.eu/providers>



eoscfuture.eu



@EOSCFuture

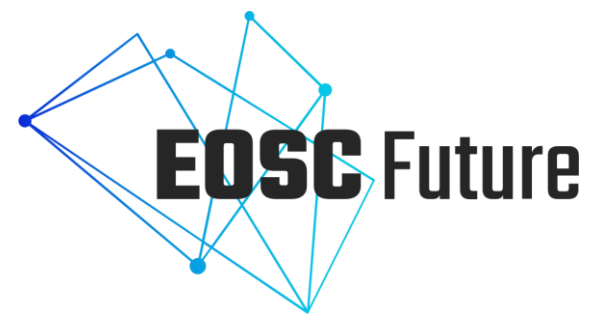


EOSCFuture





Onboarding



What is onboarding?

A process to register a **provider** and its **resources** to the EOSC Marketplace.

Costs?

Onboarding is free of charge.

Get informed!

[Providers Hub](#)

EOSC Providers Hub

Quick links

[Login into the dashboard](#) [Onboard as a new provider](#) [Technical documentation](#)

Welcome to the EOSC Providers Hub

A single place for providers to learn why and how to become an EOSC Provider. To register and manage your resources so they are available in the EOSC Catalogue and Marketplace. And access related documentation, training and support.



Benefits of Becoming an EOSC Provider

Becoming an EOSC Provider, and adding your resources to the EOSC Catalogue and Marketplace, increases their visibility and usability across the entire European researcher community. EOSC Resources can also take advantage of EOSC's AAI Federation to enable secure user access from users across Europe, as well as integrated tools such as Help Desk and Monitoring.

[Learn more](#)



How to Become an EOSC Provider and Include Your Resources in EOSC

Your guide to becoming an EOSC Provider and registering your resources in the EOSC Catalogue and Marketplace. Click here for an overview of the onboarding process, as well as how-to guides for the Service Provider Dashboard, and related documentation including specifications of the API for the Service Provider Dashboard.

[Learn more](#)

[Onboard your service](#)

What are the benefits?

- **Gain visibility:** promote your resources through the EOSC Marketplace and reach out to a wider user base
- Get a free online platform where you can manage service requests, interact with users, provide support
- Add value to your resources by integrating them with EOSC Core services (e.g. helpdesk, monitoring, **usage statistics**, order management, etc.)
- Make it easier to users to access your resources (using AAI)
- Improve the interoperability of your resources.

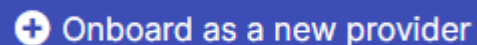


Phase 1: registering the provider's representative

Step 1

Go to [Providers Hub](#)

Click

 Onboard as a new provider










Register using an existing identity from a supported Social or Academic AAI mechanism.

Agree the Privacy Policy and assert the status of an authorized representative.

You are now ready to register the provider!



CHOOSE YOUR ACADEMIC/SOCIAL ACCOUNT

 Google	 Inria	 DARIAH
 eduTEAMS	 Check-in	 B2ACCESS
 IGTF	 OpenAIRE	 ORCID

or

Search...

In order to be able to register a service provider to EOSC you need to agree to the following:

- I agree to the [Privacy Policy](#)
- I assert that I am an authorized representative of this Service Provider

Cancel

Apply



Phase 2: Onboarding the provider

Fill out the form

Review by EPOT

Approval by EPOT

- Fill out and submit the form.
- Upon successful submission:
- a) the you and the onboarding team will be notified, and an onboarding ticket will be created.

EOSC Portal Onboarding Team (EPOT) reviews the Provider profile.

Once approved, the Provider is visible publicly.

Proceed to register the first resource!





Phase 2: Onboarding the provider

Fill out the form!



Provider Profile Information Blocks

- 1. Basic * 4*
- 2. Marketing * 2*
- 3. Classification
- 4. Location * 4*
- 5. Contact * 1*
- 6. Maturity
- 7. Dependencies
- 8. Other
- 9. Admins *** ✓

*Required fields

Add New Service Provider

Provider Name

Save as draft

You are about to register a new Service Provider (RP). You will be able to register new service(s) when this process is completed and your RP is onboarded. For further information you may visit items under the 'support' menu.

Fields with (*) are mandatory and must be completed in order to save this form. Leaving optional fields blank will remove the relevant heading from the published resource/provider profile.

Do you need help?

Provider Profile Information Blocks

- 1. Basic *** 4*
- 2. Marketing * 2*
- 3. Classification
- 4. Location * 4*
- 5. Contact * 1*
- 6. Maturity
- 7. Dependencies

Name (*)

Full Name of the Provider/Organisation offering Resources and acting as main contact point for the Resources.

Suggested length is 100 characters

Abbreviation (*)

Phase 3: Onboarding resources

Log in and add a resource

Add your first resource by filling out the form or using the onboarding API



Review by EPOT

EPOT examines

- whether the Resource has been already onboarded by any other Providers
- the quality of the metadata
- compliance with the general recommendations, links, etc.

