

## **KER 9. Training Courses and Material**

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eosc-hub.eu



@EOSC\_eu

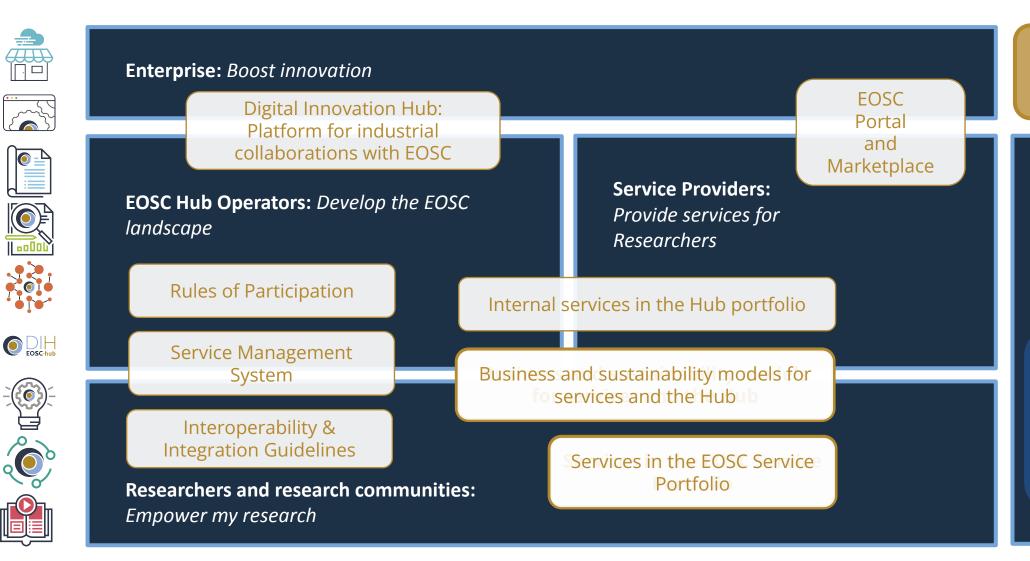
**Dissemination level**: Public

Disclosing Party: Project Consortium Recipient Party: European Commission





### **EOSC-hub Key Exploitable Results**



EOSC-hub Key Exploitable Results

Educate, inform and support my team and community

Training courses and Materials

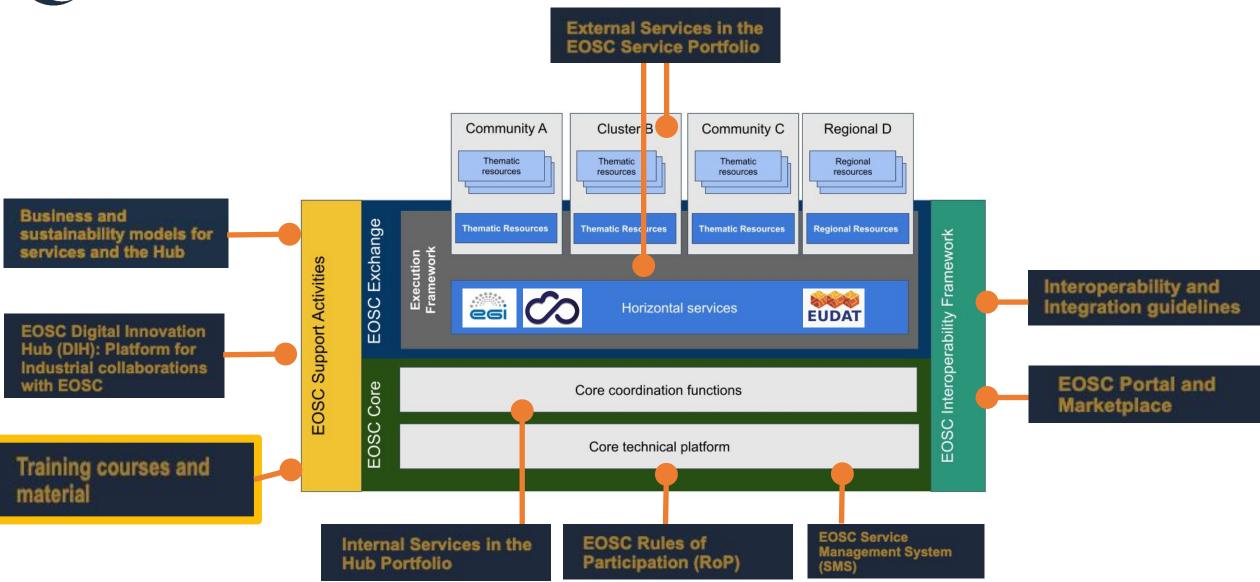




Description	<ul> <li>Training and support activities play a key role in creating awareness of EOSC services and resources.</li> <li>The training courses and material encompass a large variety of project results.</li> </ul>
Туре	Documents and reports, skills.
Key innovation	<ul> <li>Rich set of tools, consulting models and material that make it possible to provide training services tailored to optimally fit the needs of the diverse audience EOSC needs to reach.</li> </ul>
Related information	• Hairing materials inked in the LOSC Fortal.



# **EOSC-hub** Contribution to the EOSC Implementation





## **Innovation**



# **EOSC-hub** What is new or improved?



