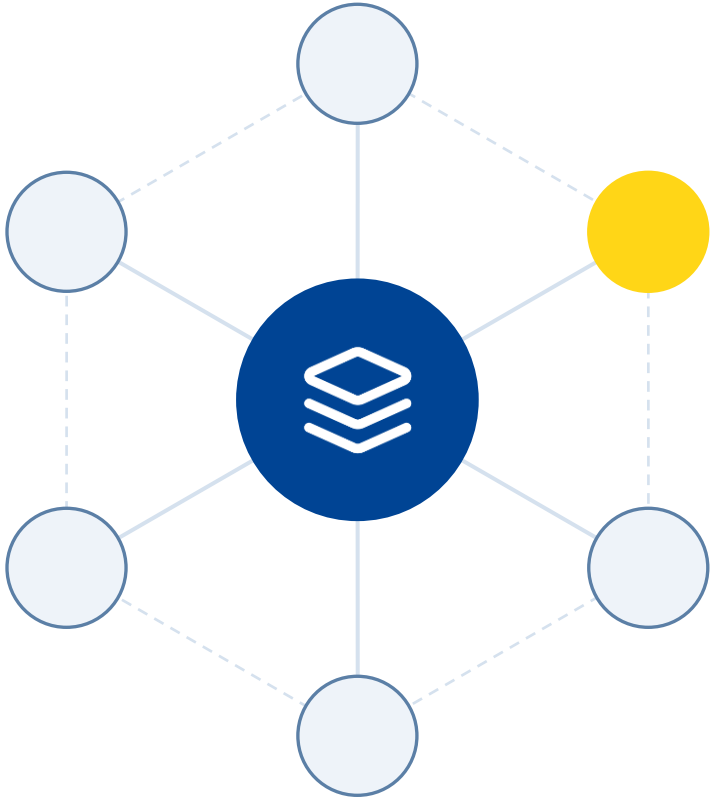
Federating EOSC Resource Catalogues

Service Catalogues and Research Product Catalogues



EOSC EU Node
Paolo Manghi (OpenAIRE)

EOSC Symposium, Florence · 15 October 2026

Why federated catalogues

1 Alignment and interoperability across EOSC Nodes

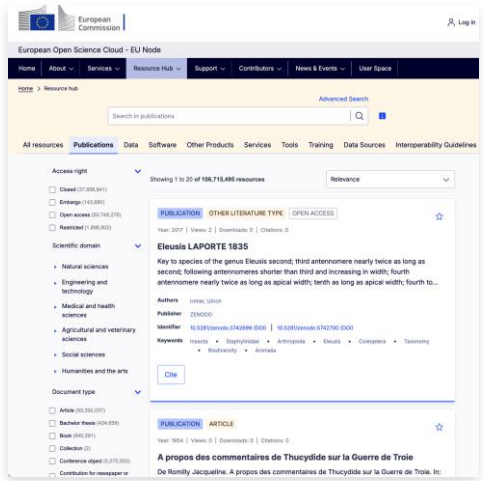
2 EOSC EU Node Resource Hub: discovery across autonomous EOSC Nodes

Node A
Catalogue

Node B
Catalogue

- Common protocol
- Metadata validation
- Source provenance

EOSC EU Node Resource Catalogue



Search and APIs

Nodes retain their catalogues and control of their resources, while sharing profiles according to common guidelines

One capability, two catalogue types

	Service Catalogues	Research Product Catalogues
Node offer	One catalogue per Node	Multiple catalogues per Node
Interoperability	REST API: GET /services Service Bundle JSON	OAI-PMH 2.0 API OpenAIRE DataCite XML profile
Aggregation mode	**Pull:** EEN pulls service profiles at regular intervals	**Pull:** OpenAIRE harvesting of research product metadata records EEN monthly indexing and filters
Discovery	Service description metadata, external access links, Node provenance	Biblio metadata, citations, and external links for publications, data and software, catalogue provenance

A repository's service listing and its harvested research products require separate registration paths.

