

Pedro Príncipe

University of Minho. OpenAIRE Support Director.

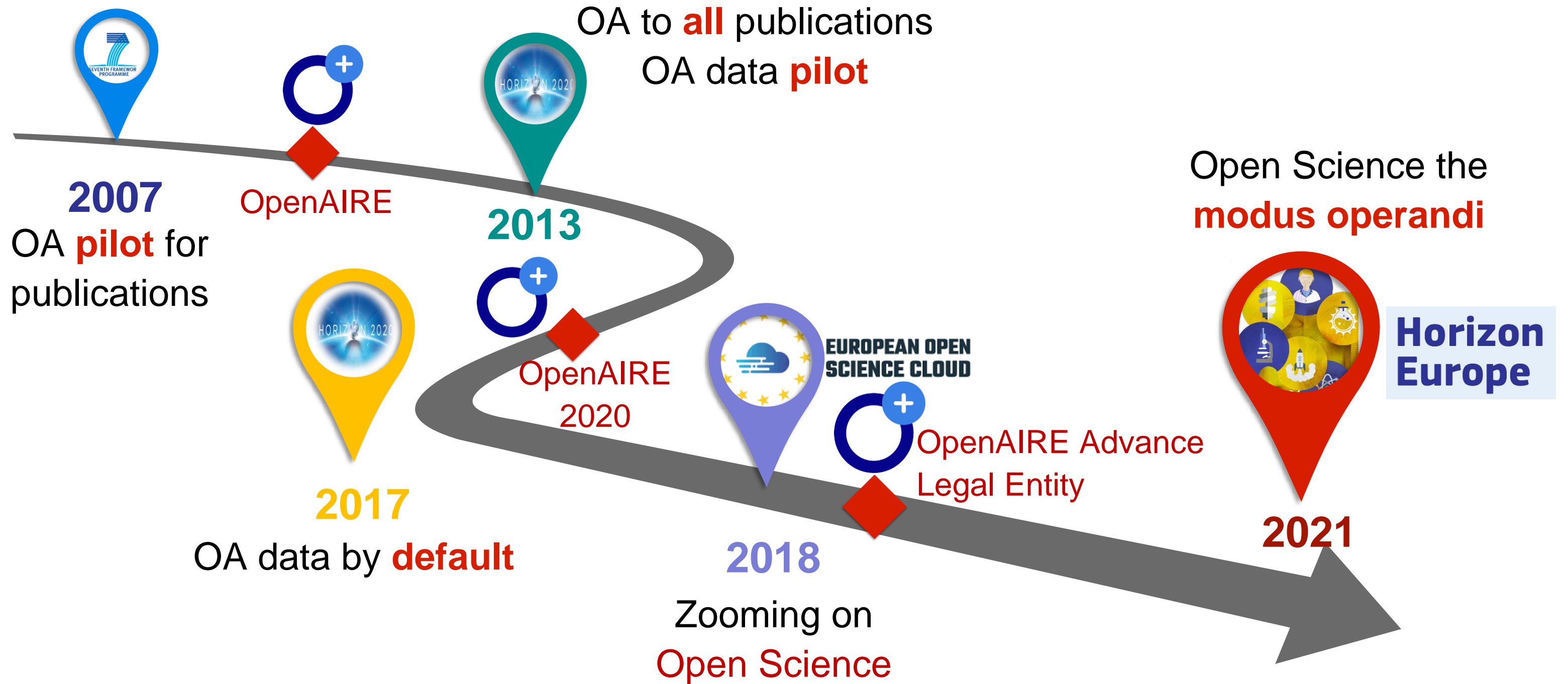
OpenAIRE

Infraestructuras, recursos y servicios

El papel de las bibliotecas biomédicas en el contexto del acceso abierto

Instituto de Salud Carlos III en Madrid, 14 de junio, 2019

Open Science en la UE y el proyecto / infraestructura OpenAIRE



Quienes somos

- **En operación 24x7 desde diciembre 2010**
- **Financiación de la CE (2009-2020)**
 - OpenAIRE (2009-2012)
 - OpenAIREplus (2012-2014)
 - OpenAIRE2020 (2015-2018)
 - OpenAIRE Advance (2018-2020)
- **Consortio de más de 50 socios**
- **Una entidad jurídica en 2018**

Open Access / Science expertos

Expertos en información y ciencias de la computación

Expertos en temas legales

Comunidades de datos

Expertos en innovación abierta

Ciencia ciudadana (escuelas)

