# EOSC for Data & Service Providers 26 April 2022





















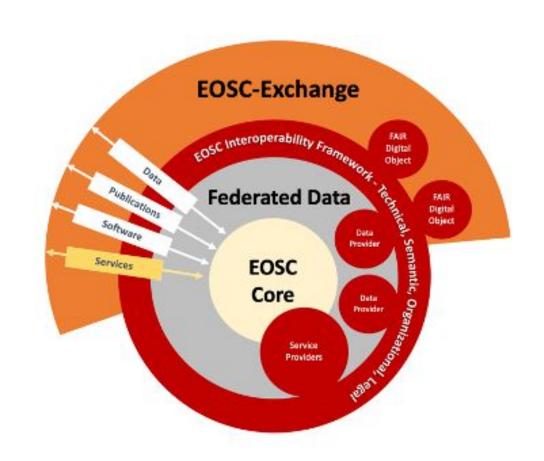
# **Outline**

- The EOSC Platform in a nutshell John Shepherdson, CESSDA
- EOSC providers: who they are and what they can provide Diego Scardaci, EGI Foundation
- Why become a provider?
   Paolo Manghi, OpenAIRE
- Q&As

# **EOSC Platform in a nutshell** John Shepherdson, CESSDA

## The EOSC Vision

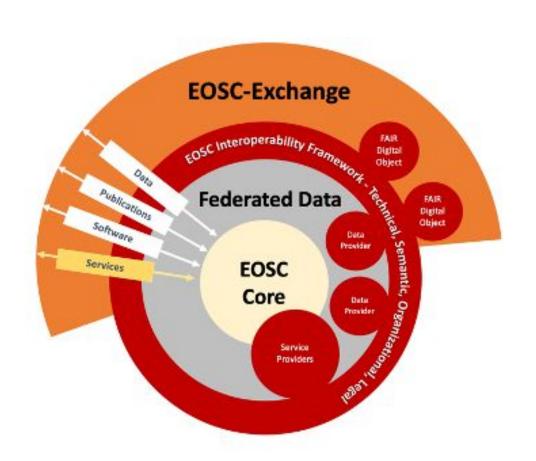
- A web of FAIR data and services
- Federation of elnfra and Research Infrastructures (RIs)
- Environment in which data can be brought together with services
  - perform analyses
  - address societal challenges



## The EOSC Future Mission

### To deliver an operational EOSC Platform

- Minimum Viable EOSC
  - Core Services
  - EOSC Portal & Market Place
  - Interoperability Framework
  - Support Service



# **EOSC Platform in a nutshell - EOSC Core**

- The 'bread and butter' elements of the EOSC Platform
  - Acting as enablers, supporting routine activities
- Used by many other elements
  - Building blocks for more advanced EOSC services
- Often behind the scenes
  - Users don't interact directly with most of them

Service monitoring, alerting and reporting

Accounting for use of shared computing facilities

Controlling access to resources

Support and help for Users

Managing orders for resources

# **EOSC Platform in a nutshell - EOSC Portal**

- The public face of the EOSC Platform
- For resource Providers
  - e-Infrastructures, private sector, tool providers, research infrastructures
- For resource Consumers
  - researchers, research communities/projects, public sector, citizen scientists...
- For resource Facilitators
  - Funders, policy makers, institutions, research administrators

Providers can:

Add resources

Modify resource descriptions

See usage and rating information

Consumers can:

Find, order and use resources

Personalise their experience, get recommendations

Facilitators can:

Use Open Science monitor to see FAIRness and Open Science indicators

# **EOSC Platform in a nutshell - Interoperability and Support**

- EOSC Interoperability Framework
  - overarching standards and guidelines for interoperability and composability of resources in EOSC-Core and EOSC Portal & Marketplace
- EOSC Support Services
  - human-centric activities (including monitoring, training, and engagement)
  - support the operation of the platform and make EOSC attractive and easy to use

# **EOSC Platform in a nutshell - Benefits**

- Open Science practices and skills are rewarded and taught, becoming the 'new normal'
- Standards, tools and services allow researchers to find, access, reuse and combine results
- Open sharing of scientific results
- Co-creation Users as 'experts' of their own experience; Industry engagement and technical pilots via Digital Innovation Hub
- Enhanced Open Science Monitor
- Knowledge Hub learning platform, training catalogue
- Improved Provider portal (details/benefits to follow)



