Aggregators in EOSC

EOSC Marketplace ask me anything
webinar
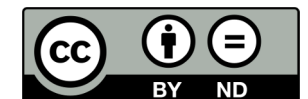
Oscar Corcho – Universidad Politécnica de Madrid

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**

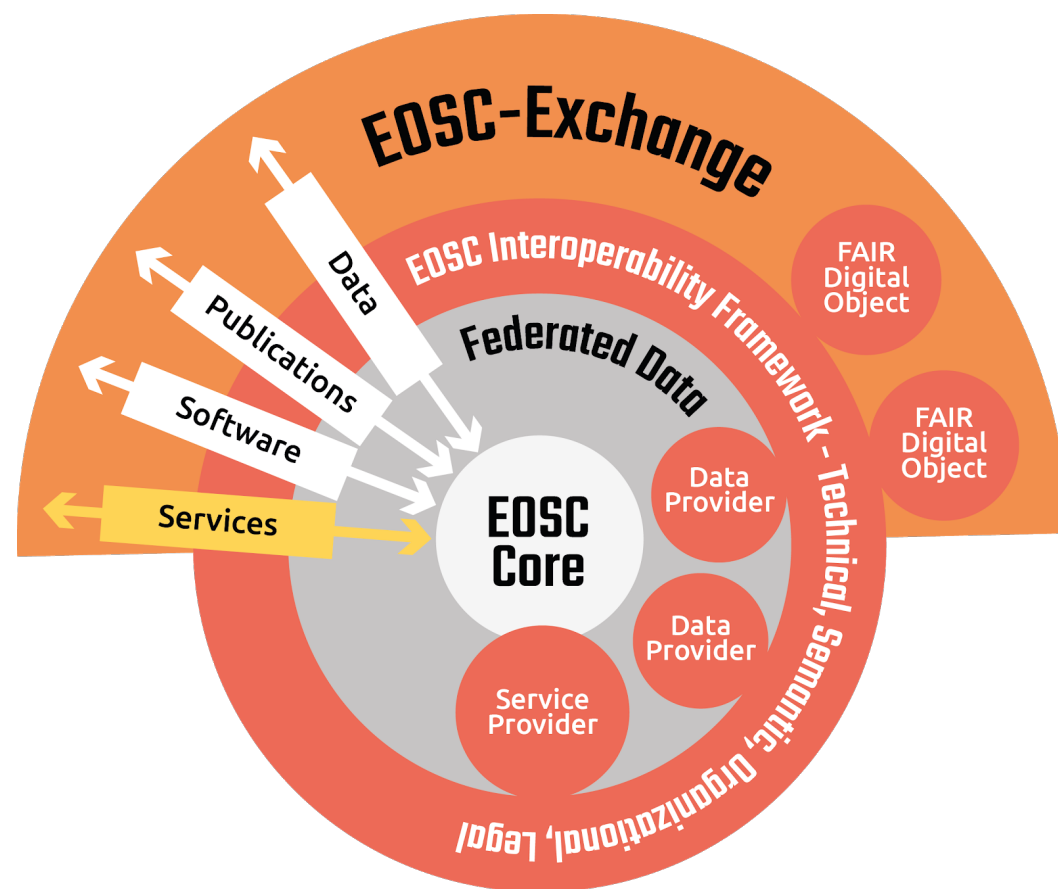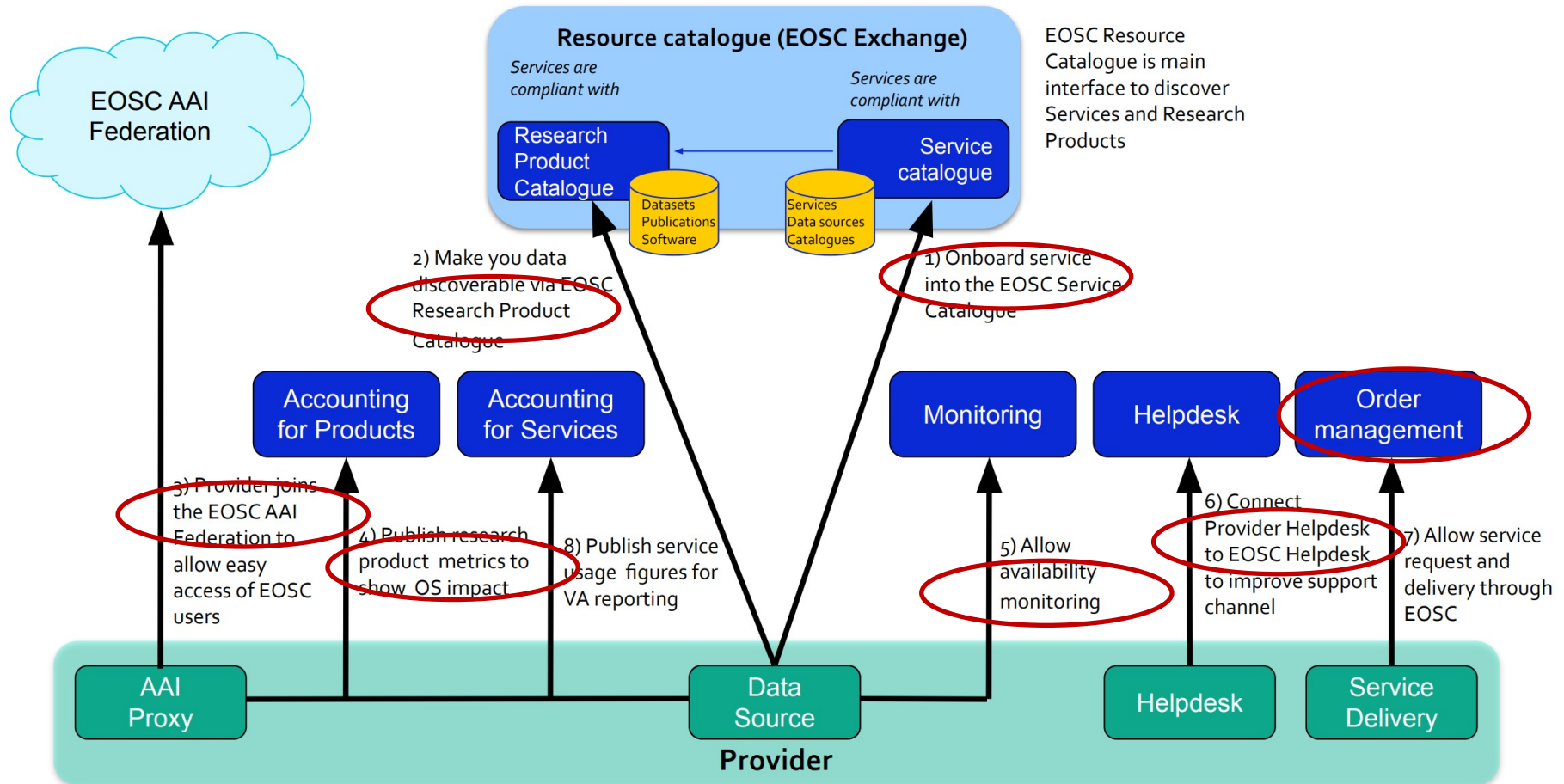Enter event code **#682308**
and password **EOSC-AMA**

