

June 2023



**OpenAIRE  
BROKER**

The logo icon consists of a stylized 'B' shape formed by horizontal lines of varying lengths, with arrows pointing to the right from the top and bottom segments.

**eBook**



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Welcome

# Metadata enrichment of Open Science scholarly records.

The OpenAIRE Broker is a [subscription & notification](#)-based service that helps [repository](#) managers to increase the quality of the metadata records available in their collections thanks to the added value information available in the OpenAIRE Graph.



Claudio Atzori

"An enabling aspect for Open Science is the quality of the scholarly communication records and their interconnection. Being part of the OpenAIRE network, repositories are not anymore isolated silos of information and thanks to the Broker service they can exchange information, as well as get back added value from the OpenAIRE Graph, increasing the overall quality and FAIRness of their metadata collections."

Service manager



**Team Member**

André Vieira

# Core Team



**Team Member**

Pedro Príncipe



**Back-end  
Developer**

Michele Artini



**IT System  
Administrator**

Sebastian Tymkow



**Front-end  
Developer**

Stefania Martziou



# Towards open, high quality metadata records.

Repositories contribute their metadata collections to the OpenAIRE Graph. The OpenAIRE Broker service returns enriched metadata back to the repository managers.





+260

### Subscribers

Since 2018, 260 **repository managers** subscribed to the Broker service.

+280

### Subscriptions

Subscribers which created subscription to more than one enrichment topic.

>1400

### Repositories

Whose research products are enriched in the OpenAIRE Graph.

14

### Enrichment topics

Including missing funding references, ORCID, Open Access versions, extra subject classifications.



## Problem

**The quality of the metadata records is a driving aspect to ease the implementation of the Open Science practices**

Poor metadata quality has historically been a limiting aspect for the discoverability of the research outputs, as well as for many other application that work on top of the metadata records.

Enrich the local metadata collections with the Broker Service

# Effective Solution



The Broker service is yet another reason to register a repository in OpenAIRE: the bibliographic records are collected, disambiguated, enriched in the Graph, and then the Broker makes the enrichments available to be collected back to the repositories.

Register via [OpenAIRE PROVIDE](#) and start exploring the enrichments available for your repository.



1

## Stay up to date with the enrichments from the OpenAIRE Graph

An algorithm scans the OpenAIRE Graph in search for the enrichments pertinent to your repository.



2

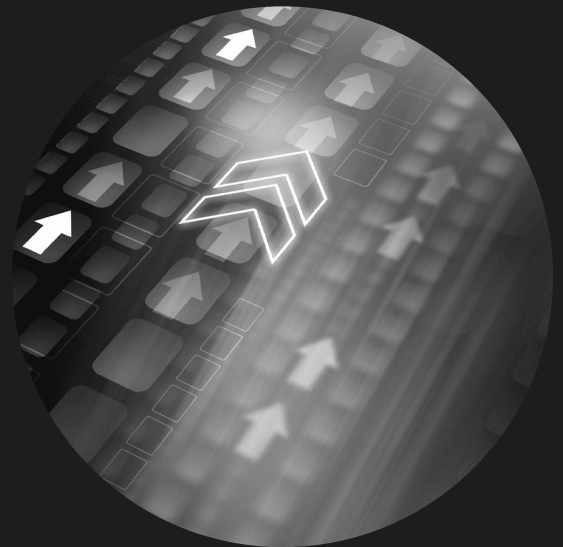
## Enrichments derived from >1400 world-wide trusted Scholarly communication sources

Examples include Crossref, Institutional and thematic repositories, ORCID, and much more.

3

## Transparent delivery of the added value

Enrichments come with a trust level.



# Benefits



## Open Access versions

Get informed about missing or other open access version of a publication.

## Project reference

Enrich a publication with a reference to a funding project.

## Result subject

Enrich a publication with further classification terms from various taxonomies – ArXiv, ACM, DDC, JEL, MeSH.

## Abstract

Enrich a publication with the abstract text (in case it was missing).

## Result PIDs

Enrich a publication with persistent identifiers – DOI, arXiv, PMID.