Diego Scardaci, EGI Foundation

# EOSC PROVIDERS: Who they are & what they provide



#### e-Infrastructures

Ex: EUDAT, EGI, national e-Infrastructures (e.g. national research clouds), OpenAIRE, PRACE, FENIX, D4Science

- ✓ Software & other research products
- Storage



- Computing
- Services
- Training



#### Research Infrastructures

Ex: ERICs, ESFRIs, EMODnet, Copernicus, DIAS (Data and Information Access Services), clusters

- Software & other research
- products
- Storage Datasets
- Computing
- Services
- **✓** Training



# Higher Education Institutes (HEIs)

- Software & other research products
- Publications



- Services
  - Storage ✓ Datasets



#### Research Institutes

Ex: Research performing organisations, universities, research centres

- ✓ Software & other research products
  - **Datasets**
  - Publications



#### **Archives** & Repositories

Ex: Institutional thematic and national repositories, archives and aggregators

- ✓ Software & other research products

✓ Datasets







#### Computing & Data Centers

Ex: BCS, CSC, PSNC, CERN

- ✓ Software & other research products
- Services

Computing

✓ Storage Training



#### **Publishers & Journals**

✓ Publications



#### Ex: University libraries, institutional libraries, national libraries, LIBER

**✓** Publications

- ✓ Training
- Datasets

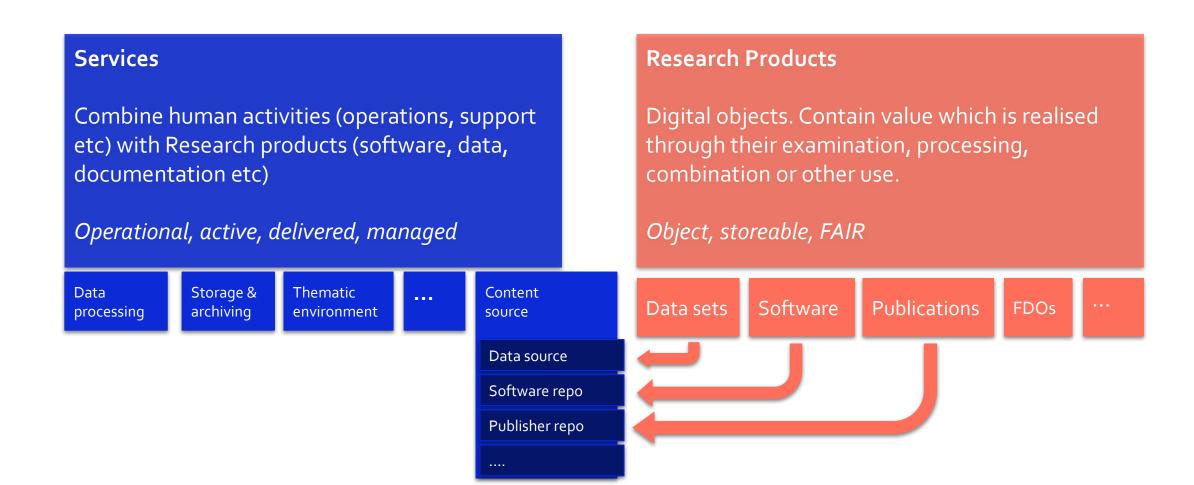


#### **Commercial Providers**

- Software & other research products
- Computing
- Storage
  - Training
- Datasets
- **Publications**