Motivation	<ul> <li>Stimulated the knowledge transfer for helping: 1.) researchers from different scientific disciplines to better integrate advanced digital services, tools and data to achieve excellence in science, research and innovation, and 2.) service providers interested to contribute to the EOSC ecosystem.</li> <li>Reduced the risk of EOSC becoming inaccessible to the majority of researchers and service providers interested to contribute.</li> </ul>
Implementation aspects	<ul> <li>Developed focused training programmes to address the needs of the different stakeholders (e.g.: scientific communities and service providers).</li> <li>Allocated resources and provide guidelines for training activities.</li> </ul>
Contribution to EOSC	Operate the state of the FOOO Testistics and Other MO



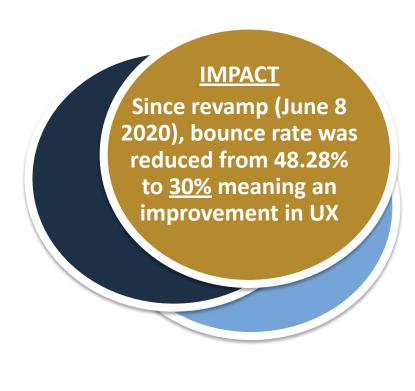
### Impact of COVID-19 on Training activities

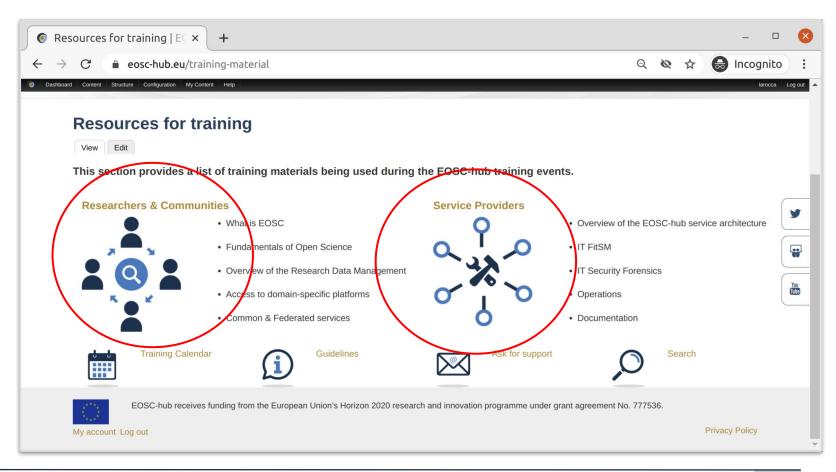
- Issues with the delivering of training activities in 2020:
  - Many of the already scheduled face-to-face events were cancelled or postponed.
  - Several events turned out to be delivered as online workshops and webinars starting from Q2
    - 50 webinars/remote (+56% of the total events organized in 2020)
  - The WP11 work plan was extended until March 2021