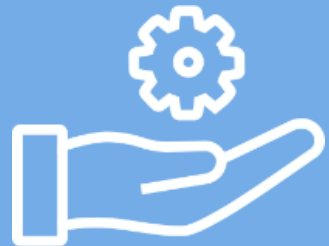


POLICIES

Aligning



**3 PILARES
DE ACCIÓN**



SERVICES

Connecting



TRAINING

Empowering

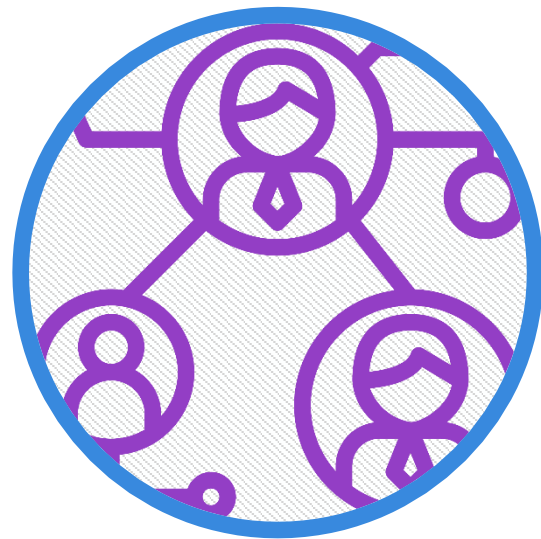
3 NIVELES DE OPERACIÓN



OpenAIRE

OpenAIRE National Open Access Desks

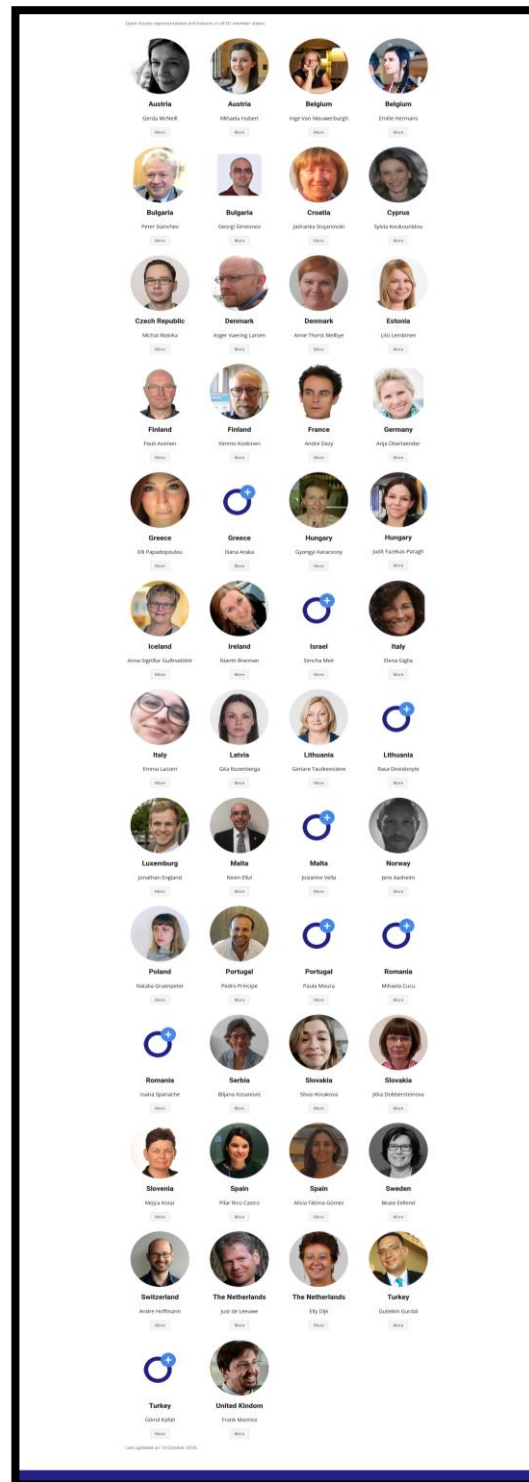
Representantes y puntos de contacto de acceso abierto en todos los estados miembros de la UE



