

# Infrastructura și serviciile OpenAIRE

Carina RAPORTARU

Open Science Knowledge Hub  
UEFISCDI

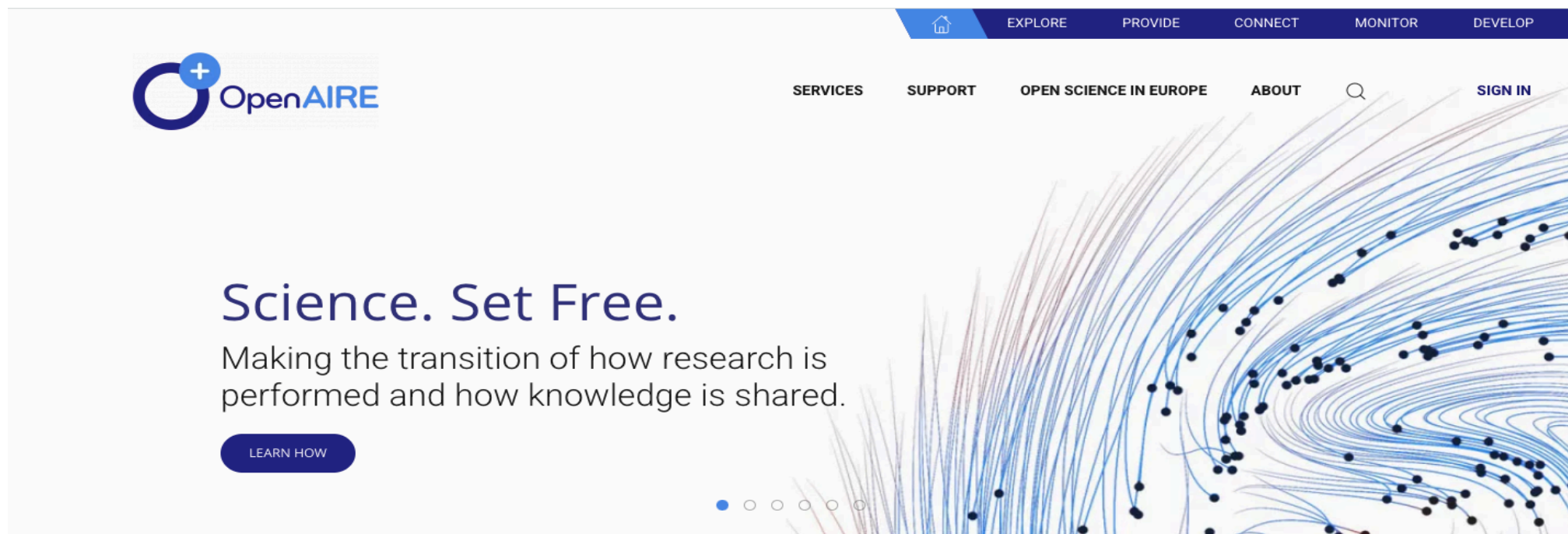
*Supportul OpenAIRE in tranzitia catre stiinta deschisa si dezvoltarea EOSC | OpenAIRE NOAD Romania 26.02.2021*



*uefiscdi*



# Platforma OpenAIRE



The screenshot shows the OpenAIRE website homepage. At the top, there is a dark blue navigation bar with a home icon and the following menu items: EXPLORE, PROVIDE, CONNECT, MONITOR, and DEVELOP. Below this, a white navigation bar contains the OpenAIRE logo on the left, followed by the menu items: SERVICES, SUPPORT, OPEN SCIENCE IN EUROPE, ABOUT, a search icon, and SIGN IN. The main content area features the headline "Science. Set Free." and the sub-headline "Making the transition of how research is performed and how knowledge is shared." Below the sub-headline is a dark blue button labeled "LEARN HOW". The background of the main content area is a light gray with a decorative pattern of blue and red lines and black dots, resembling a network or data visualization. At the bottom of the main content area, there are five small circles, with the first one being filled blue.



<https://www.openaire.eu/>

# Ce oferă OpenAIRE?



## Services

Researcher, research community, content provider, or manager of research? Find a service that matches your needs.



## Policies

Looking for information and instructions on open science policies? Access our resources or ask us a question.



## Training

Need to learn how to implement open science? Browse through our guides and webinars. See what is coming next, or contact us for assistance.

# e-Infrastructura OpenAIRE

*Human  
Network*

Experți în cele 34 de noduri în întreaga Europă (NOADs): Open Science training, suport pentru alinierea cu politicile OA, asistență tehnică

Sistem integrat de informații științifice cu acces la :  
125k publicații, 14 k seturi de date,  
78k provideri de date, 200k softuri,  
8M alte produse de cercetare

*Digital  
network*

# Conținut OpenAIRE - Februarie 2021



[SEARCH](#) [DEPOSIT](#) [LINK](#) [CONTENT PROVIDERS](#) [SIGN IN](#)