## Publication date

Enrich a publication with its publication date (in case it was missing).

## ORCID

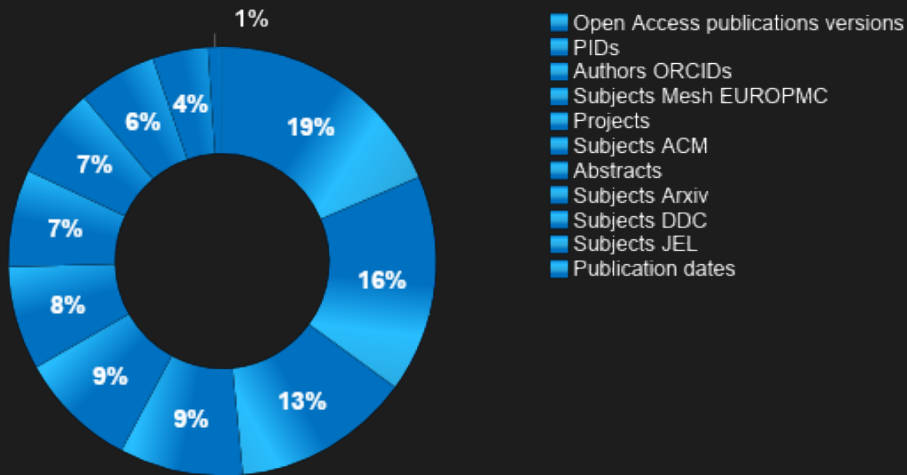
Enrich the author descriptions with their ORCID.

## Fields of Science (FoS) & Sustainable Development Goals (SDGs) Coming soon!

Enrich a publication with extra classifications, Fields of Science and Sustainable development goals.

# Broker metadata enrichment topics

# OpenAIRE Broker actions



## Statistics

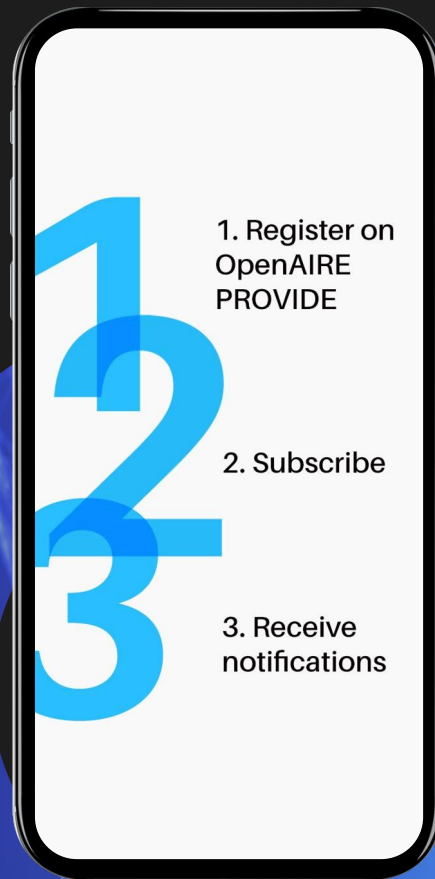
The following statistics show the users preferred method to login, by selecting one of the available options in one year (mid 2022-mid 2023).

19%	<b>Open Access publications versions</b>	Enrichments of the versioning of publications
21%	<b>PIDs</b>	Enrichments of PIDs
17%	<b>Authors ORCID</b>	Enrichments of missing information on authors ORCID
13%	<b>Subjects EUROPMC</b>	Enrichments of subjects of EUROPMC
9%	<b>Projects</b>	Enrichments of missing metadata about projects
8%	<b>Subjects ACM</b>	Enrichments of missing metadata of subjects of ACM
7%	<b>Abstracts</b>	Enrichment of missing metadata of abstracts

# Register your repository on OpenAIRE PROVIDE

# Subscribe to OpenAIRE Broker

# Start receiving periodic notifications about the enrichments



# How to enable the OpenAIRE Broker service

1

## Register your repository on OpenAIRE PROVIDE

Navigate and filter the enrichments available as a preview.