Outreach



Support

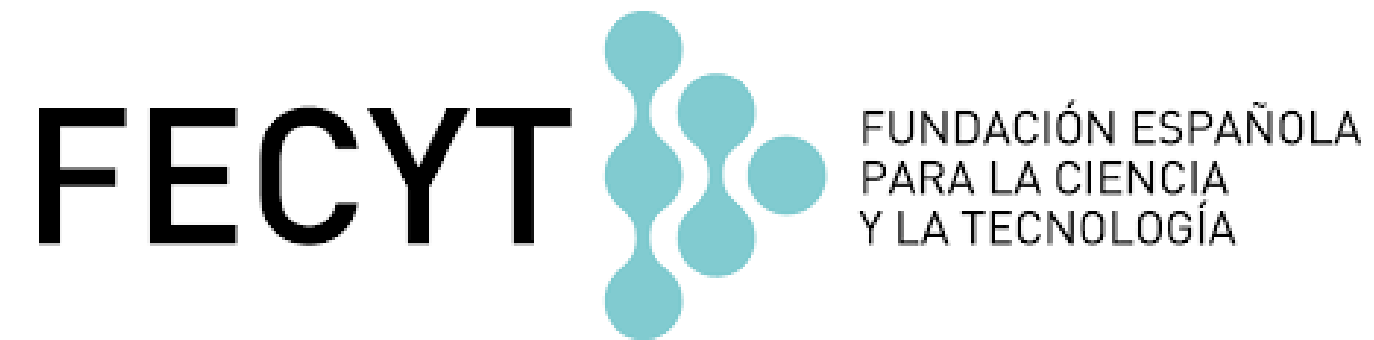


Training



Policy

OpenAIRE NOAD in Spain



Spain

Pilar Rico Castro



Spain

Alicia Fátima Gómez

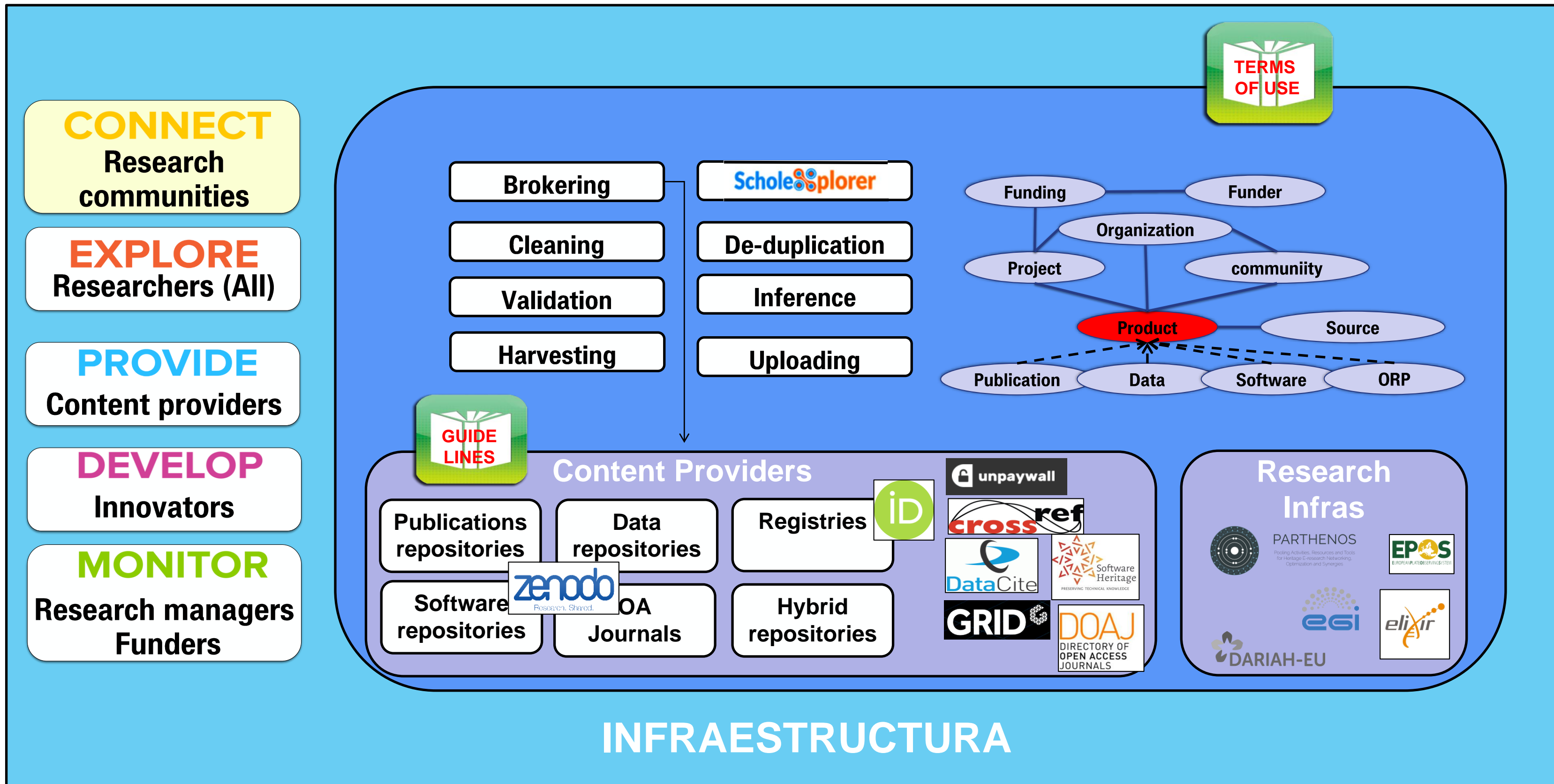


Spain

Laura Valeria Bonora

<https://www.openaire.eu/contact-noads>

Visión general de Infraestructura y servicios OpenAIRE



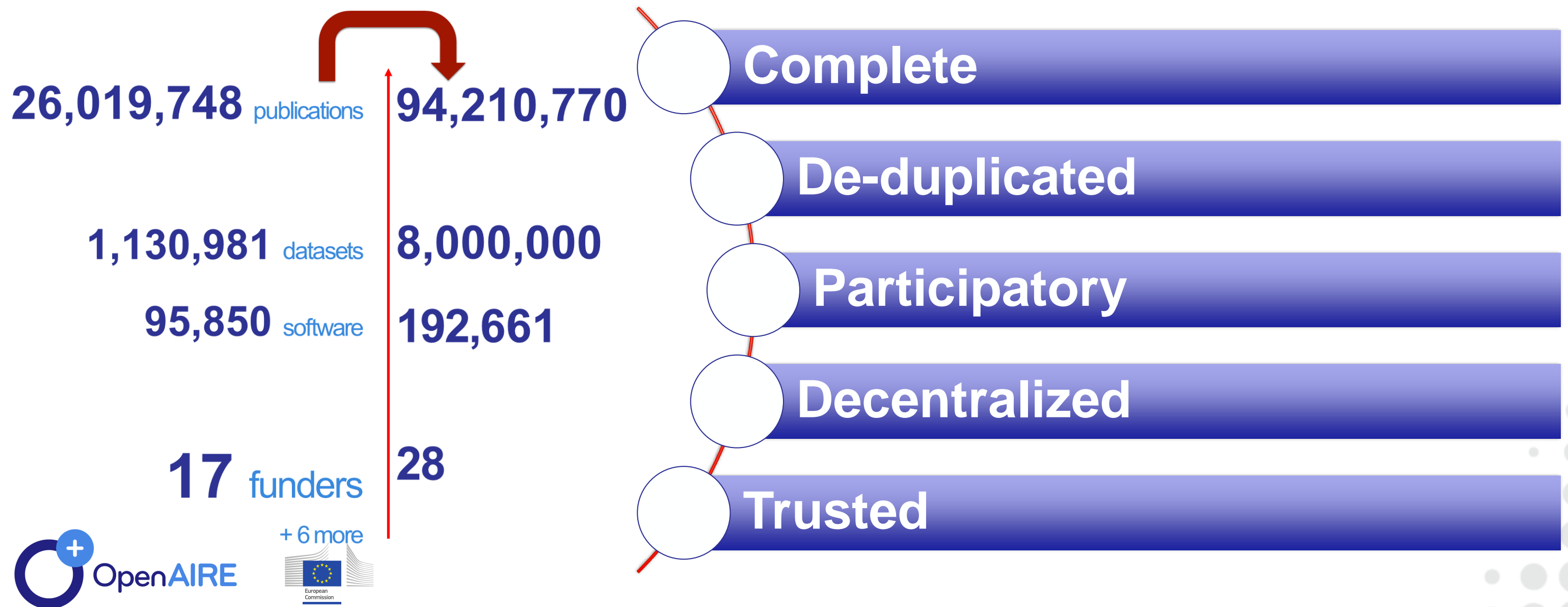
OpenAIRE graph expansion

Nueva política de
adquisición de contenidos

*an academic graph aggregating
all information required to deliver
monitoring tools*

OpenAIRE research graph

Creación y mantenimiento de un **open metadata research graph** de productos científicos **interconectados**, con información de **acceso abierto**, vinculado a **información de financiamiento y comunidades**.



**UNA INFRAESTRUCTURA DE
BASE PARTICIPATIVA**

**REPOSITORIOS COMO
INFRAESTRUCTURA**

**RED DE
REPOSITORIOS**

**OpenAIRE y EL PODER DE
LOS REPOSITORIOS**

A person is silhouetted against a vast, starry night sky. The Milky Way galaxy is visible, stretching across the upper half of the frame. The colors of the galaxy range from deep blue and purple to bright green and yellow. The person is standing on a dark, rocky outcrop, looking up at the stars.

Cada repositorio individualmente puede ser valioso para su institución o comunidad.

Pero cada repositorio solo tiene un valor muy limitado...

EL VALOR DE LOS REPOSITARIOS



El valor real de los repositorios recae en el **potencial de interconexión para crear una red** de repositorios, una red que puede proveer un acceso unificado a los resultados de la investigación y son (re-) utilizados por las máquinas y los investigadores.