## Our growing Community

**23**

FUNDERS

**78K**

CONTENT PROVIDERS

**3M**

PROJECTS

**124,913,933**

PUBLICATIONS

**14,198,977**

RESEARCH DATA

**212,257**

SOFTWARE

**8,262,659**

OTHER RESEARCH PRODUCTS

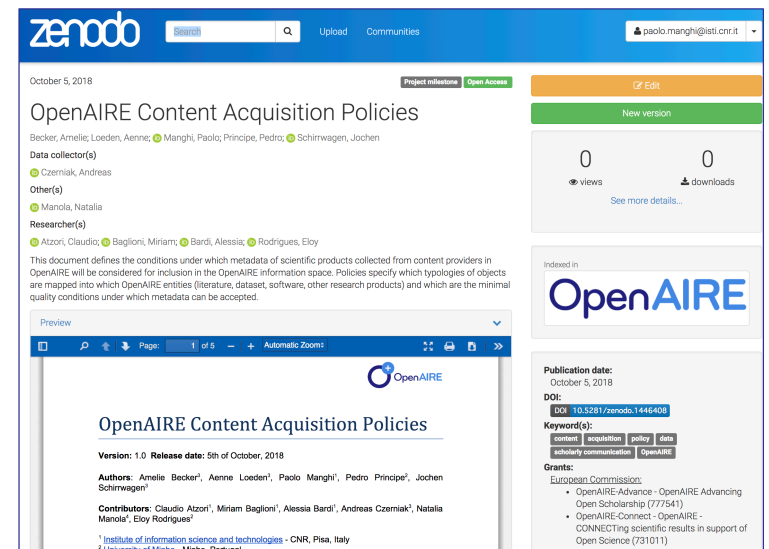


# Politica OpenAIRE pentru integrarea de conținut

**Toate** publicațiile, datele de cercetare, software-ul, alte produse ale cercetării

- Respecta ghidurile OpenAIRE
- Folosesc identificatori persistenți (PIDs)

<https://www.openaire.eu/content-acquisition-policy>



The screenshot shows the Zenodo interface for the document 'OpenAIRE Content Acquisition Policies'. The page is dated October 5, 2018, and has a DOI of 10.5281/zenodo.1446408. The authors listed are Amelie Becker, Aenne Loeden, Paolo Manghi, Pedro Principe, and Jochen Schirwagen. Contributors include Claudio Atzori, Miriam Baglioni, Alessia Bardi, Andreas Czerniak, Natalia Manola, and Eloy Rodriguez. The page also features a preview of the document content and a sidebar with various metadata fields like 'Publication date', 'DOI', 'Keyword(s)', and 'Grants'.



# Beneficiari ai serviciilor OpenAIRE

## Researcher?

Explore all OA research outcomes.  
Link all your research. Build your profile

[OPENAIRE | EXPLORE](#)

## Content provider?

Join OpenAIRE, use our tools and  
make your content more visible  
around the world.

[OPENAIRE | PROVIDE](#)

## Research manager?

Use our monitoring services and  
easily track all relevant research  
results.

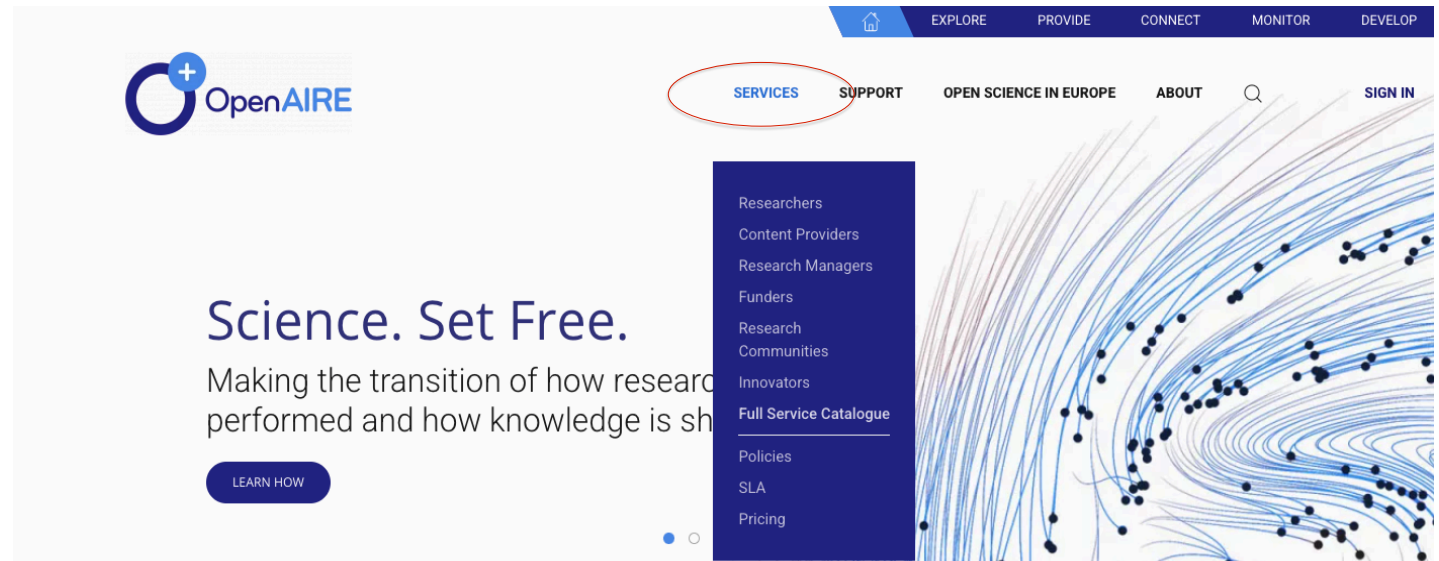
[OpenAIRE.MONITOR](#)

