Share your Training Resources on the EOSC Portal

Webinar, 14 September, 14h00 – 15h00 CEST
Welcome and Introduction

Shanmugasundaram Venkataraman
Training Officer, OpenAIRE
Agenda

14h – 15h CEST

- Welcome and Introduction
  - Participants presentation
  - Housekeeping Rules
- Presentation of the EOSC Knowledge Hub and Helpdesk
  - Q&As
- Training resources onboarding workflow demonstration
  - Q&As
- Onboarding via API and Catalogues
  - Q&As

15h - 16h CEST

- One-to-one onboarding support (on demand)
Presentation of the EOSC Knowledge Hub and Helpdesk

Cosimo Vallo
Training Officer, LifeWatch ERIC
EOSC Knowledge Hub (KH)

The EOSC Knowledge Hub (KH) has two essential components: a training resource catalogue and a learning platform, both intended to support FAIR sharing and reuse of training resources in EOSC.

The EOSC Training Resource Catalogue is a catalogue of training resources pertinent to EOSC, which includes a database, an advanced search interface and landing pages with details for the registered training resources.

The EOSC Learning Platform is a learning management system that hosts training courses, certifications (badges), and a repository populated with openly available training materials.
EOSC KH – Training Resource Catalogue

The Training Resource Catalogue contains the metadata of training resources. It is open to all training resources that fulfil the onboarding procedures and rules of participation of training service providers.

Accessible via EOSC Portal

https://eosc-portal.eu/

or via the landing page

https://knowledge-hub.eosc-portal.eu/
The Data Model defines the training resource profiles and contains the metadata set adopted by EOSC for the onboarding of learning resources in the training catalogue.

https://wiki.eoscfuture.eu/display/PUBLIC/F+EOSC+Training+Resource+Profile
EOSC KH – Learning Platform

For EOSC Trainers - Module 1: Preparing to Train About EOSC

A train-the-trainer course on preparing to teach about using the European Open Science Cloud (EOSC).

For EOSC Trainers - Module 2: The EOSC Portal

A train-the-trainer course which will give you an overview of the main functionalities of the EOSC Portal and get you ready to deliver training to your user communities.

For EOSC Trainers - Module 3: Addressing Legal & Ethical Issues

A train-the-trainer course on addressing legal and ethical issues relating to the European Open Science Cloud (EOSC) use.

For EOSC Trainers - Module 4: Crafting your own training using EOSC resources

A train-the-trainer course on setting up and delivering your training on EOSC.

For EOSC Trainers - Module 4b: Introducing interactivity in asynchronous training

Welcome to this EOSC Future module designed to introduce trainers to adding interactivity to asynchronous training.

Learning outcomes:

The module will prepare you to:
- help learners divide
- the main elements, principles and standards that constitute the ecosystem of the EOSC Future project
- be confident in delivering resources to keep students engaged and answer questions about EOSC
- engage with other EOSC trainers through discussion to facilitate networking and good practice sharing.

Program:

Welcome to the train-the-trainer course on preparing to teach about using the European Open Science Cloud (EOSC). This course will give you an overview of the main functionalities of the EOSC Portal and make you ready to deliver training to your user communities.

This module is intended for trainers who will include EOSC content in their training and is specifically designed and applicable to trainers working with a range of stakeholder groups, such as those who have been adopted from a synchronous workshop that was originally run in November 2020 as part of the EOSC Future project training programmes.

Course structure:

The content within the course will take you 4-6 hours to work through. Each lesson has provided a range of enrichment readings that you can use to broaden your knowledge of EOSC, as well as to deepen your understanding of key topics that feed into the issues influencing EOSC design and development.
EOSC KH – Learning Platform

For EOSC Trainers - Module 1: Preparing to Train About EOSC

A train-the-trainer course on preparing to teach about using the European Open Science Cloud (EOSC).

Create account
By creating an account and enrolling on a course you can track your progress and earn a statement of participation.

LOGIN OR CREATE AN ACCOUNT HERE
EOSC KH - Helpdesk

https://eosc-portal.eu/contact-us

N.B. For any questions/issues on onboarding training resources, please contact the EOSC Portal Onboarding Team contact (EPOT) at onboarding@eosc-portal.eu
Training resources onboarding workflow demonstration

André Vieira, Pedro Príncipe
University of Minho, EOSC Portal Onboarding Team, EOSC-Future
Common inclusion criteria

• **Providers must first be onboarded as an EOSC Provider** before being able to onboard resources
  • If your organisation is not yet onboarded as a Provider in the EOSC portal, please find the detailed information on how to become an EOSC Provider at and become a Provider at [https://providers.eosc-portal.eu/becomeAProvider](https://providers.eosc-portal.eu/becomeAProvider)

• **The resource to be onboarded is targeted to EOSC and EOSC communities**
  a. E.g.: related to open science, research data management, and how to use EOSC resources.

