

Aggregators in EOSC

EOSC Marketplace ask me anything
webinar

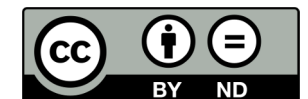
Oscar Corcho – Universidad Politécnica de Madrid



with



The EOSC Future, C-SCALE, DICE, EGI-ACE, OpenAIRE-Nexus and Reliance projects are funded by the European Union Horizon Programme calls INFRAEOSC-03-2020 and INFRAEOSC-07-2020.





Join us on Slido

During this webinar we will be collecting questions and feedback via Slido. Join us there via a mobile device to post your own comments or upvote those of others.



Or

Go to **sli.do**

Enter event code **#682308**
and password **EOSC-AMA**



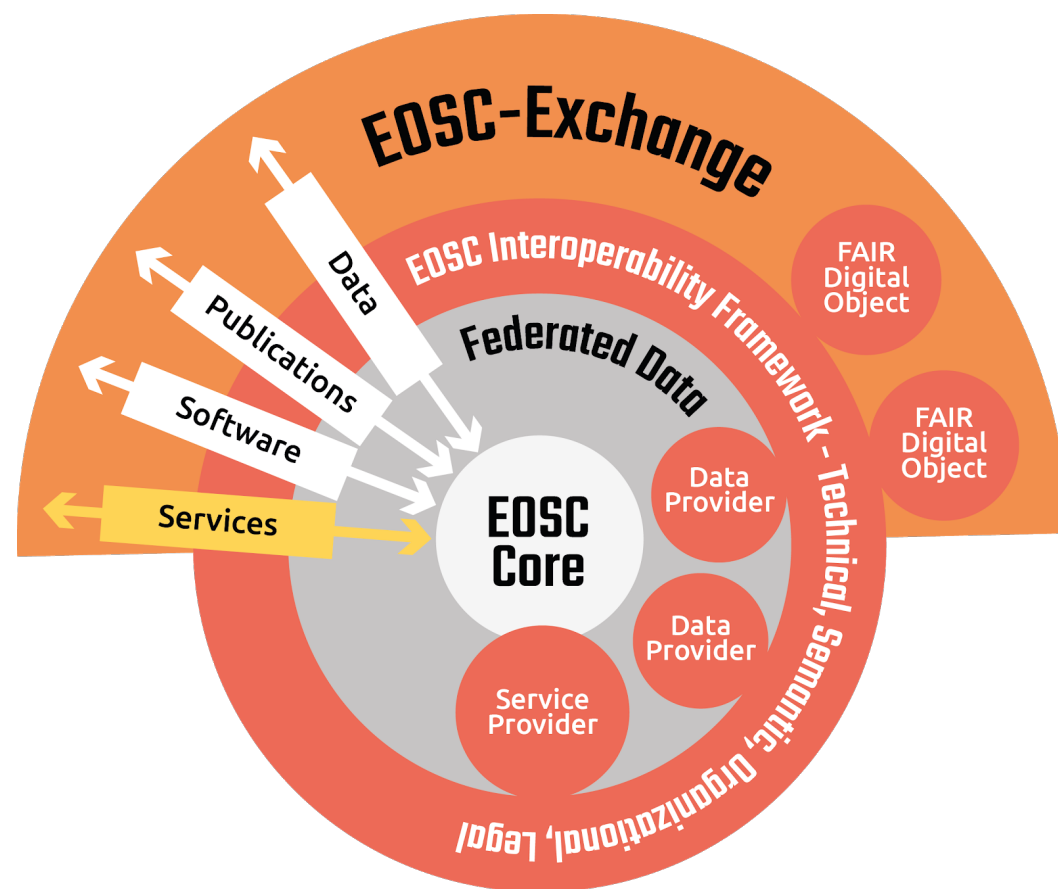
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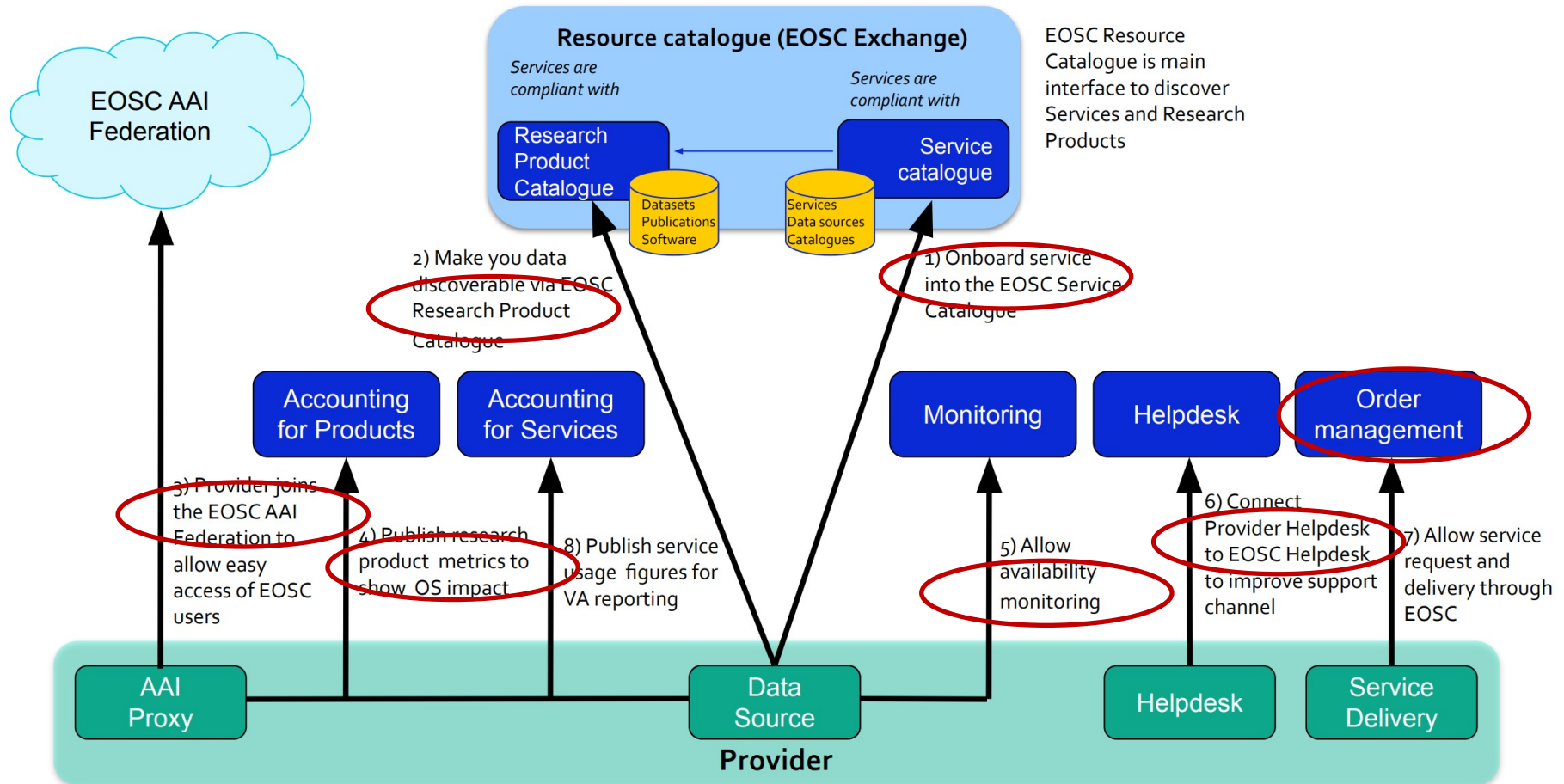
The EOSC vision

1. Federation of ...
 - a. eInfra and Research Infrastructures
 - b. FAIR Data and Services
2. ... with interoperability in mind (EOSC Interoperability Framework)
3. ... and considering multiple providers

Under development in the context of EOSC Future, plus all the other sister projects (see the footer)



What's in the minimal viable EOSC (EOSC Core)



From: John Shepherdson, CESSDA
(EOSC for Data & Service Providers, 26/04/2022)

Based on this, what's in the EOSC Exchange?

