



# Best practices for online training: EOSC Synergy

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# EOSC SYNERGY: implementing EOSC at the national level

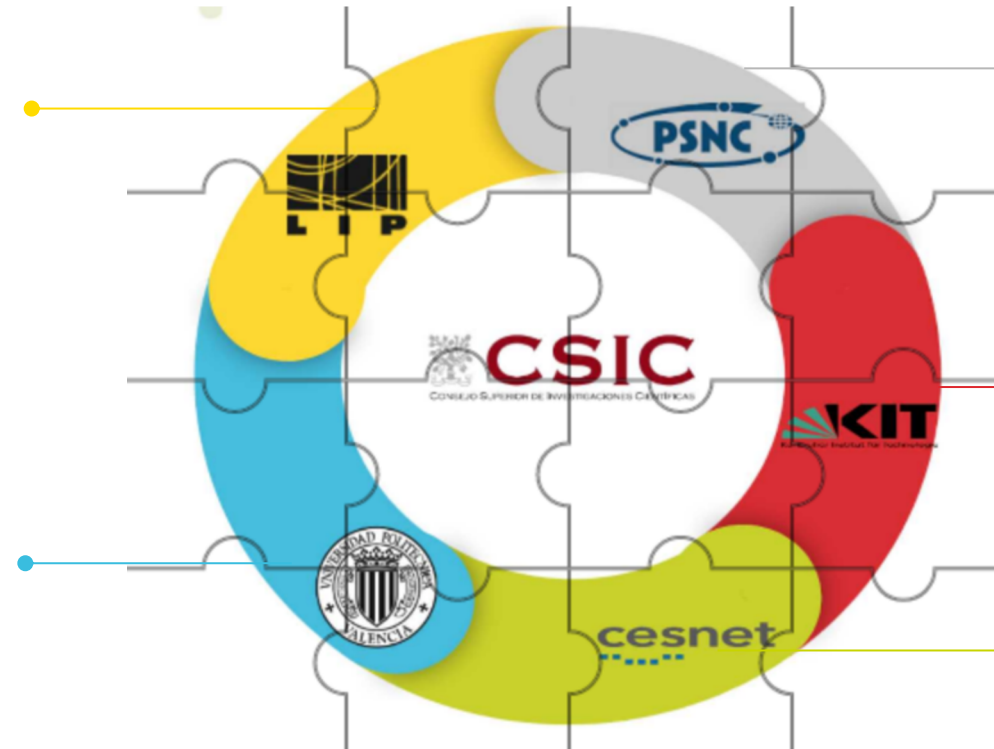


## Promoting EOSC High Quality Services

Software quality as a service, FAIRness evaluation and quality certification badges.

## Thematic Services Integration

10 thematic services addressing 4 scientific areas (Earth Observation, Environment, Biomedicine and Astrophysics).



## Skills development

Environment for online tutorials with a dedicated learning platform, advice on online course creation and delivery, an exemplar course, and a Hackathon as a service platform.

## Capacity Expansion at the Infrastructure level

Integration of services and resources from the RIs of the consortium partners.

## Alignment at the Policy Level

Collaboration with regional projects on landscaping activities, gap analysis and contribution to EOSC policies.

[www.eosc-synergy.eu](http://www.eosc-synergy.eu)

Spain, Portugal, UK, Czech Republic, Germany, Slovakia, Poland and the Netherlands

# Learn@Synergy platform



An innovative online platform focussing on open tools

Modular set of tools for preparing and conducting tutorials <https://learn.eosc-synergy.eu/>

- **MOOC: Moodle:** production/development instance
- **Videoconference:** based on **eduMEET**
- **Interactive computing:** based on **Jupyter Notebook**
- **Shared drive:** based on **NextCloud**
- **Infrastructure Manager** to create virtual machines and training accounts
- **Hackathon-as-a-service** to facilitate the organisation of hackathons on the EOSC infrastructure and accessible through the EOSC Portal