# Catalogul de servicii OpenAIRE



## Services

Researchers, research community, content provider, manager of research, funders, innovators, and other



<http://catalogue.openaire.eu/>





# Servicii OpenAIRE pentru cercetători

➤ OpenAIRE Explore <https://explore.openaire.eu/>

➤ Training:

Workshopuri <https://www.openaire.eu/workshops>

Webinarii <https://www.openaire.eu/frontpage/webinars>

➤ Materiale utile – ghiduri, factsheets

<https://www.openaire.eu/guides>

<https://www.openaire.eu/factsheets>

➤ FAQs <https://www.openaire.eu/faqs#article-id-110>





- **SEARCH** > descoperi ce date de cercetare sunt interconectate
- **SHARE** > depozitezi într-un depozit potrivit
- **LINK** > interconectezi rezultatele provenite din cercetare

<https://explore.openaire.eu/>



## Researcher?

Explore all OA research results.  
Link all your research. Build your profile

**OpenAIRE.EXPLORE**

# o Serviciul OpenAIRE Explore

← → ↻ explore.openaire.eu/search/find?qf=true&active=result ☆ C



EXPLORE PROVIDE CONNECT MONITOR DEVELOP

SEARCH DEPOSIT LINK CONTENT PROVIDERS SIGN IN

All content Search for research outcomes, projects, content providers & organizations in OpenAIRE

SEARCH

Advanced Search

RESEARCH OUTCOMES (57,381,870) PROJECTS (2,842,114) CONTENT PROVIDERS (78,241) ORGANIZATIONS (149,933)

## Filters

Open Access

Results per page:

10

Sort by:

Relevance

Download Results

Access Mode (1) Clear

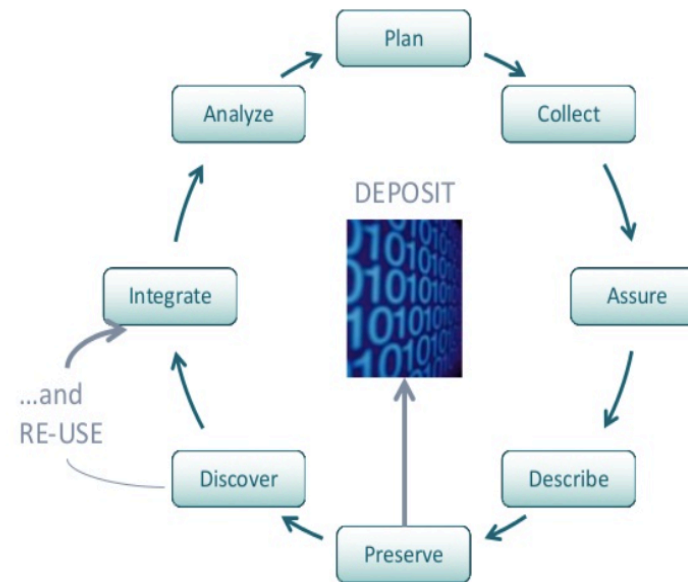
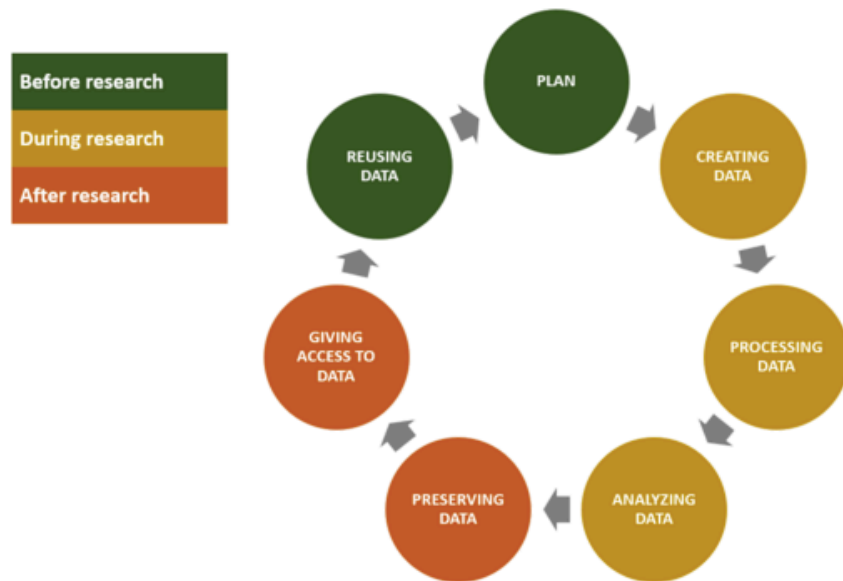
Open Access (57,381,870)

57,381,870 RESEARCH OUTCOMES, PAGE 1 OF 5,738,187

1 2 3 4 5 >



# Depozitarea datelor provenite din cercetare



The DataONE lifecycle model

<https://www.tue.nl/en/our-university/library/rdm/research-data-life-cycle/#top>

<https://old.dataone.org/data-life-cycle>



# Depozite digitale (repositories)

Depozitul digital este o “arhivă online” pentru stocarea obiectelor digitale care necesită un spațiu de păstrare atât pe termen scurt cât și pe termen lung.