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)

EOSC-Exchange
EOSC Interoperability Framework – Technical, Semantic, Organizational, Legal
Federated Data
Data
Publications
Software
Services
EOSC Core
FAIR Digital Object
FAIR Digital Object
Data Provider
Data Provider
Service Provider

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

Resource catalogue (EOSC Exchange)

Services are compliant with ... Services are compliant with

Research Product Catalogue

Service catalogue

Datasets Publications Software

Services Data sources Catalogues

EOSC Resource Catalogue is main interface to discover Services and Research Products

EOSC AAI Federation

2) Make you data discoverable via EOSC Research Product Catalogue

1) Onboard service into the EOSC Service Catalogue

Accounting for Products

Accounting for Services

Monitoring

Helpdesk

Order management

3) Provider joins the EOSC AAI Federation to allow easy access of EOSC users

4) Publish research product metrics to show OS impact

8) Publish service usage figures for VA reporting

5) Allow availability monitoring

6) Connect Provider Helpdesk to EOSC Helpdesk to improve support channel

7) Allow service request and delivery through EOSC

AAI Proxy

Data Source

Helpdesk

Service Delivery

Provider

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

EOSC Future with C-SCALE DICE eGI-ACE OpenAIRE|NEXUS Reliance

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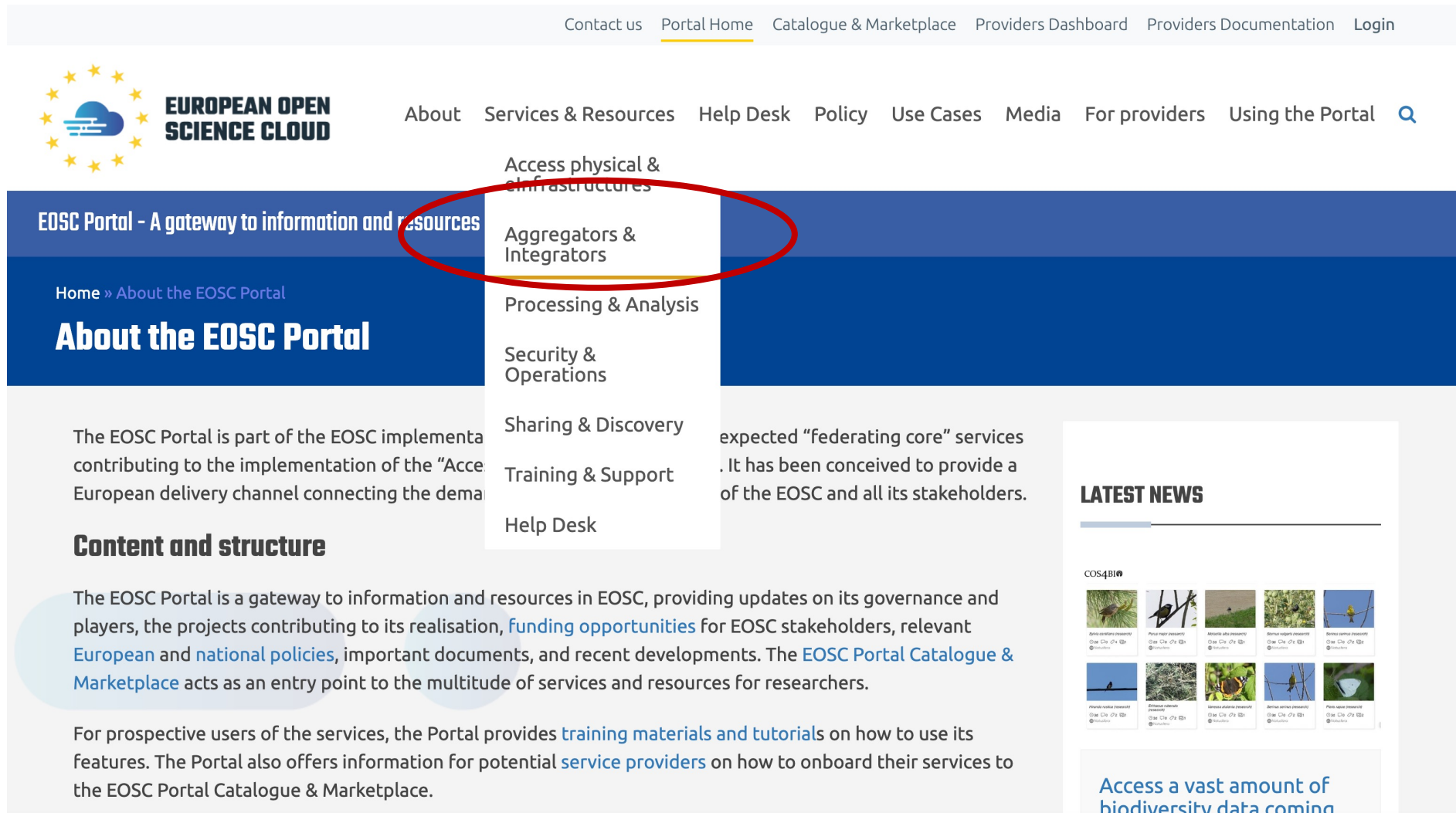
2. For instance, these are some of the services provided by RELIANCE partners

What will we be the focus of today?

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

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

Data Aggregators in EOSC

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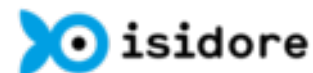
Our focus today

Research Lifecicle 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

What matters in the life of a climate data scientist?