The screenshot shows the Learn@Synergy platform interface. At the top, it says 'POWERED BY LP4 PIONEER Research &amp; Classroom (RCIN)'. Below this, there are five main tool categories, each with a logo and a brief description: 1. ONLINE LEARNING PLATFORM (Moodle logo), 2. VIDEOCONFERENCE (eduMEET logo), 3. INTERACTIVE COMPUTING (Jupyter logo), 4. SHARED DRIVE (NextCloud logo), and 5. INFRASTRUCTURE MANAGEMENT (Infrastructure Manager logo). At the bottom, there is a 'Hackathon Manager' section with a table of hackathons. The table has columns for Name, Manager, Infrastructure, Starts on, Ends on, Visits per user, Created on, and Actions. The first row shows a 'BFI Hackathon' managed by 'test\_manager' on 'BFI' infrastructure, starting on March 20, 2021, and ending on March 21, 2021. The footer includes the EOSC Synergy logo, the Infrastructure Manager logo, and copyright information: 'Copyright © BFI 2021. Logo made by freagix from www.freagix.com'.

# Guidance on creating good online training

- Guidance on analysis, design, content creation and delivery
- Training analysis forms available to guide planning
- Design workshop based on [ABC-LD](#), a well-established methodology
- Our handbook aims to be a companion to the [FOSTER Open Science Training Handbook](#)
- It's a work in progress - we welcome comments and contributions



[FAIRsFAIR-CODATA-RDA data steward workshop series](#)



## Open Science Online Training Handbook

DRAFT FOR OPEN CONTRIBUTION

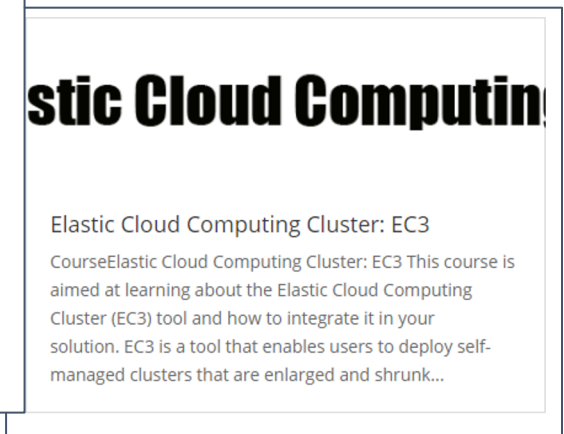
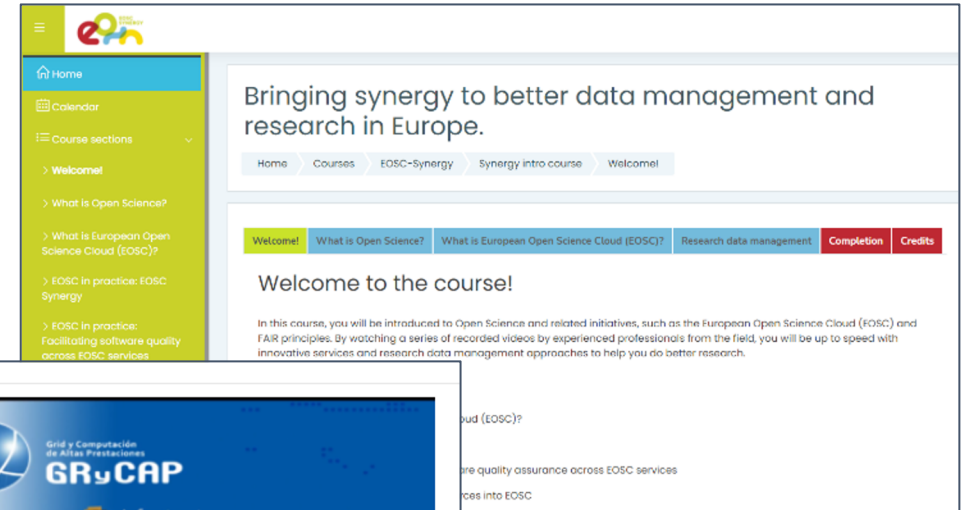
### Notes for contributors:

- Please add comments and suggestions throughout this document.
- Please add your contact details for future reference and providing credit
- We welcome comments and additions to our core text
- We are particularly interested in adding 'real-life' examples which show the guidance in practice
- The handbook will be made available openly for reuse

[View and comment on the handbook](#)

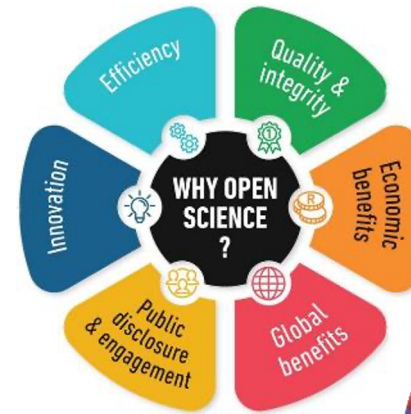
# Online tutorials and training materials

- Advanced tutorials regarding the EOSC-Synergy tools
- Domain specific tutorials regarding thematic services
- A [fully reusable 8 module exemplar course](#) on RDM, FAIR data and open science



# Bringing synergy to better data management and research in Europe

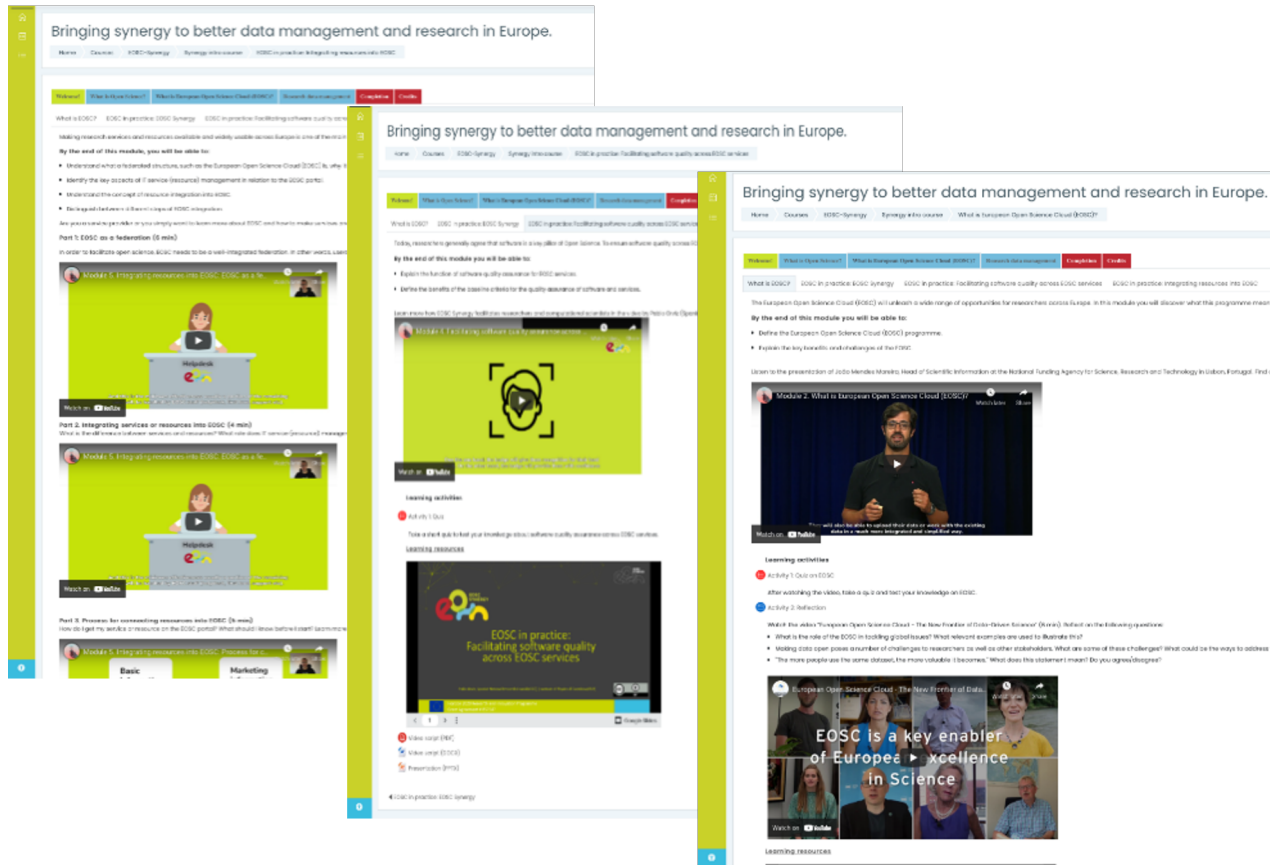
- Provide a **basic understanding** of EOSC and Open Science in relation to the EOSC Synergy project.
- Familiarise with **key concepts and practical tools** for FAIR data and data management.
- Raise **awareness on best practices in research data management** and equip users with **practical tools** to embrace these practices.



