

User Calls, User Support, Training, Early Adopter Program

Period 1 Review meeting, 24/05/2022

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Dissemination level: Public

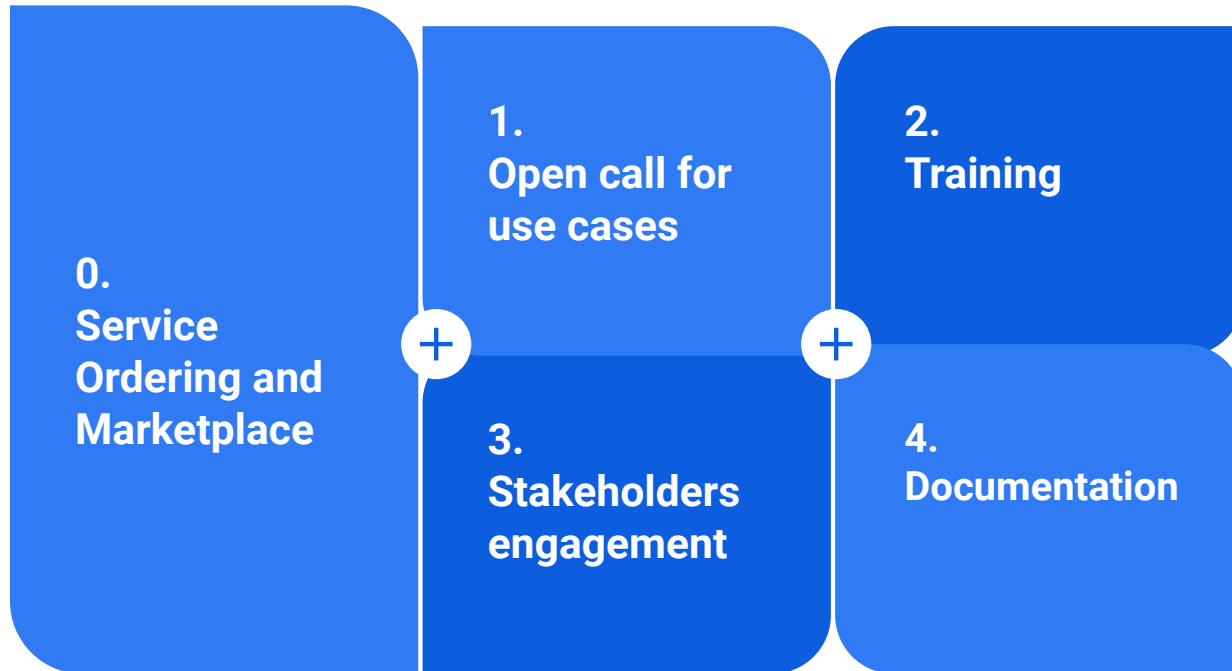
Disclosing Party: Project Consortium

Recipient Party: European Commission



Motivations

- **Promote** EGI-ACE services for new users, and
- **Ensure** target stakeholders receive the proper level of support



37 EGI-ACE resources in the EOSC Portal and the Marketplace



The screenshot shows the EOSC Marketplace interface. At the top left is the 'EUROPEAN OPEN SCIENCE CLOUD' logo. A search bar contains 'Find resource...'. To the right, it says 'All resour...' and 'My EOSC Marketplace'. Below the search bar, a red box highlights the 'All Resources' link with a count of 37. The main content area is titled 'Resources' and shows 'Active filters' for 'Related Infrastructures and platforms: EGI-ACE'. Under 'SUGGESTED', three resource cards are visible: 'HADDOCK2.4 web portal', 'Geohazards Exploitation Platform (GEP)', and 'SpotOn web portal'. A sidebar on the left lists categories like 'Access physical & eInfrastructures' and filters for 'Scientific Domains'.