### **EOSC-hub** The new catalogue of the training materials

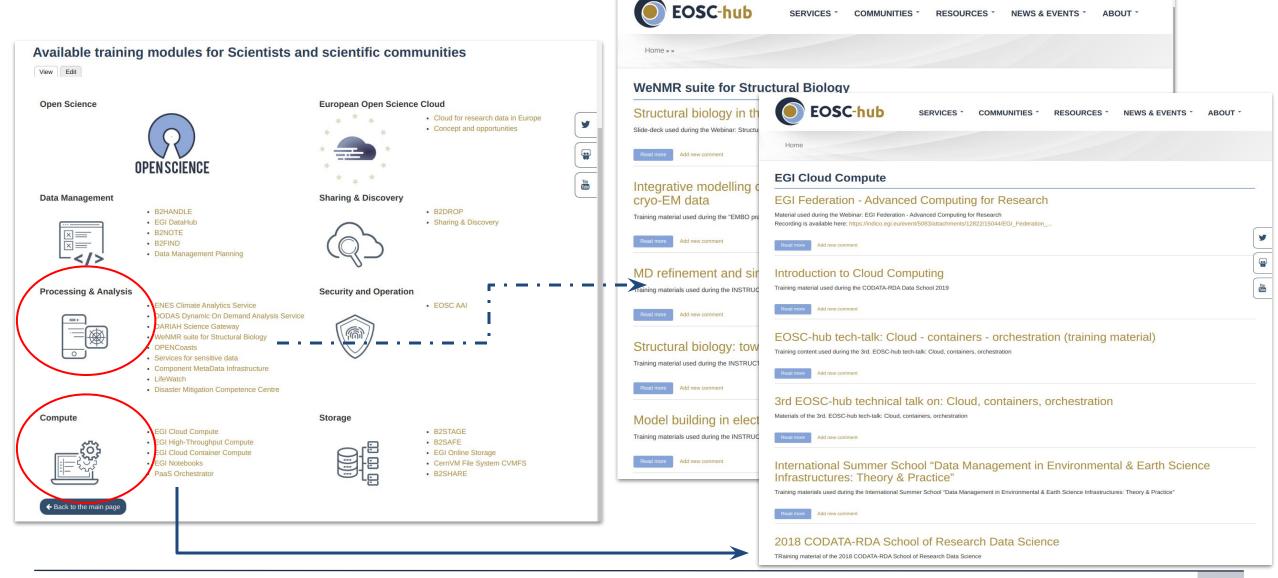
- Dedicated paths were created for helping Scientific Communities and Service Providers to get easy access to the relevant documentation
- Supported by WP11 and WP3