• For federated or jointly provided resources, the resource onboarding must be done by the coordinating or lead provider (i.e. the coordinating or lead provider is the “Resource organisation” in the resource profile).

• The resource provider commits to maintain resource descriptions up-to-date

• **Resource profile information must be provided in English (the metadata)**
Inclusion criteria to onboard Training Resources

- **All mandatory metadata is provided**: all copyright, usage conditions, access constraints, licensing are declared; and all sources are credited when pre-existing resources are reused.
- Specify the learning outcomes, resource type, content resource type, and estimated duration.
- Be in one of the European language(s) (the resource).
- Incorporate information about the expected level of training and expertise to be achieved and required qualifications to access the training resource.
- Comply with the FAIR principles, open and reproducible science practices.
- Provide information about the resource's provenance.
- Be periodically updated and include the date of the last update to prevent outdated content.
- Ensure preservation (e.g. resources are deposited in a repository/platform that can ensure that they are accessible for a reasonable (3-5 years) period of time, preferably in trusted repositories with a long-term preservation policy). EOSC does not offer long-term preservation.

[Detailed inclusion criteria]
Training Resources onboarding

Two options to onboard Training Resources:

a) via a web interface for each Resource individually, or
b) via the Portal API

Notes:

• The first resource of the Provider must be entered using the web interface.

• EPOT (EOSC Portal Onboarding Team) reviews this registration before approving the new resource.
  • This step establishes the quality and interoperability of the first resource that the Provider wishes to onboard. This also establishes that the Provider understands what will be needed to ensure the desired quality and interoperability for additional resources that might be onboarded to EOSC.

• Subsequent resources are automatically published.
Onboarding procedure via a web interface


2) Access the Providers Dashboard by selecting the menu “Providers Dashboard” (1) or the button “Learn more” (2) in the box “Provider Dashboard”.

2.1) Then, click on the Provider’s name (3) or select the option “More” (4.1) and “Go to Dashboard” (4.2).
Onboarding procedure via a web interface

3) Once in the Provider Dashboard, go to the left side menu, and select the option “Add new Training Resource” in the “Actions” section.

4) Then a set of metadata fields needs to be filled in to complete the Training Resource Profile. [https://wiki.eoscfuture.eu/display/PUBLIC/F.+EOSC+Training+Resource+Profile#F.EOSCTrainingResourceProfile](https://wiki.eoscfuture.eu/display/PUBLIC/F.+EOSC+Training+Resource+Profile#F.EOSCTrainingResourceProfile)
Onboarding procedure via a web interface

Once the form is completed (1) and passes all automatic checks (2), it can be submitted (3).

When the form is submitted, you will be asked if additional Resources will be onboarded. If yes, repeat the steps 3 and 4, otherwise the process is concluded.
Onboarding procedure via a web interface
Support & Guidance

How to onboard Training Resources into the EOSC Marketplace

Step-by-step guide

Table of contents

- Preliminary notes
- Inclusion criteria to onboard Training Resources
  - a) Common inclusion criteria
  - b) Additional inclusion criteria to onboard a training resource
- Step-by-step guidance to onboard Training Resources
  - a) Onboarding procedure via a web interface for each Resource individually
  - b) Onboarding procedure via the Portal API
- Revision and publication of the new onboarded Resources

https://wiki.eoscfuture.eu/display/PUBLIC/Step-by-step+guide%3A+How+to+onboard+Training+Resources+into+the+EOSC+Marketplace

EOSC Providers Hub

A single place for Providers to learn:

- Why and how to become an EOSC Provider
- How to register and manage resources so they are available in the EOSC Marketplace, and
- Access related documentation, training and support.

https://eosc-portal.eu/eosc-providers-hub

https://eosc-portal.eu/eosc-providers-hub
Onboarding via API and Catalogues

Milica Ševkušić
Project Coordinator, Open Access Programme, EIFL
EOSC Portal Open API

1. Onboarding resources (esp. if there are many)
2. Updating resources
3. Onboarding catalogues

Community Resource Catalogue is an external catalogue including multiple resources. If the community catalogue complies with the inclusion criteria, the resources contained in it can be made visible in the EOSC Marketplace.