Feedback if corrections are required
Rejection is possible.

Approval by EPOT

The approved resource is publicly visible.

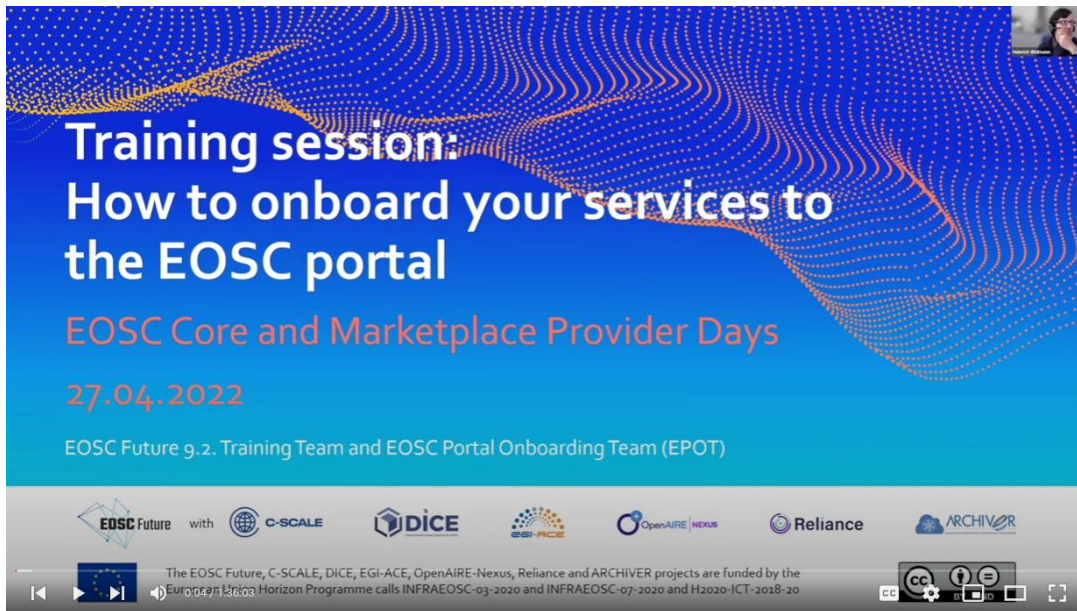
Only the first onboarded resource needs approval.

Onboard more resources

Onboard other Resources via the web interface or the API.

The onboarded resources will be approved automatically.

Training session: How to onboard your services to the EOSC portal



**Training session:
How to onboard your services to
the EOSC portal**

EOSC Core and Marketplace Provider Days

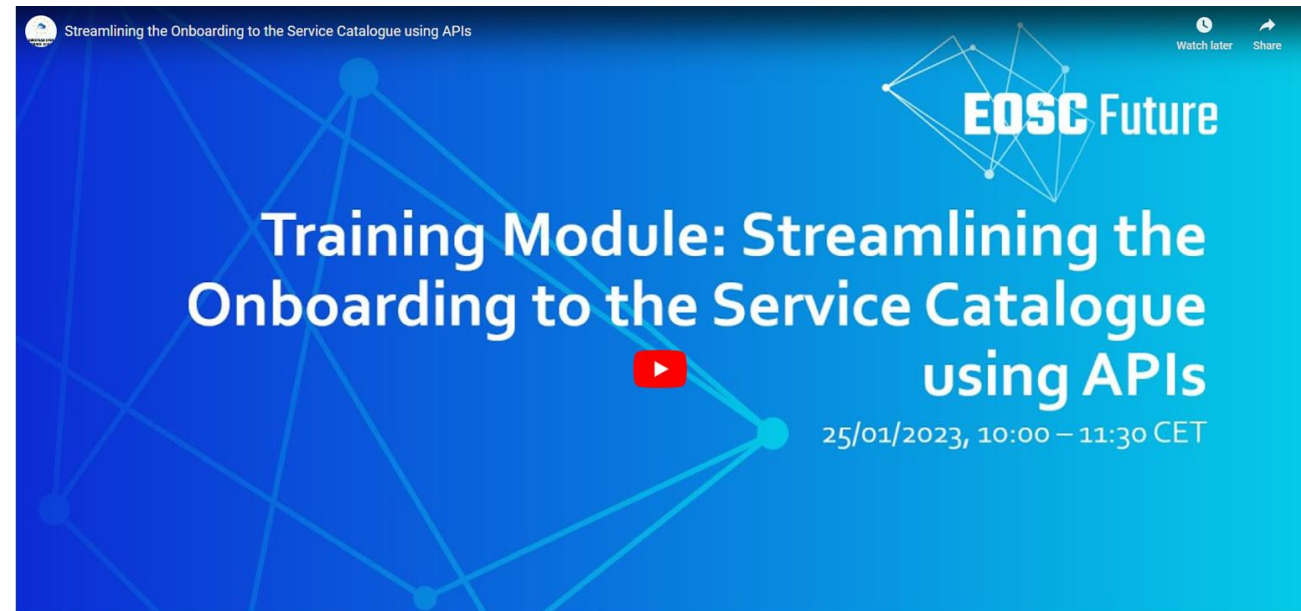
27.04.2022

EOSC Future 9.2. Training Team and EOSC Portal Onboarding Team (EPOT)

