Building training and its infrastructure for EOSC

Organiser: EOSC Future
Date: THURSDAY 17 NOVEMBER
Time: 13.30 PM – 15.00 PM
Room: KEPLER
PANEL DISCUSSION – THURSDAY 17 NOVEMBER 2022

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Building training and its infrastructure for EOSC

EOSC Symposium
17th November 2022
S. Venkataraman
Approach

**EOSC-CORE**
- Provider portal, resource registry, and AAI is operational
- Accounting, monitoring, order processing, and helpdesk is set-up
- Marketplace with advanced user dashboard is functional

**EOSC-INTEROPERABILITY FRAMEWORK**
- Guidelines for AAI, PIDs, metadata and ontologies
- Guidelines for accounting, monitoring, orders, and helpdesk
- Guidelines to compute, process, publish, and store data

**USER EXPERIENCE**
- Resources are shared, discovered and used through the Portal
- Users are given smart recommendations with AI
- Resource composability enables complex workflows

**EOSC-CORE**
- Resources from EOSC projects are onboarded
- Resources are listed in the central resource registry
- Resources are integrated with EOSC-Core functionalities

**EOSC-INTEROPERABILITY FRAMEWORK**
- Availability of cluster data, services, and workflow tools
- Demonstrations of full lifecycle of data using cluster resources
- Scientific results showcasing open interdisciplinary research

**SCIENCE CLUSTERS & PROJECTS**
- Users are consulted and advise on the portal design
- Users are informed, trained, and supported to use the portal
- The portal is updated according to usage and feedback by users

**USER ENGAGEMENT**
EOSC Future will provide a user-friendly environment for:

- Data discovery
- Data storage
- Data recomposition
- Computing services
- Complex workflows
- Integratable services
This way, EOSC Future wants to help make EU research:

More innovative

More streamlined

Easier to reproduce
EOSC Future is structured around six thematic pillars:

- Policy and strategy
- Technology and interoperability
- Excellent science
- Co-development and procurement
- Skills and training
- User engagement
Skills and Training

To train both users and providers to make the most of the EOSC environment, the project will establish an EOSC Knowledge Hub. The Hub will build a network of expert trainers, and catalogue existing support materials while developing new training courses and documents.
Skills & Training Objectives

Train stakeholders to become active users and providers of EOSC and increase uptake of resources, and Open Science.

Support providers to add their resources in the EOSC Portal and work with the INFRAEOSC-07 projects and Science Clusters to support users.

Consolidate the emerging cross-discipline trainer community (including the INFRAEOSC-07 projects) to avoid duplication of effort, focusing on key components of interoperability, service offering, and data provision.

Build and operate a learning management system and training catalogue as integral parts of the EOSC Portal to sustain the EOSC Knowledge Hub.
Learning Resources Development and Delivery

Consumers  Providers*  Intermediaries  Trainers

Project internal

https://wiki.eoscfuture.eu/x/E4P7AQ
Learning Paths

- EOSC Institutional Facilitator
- EOSC Resource Provider
- EOSC User Trainer
- EOSC Research Practitioner
- EOSC Citizen Science Practitioner
- EOSC Accelerator
Community of Practice of Open Science Training Coordinators

Owned and driven by members...

“The CoP can be regarded as a discipline transcending network of trainers and training organisers. We have built a community. We are exchanging information and best practices.”
CoP member, 2020

www.openaire.eu/cop-training

Map credit: adapted from Ai MacDonald @F2LT3R
CoP Task Forces

1. Quality assurance of training materials
2. Training in EOSC

https://eoscfuture.eu/
## T9.3 - Developing the EOSC KH – minimum metadata

### Table 1. Metadata Set for Existing Resources (for the first harvesting process)

<table>
<thead>
<tr>
<th>Metadata Field</th>
<th>Mandatory</th>
<th>Recommended (info that if not provided will limit the use of the resource)</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Author(s)</td>
<td>Y</td>
<td>It must be filled with something. It will come prefilled with the name of the training service provider and it can be updated adding the name of the author</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keywords</td>
<td>Y</td>
<td>(alert)</td>
<td></td>
</tr>
<tr>
<td>License</td>
<td>Y</td>
<td>Extremely relevant for us. Not mandatory field but if the training provider misses on this information will make hard to have further uses of the resources</td>
<td></td>
</tr>
<tr>
<td>Access Rights</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version Date(s)</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URL to resource</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource URL type</td>
<td></td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Target Group</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning Resource Type</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning Outcome</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expertise Level</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
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</tbody>
</table>