El caso de Interoperabilidad para Repositorios de Acceso Abierto - COAR Briefing Paper



OpenAIRE



Una mirada:

servicios, herramientas y desarrollos para investigadores, proyectos, gestores de repositorios, bibliotecarios, gestores de ciencia...

OpenAIRE Services

From basic infrastructure level to value added



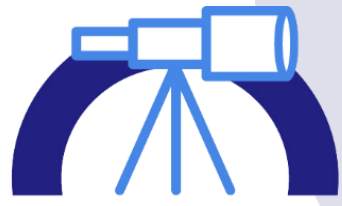
Research Analytics



Institution Monitoring Dashboard



Funder Monitoring Dashboard



Open Science Observatory



easyDMP



Anonymization



Search & Share



OpenAIRE | **CONNECT**



OpenAIRE | **MONITOR**



OpenAIRE | **EXPLORE**



OpenAIRE | **PROVIDE**



OpenAIRE | **DEVELOP**



Usage Analytics



Interoperability Guidelines



OA Broker



APIs



Validator



Helpdesk



Zenodo



Training

www.openaire.eu

Content provider?

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

OpenAIRE.PROVIDE

provide.openaire.eu

Research manager?

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

OpenAIRE.MONITOR

monitor.openaire.eu

Research community?

Use a trusted partner to share, link, disseminate and monitor your research.

OpenAIRE.CONNECT

connect.openaire.eu

Researcher?

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

OpenAIRE.EXPLORE

explore.openaire.eu

Developer?

Get access to OpenAIRE data and capitalize on on Europe's open linked research

OpenAIRE.DEVELOP

develop.openaire.eu

Discover linked Open Research

Search for research results,
projects, content providers
and organizations

EXPLORE.