EGI-ACE services use 2 access categories:

Fully Open Access	Open no limits
Open Access	Require Authentication
Order Required	Order and negotiation according to the Provider
Other order Type	Other flexible way of ordering

https://marketplace.eosc-portal.eu/services?related_platforms=52

Service Orders (M15)



Service	2021												2022			Total	Approved SO
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	Sum	
	EGI CLOUD COMPUTE	1	1	1	2	1	4	10			2	3	5	1	2	6	
EGI NOTEBOOK	2	1	1	3	1	1	1			5	2		1	1	1	20	15
EGI ONLINE STORAGE									1	3	2	3		2	1	12	11
DEEP TRAINING FACILITY		2				1	1							2	1	7	7
EGI DATAHUB						1					1	2				4	4
EGI HIGH-THROUGHPUT COMPUTE									1	1				1		3	3
HADDOCK2.4 WEB PORTAL														1	2	3	3
AIIDALAB					1					1						2	2
DISVIS WEB PORTAL			2													2	2
ELASTIC CLOUD COMPUTE CLUSTER ...			1				1			1					1	4	2
Total Sum	5	6	6	8	5	8	14	1	4	14	9	11	2	9	12	114	87

The top 3 requested services in EOSC are from EGI-ACE

30% of the total EOSC orders were attracted by EGI-ACE (87 out of 286)

<https://opsportal.eosc-portal.eu/metricsEOSC/ServiceOrder/>

1. The EGI-ACE Open Call: Overview



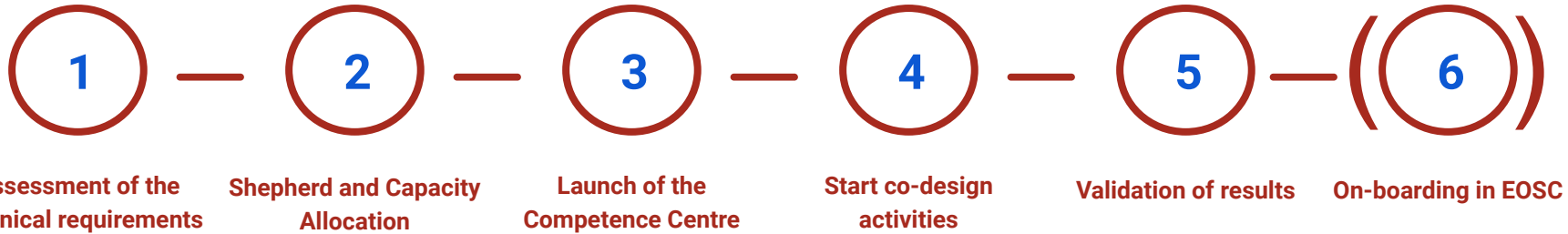
Objectives:

- **Offers** access to the EOSC Compute Platform
- **Provide** dedicated consultancy, user support and training
- **Increase** the EOSC Thematic Service / Data Spaces portfolio

Marketing campaigns:

- Sent **~150** emails
 - H2020 Projects working on cloud, AI/ML and Big Data
 - ESFRI RIs and clusters

1. The EGI-ACE Open Call: The user support pipeline



Establish Competence Centres:

- Use-case specific support groups consisting of service and resource providers, technical experts and other interested parties providing assistance for a Use Case.

Statistics (from the EGI-ACE Open Call):

- **6** round of selection; **29** Applications selected
- **~22** applications already integrating with the EOSC Compute Platform
- **3** new Thematic Services on-boarded in EOSC
- **14** Shepherds from **6** organizations involved
- **14** (resource) + **11** (service) providers involved in the support
- **8,864,777** million of CPU/h used