EOSC Future with C-SCALE DICE EGI-ACE OpenAIRE NEXUS Reliance ARCHIVER

The EOSC Future, C-SCALE, DICE, EGI-ACE, OpenAIRE-Nexus, Reliance and ARCHIVER projects are funded by the European Union Horizon Programme calls INFRAEOSC-03-2020 and INFRAEOSC-07-2020 and H2020-ICT-2018-20

Training Module: Streamlining the Onboarding to the Service Catalogue using APIs



Streamlining the Onboarding to the Service Catalogue using APIs

EOSC Future

**Training Module: Streamlining the
Onboarding to the Service Catalogue
using APIs**

25/01/2023, 10:00 – 11:30 CET

Is a repository/aggregator a service or a data source?

Service is a way to provide value to customers through bringing results that they want to achieve. EOSC Marketplace offers the following types of services:

- Sharing & Discovery
- Processing & Analysis
- Compute
- Storage
- Data Management
- Networking
- Training & Support
- Security & Operations



Do you want to offer the repository/aggregator to others as a service?

Do you want to make the research outputs discoverable in the EOSC Marketplace?

Data source - EOSC **service** that hosts collections of research products. This includes data repositories, software repositories, and publication repositories.



Example: Zenodo

As a service

Service Horizontal Service Open Access English

Zenodo

Open access Type: service

Scientific domain: Generic>Generic Generic

Organisation: OpenAIRE

e-INFRA non-commercial repository

Zenodo is a general purpose repository that enables researchers scientists projects and institutions to share preserve and showcase multidisciplinary research results (data software and publications) that are not part of the existing institutional o...

Show more

Available for researchers to deposit their data

As a Data Source

Data Source Horizontal Service Open Access English

Zenodo

Open access Type: data source

Scientific domain: Generic>Generic Generic

Organisation: OpenAIRE

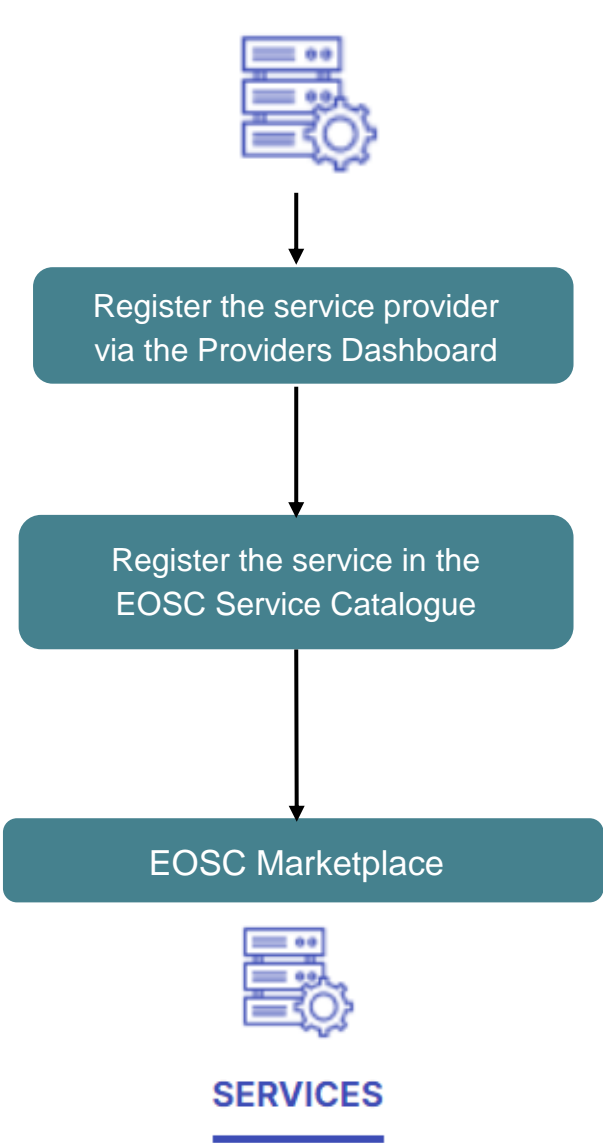
e-INFRA non-commercial repository

Zenodo is a general purpose repository that enables researchers scientists projects and institutions to share preserve and showcase multidisciplinary research results (data software and publications) that are not part of the existing institutional o...

Show more

Research outputs deposited in Zenodo are harvested and are discoverable in the EOSC Marketplace.

Onboarding services



Onboarding data sources