OpenAIRE Discovery service

Search for research results, projects, content providers & organizations in OpenAIRE



Publications

Research Data

Software

Other Research
Products

Projects

Content Providers

Organizations

Funder

European Commissi... (600,379)
National Institutes of... (205,280)
National Science Fou... (183,827)
Wellcome Trust (66,126)
Research Council UK (55,622)

[View more](#)

Access Mode

Open Access (25,118,841)

Project

ICEDIG (263,097)
ASIA (3,833)
Programs on Critical ... (1,849)
EUROfusion (1,562)
COLLMOT (1,271)

[View more](#)

Type

Article (13,617,077)

Publication Date

2016 (1,819,078)
2015 (1,810,410)
2017 (1,751,724)
2014 (1,747,851)
2013 (1,602,859)

[View more](#)

Language

English (13,315,412)

Researcher?

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

OpenAIRE.EXPLORE

<https://explore.openaire.eu>



Explore

Discover linked open
research



Share

Deposit in a repository
of your choice



Link

Connect all your
research



one stop shop for all OpenAIRE content providers

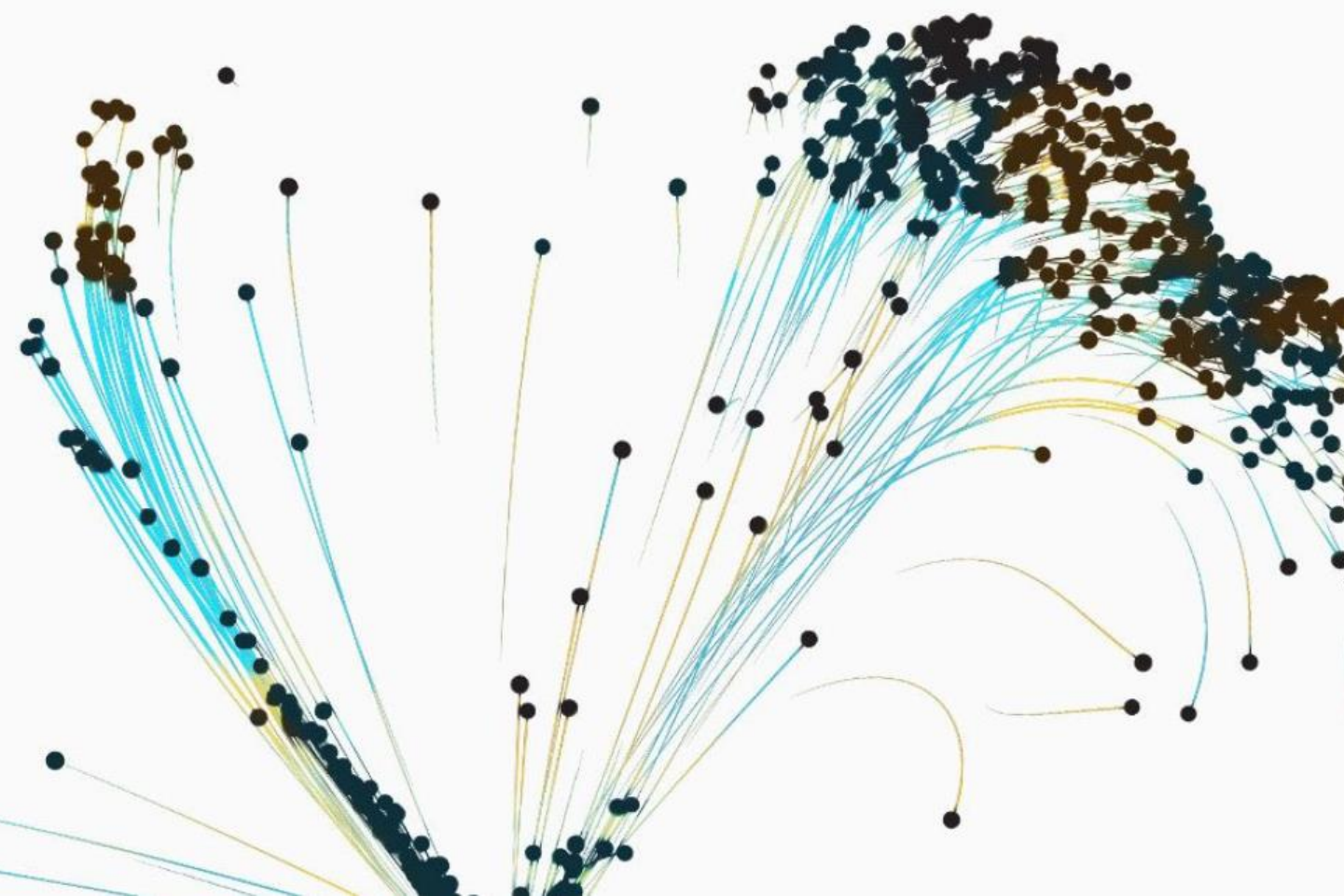
Services for repository
managers, OA publishers

**DASHBOARD
FOR CONTENT PROVIDERS**

Content Provider Dashboard

A one-stop-shop for sharing,
finding and enriching your
content

[START HERE](#)



Content provider?

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

[OpenAIRE.PROVIDE](#)



Validate

Interoperable metadata is key for effective content sharing.



Register

Reach a wider audience around the world



Enrich

Improve your metadata. Get more connections



Measure

Open research impact empowers Open Science

provide.openaire.eu



Validator



Interoperability Guidelines



OA Broker



Usage Analytics



Validate



Register



Enrich



Measure

In production since October 2018

DASHBOARD USAGE



TARGET USERS

Repository managers (pubs, data), libraries, content providers, publishers, national aggregators.