1. The EGI-ACE Open Call: Statistics



FETFX



MATRYCS



i-energy
Artificial Intelligence
for Energy



Astronomy, Astrophysics

Physics

6.9%

3.4%

Policy making and multidisciplinary

3.4%

Social Sciences, Humanities

6.9%

Life Sciences

17.2%



Engineering and Technology

24.1%



Cos4Cloud



ARTICONF



Consiglio Nazionale
delle Ricerche



Plataforma Océánica
de Canarias

PANGEO

Environmental Sciences

37.9%



Total Applications: 31
CPU/h used: 8,864,777



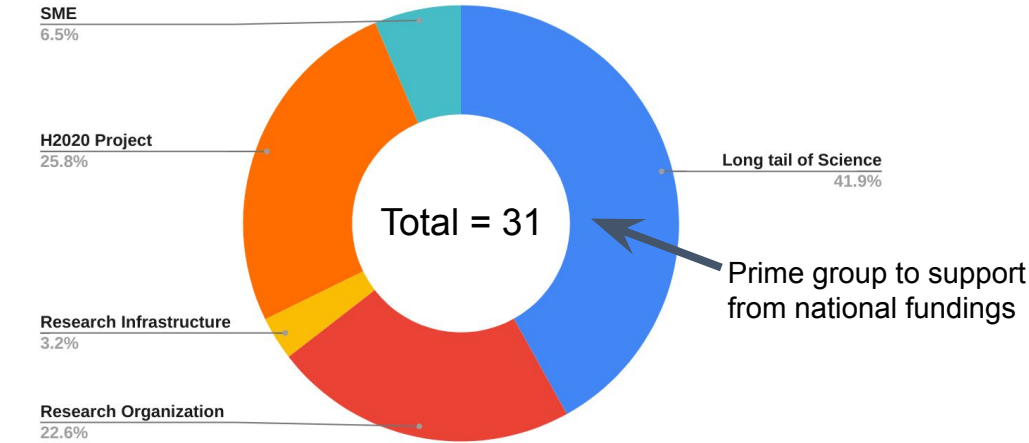
EMPHASIS

Deltares



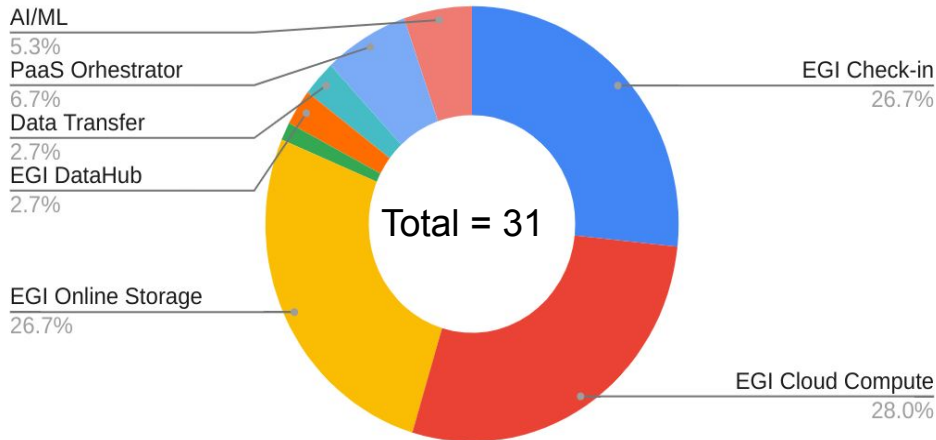
grapevine

1. The EGI-ACE Open Call: Statistics



Entities distribution

Type of entities (RI, SME, H2020 projects, etc) supporting the EGI-ACE use cases applications



Services demanded

Distribution of the services type requested by the selected use cases applications

1. The EGI-ACE Open Call: Success story

The **Mobile OBservation Integration Service (MOBIS)** service to report environmental and biodiversity observations.



EOSC in practice story #1

EOSC Future

Keywords:
#data, #app, #sensor, #citizenscience, #citizenobservatory, #mobile, #EOSCinPractice #cross-disciplinary

Connecting researchers, developers and citizen scientists in a unique mobile app environment.
An EOSC in Practice Story where heterogeneous data are collected via mobiles or sensors, and made accessible in a secure, open and easy way.

The project involved

Cos4Cloud

Cos4Cloud (Co-designing Citizen Observatories Services for the EOS-Cloud) is a European Horizon 2020 project funded under Grant Agreement no 883463. The project aims at boosting citizen science technologies. One of the biggest challenges of citizen science is the **quality of data**, as well as maintaining the citizen observatories used to collect this data. Cos4Cloud is addressing these challenges by developing twelve technological services to improve citizen science platforms.

The Users

This EOSC in practice story targets three main types of users: (1) the **citizen and citizen scientists** who collect valuable data, (2) the **researchers** who use and benefit from the data collected by citizens via smartphones and sensors, and (3) **software developers**.