### Table 2. New materials (for registrations directly in the catalogue)

<table>
<thead>
<tr>
<th>Metadata Field</th>
<th>Mandatory</th>
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<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
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<td></td>
</tr>
<tr>
<td>Description</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Author(s)</td>
<td>Y</td>
<td>It must be filled with something. It will come prefilled with the name of the training service provider and it can be updated adding the name of the author</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Keywords</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>License</td>
<td>Y</td>
<td>Extremely relevant for us. Not mandatory field but if the training provider misses on this information will make hard to have further uses of the resources</td>
<td></td>
</tr>
<tr>
<td>Access Rights</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version Date(s)</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URL to resource</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource URL type</td>
<td></td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Target Group</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning Resource Type</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning Outcome</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expertise Level</td>
<td>Y (controlled vocabulary)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[https://wiki.eoscfuture.eu/x/zwOK](https://wiki.eoscfuture.eu/x/zwOK)
What is the EOSC Knowledge Hub (KH)?

- Composed of a:
  - Learning resource catalogue
  - Learning platform
- Community resource for all things related to EOSC training (and not just EOSC Future!)
- Initial specification completed through a deliverable
- It is aimed at the five principal actors
Workflow
EOSC Training Catalogue

Jordi Bodera (ESRF)
EOSC Symposium
November 2022
Training Catalog - basics

1. Key outcome of EOSC Future
2. Product of several WPs working together
3. Fits within the Knowledge Hub
4. Will be open to everyone
Training Catalog - aims

1. To be the place to go for training
2. With so much content
   a. about the EOSC
   b. about services offered in the EOSC
3. Easy to use for users and content providers
4. Sustainable
Training Catalog - where we are

1. Website is online and available, but not finished
2. Content is very reduced
3. Sort/Filters still need improvement
   ○ but the basic idea is there
     https://search.eosc-portal.eu/search/training?q>*
4. Dissemination required
Training resources Catalogue metadata specifications
Minimal Metadata for Learning Resources

Metadata set for Existing Resources (for the first harvesting process)
Metadata set for New materials (for registrations directly in the catalogue)

• The RDA minimal metadata set was then taken as an initial reference
• An EOSC-customized version of that set was created.
  • This EOSC-customized set soon appeared not to address in full the concerns of the community
    • it proved to be quite restrictive with regard to the onboarding of existing resources,
    • a series of meetings with the identified Pilot Catalogues (ELIXIR TeSS, SSH Training Discovery Toolkit, DARIAH Campus, EOSC-Pillar) were therefore organized to validate the initial metadata set and compare the solutions adopted by various projects.
Minimal Metadata for Learning Resources