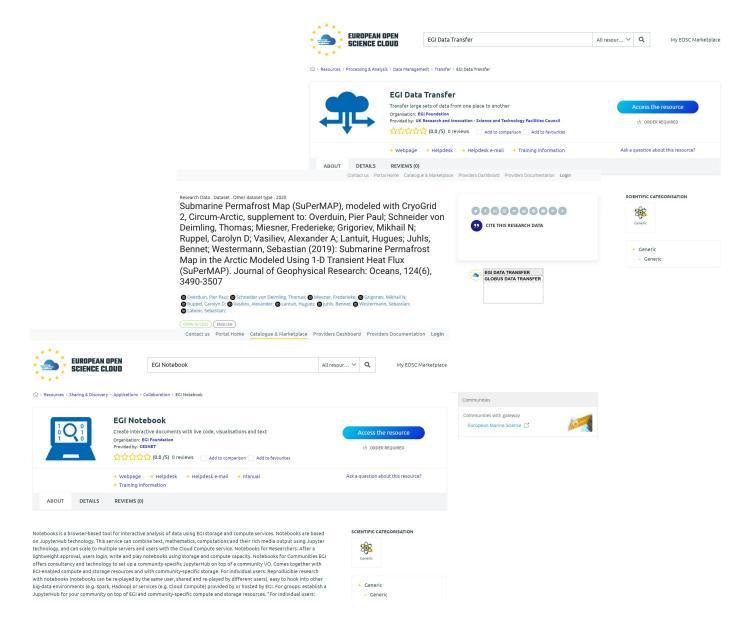
Services

### **EOSC Resources**

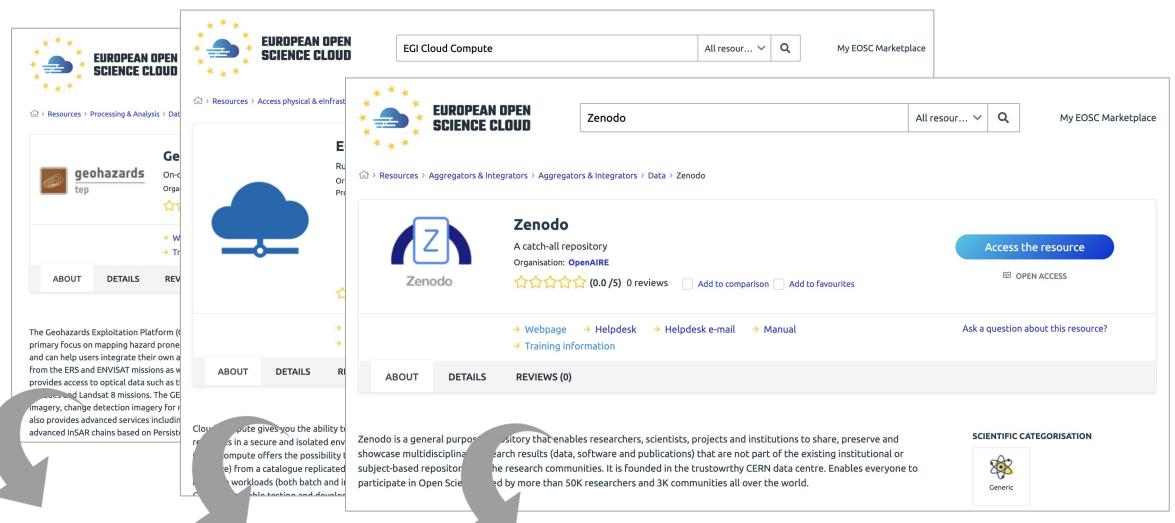


# What providers can offer to EOSC

- Services
  - Compute Resources
  - Orchestrators
  - Data management services
  - Virtual Research Environments
  - Data Analysis tools
  - 0 ..
- Research products (coming soon - Sept 2022)
  - Datasets
  - Software
  - Publications
  - 0