The Challenge

Currently there are **thousands of citizen science apps** constituting a **fragmented ecosystem**. Each app comes indeed with its own login system and with a separate database accessible to specific groups of researchers. Most of these apps are still listed in app stores, but are actually abandoned, since they were created only for the purpose of a project. Beyond all concerns coming from these apps being unsustainable, it

The solution

The proposed solution is called **MOBIS (Mobile Observation Integration Service)** and it provides a service that makes it easier to gather all kinds of data, and keep them open. MOBIS collects and processes data from different mobile observatories (most of them via smartphones with or without sensors). It can be used as a back end service for (citizen) science apps with a single login. MOBIS is openly available to researchers & citizens. The final aim is for MOBIS to become a large repository for citizen science data, including environmental and bio diversity

"What we frequently experience with funded projects is their time limitation. Projects last mostly 4 years, then they end, the funding ends... and the community is gone. This is why we really started early in the project to think about its future sustainability."

Norbert Schmidt, Owner @DDQ & Partner @Cos4Cloud

"And I'm doing my measurements in a mobile app!"

"A MOBIS user measuring air quality near Brasov, Romania"

Impact:

- MOBIS back-end integrated in the EOSC Compute Platform
- Improved service performance
- On-boarded in EOSC

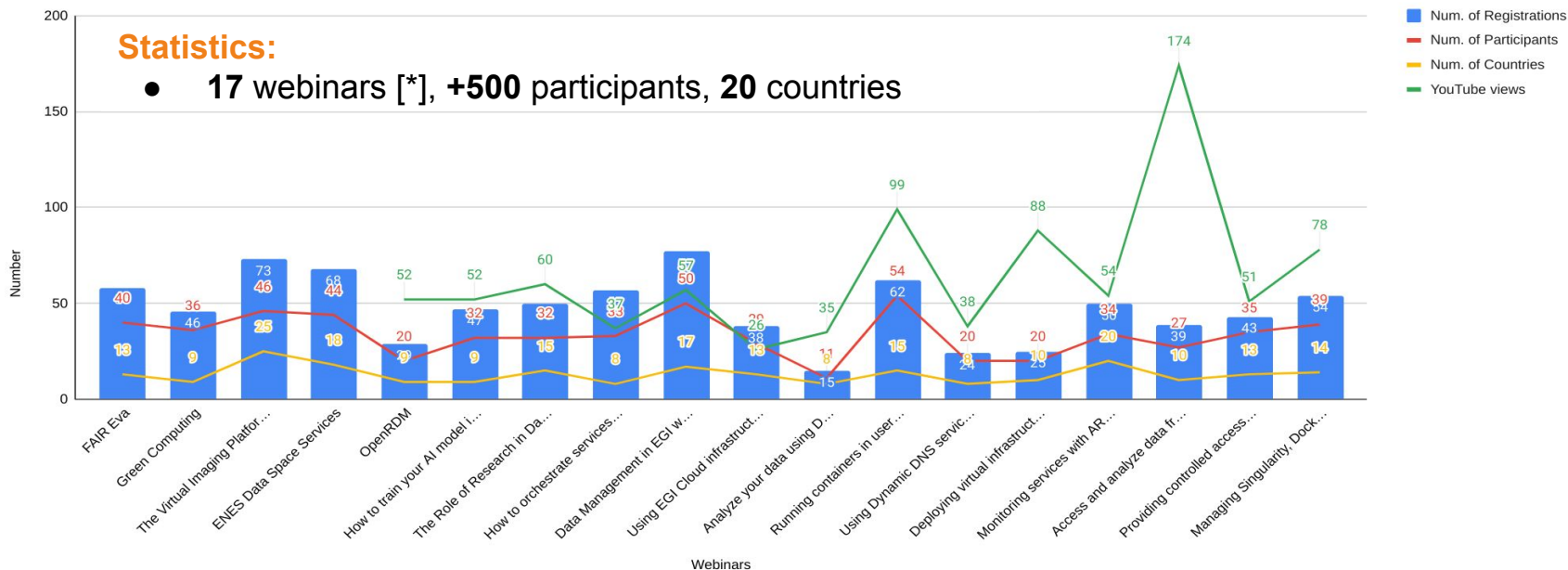


- **8 vCPU cores, 32GB of RAM, 1TB of block storage**
- **364,193 Cloud CPU/h consumed (M15)**

2. Webinar Programme 2021-2022

Address the needs of **researchers** and **scientific communities**, and **service operators** of the EGI-ACE Compute Platform

EGI Webinar 2021~2022: statistics



2. EGI-ACE Community Workshop



Objective: Introduce the Data Space and Early Adopter communities, understand their plans and requirements, and define support plans.