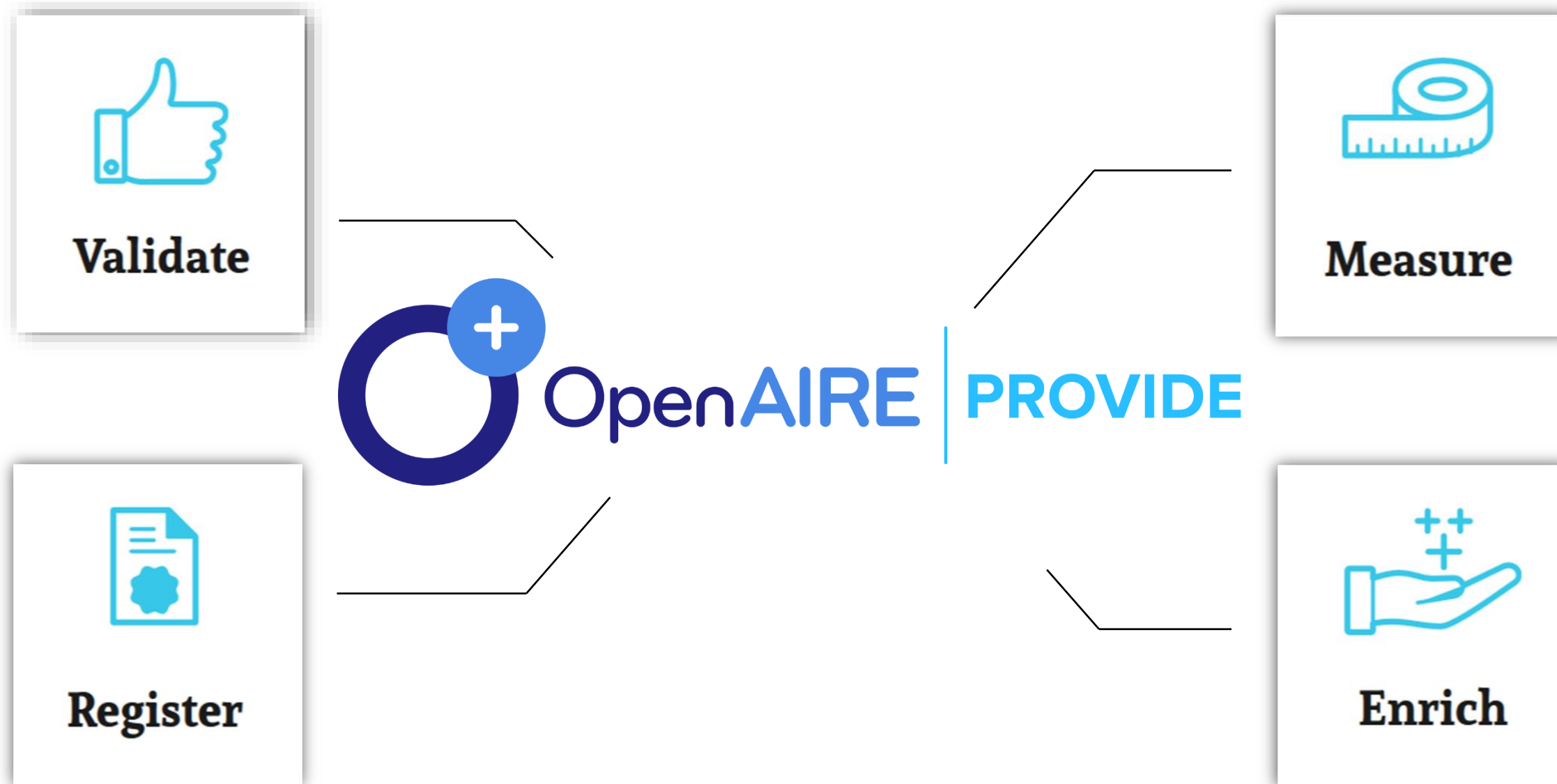
USER BASE

800 content providers have used the registration and validation service (*V1 focused on literature repos, 1250 all types for V2*).

USER VALUE

Improve repository collections and content for enhanced **visibility** and access. Improved institution memory. Better institution research assessment. **Compliance to funder rules**. Improve repository **interoperability**.

WHAT IT IS & WHAT IT DOES



One-stop-shop web service where content providers (repositories, data archives, journals, aggregators, CRIS systems) interact with OpenAIRE. It provides the front-end access to many of OpenAIRE's backend services.