1. Marketplace built on top of EOSC-Core to offer a progressively growing set of services exploiting FAIR data

a. <https://marketplace.eosc-portal.eu/>

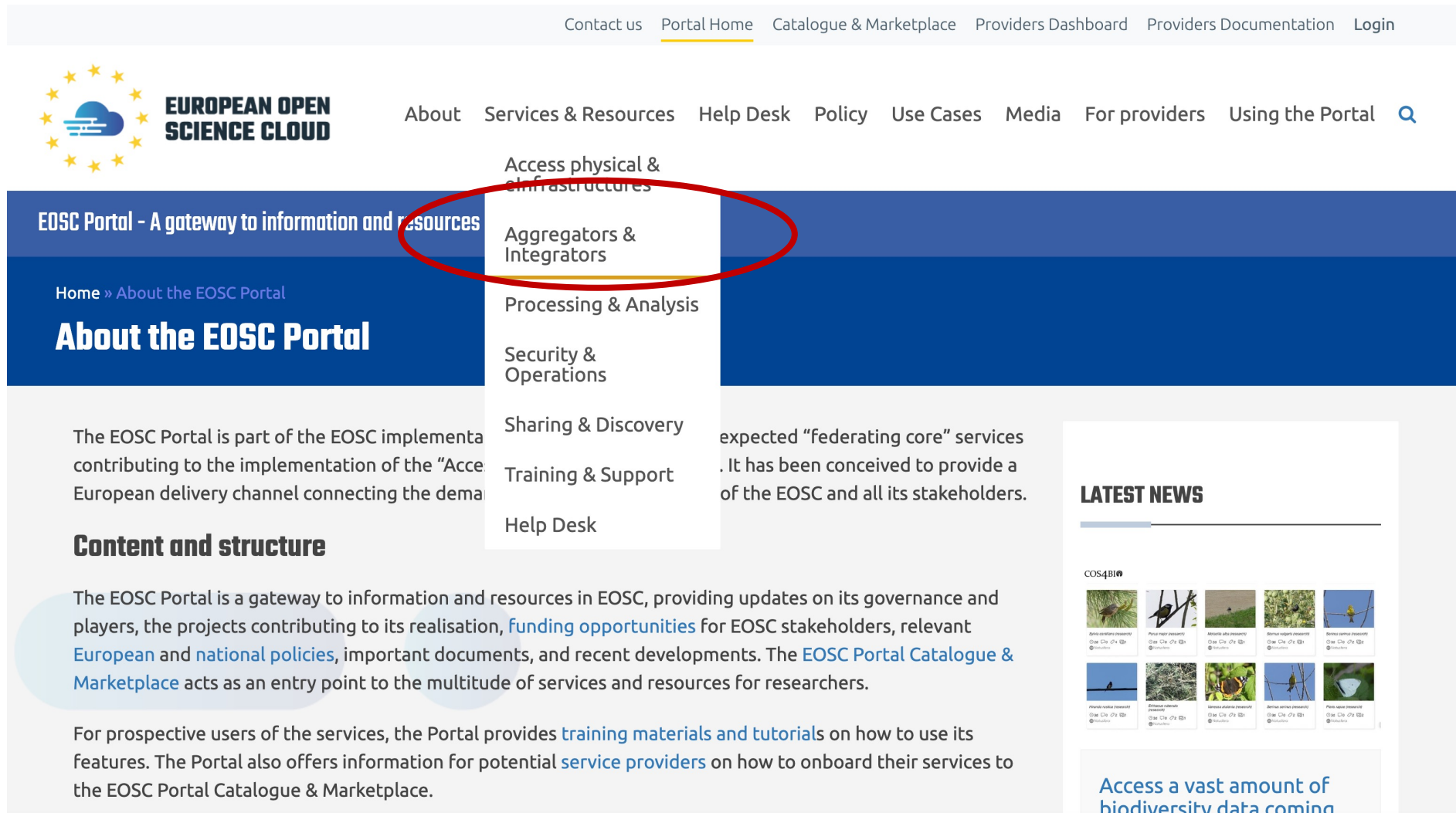
2. For instance, these are some of the services provided by RELIANCE partners