How to register

1

Prepare

Node makes catalogue compliant to technical guidelines

2

Register

Node submits catalogue to EEN Contributors Dashboard

3

Validate

EEN team to test eligibility and compatibility and provide feedback

4

Maintain

Node to keep catalogue compliant and updated

EEN team to monthly harvest service profiles

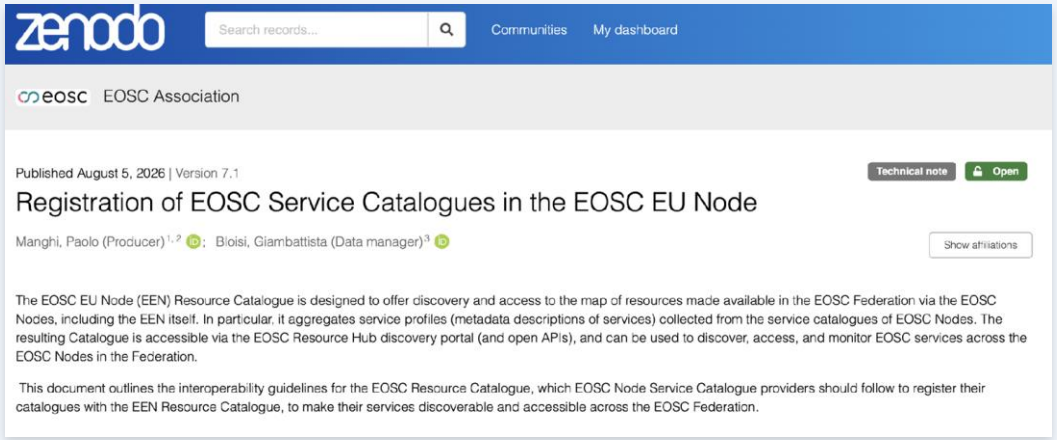
For research product catalogues: also register in OpenAIRE PROVIDE

Separate accounts and profiles. Validation precedes production harvesting.

Documentation, tools, and support

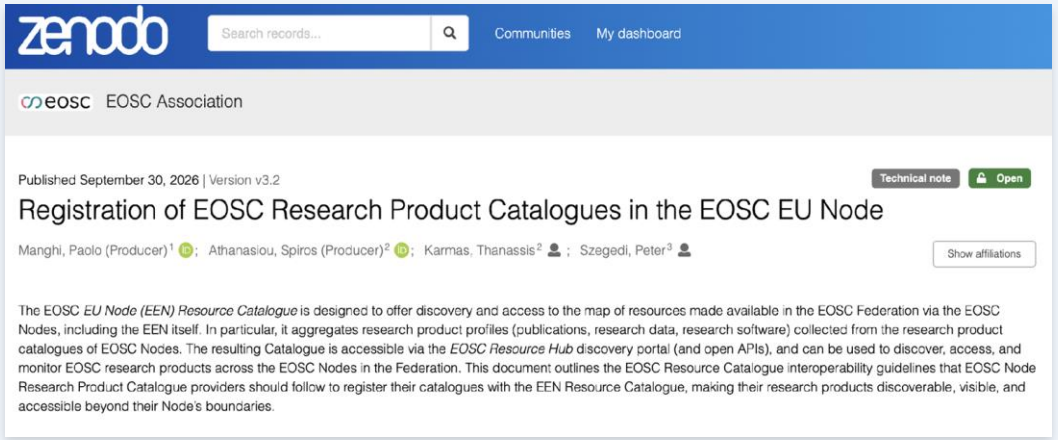
Service catalogue implementation

Guideline v7.2



Research product implementation

Guideline v3.3



Registration and integration help

EEN Contributors Dashboard

open-science-cloud.ec.europa.eu/dashboard

OpenAIRE PROVIDE

provide.openaire.eu

EEN Helpdesk

helpdesk.open-science-cloud.ec.europa.eu

Statistics from the EOSC Resource Hub

Current provision and integration status

At a glance

Research products catalogues

24 catalogues from 9 Nodes

Service catalogues

9 catalogues from 9 Nodes

Overall

14 Nodes
124 services
24 data sources
9 service catalogues