Agenda:

- **Day, 1:**
 - Introduced the EGI-ACE Data Spaces and presented tech. requirements
- **Day, 2:**
 - Introduced the EGI-ACE Early Adopters and presented tech. Requirements
 - Set-up support teams and agreed integration roadmaps

Statistics:

- 2 days workshop
- ~40 participants

2. EOSC Compute Platform User Support Workshop



Objective: Learn about the capabilities and benefits of the EGI-ACE services

Agenda:

- **In the morning session**, covered the different areas of services of the EOSC Compute Platform:
 - Compute services; Data services, Higher-level services.
- **The afternoon session** consisted of '**use case support clinics**'
 - **3 clinic sessions:** AI/ML, Containers and Data Management

Statistics:

- 1 day workshop
- ~70 participants attended the morning session
- ~60 participants attended the clinic sessions

3. Stakeholders Engagement




One-to-one meetings for new providers: **China, Lithuania, Ireland and Austria**


- The **Computer Network Information Center (CNIC)** was federated in the EOSC Compute Platform.
- The integration of **Lithuania** into the EGI-ACE infrastructure via the EGI Council *is still ongoing* and waiting for final approval from the ministry.
- Start technical activities with **Ireland** in Sept. 2022 to support marine communities.
- The integration of **Austria** into the project concluded, with **TU Wien** that will establish an **Earth Observation training environment** on top of relevant EGI-ACE services.

4. Documentation

- EOSC Compute Platform Handbook (D2.5) → For users**
 - Handbook for EOSC users to provide guidance on how to use the various services of the ECP
 - The Handbook reached over **80** downloads between Feb-April 2022
- EGI-ACE Status of the SMS Processes (D7.2) → For providers**
 - Handbook for resource providers explaining to them the various options to join the EOSC Compute Platform
- Handbook for the EGI-ACE shepherds → For supporters**
 - Support technical experts involved with the integration plans of the use cases




Researcher's Handbook



It's About Science (S4I Horizon)

Kevin Jarkman and Brandon Bonifay




D2.5 EOSC Compute Platform Handbook

Lead partner:	EGI Foundation
Version:	1
Status:	Under EC review
Dissemination Level:	PUBLIC
Keywords:	EOSC, Compute, Handbook, esp
Document Link:	https://documents.egi.eu/document/3813

Deliverable Abstract

The EOSC Compute Platform Handbook is written for EOSC users to provide guidance on how to use the various services of the EOSC Compute Platform. The EOSC Compute Platform (ECP) is a system of federated compute and storage facilities together with higher level platforms to support various data and application hosting, data processing and analysis use cases.

EGI-ACE receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 101017567. Visit egi.eu/egi-ace for details.




D7.2 Status of the SMS Processes

Lead partner:	EGI Foundation
Version:	1
Status:	Final
Dissemination Level:	Public
Keywords:	EOSC, SMS, Processes, ECP
Document Link:	https://documents.egi.eu/document/3802

Deliverable Abstract

EGI-ACE is one of the service provider projects of EOSC. EGI-ACE delivers over 30 services that form the EOSC Compute Platform (ECP) and thematic services that rely on the ECP to provide scalable data analytics environments for domain researchers. Majority of the EGI-ACE services are managed through the ISO 20k compliant service management system (SMS) of the EGI Foundation. This deliverable introduces the SMS and provides guidance to those new providers who want to join the EOSC Compute Platform and therefore need to comply with certain SMS processes. The document also provides an overview of the interfaces between the EGI-ACE SMS and EOSC SMS.