Home > Deposit

## Deposit or publish your research in Open Access



### Find the appropriate repository or journal

Find the appropriate repository to deposit your research products of any type (publication, data, software, other) or to include in your data management plan. Search and browse for OpenAIRE compliant repositories registered in OpenDOAR and re3data.

Looking for Open Access journals? Find those that suit your needs among the journals registered in the Directory of Open Access Journals (DOAJ).

To know more, read the OpenAIRE Open Access primer (<https://www.openaire.eu/oa-basics>)



### Deposit

Find the repository to deposit your research or use the Zenodo repository.



### Publish

Find the Open Access journals that suit your needs among those registered in the Directory of Open Access Journals (DOAJ).

Search by title, country, organization, subject, type...

SEARCH

[Browse all](#)

OR

DEPOSIT IN ZENODO →

<https://www.openaire.eu/oa-basics>



<https://zenodo.org/>

- Depozit digital general – pentru toate domeniile de cercetare
- Inițiativă OpenAIRE și CERN
- Publicațiile integrate primesc cod DOI (Digital Object Identifier)
- Permite crearea de comunități pentru workshop-uri, jurnale academice



<https://www.openaire.eu/zenodo-guide>

# Depozitele digitale cu acces deschis vs rețelele sociale academice

	Open access repositories	Academia.edu	ResearchGate
Supports export or harvesting	Yes	No	No
Long-term preservation	Yes	No	No
Business model	Nonprofit (usually)	Commercial. Sells job posting services, hopes to sell data	Commercial. Sells ads, job posting services
Sends you lots of emails (by default)	No	Yes	Yes
Wants your address book	No	Yes	Yes
Fulfills requirements of UC's OA policies	Yes	No	No



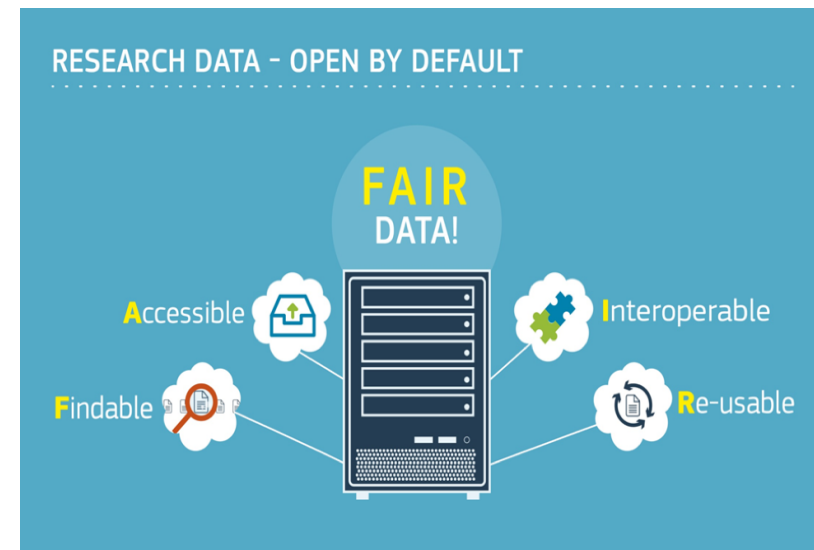
 <http://creativecommons.org/licenses/by/4.0/> University of California OSC



# Interconectarea infrastructurilor de date

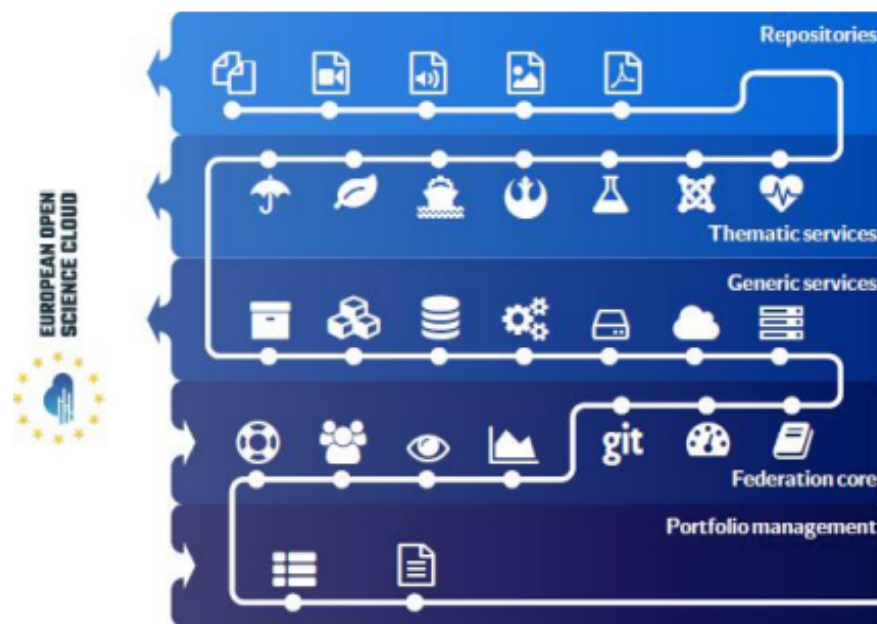
Pentru a adera la Cloud-ul european pentru știință deschisă (**European Open Science Cloud-EOSC**), depozitele digitale trebuie să îndeplinească următoarele cerințe:

- să fie **Open Access** permițând partajarea și reutilizarea datelor (<https://www.openaire.eu/making-your-repository-open>)
- să respecte **principiile FAIR** (Identificabile, Accesibile, Interoperabile, Reutilizabile) (<https://www.openaire.eu/how-to-make-your-data-fair>)



# Rolul infrastructurii OpenAIRE pentru EOSC

- oferă servicii suport pentru furnizorii de conținut pentru facilitarea integrării diverselor seturi de date în EOSC
- este o infrastructură de date care permite comunicarea științifică, conectarea și federalizarea depozitelor digitale (repositories) și serviciilor între instituții



# OpenAIRE services placed in EOSC

**Guidelines:** Setting compliance of EOSC data sources



# Servicii OpenAIRE pentru integrarea depozitelor in EOSC

## OpenAIRE ofera 2 servicii cheie:

- **Ghidurile OpenAIRE** pentru schimbul de metadate, o interfață comună și un mecanism cheie de acces utilizat de furnizorii de conținut (literature, date, software, metode, fluxuri de lucru) de la infrastructurile naționale din întreaga lume
- **OpenAIRE Research Graph**, un set de date descentralizat, de încredere, interoperabil care conține toate resursele EOSC interconectate



# Servicii OpenAIRE pentru furnizorii de conținut

- OpenAIRE Provide <https://provide.openaire.eu/>
- OpenAIRE Explore <https://explore.openaire.eu/>

## ➤ Training:

Workshopuri <https://www.openaire.eu/workshops>

Webinarii <https://www.openaire.eu/frontpage/webinars>

- Ghiduri pentru compatibilitatea depozitelor digitale cu infrastructura OpenAIRE

<https://www.openaire.eu/guides>

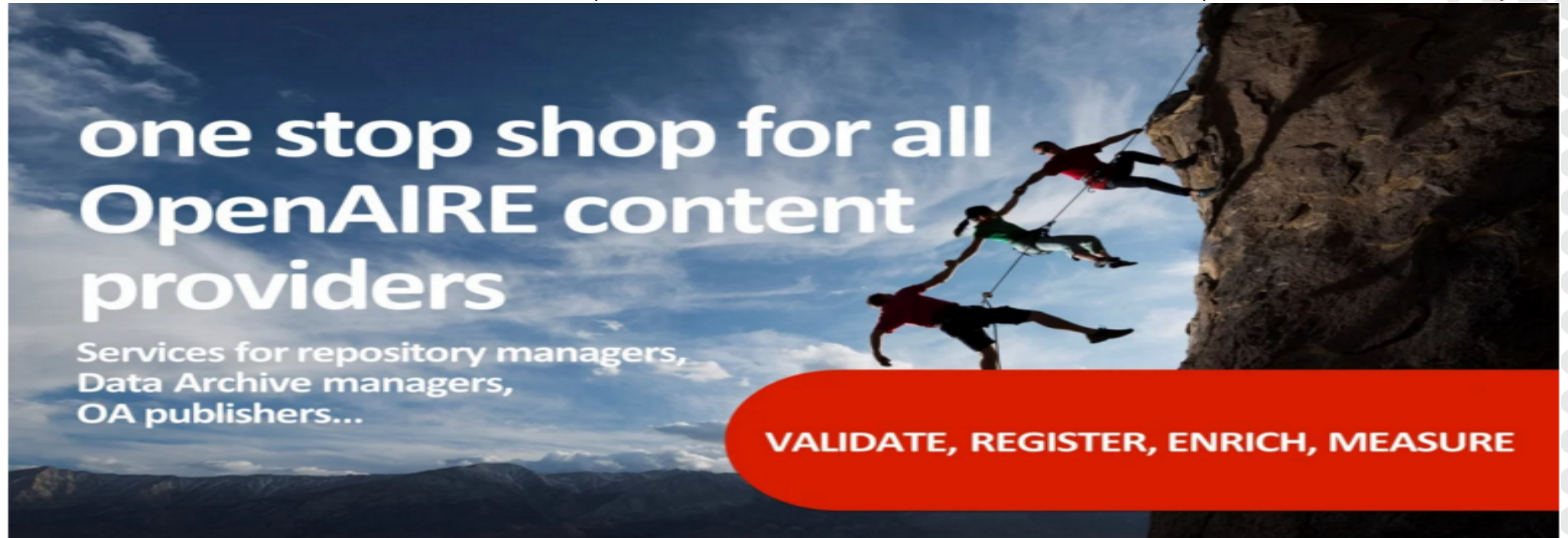
- FAQs <https://www.openaire.eu/faqs#article-id-110>

### Content provider?

Join OpenAIRE, use our tools and make your content more visible around the world.

OPENAIRE | PROVIDE



The banner features a background image of three rock climbers on a cliff face against a blue sky with clouds. On the left, the text "one stop shop for all OpenAIRE content providers" is written in large white font. Below it, in smaller white font, are the services: "Services for repository managers, Data Archive managers, OA publishers...". On the right, a red rounded rectangle contains the text "VALIDATE, REGISTER, ENRICH, MEASURE" in white capital letters.

**one stop shop for all  
OpenAIRE content  
providers**

Services for repository managers,  
Data Archive managers,  
OA publishers...