The screenshot displays a marketplace interface with several service cards. Each card includes a logo, a title, a brief description, the provider's name, a star rating, and an 'Access the resource' button. Some cards also feature 'Add to comparison' and 'Add to favourites' options, and a link to 'Ask a question about this resource?'. Navigation tabs for 'ABOUT', 'DETAILS', and 'REVIEWS' are visible at the bottom of each card.


- ADAM Platform**: ADAM is a key technology to enable seamless access and view services to environmental data. ADAM rem Organisation: **Metc** (5 stars)
- ADAM Space**: Seamless access to planetary data Organisation: **Meteorological and E** (5 stars)
- ROHub**: Manage and preserve your research work, make it available and discover new knowledge. Organisation: **ROHub**
- Enrichment API**: Enhance the metadata from your files or Research Objects with the Enrichment API Organisation: **expert.ai** (5 stars)


At the bottom of the page, logos for partner organizations are displayed: EOSC Future, C-SCALE, DICE (Data Infrastructure Capacity for EOSC), EGI-ACE, OpenAIRE | NEXUS, and Reliance.

What will we be the focus of today?



Contact us [Portal Home](#) Catalogue & Marketplace Providers Dashboard Providers Documentation Login

 **EUROPEAN OPEN SCIENCE CLOUD**

About Services & Resources Help Desk Policy Use Cases Media For providers Using the Portal 

EOSC Portal - A gateway to information and resources

Home » [About the EOSC Portal](#)

About the EOSC Portal

- Access physical & infrastructures
- Aggregators & Integrators**
- Processing & Analysis
- Security & Operations
- Sharing & Discovery
- Training & Support
- Help Desk

The EOSC Portal is part of the EOSC implementation contributing to the implementation of the “Access to Research and Innovation” European delivery channel connecting the demand for expected “federating core” services. It has been conceived to provide a gateway of the EOSC and all its stakeholders.

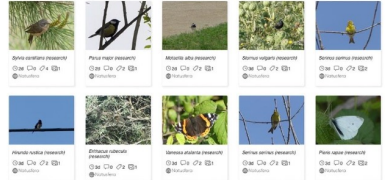
Content and structure

The EOSC Portal is a gateway to information and resources in EOSC, providing updates on its governance and players, the projects contributing to its realisation, [funding opportunities](#) for EOSC stakeholders, relevant [European](#) and [national policies](#), important documents, and recent developments. The [EOSC Portal Catalogue & Marketplace](#) acts as an entry point to the multitude of services and resources for researchers.

For prospective users of the services, the Portal provides [training materials and tutorials](#) on how to use its features. The Portal also offers information for potential [service providers](#) on how to onboard their services to the EOSC Portal Catalogue & Marketplace.

LATEST NEWS

COS4Bio



Access a vast amount of biodiversity data coming



with





What is an Aggregator

Data aggregators summarize data from multiple sources and include features for collecting, processing and presenting aggregated data to users

The term comes from the business domain where data aggregation is often used to provide statistical analysis for groups of people and to create useful summary data for business analysis



with





Data Aggregators in the Scientific/Research Domain

Aggregators provide functionalities within your research lifecycle management to **manage** heterogenous scientific data.