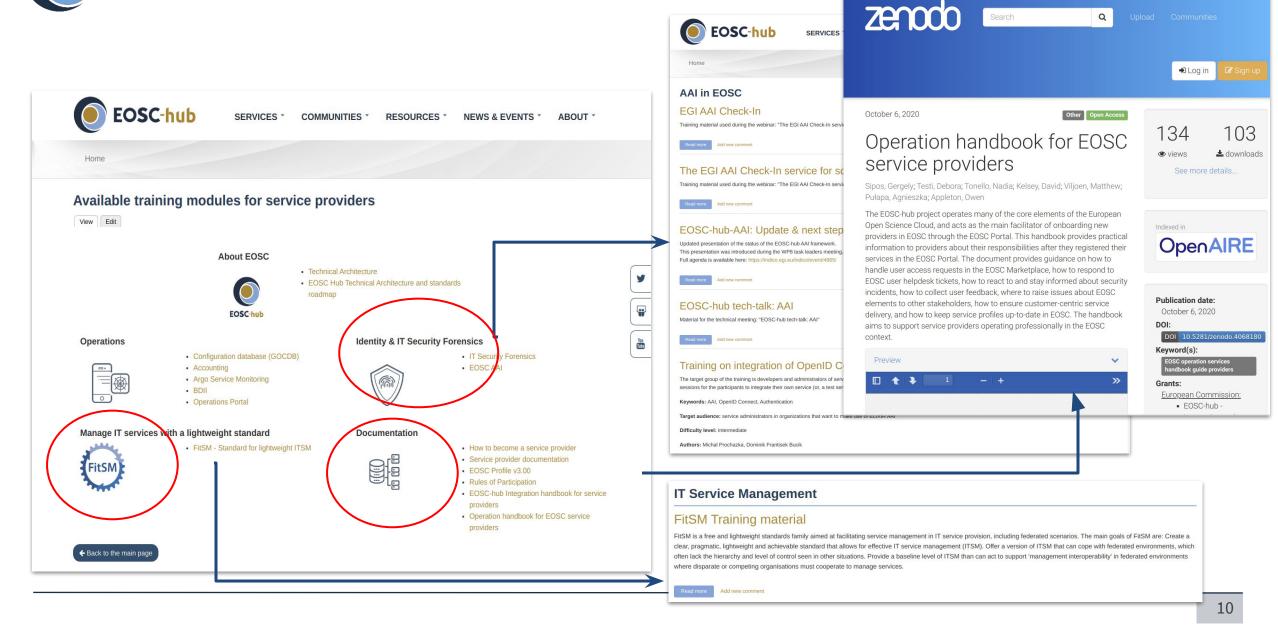


## **EOSC-hub** The Scientific Communities "space"





**EOSC-hub** The Service Providers "space"





# **EOSC-hub** Training materials in the EOSC Portal

https://eosc-portal.eu/using-the-portal





Supported by WP11 and WP3



# **EOSC-hub** What benefits does it bring?

<b>Exploitation</b> audience	Benefit
Service Providers	<ul> <li>Get access to technical documentation for a smooth integration into the EOSC ecosystem, maximising the benefits.</li> <li>Increase the visibility of the service provider.</li> </ul>
Researchers and research communities	<ul> <li>Researchers can get trained on the use a wide plethora of services and solutions to support advanced research</li> <li>Increased trust in the EOSC services, tools and resources</li> <li>Increase the impact of scientific research</li> <li>Facilitate the adoption of the FAIR principles</li> </ul>



# **Exploitation**



## **EOSC-hub** The EOSC Training and Skills Working Group

Participated in the EOSC Skills and Training Working Group (WG) formed in 2020

### **Main Recommendations:**

- Develop initiatives, skills, training and career paths necessary to support further development of FAIR and Open Science.
- Coordinate and align relevant skills curricula and training frameworks on a core European higher education curriculum to deliver FAIR and Open Science skills at university level.
- Facilitate increased integration of FAIR and Open Science courses with university qualifications.
- Include learning and training resources in the EOSC Interoperability Framework.
- Develop an EOSC Skills and Training Leadership Programme.





### **EOSC-hub** Community of Practice (CoP) Group

#### **About**

- Informal network of training coordinators and managers composed by over 60 representatives of e- and Research Infrastructures and national training initiatives
- Coordinated by OpenAIRE

### **Objectives**

 Stimulate the sharing of training experiences and best practices about training related topics organized in EOSC

#### **Contribution**

- Sharing best practices for implementing the Open Science principles with open-source solutions and open services
- Consultancy and expertise for the implementation of Data Management Plans (DMP)

https://www.openaire.eu/cop-training



### **Workshop on Training in EOSC**

#### **Event**

- Workshop was funded through a co-creation grant of the EOSCSecretariat
- Organised by DANS in cooperation with EUDAT, EGI, representing EOSC-hub, and OpenAIRE



https://www.eoscsecretariat.eu/events/workshop-training-eosc

### **Objectives**

Provide recommendations in the following two main areas:

- Rules of Participation for training in EOSC, and
- Practical Guidance for training service providers.

#### **Outcomes**

- The <u>EOSC Rules of Participation (v0.2)</u> was extended to include training services and training materials
- Recommendations: <a href="https://zenodo.org/record/3894370">https://zenodo.org/record/3894370</a>



### **EOSC-hub** The EGI Webinar Programme

To promote the uptake of EOSC services the EGI webinar programme was organized.