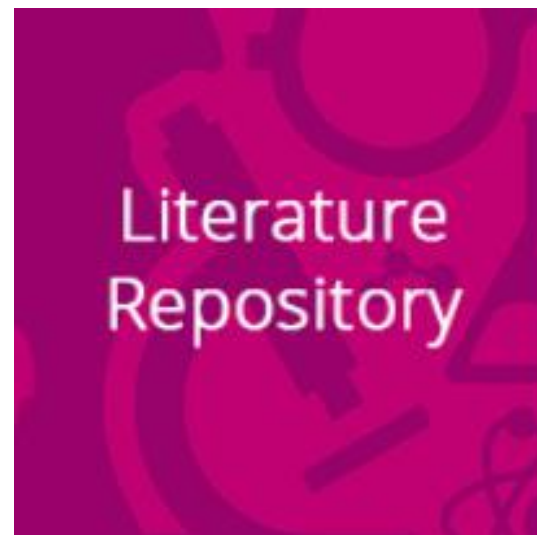
VALIDATE

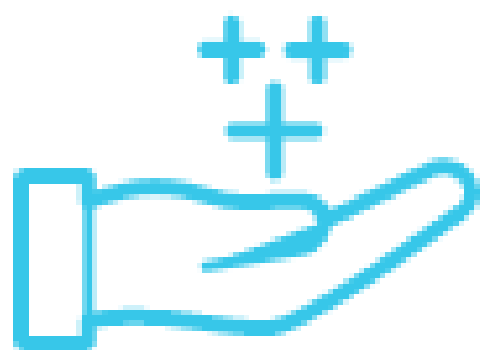
Validation service – Interoperable metadata is key for effective content sharing



REGISTER

Data source registration – Reach a wider audience around the world





ENRICH

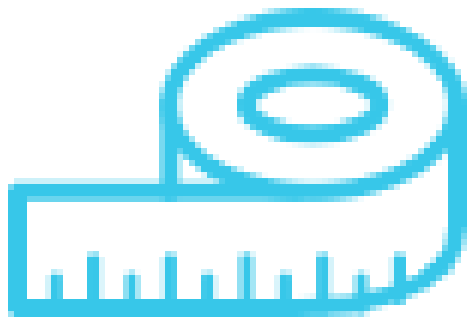
Improve your metadata. Get more connections

OA Broker service offers a wealth of information on scholarly communication data.

Find out what interests you and subscribe to enrich your records.

More & Missing events that may enrich your Repository:

- **Persistent identifiers**
- **Open Access Versions**
- **Projects**
- **Subjects**
- **Abstracts**
- ... datasets, software



MEASURE

Open research impact empowers Open Science

Open Metrics service by sharing your usage data.
Get the benefit of an aggregated environment to
broaden the mechanisms for impact assessment.

Get usage statistics reports for your datasource

AR1

Article Report 1, number of successful
article download requests by month and
repository.

IR1

Item Report 1, number of successful item
download requests by month and
repository.

RR1

Repository Report 1, number of successful
item downloads for all repositories
participating in the usage statistics service.

BR1

Book Report 1, number of successful title
requests by month and title.

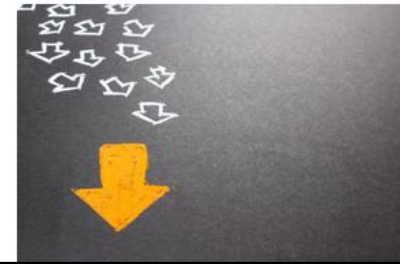
BR2

Book Report 2, number of successful section
requests by month and title.



Register

Register data sources in the OpenAIRE infrastructure



Validate

Validate data sources against OpenAIRE guidelines

Recent aggregation history for Universidade do Minho: RepositoriUM

2019-06-02
Aggregation stage - TRANSFORM
Number of records - 58020
Is the indexed version - No

2019-06-02
Aggregation stage - COLLECT
CollectionMode - REFRESH
Number of records - 58582
Is the indexed version - Yes

2019-05-24
Aggregation stage - TRANSFORM
Number of records - 58020
Is the indexed version - No

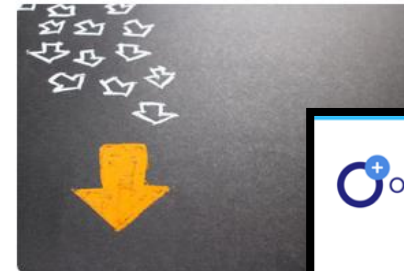
2019-05-24
Aggregation stage - COLLECT
CollectionMode - REFRESH
Number of records - 58582
Is the indexed version - No

Collection monitor provides the aggregation history



Register

Register



Validate



Log out

Get usage statistics report for Universidade do Minho: RepositoriUM

Supported Reports

AR1

Article Report 1, number of successful article download requests by month and repository.

IR1

Item Report 1, number of successful item download requests by month and repository.