New records

onboarding of resources by Providers directly in the catalogue

Existing Resources

Aggregation from training catalogues

<table>
<thead>
<tr>
<th>Metadata Field</th>
<th>Mandatory</th>
<th>Recommended (info that if not provided will limit the use of the resource)</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Author(s)</td>
<td>Y</td>
<td>It must be filled with something. It will come prefixed with the name of the training service provider and it can be updated adding the name of the author.</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td></td>
<td>Y (please indicate language)</td>
<td></td>
</tr>
<tr>
<td>Keywords</td>
<td>Y (please)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>License</td>
<td></td>
<td>Extremely relevant for us. Not mandatory field but if the training provider misses on this information will make hard to have further uses of the resources</td>
<td></td>
</tr>
<tr>
<td>Access Rights</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version (Date(s))</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URI to resource</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resource (URL type)</td>
<td></td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>Target Group (Audience)</td>
<td>Y</td>
<td>(e.g., students, educators)</td>
<td></td>
</tr>
<tr>
<td>Learning Resource Type</td>
<td>Y</td>
<td>A controlled vocabulary provided by OCM in the URN initiative</td>
<td></td>
</tr>
<tr>
<td>Learning Outcome</td>
<td>Y</td>
<td>(please provide an OCM controlled vocabulary)</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Definition</th>
<th>Definition</th>
<th>Usage notes, allowed values, examples, other constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>The human readable name of the learning resource.</td>
<td>TEXT</td>
<td>Notes: It should be transcribed from the learning resource itself, or the descriptive metadata found on the resource landing page. If no title exists, the provider should create it. If the resource exists in more than one language, a separate record should be created for that version. Allowed values: Should be Unicode and allow for diacritics. Example: “CESSDA Data Management Expert Guide” Constraints: Not repeatable</td>
</tr>
<tr>
<td>Abstract/Description</td>
<td>A brief synopsis about or description of the learning resource.</td>
<td>TEXT</td>
<td>Notes: The description can include the relationship of this resource to others, if applicable, e.g., a part within a series or collection, and the existence of translations of the resource into other languages. Allowed values: Should be Unicode and allow for diacritics. Example: “A guide designed by European experts to help social science researchers make their research data findable, Accessible, Interoperable and Reusable (FAIR)” Constraints: Not repeatable</td>
</tr>
<tr>
<td>Author(s)</td>
<td>The name of entity(ies) authoring the resource.</td>
<td>TEXT</td>
<td>Notes: Authors should be listed in the order presented on the resource or on the descriptive metadata on the landing page of the resource. Multiple authors should be listed with commas between the names. Names should include given or first name and family or surname, and a personal identifier such as an ORCID, if available. Some input systems may offer separate fields for each of these identifying items. Allowed values: Should be Unicode and allow for diacritics. Example: “CESSDA Training Team” Constraints: Repeatable</td>
</tr>
<tr>
<td>Primary Language</td>
<td>The language in which the resource was originally published or made available.</td>
<td>TEXT</td>
<td>Notes: If the resource exists in more than one language, that information can be included in the Abstract/Description term. A second record should be created, if possible, for the other language versions of the resource. Allowed values: String composed by a code as defined by the code set ISO 639-1:2002 Example: en Constraints: Repeatable</td>
</tr>
<tr>
<td>Keyword(s)</td>
<td>The keyword(s) or tag(s) used to describe the resource.</td>
<td>TEXT</td>
<td>Notes: Keywords may be single words or phrases that characterize what the resource is about. Ideally, the keywords come from a controlled vocabulary of terms that are curated and structured to represent the specific nature of the collection of learning resources, e.g., by subject domain, data format and/or data type. In a web or searchable catalogue/web environment for learning resources,</td>
</tr>
</tbody>
</table>

DSC Future
EOSC Training Resource Profile - Data Model

• Basic Information
• Detailed & access Information
• Learning Information
• Geographical and Language Availability Information
• Classification Information
+ Contact Information
• Code Lists, Taxonomies, Classifications

https://wiki.eoscfuture.eu/display/PUBLIC/EOSC+Training+Resource+Profile+-+Data+Model
# EOSC Training Resource Profile - Data Model