Depending on the specific aggregator such functionalities include:

- Search and discovery for scientific data
- Data Annotation
- Customized data projection
- On Line data processing
- Data Storage
- Data Analysis



with



Data Aggregators in EOSC



Currently 24 Data Aggregators are Available in EOSC covering different scientific disciplines (9 are generic)



ATMO-FLUD

FAIRsharing

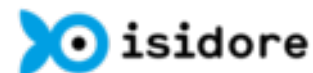
Dynamic DNS



fedcloud.eu



Search & Share



with





Our focus today

Research Lifecycle management

- How aggregators can help scientists in their every day work
- What are the bottlenecks that aggregators can solve
- We will bring you a concrete case in the Climate Change domain

AGENDA

What matters in the life of a climate data scientist? – Anne Claire Foilloux – University of Oslo

Reliance Ro-HUB – Raul Palma – Poznan Supercomputing and Networking Center

Zenodo – Alex Ioannidis – CERN

OpenAire Graph Services – Paolo Manghi – ISTI-CNR

DICE B2Find – Claudia Martens – German Climate Computing Centre

DEMO – My journey towards Open Science – Anne Claire Foilloux – University of Oslo

Q&A



What matters in the life of a climate data scientist?

EOSC Marketplace ask me anything webinar

Anne Claire Foilloux – University of Oslo



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What matters in the life of a climate data scientist?

1

OpenAIRE | EXPLORE zenodo

EOSC Jupyter Notebook

doi



3

RoHub Executable RO

Created: 29.04.2022 (21:46), last modified: 29.04.2022 (22:29) ☆ 0.00 / 5

NO2 (Sept. 2019, 2020, 2021) in Spain Jupyter notebook demonstrating the usage of CAMS European air quality analysis from Copernicus Atmosphere Monitoring with RELIANCE services
Anne Fouilloux

Contributed by: Jean Jaquinta, Simone Mantovani
Published by: University of Oslo, Nordic e-Infrastructure Collab.

This Research Object demonstrates how to use CAMS European air quality analysis from Copernicus Atmosphere Monitoring with RELIANCE services and compute monthly map of NO2 over a given geographical area, here Spain

LOCATION: Area 1

CONTENT

- output
 - netCDF data for daily NO2 over Spain in September 2019, 2020 ...
 - Nitrogen Dioxide [kg m-3] over Spain for September 2019, 202...
 - Timeseries of Nitrogen Dioxide [kg m-3] over Madrid in septe...
 - Nitrogen Dioxide [kg m-3] over Spain on September 15, 2021
 - Nitrogen Dioxide [kg m-3] over Spain for September 2019, 202... (156Kb)
- tool
 - Jupyter Notebook of CAMS European air quality analysis from ...

AGENTS: Anne Fouilloux, Creator

QUALITY: 0%

KEYWORDS: JUPYTER, NOTEBOOK, CAMS, AIR QUALITY, SPAIN, CONFERENCE

DISCOVERED METADATA: RELIANCE SERVICE, AIR QUALITY ANALYSIS, MAP OF NO2, ANALYSIS FROM COPERNICUS ATMOS, USAGE OF CAMS, NO2, SPAIN, AREA, RELIANCE, MAP, SPAIN, ANALYSIS, AIR QUALITY, CAM, USAGE

TOOLBOX: [Icons for various actions]

SHARE: [Social media icons]

CITE AS: Fouilloux, Anne, Jean Jaquinta, and Simone Mantovani. "NO2 (Sept. 2019, 2020, 2021) in Spain" Jupyter notebook demonstrating the usage of CAMS European air quality analysis from Copernicus Atmosphere Monitoring with RELIANCE services. RoHub. Apr 29, 2022. <https://doi.org/10.14224/5355-4479-9935-616846f7776>