**VALIDATE, REGISTER, ENRICH, MEASURE**

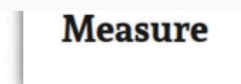
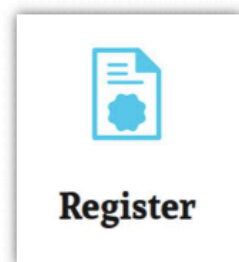
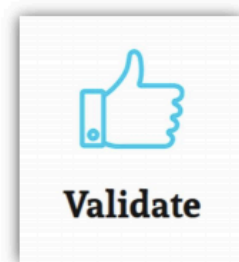
Serviciu web de tip “one-stop-shop” unde furnizorii de conținut (depozite de date, arhive de date, reviste, sisteme informatice de tip agregator, sisteme informatice de tip “CRIS”) interacționează cu OpenAIRE

Oferă acces front-end pentru majoritatea serviciilor back-end OpenAIRE.

# OpenAIRE Content Provider Dashboard

## FUNCȚIONALITĂȚI:

- Validare surse de date
- Înregistrare surse de date
- Statistici de utilizare a surselor de date
- Îmbogățirea conținutului  
Notificări privind conținutul surselor de date



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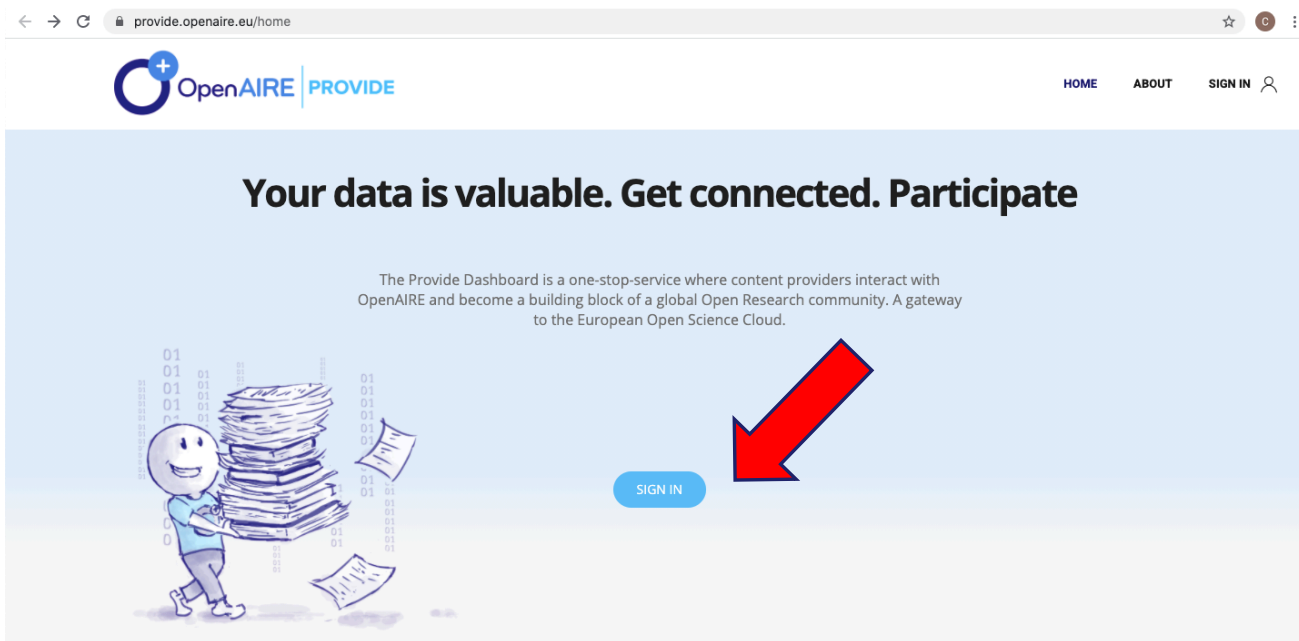
OPENAIRE | PROVIDE

<https://guidelines.openaire.eu/en/latest/>



# Accesarea OpenAIRE Content Provider Dashboard

<https://provide.openaire.eu/home>



 OpenAIRE  
Single Sign On

Log in with



or

 OPENAIRE ACCOUNT

Need an account? [Sign up](#)