Try out now: <https://bit.ly/3lAuyrU>



# Bringing synergy to better data management and research in Europe



- 8 introductory modules
- Open Science, EOSC, RDM
- Video material
- Learning activities & resources
- Interactive
- Self-paced
- Reusable content

Try out now: <https://bit.ly/3lAuyrU>

Materials in Zenodo: <https://bit.ly/3zAgFyT>

# Moodle demo



### Access to the platform

Username

Password

**Log in**


Log in using your account on:

Log in with EOSC-Synergy SSO


Forgotten your username or password?

Log in as a guest

<https://moodle.learn.eosc-synergy.eu/>



### Log In

 Login with PSNC IdP

 Login with EGI Check-in

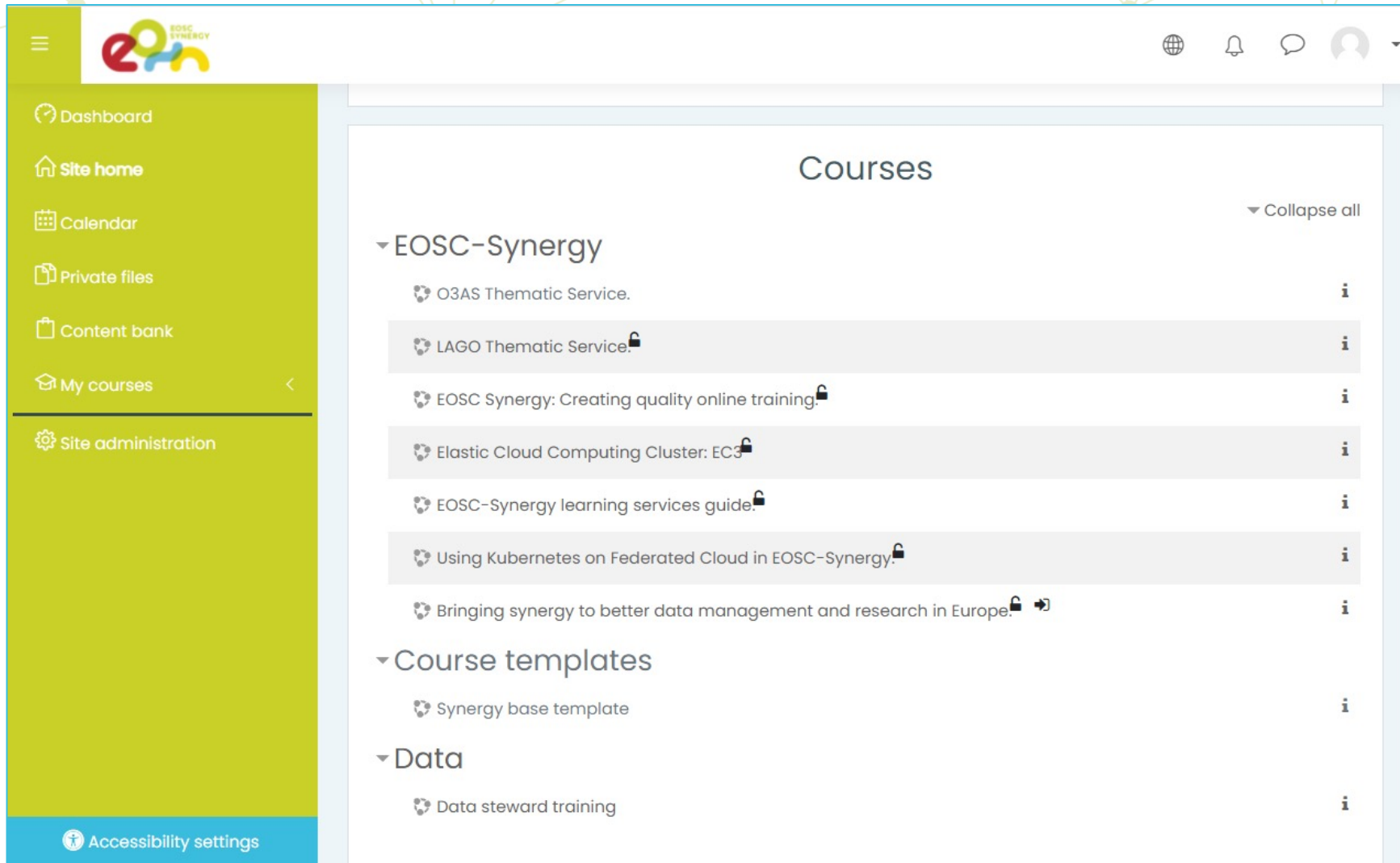
or

Email

Password

[Forgot Password?](#)

**Log In**

A screenshot of a web application interface for EOSC Synergy. The interface has a green sidebar on the left with navigation links: Dashboard, Site home, Calendar, Private files, Content bank, My courses (selected), and Site administration. At the bottom of the sidebar is an Accessibility settings link. The main content area is titled 'Courses' and has a 'Collapse all' button. It lists several courses under three categories: EOSC-Synergy, Course templates, and Data. Each course entry includes a heart icon, the course title, a lock icon indicating status, and an information icon 'i'.

**Courses** ▼ Collapse all

▼ **EOSC-Synergy**

- ♥ O3AS Thematic Service. i
- ♥ LAGO Thematic Service. 🔒 i
- ♥ EOSC Synergy: Creating quality online training. 🔒 i
- ♥ Elastic Cloud Computing Cluster: EC3 🔒 i
- ♥ EOSC-Synergy learning services guide. 🔒 i
- ♥ Using Kubernetes on Federated Cloud in EOSC-Synergy. 🔒 i
- ♥ Bringing synergy to better data management and research in Europe. 🔒 ➡ i

▼ **Course templates**

- ♥ Synergy base template i