2

## Create a subscription

The topic selection and the filtering criteria are saved as part of your subscription



3

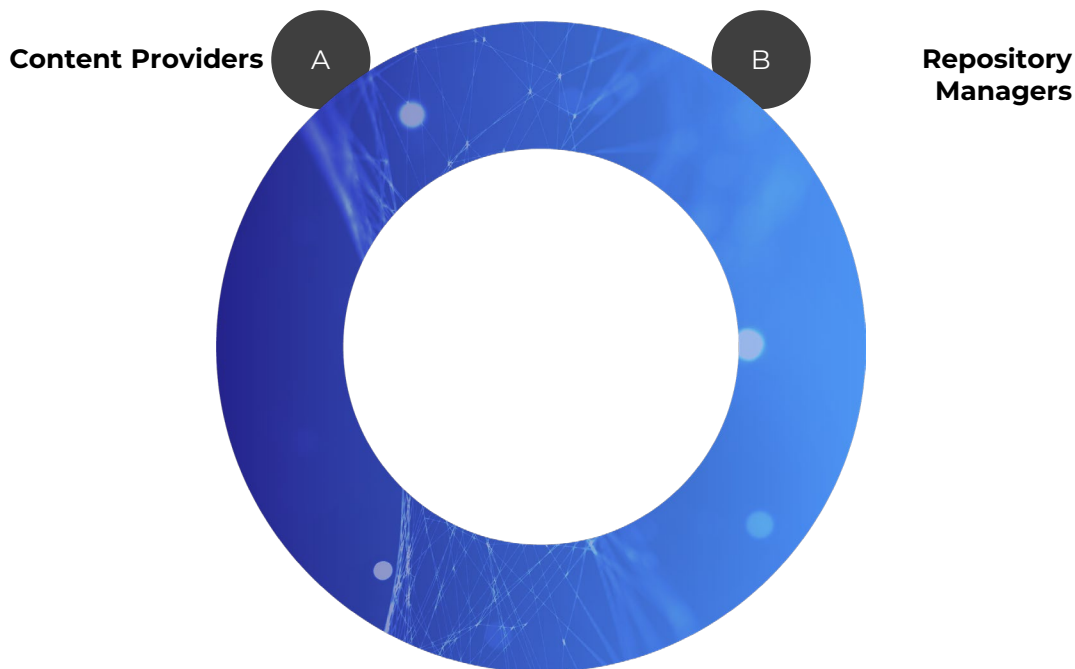
## Start receiving periodic notifications about the enrichments

The enrichments can be explored on PROVIDE, or be consumed via the Broker service API available at

<https://graph.openaire.eu/develop/broker.html>



# Broker in details



## Business Model

A

### Content Providers

Register your repositories to OpenAIRE PROVIDE, and benefit from the OpenAIRE Broker service, for **free**.

B

### Repository Managers

Repository managers admin and have transparent and clear view of the metadata enrichments suggested by the OpenAIRE Broker service. The service is available for **free**, via OpenAIRE PROVIDE.

For more information, please visit:  
<https://catalogue.openaire.eu/service/openaire.broker/pricing>

## OpenAIRE Broker is a handful service towards up-to-date metadata.



OpenAIRE Broker was developed in 2017 in the context of the OpenAIRE CONNECT project and it became fully operational during 2018. It targeted literature repositories, while later we introduced the support for other datasource typologies. More enrichment topics like the ORCID, and a public API were introduced later in 2020.



For more information on the latest MONITOR developments, please view the service roadmap:

<https://trello.com/b/JHbHKLZ4/openaire-provide-roadmap>



# Broker history

Together we enrich!

# Let's build a better Open Science starting from better metadata

We look forward to working together and helping you  
unlock the full potential of your research artefacts  
through Open Science.



# Thanks



You are more than welcome to join the PROVIDE [community calls](#) and be part of the community.



**Website:**

<https://provide.openaire.eu>

**Catalogue of services:**

<https://catalogue.openaire.eu/service/openaire.broker/overview>

**Support:**

[helpdesk@openaire.eu](mailto:helpdesk@openaire.eu)