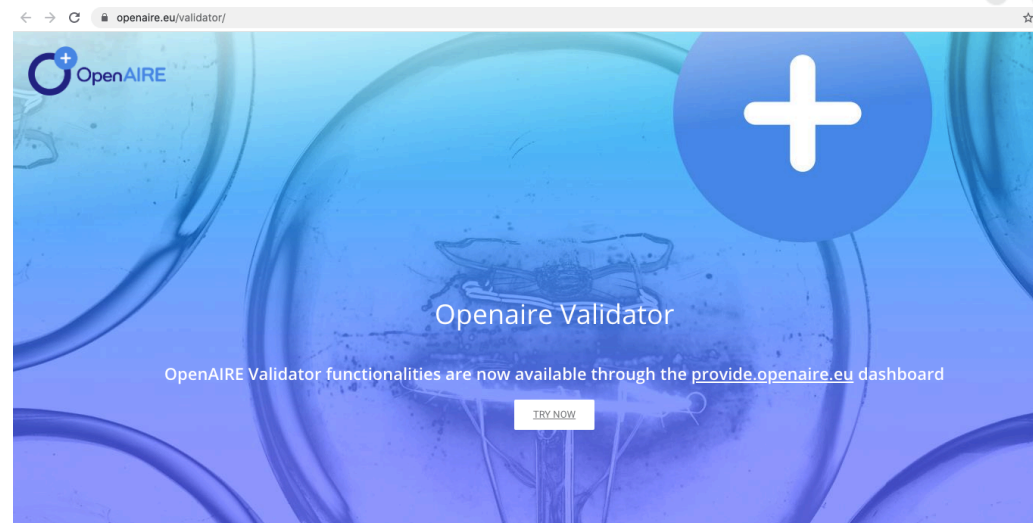
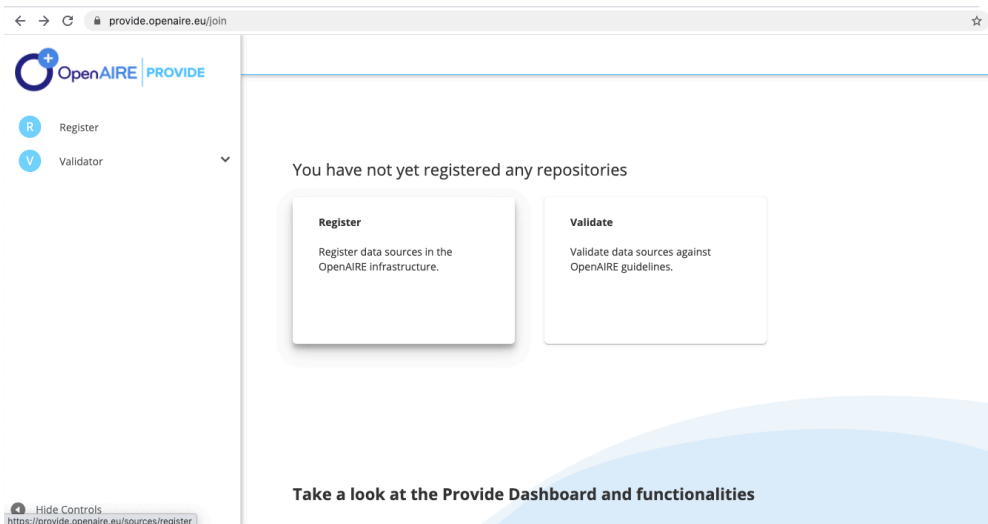




# Serviciul "Validator"

Prin intermediul acestui serviciu se poate verifica:

- calitatea implementării protocolului OAI-PMH
- compatibilitatea cu Ghidurile OpenAIRE



<https://www.openaire.eu/validator/>

# Etapele integrării unui depozit digital (repository) în OpenAIRE

## Serviciul “Validator”

**Pasul 1: Validarea** (rularea testului de compatibilitate cu ghidurile OpenAIRE)

- Cerință: implementarea protocolului **OAI-PMH**  
<https://guidelines.openaire.eu/en/latest/>

## Pasul 2: Înregistrarea

- Cerință: înregistrarea surselor de date în registrele **OpenDOAR** și **re3data**

<https://www.openaire.eu/validator-registration-guide>



Validator



Interoperability  
Guidelines

# OpenDOAR (Directory of Open Access Repositories)

Director global pentru depozite digitale open access

- Găzduiește depozite digitale care oferă acces deschis, liber la rezultatele și resursele de cercetare

5 depozite digitale din România înregistrate

<https://v2.sherpa.ac.uk/opendoar>

**Jisc**  
**OpenDOAR**



v2.sherpa.ac.uk/view/repository\_by\_country/Romania.html

Number of items: 5.

A			
ARTHRA	Type Institutional	Software DSpace	Country Romania
ASPECKT DSpace	Type Institutional	Software DSpace	Country Romania

D			
Digital library of the "Lucian Blaga" Central University Library Cluj	Type Institutional	Software DSpace	Country Romania

E			
ECOLIB-Library of National Research and Development Institute for Industrial Ecology	Type Institutional	Software DSpace	Country Romania
Erdélyi Digitális Adattár	Type Institutional	Software DSpace	Country Romania

# re3data (Registry of Research Data Repositories)

## Registrul depozitelor de date de cercetare

- Găzduiește depozite digitale de date din diverse discipline

1 depozit digital din România înregistrat



A screenshot of the re3data.org website showing search results for Romania. The browser address bar shows 're3data.org/search?query=&amp;countries[]=ROU'. The page has a search bar at the top right with a 'Search' button and a 'DataCite' logo. On the left, there is a 'Filter' sidebar with various categories like 'Subjects', 'Content Types', 'Countries', etc. The main content area shows 'Found 1 result(s)' and a single result for 'Romanian Social Data Archive' (Arhiva Română de Date Sociale). The result includes subject categories (Social Sciences, Social and Behavioural Sciences, Humanities and Social Sciences), content types (Scientific and statistical data formats, Plain text), and country (Romania). A description of RODA is provided at the bottom of the result box.