▼ **Data**

- ♥ Data steward training i



## Course sections

### > Overview

### > What you'll learn

### > Before you start

### > Initial training analysis

### > Goals and audience

### > Content and resources

### > Your turn

### > Designing training

### > Examples

### > Your turn

### > Evaluation

### > Creating content

### > Re-using content

# EOSC Synergy: Creating quality online training.

[Dashboard](#)[My courses](#)[EOSC-Synergy- Creating quality online training](#)[Overview](#)[Turn editing on](#)[Overview](#)[Initial training analysis](#)[Designing training](#)[Creating content](#)[Delivering training](#)[Summary checklists](#)[Overview](#)[What you'll learn](#)[Before you start](#)

## Welcome!

This course will guide you through the steps of online training design and delivery, giving practical tips and case studies.

You can move around this course in several ways:

- Use the tabs across the top of the page to move sections
- Use the link to the next/previous section at the bottom of each page
- (eg. [←Before you start](#) [Evaluation→](#) )



Creating quality online training

## Course sections

> Welcome!

> **What is Open Science?**

> What is European Open Science Cloud (EOSC)?

> EOSC in practice: EOSC Synergy

> EOSC in practice: Facilitating software quality across EOSC services

> EOSC in practice: Integrating resources into EOSC

> Research data management

> FAIR principles

> Data management plans

> Completion

> Credits



Accessibility settings



Watch on YouTube

### Learning activities



Activity 1: Forum

After watching the videos, think of some Open Science practices you have already been using in your research. What are they? Do they help you in your research? What can you still do better?