- Started in **April 2020**
- 17 webinars
- More than 420 participants from 30 different countries attended the programme (~ 24 participants per webinar)
- https://www.eqi.eu/webinars/
- Recording available in the EGI YouTube <u>channel</u>



Training Events  203	Data Management Planning training  32	Common and Federated Training  36	Domain-specific training  98	Other Events 15*
FitSM Training Events  22	Certified people  212	Trained people 5268	Training objects  350**	Stories in the EOSC-hub Magazine

(\*) Including external events: CODATA-RDA, CORBEL, ENVRI, INSTRUCT, NGS, NI4OS, PaNOSC/ExPaNDS, VIRGO and advanced Univ. courses for PhD students (\*\*) Including ppts, containers, VAs, notebooks, guidelines, etc.

- Most of the material is openly available, licensing approach differs on a case-by-case basis.
- The training material can be searched and filtered based on the licensing approach

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  - o e.g. to find training material licensed under creative commons, Apache or MIT licenses.
- All the documentation is **licensed under CC-BY** in order to ensure that future initiatives have sufficient IPR rights to curate and further improve the available material.





- Starting from April 2021, training activities will continue in EOSC Future
  - led by OpenAIRE, WP9 Training and Skills
  - Design and offer training activities in tandem with INFRAEOSC-07 projects
- Training areas supported in EOSC Future:
  - Train researchers and research communities to onboard data and services in EOSC.
  - Design and implement a structured modular and reusable training programme for EOSC end users and providers to be used across different disciplines and countries
  - Develop and roll out an **EOSC train-the-trainers programme** focusing on use/FAIR integration and use of EOSC data, services, software, and training.
  - Design a training resource catalogue and platform as part of the EOSC Portal.
    - The catalogue will support making EOSC-related training resources FAIR.



### **Dissemination & Communication**



<b>EOSC-</b>	hub
web	site

https://eosc-hub.eu/training-events

https://eosc-hub.eu/past-training-events

https://eosc-hub.eu/training-material

#### **Publications**

A. Oliveira, et. all, **OPENCoastS: An open-access service for the automatic generation of coastal forecast systems**, Environmental Modelling & Software, 2019, <a href="https://doi.org/10.1016/j.envsoft.2019.104585">https://doi.org/10.1016/j.envsoft.2019.104585</a>.

A. Oliveira, et. all, **OPENCoastS: An Open-Access App for Sharing Coastal Prediction Information for Management and Recreation**. In: Rodrigues J. et al. (eds) Computational Science,

https://doi.org/10.1007/978-3-030-04849-5 44

WeNMR publications in **Google Scholar** 

The VLab Framework: An Orchestrator Component to Support Data to Knowledge Transition,

https://doi.org/10.3390/rs12111795

#### Magazine

- How to make your data Open and FAIR, EOSC-hub Magazine, Issue no. 2
- OPENCoastS and EOSC-hub, EOSC-hub Magazine, Issue no. 3
- The new EOSC-hub training catalogue has just been released!, EOSC-hub Magazine, Issue no. 6
- Open Science in action with EGI Notebooks and Zenodo (news), 08/06/2020
- Outreach and Training activities for the seismological community, EOSC-hub Magazine, Issue no.7

# Selected presentations at events

- Several presentations during EOSC-hub training events
- Training workshop in EOSC, 26-28/02/2020



# **EOSC-hub** WP participation, further information



WPs in leading roles	WP11
WPs providing contributions	WP5, WP6, WP7, WP8, WP10 and WP3
Other information	D11.1 - Training materials about common services and thematic services D11.2 - Training materials about competence centre services D11.4 - Report on training activities, infrastructure and material D11.5 - Updated training materials about common services, thematic and competence services  M11.1 Process is defined for allocating financial support for trainers to attend f2f events M11.2 Online services for training M11.3 Training programme of first project year M11.4 Training programme of second project year M11.5 Training programme of third project year

### Thank you for your attention!

Questions?



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