<https://www.re3data.org>



# Ghidurile OpenAIRE pentru furnizorii de conținut

**OpenAIRE** pune la dispoziție **ghiduri** aplicabile în funcție de sursa de date. Aceste ghiduri ofera suport pentru a defini și implementa politicile locale de gestionare a datelor în conformitate cu cerințele **OpenAIRE** și pentru a sprijini strategia **Open Access** a Uniunii Europene

- [OpenAIRE Guidelines for Literature Repositories;](#)
- [OpenAIRE Guidelines for Data Archives;](#)
- [OpenAIRE Guidelines for CRIS Managers;](#)
- [Draft OpenAIRE Guidelines for Software Repository Managers;](#)
- [Draft OpenAIRE Guidelines for Other Research Products](#)



<https://guidelines.openaire.eu/en/latest>



# Validarea depozitelor digitale (repositories)

Validate your datasource

Literature repository

Data repository

CRIS systems

OpenAIRE PROVIDE

Register

Validator

Validate

Validation History

Hide Controls



- Register
- Validator
- Validate**
- Validation History

## Run compatibility test

- Select dat...
- Select gui...
- Select par...
- Finish

Select base URL from one of your registered repositories

-- none selected --

or enter new

## Previous validations

Filter by job type

--none selected--

Jobs per page: 10

ALL JOBS (0) SUCCESSFUL (0) FAILED (0) ONGOING (0)

REPOSITORY	VALIDATION TYPE	STATUS	SCORE	ST/
No stored jobs found				

<https://provide.openaire.eu/compatibility/validate>



**VALIDATE**

# Înregistrarea și actualizarea depozitului digital (repository) de date

OpenAIRE PROVIDE

Register your datasource

Literature repository

Data repository

Journal

Aggregator

Select repository    Enter information    Add interfaces    Finish

1 Select Rep... 2 Enter Info... 3 Add Interf... 4 Finish

Please make sure your repository is registered in [OpenDOAR](#).  
Last Updated: 2020-05-13

Select country  
-- none selected --

**REGISTER**

<https://provide.openaire.eu/sources/register>



# OpenAIRE Broker Service

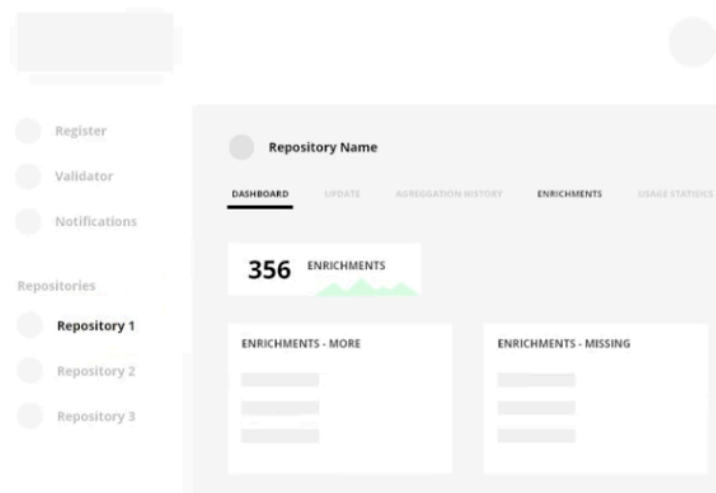
## OpenAIRE Notification Broker Service



- Serviciu prin intermediul căruia managerii surselor de date pot schimba/partaja metadate și îmbogăți colecția lor de metadate prin abonarea la diferite tipuri de notificări

# ENRICH

<https://www.openaire.eu/content-enrichment-guide>





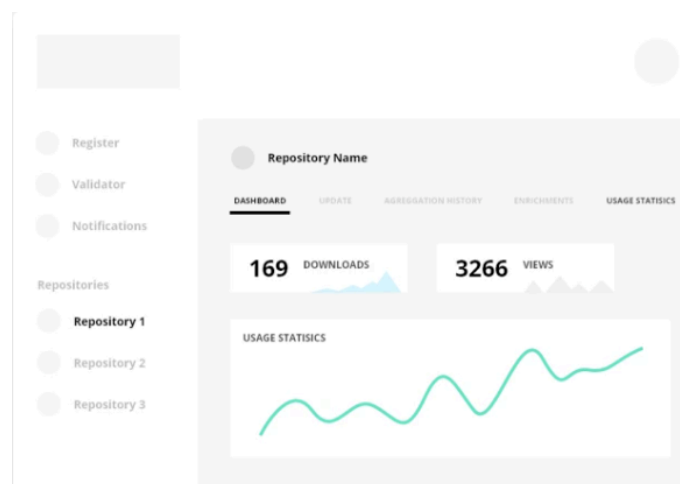
# OpenAIRE Usage Statistic



- Serviciu care colectează și analizează datele privind utilizarea depozitului, inclusiv numărul de descărcări și vizualizarea metadatelor, oferind posibilitatea generării de statistici și rapoarte

## MEASURE

[OpenAIRE Usage Statistics Guidelines](#)



## Linkuri utile

- Catalogul de servicii OpenAIRE <http://catalogue.openaire.eu>
- Open Acces-informații de bază și instrucțiuni pentru managementul datelor de cercetare  
<https://www.openaire.eu/os-primers>
- OpenAIRE Provide <https://provide.openaire.eu/>
- OpenAIRE Explore <https://explore.openaire.eu/>
- Ghidurile OpenAIRE <https://www.openaire.eu/guides>
- Webinarii <https://www.openaire.eu/frontpage/webinars>
- Workshopuri <https://www.openaire.eu/workshops>





*uefiscdi*

# MULȚUMESC!

<https://uefiscdi.gov.ro/open-science-hub>



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Open Science Hub RO  
facebook.com/groups/OShubRO



open-science@uefiscdi.ro