Activity 2: Increase your visibility as a researcher

Distinguish yourself from every other researcher with the same or a similar name to you and gain the credit for your work. There are different ways to do so. Check out the following options:

- If you don't have one yet, create an ORCID ID (Open Researcher and Contributor ID). ORCID ID gives you a way to reliably, unambiguously and permanently connect your name(s) with your work.
- Alternatively, go to Researcher ID, sign up and complete your profile. If you already have made an ORCID ID you can link

Your progress?





# Synergy base template

[Dashboard](#)[Courses](#)[Course templates](#)[Base](#)[Turn editing off](#)[Welcome](#)[Topic 1](#)[Topic 2](#)[Topic 3](#)[Topic 4](#)[Topic 5](#)[Summary](#)

## Welcome to the course

[Edit](#)

[This page should give a brief overview of your course and the learning outcomes. Adapt the text below or create your own. To get

starting with editing this page, click [Turn editing on](#) and then Edit section at the right of the page.

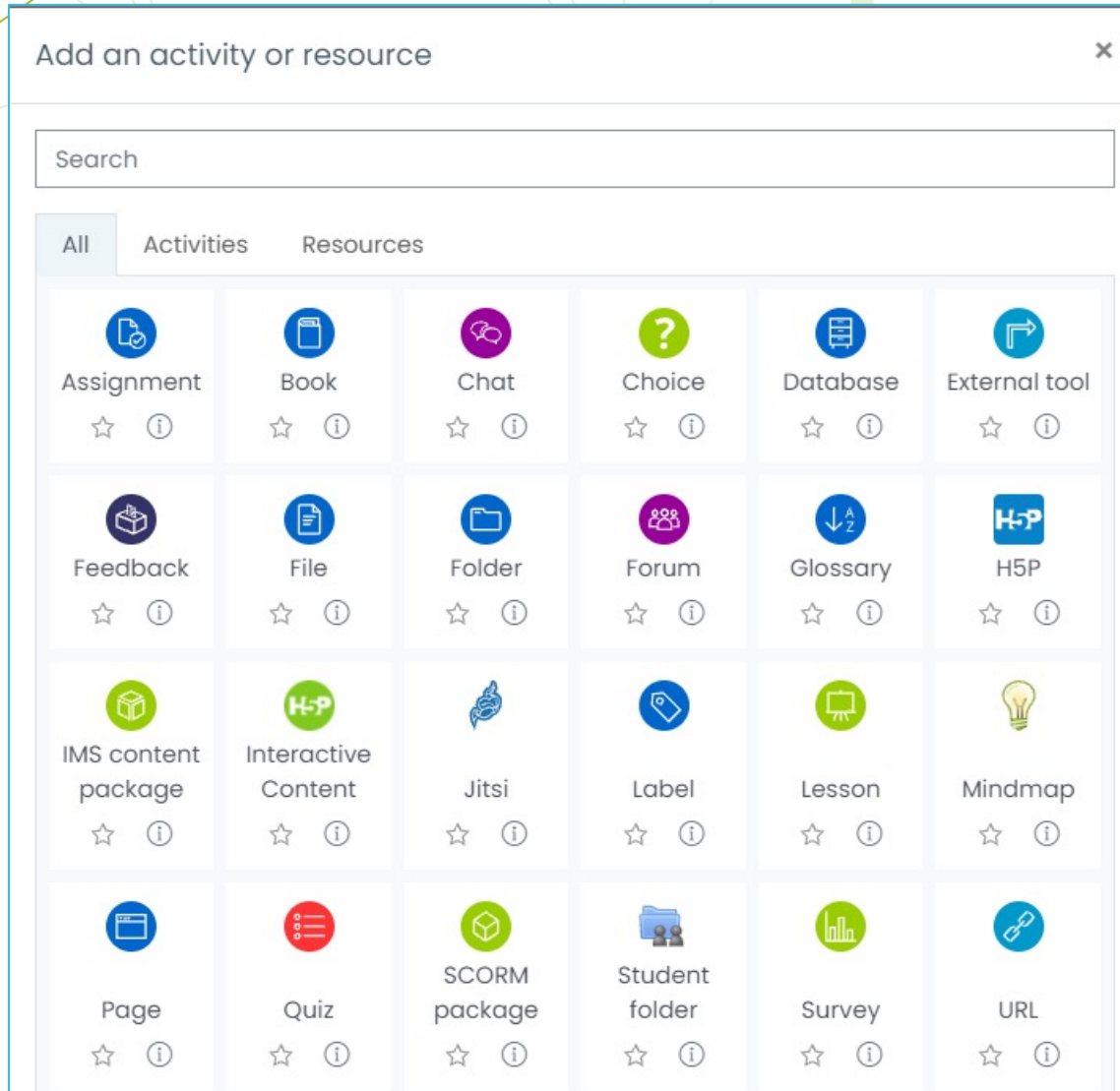
[Edit section](#)[Edit](#)