## **Providers and Services and data sources**

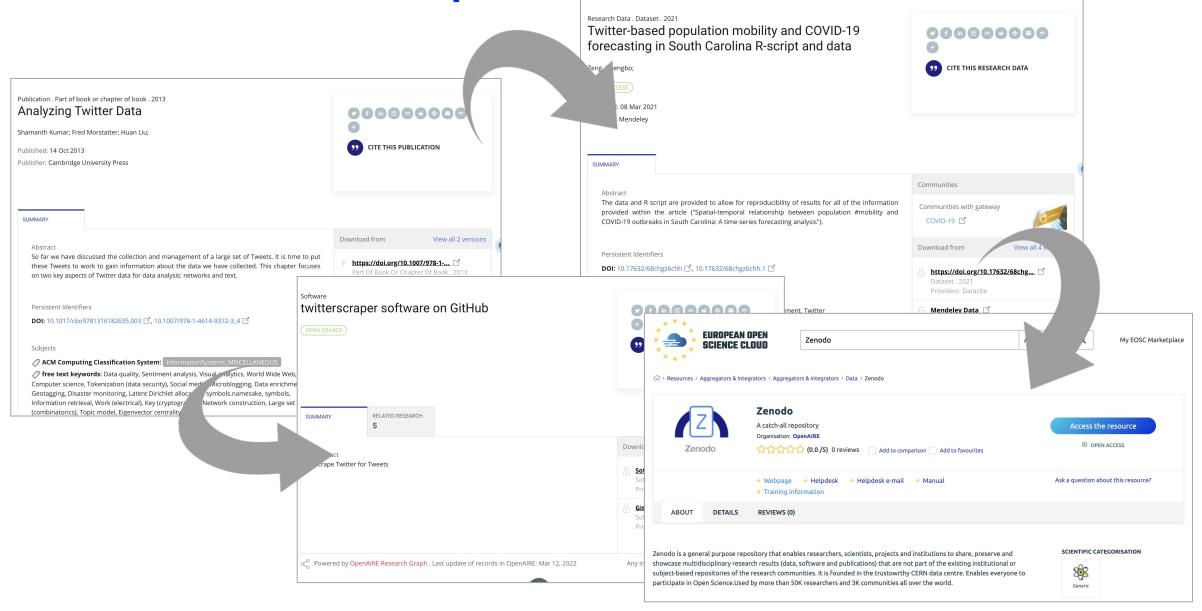








Research Products (from Sept 2022)



# Rules Of Participation (ROP)

Provider profile		Resource profile		
Basic information	Marketing information	Basic information	Marketing information	Maturity information
Classification information	Location information	Classification information	Geographical and language information	Dependencies information
Maturity information	Other information	Resource location information	Contact information	Attribution information
		Management information	Access and order information	Financial information

#### Criteria 1: Acceptable onboarding groups

- Representative of Provider fulfilling necessary information in the Provider Profile
- Legal entities

#### Criteria 2: Acceptable onboarding people

- Deliverer of resource
- In the case of a federated resource, onboarder should be lead provider

#### Criteria 3: Acceptable resource

- Specific service offered 'live' to customers. Not a research product (sw/document)
- Sufficient maturity (>=TRL8)
- Targeted to EOSC/EOSC communities OR build on/leverage EOSC capability (note: other resources data set, publication etc. will be eligible later)

# Criteria 4: Completed profile meeting following requirements

- Provider/resource profile with (at least) all required fields, in English
- Basic information of resource, policies etc. in English
- Helpdesk/support function capable of answering queries in English
- Resource available in Europe (and in a European language)

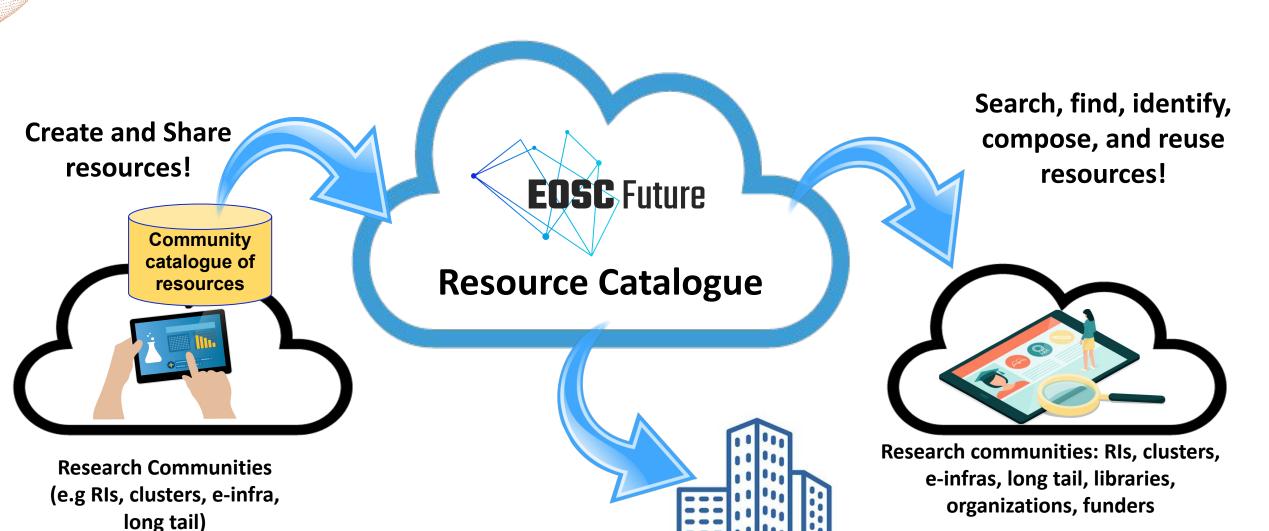
#### Criteria 5: Maintain up-to-date information