- NI4OS Catalogue
- SSHOC Marketplace
- Pilot training catalogues (ELIXIR TeSS, SSH Training Discovery Toolkit, DARIAH Campus, EOSC-Pillar Gateway)
EOSC Portal Open API documentation

- Using command line or other HTTP request generation tools to interact with the EOSC Portal programmatically
- EOSC Portal Open API: [https://providers.eosc-portal.eu/openapi](https://providers.eosc-portal.eu/openapi)

<table>
<thead>
<tr>
<th>public-service-controller</th>
<th>Public Service Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>public-training-resource-controller</td>
<td>Public Training Resource Controller</td>
</tr>
<tr>
<td>resource-extras-controller</td>
<td>Resource Extras Controller</td>
</tr>
<tr>
<td>resource-interoperability-record-controller</td>
<td>Resource Interoperability Record Controller</td>
</tr>
<tr>
<td>service-controller</td>
<td>Operations for Services</td>
</tr>
<tr>
<td>service-extensions-controller</td>
<td>Service Extensions Controller</td>
</tr>
</tbody>
</table>

**training-resource-controller**: Operations for Training Resources

<table>
<thead>
<tr>
<th>Method</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST</td>
<td>/trainingResource</td>
<td>Creates a new TrainingResource.</td>
</tr>
<tr>
<td>PUT</td>
<td>/trainingResource</td>
<td>Updates the TrainingResource assigned the given id with the given TrainingResource, keeping a version of revisions.</td>
</tr>
<tr>
<td>GET</td>
<td>/trainingResource/all</td>
<td>Filter a list of Training Resources based on a set of filters or get a list of all Training Resources in the catalogue.</td>
</tr>
<tr>
<td>GET</td>
<td>/trainingResource/by/(field)</td>
<td>Get all Training Resources in the catalogue organized by an attribute, e.g. get Training Resources organized in categories.</td>
</tr>
<tr>
<td>PUT</td>
<td>/trainingResource/suspend</td>
<td>Suspends a specific Training Resource.</td>
</tr>
<tr>
<td>POST</td>
<td>/trainingResource/validate</td>
<td>Validates the Training Resource without actually changing the repository.</td>
</tr>
<tr>
<td>GET</td>
<td>/trainingResource/{id}</td>
<td>Get the most current version of a specific Training Resource, providing the Resource id.</td>
</tr>
</tbody>
</table>

Response Class (Status 200)

OK

Example Value

```json
{
    "id": "(required on PUT only)",
    "title": "string",
    "resourceOrganization": "string",
    "resourceProviders": ["string"]
}```
Obtain the API token

- Go to [https://aai.eosc-portal.eu/providers-api](https://aai.eosc-portal.eu/providers-api)(opens in a new tab)
- authorize the webpage to read your account details to obtain new access and refresh tokens (log in using an academic or social account)
Preparing the training resource description and validating it

- Go to https://providers.eosc-portal.eu/openapi
- Prepare the training resource description according to the EOSC Training Resource Profile by calling the API’s POST /trainingResource/validate method.
Adding the training resource to the EOSC Marketplace

- call the POST/trainingResource method to add the new Resources in the EOSC Marketplace
- Multiple resources can be added using the same procedure
Inclusion criteria for catalogues

1. Have a documented and methodical approach for the validation of information about resources included in the catalogue.
2. Ensure that records are kept up-to-date and that providers are prepared to correct errors detected in the onboarding process.
3. Onboard and synchronise records with the EOSC Marketplace.
4. Ensure that policies across catalogues are consistent.
5. Follow the [EOSC Security Operational Baseline](#).
6. Send an [EOSC Catalogue Onboarding Agreement](#) to declare conformance to the inclusion criteria (the catalogue owner sends an email to the EOSC Portal Onboarding Team).
Onboarding community catalogues

1. Onboard the Catalogue Operator (as a provider); has to be approved by EPOT

2. Onboard the catalogue; has to be approved by EPOT

3. Onboard all or some resources using the API (indicate the Catalogue ID)

<table>
<thead>
<tr>
<th>catalogue-controller</th>
<th>Catalogue Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUT</td>
<td>Updates a specific Catalogue</td>
</tr>
<tr>
<td>GET</td>
<td>Get a list of all Catalogues in the Portal.</td>
</tr>
<tr>
<td>POST</td>
<td>Creates a new Datasource for the specific Catalogue.</td>
</tr>
<tr>
<td>PUT</td>
<td>Updates the Datasource of the specific Catalogue.</td>
</tr>
<tr>
<td>DELETE</td>
<td>Deletes the Datasource of the specific Catalogue with the given id.</td>
</tr>
<tr>
<td>GET</td>
<td>Returns the Datasource of the specific Catalogue with the given id.</td>
</tr>
<tr>
<td>POST</td>
<td>Creates a new Interoperability Record for the specific Catalogue.</td>
</tr>
<tr>
<td>PUT</td>
<td>Updates the Interoperability Record of the specific Catalogue.</td>
</tr>
<tr>
<td>DELETE</td>
<td>Deletes the Interoperability Record of the specific Catalogue with the given id.</td>
</tr>
<tr>
<td>GET</td>
<td>Returns the Interoperability Record of the specific Catalogue with the given id.</td>
</tr>
<tr>
<td>POST</td>
<td>Creates a new Provider for the specific Catalogue.</td>
</tr>
</tbody>
</table>
Thank you for your attention
Updating information about training resources and providers

- Call the PUT /trainingResource method to update services.
- Call the PUT /provider method to update providers.
One-to-one onboarding support (on demand)

15h - 16h CEST