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Handbook for the EGI-ACE shepherds

Abstract

EGI-ACE is a 30-month project coordinated by the EGI Foundation with a mission to empower researchers from all disciplines to collaborate in data- and compute-intensive research through free-at-point-of-use services. This handbook provides insights and guidelines for the EGI-ACE shepherds involved with the integration plans of the use cases selected through the EGI-ACE open call, and the onboarding of the resulting solutions in EOSC. Shepherds are technical experts who are assigned to the use cases that are served by the project, and have the overall responsibility for mapping the use cases to providers, managing the implementation of the use cases, and reporting about achievements, lessons learnt and other outcomes.

Digital Object Identifier

URL: <https://documents.egi.eu/document/3806>

Version (date of last update)

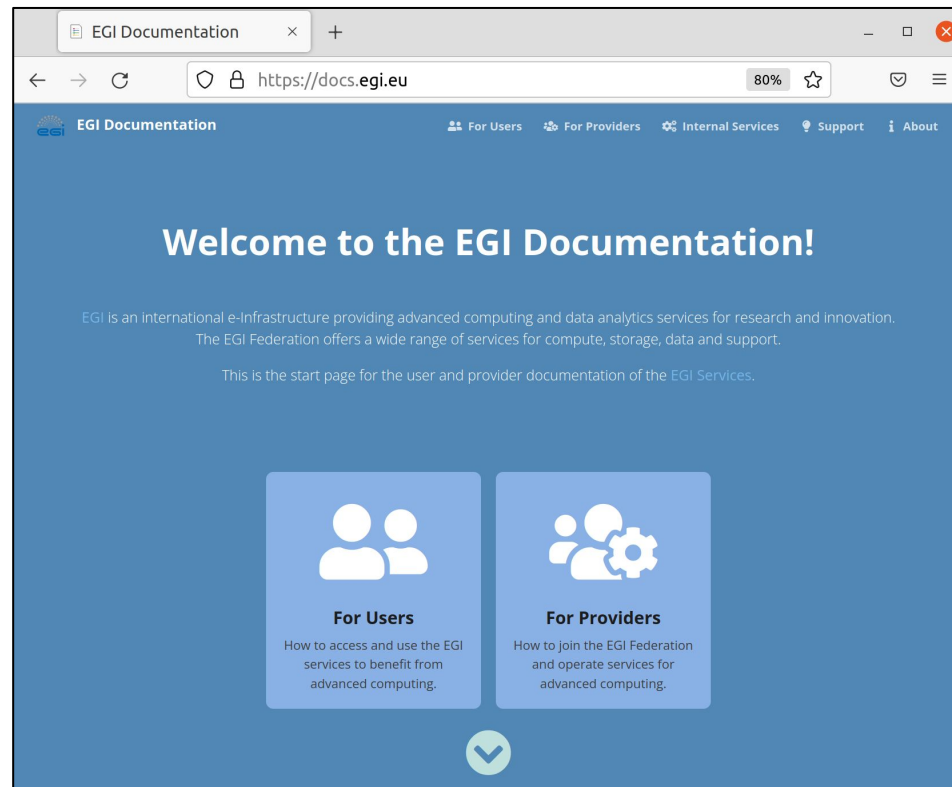
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4. Documentation

- Users and Service Providers documentation has been updated to promote the EOSC Compute Platform services



Future Plans



- Continue the engagement plans and the integration activities
- Support the **EOSC Future Science Projects**
 - (i.e. PaNOSC and ESCAPE)
- Organize **training events (and webinars)**
 - 4 Training events during the EGI Conference 2022
 - AI Workshop (during EGI Conference 2022, in September, 2022)
 - HPC in the EOSC Compute Platform promotion event (during EGI Conference 2022 in September 2022)
 - EOSC Compute Platform Data Spaces Bootcamp (November, 2022)
 - Additional domain-specific events from the supported Thematic Services:
 - ENES at EGU General Assembly 2022 (EGU22), May 2022
 - WeNMR/HADDOCK workshop, May 2022
 - ENES at TNC22 Conference, June 2022
 - OPENCoastS+ at MEDGU 2022, Nov. 2022
 - (other) ...
- Develop new training contents and training materials, hosted in a **Training Management System (TMS)**



Thank you!

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