- Agreement to keep EOSC Profile information (and resource) updated



Paolo Manghi, OpenAIRE

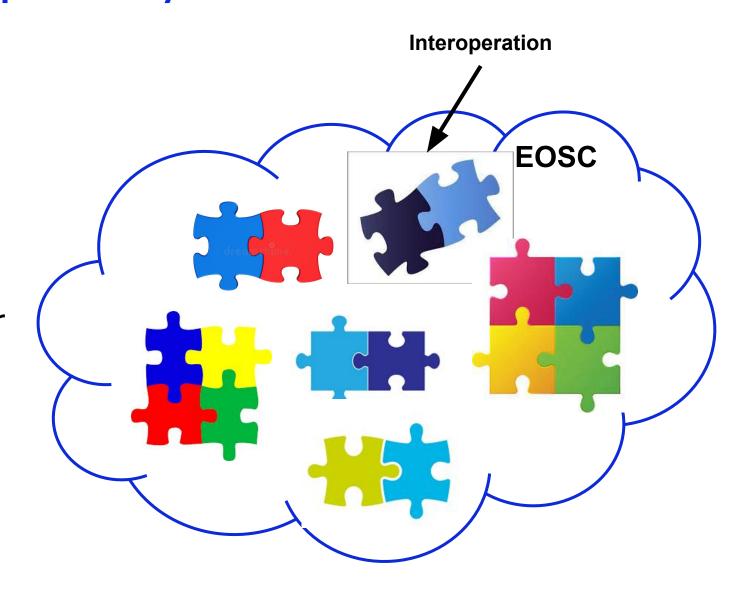
# Sharing resources beyond community boundaries



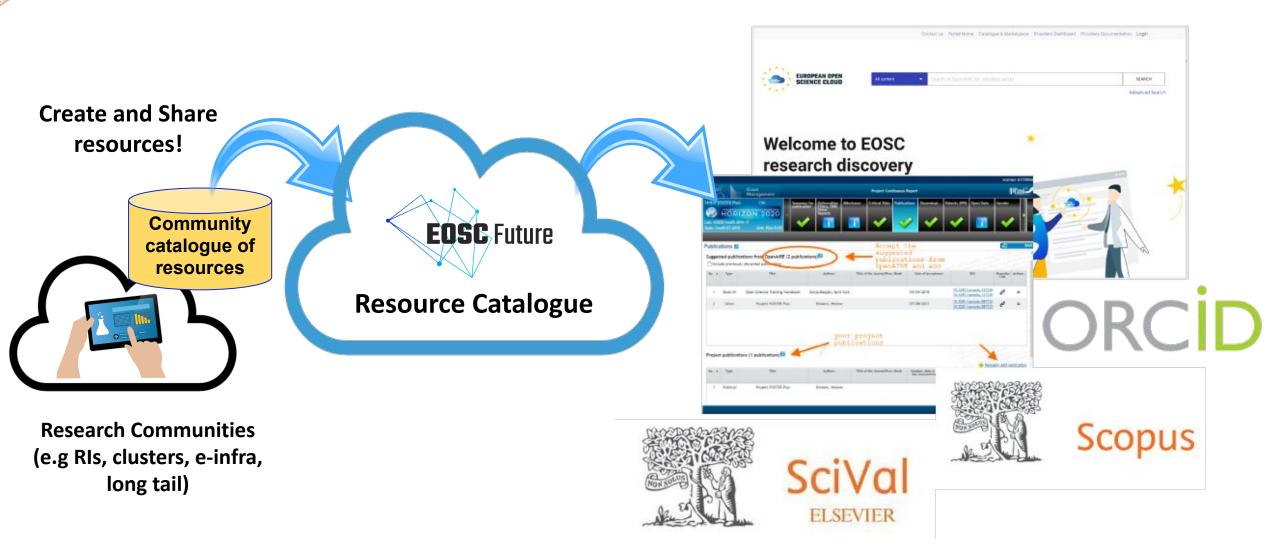
SMEs, industry

# EOSC interoperability framework to facilitate resource integration and composability

- EOSC resources
   provide descriptions
   of their
   interoperability
   capabilities (formats,
   protocols, guidelines)
- Providers can discover and combine resources based on their common interoperability capabilities



# Reporting scientific production to funders, Commission, and scholarly communication services



# **EOSC Core functionality**