## Data Model

### Basic Information

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Definition</th>
<th>Type</th>
<th>Multiplicity</th>
<th>Required</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID</td>
<td>A persistent identifier, a unique reference to the Resource.</td>
<td>ResourceID</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Title</td>
<td>The human readable name of the learning resource.</td>
<td>String (100)</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Resource Organisation</td>
<td>The name of the organisation that manages or delivers the resource, or that coordinates the Resource delivery in a federated scenario.</td>
<td>ProviderID</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Resource Providers</td>
<td>The name(s) of (all) the Provider(s) that manage or deliver the Resource in federated scenarios.</td>
<td>ProviderID</td>
<td>Multiple</td>
<td>Optional</td>
<td>Yes</td>
</tr>
<tr>
<td>Authors</td>
<td>The name of entity(ies) authoring the resource.</td>
<td>String (40)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>URL to resource</td>
<td>The URL that resolves to the learning resource or to a “landing page” for the resource that contains important contextual information including the direct resolvable link to the resource, if applicable.</td>
<td>URL</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Resource URL type</td>
<td>The designation of identifier scheme used for the resource URL. It represents the type of the URL of the resource, that is the used scheme (e.g., Web Address URL, DOI, ARK, etc.).</td>
<td>Controlled Vocabulary</td>
<td>1</td>
<td>Optional</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Detailed & access Information

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Definition</th>
<th>Type</th>
<th>Multiplicity</th>
<th>Required</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A brief synopsis about or description of the learning resource.</td>
<td>String (1000)</td>
<td>1</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
<tr>
<td>Keywords</td>
<td>The keyword(s) or tag(s) used to describe the resource.</td>
<td>String (100)</td>
<td>Multiple</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
<tr>
<td>License</td>
<td>A license document that applies to this content; typically indicated by URL.</td>
<td>String (100)</td>
<td>1</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
<tr>
<td>Access Rights</td>
<td>The access status of a resource (open, restricted, paid).</td>
<td>Controlled Vocabulary</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Version Date(s)</td>
<td>The version date for the most recently published or broadcast resource.</td>
<td>Date</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
</tbody>
</table>
# Learning Information

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Definition</th>
<th>Type</th>
<th>Multiplicity</th>
<th>Required</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Group (Audience)</td>
<td>The principal users(s) for which the learning resource was designed</td>
<td>Enumerated (Resource Target Users)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Learning Resource Type</td>
<td>The predominant type or kind that characterizes the learning resource.</td>
<td>Controlled Vocabulary</td>
<td>Multiple</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
<tr>
<td>Learning Outcome(s)</td>
<td>The descriptions of what knowledge, skills or abilities students should acquire on completion of the resource.</td>
<td>String (1000)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Expertise Level</td>
<td>Target skill level in the topic being taught.</td>
<td>Controlled Vocabulary</td>
<td>1</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Content resource type</td>
<td>The predominant content type of the learning resource (video, game, diagram, slides, etc.).</td>
<td>Controlled Vocabulary</td>
<td>Multiple</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
<tr>
<td>Qualification</td>
<td>Identification of certification, accreditation or badge obtained with course or learning resource.</td>
<td>Controlled Vocabulary</td>
<td>Multiple</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
<tr>
<td>Duration</td>
<td>Approximate or typical time it takes to work with or through the learning resource for the typical intended target audience.</td>
<td>String (40)</td>
<td>1</td>
<td>Recommended</td>
<td>Yes</td>
</tr>
</tbody>
</table>

# Geographic and Language Availability Information

<table>
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<tr>
<th>Attribute Name</th>
<th>Definition</th>
<th>Type</th>
<th>Multiplicity</th>
<th>Required</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>The language in which the resource was originally published or made available.</td>
<td>Enumerated (Resource Language Availability)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Geographical Availability</td>
<td>Locations where the Resource is offered.</td>
<td>Enumerated (Resource Geographical Availability)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

# Classification Information

<table>
<thead>
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<th>Definition</th>
<th>Type</th>
<th>Multiplicity</th>
<th>Required</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific Domain</td>
<td>The branch of science, scientific discipline that is related to the Resource.</td>
<td>Enumerated (Resource Scientific Domain)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
<tr>
<td>Scientific Subdomain</td>
<td>The subbranch of science, scientific subdiscipline that is related to the Resource.</td>
<td>Enumerated (Resource Scientific Domain)</td>
<td>Multiple</td>
<td>Mandatory</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Thanks!