In this course, you will be introduced to Open Science and related initiatives, such as the European Open Science Cloud (EOSC) and FAIR principles. By watching a series of recorded videos by experienced professionals from the field, you will be up to speed with innovative services and research data management approaches to help you do better research.

By the end of this course you will:

- Have a basic understanding of EOSC and Open Science in relation to the EOSC Synergy project.
- Be familiar with key concepts and practical tools for FAIR data and data management.
- Be aware of best practices in research data management and practical tools.

As these modules are introductory, you can choose to follow all of them or pick the ones that are most relevant to you.

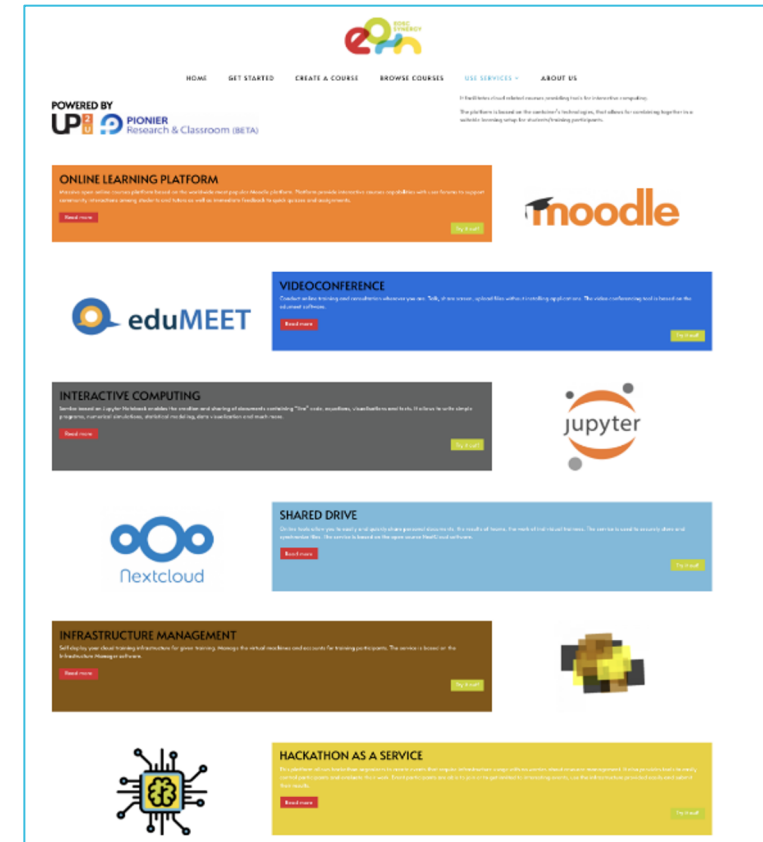


- Drag & drop files
- Add activities
- Guidance on course design and content formats in handbook



# What next?

- More tutorials!
- Exploring language options
- Handbook development with OpenAIRE Training Community of Practice
- Integration of other Synergy tools?



# Thank you

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