Pedro Principe, University of Minho / OpenAIRE

pedro.principe@usdb.uminho.pt
Training Delivery and Content Integration for EOSC
- some Highlights and Lessons learned

Heinrich Widmann (DKRZ)
EOSC Symposium
17.11.2022
T9.2 : Training Delivery and Content Integration for EOSC

Task of EOSC-Future WP 9 ‘Training and Skills’

Objectives:
• Create a modular and reusable training program for EOSC
• Build training materials, in particular for self-study and interactive webinars
• Coordinate and organise training events
EOSC related and target group oriented

• Focus on EOSC related subjects, as
  • EOSC portal services (aligning with core services)
  • Onboarding resources in the EOSC marketplace

• Customise training to the needs of trainees = (potential) EOSC users and stakeholders
  o Outreach to research communities and science projects
  o Targeted to 5 stakeholder (actor) groups (AG) that were presented before
Five actor groups

• AG₁: EOSC Consumers
• AG₂: EOSC Providers
• AG₃: EOSC Intermediaries and facilitators
• AG₄: EOSC Train the Trainer
• AG₅: EOSC-Future Internal
Providing resources to EOSC – some basics

Who is the target group?
• An EOSC resource provider that offers services or content to EOSC

What is provided?
• „Resources“ are mainly Services, but can as well be Data, Software, ...
• + associated documentation, guides and other metadata

To whom?
• Uploaded to the EOSC-Marketplace
Providing to EOSC – some basics

How?
- **Onboarding via** the interfaces of the EOSC-Portal
- Upcoming Training event at beginning of December

Why?
- To make your resources **visible, discoverable, accessible** on a cross-domain interoperable platform
- To contribute to develop EOSC into a rich environment of resources for research.
The Actor Group 2 in a nutshell
Training for ‘EOSC Providers’

Who are we?
• A sub group of EOSC-Future WP9 T9.2
• Interacting with the other actor groups
• Ca. 10+ people meeting bi-weekly
• Participants changing, depends on upcoming events and work to do

What we work on?
• Design pathway for EOSC providers to guide them through the onboarding process
• Coordinate and conduct training events
• Build self-learning courses
The ‘Workflow’ of AG2 Provider

I. Survey on needs of and existing material of Provider site

AG2 Provider

II. Organisation and preparation by teams of experts and helpers

1. Plan and conduct (initial) training event

Trainees = (Potential) EOSC Providers

2. Create self-study webinars

3. Develop training course

Trainer = Experts on the topic (e.g. EPOT team)
Service documentation for EOSC providers
Workshop 1: Describing your service for onboarding

• Conducted on November 9, 2022 by Maggie and team
• Based on a ENVRI-FAIR summer school
• Service documentation: what, why & how
• Work in breakout groups on
  o Exercise 1: Analyse and discuss Examples of Service Descriptions
  o Exercise 2: Describe your own service
• Feedback from the participants
  o Hard to create documentation at the right ‘technical’ level and addressing all target groups
  o Some suggestions for the EOSC-Portal
Next, upcoming and planned training events

• ‘Using REST APIs for on-boarding new services’
  o Scheduled for December 5, 2022 and coordinated by EPOT
  o Build on a workshop ‘Onboarding Services via the GUI’ given in April
  o Announcement will follow on the EOSC websites

• ‘Privacy policy and Terms of Use’
  o Scheduled for December 7, 2022

• ‘The EOSC data resource catalogue’
  1. ‘How to make your data discoverable’ (--> AG2 Provider)
  2. ‘How to discover data’ (--> AG1 Consumer)

• ... and many further ideas and
• maybe wishes from the audience ?!
Outlook and Lessons learned

- Training has to be oriented at providers’ needs
- Generation of training material is an iterative and dynamic process
- Contribution and support from all stakeholders is essential
- Feedback from trainees and trainers serve as proposals for improving EOSC portal
“After the training is before the training”
freely after Sepp Herberger

Thank you for your attention
Thank you for joining our session!