RR1

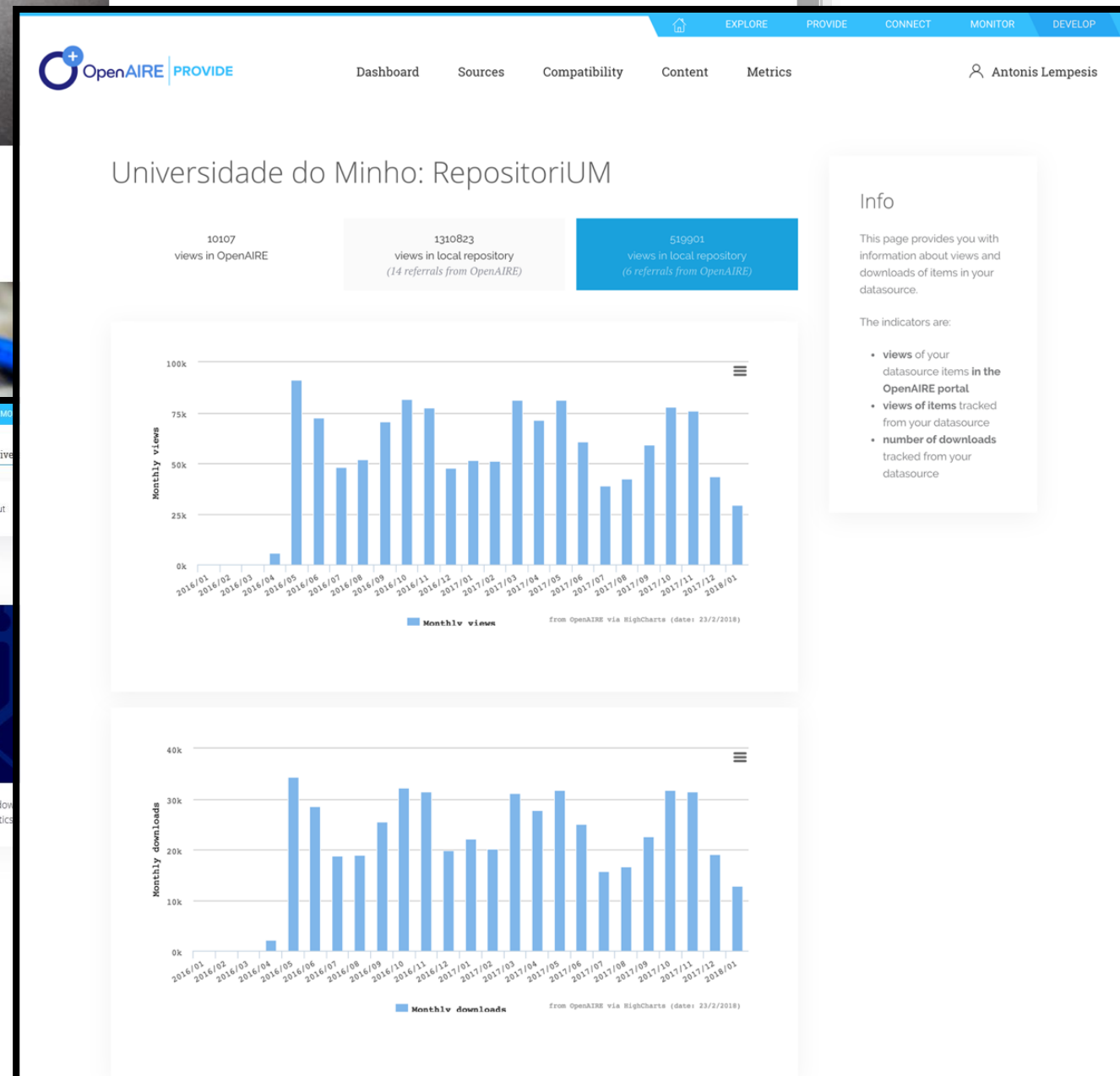
Repository Report 1, number of successful item downloads from all repositories participating in the usage statistics.

BR1

Book Report 1, number of successful title requests by month and title.

BR2

Book Report 2, number of successful section requests by month and title.



THE SERVICE COLLECTS AND EXPLOITS USAGE METRICS LIKE DOWNLOADS AND METADATA VIEWS (tracking plugin, SUSHI endpoint, COUNTER reports)

Metrics Configuration & Software Details

OpenAIRE's usage statistic service uses the *Piwik Open Source Analytics platform* (piwik.org) to track usage activity enabled for a repository. Two unique identifiers are generated - a piwik-ID that associates the repository with its own authentication-ID that allows to track usage activity on the Piwik platform. Metadata views and item downloads are automatically sent to Piwik. Statistics are generated using the COUNTER Code of practice directives.

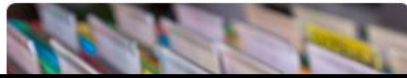
OpenAIRE's usage statistics service tracking code exploits Piwik's API. In order to make the tracking of usage even more robust, it was necessary to implement repository platform specific patches and plugins starting with DSpace maintained on Github:

- as a patch for various versions of DSpace (<https://github.com/openaire/OpenAIRE-Piwik-DSpace>)
- as an EPrints plugin for version 3 (<https://github.com/openaire/EPrints-OAPiwik>)

To configure your repository to allow tracking in Piwik platform, please change the configuration files with the following values, generated for your site:

PiwikID
104

AuthenticationToken
106629304



Register



Validate

METADATA ENRICHMENTS FROM THE OPENAIRE BROKER SERVICE (monthly notifications)

Enrichments for Universidade do Minho: Repositório

MORE

EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORIUM CONTENT # OF EVENTS

<p>ENRICH/MORE/OPENACCESS_VERSION <i>OpenAIRE discovered another Open Access version of a publication</i></p>	18296
<p>ENRICH/MORE/PID <i>OpenAIRE discovered another persistent identifier associated to your publications</i></p>	5725
<p>ENRICH/MORE/SUBJECT/JEL <i>OpenAIRE discovered more Journal of Economic Literature (JEL) classification terms that can be associated to your publications</i></p>	4151

MISSING

EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORIUM CONTENT # OF EVENTS

<p>ENRICH/MISSING/PROJECT <i>OpenAIRE discovered references to research projects that can be associated to your publications</i></p>	3422
<p>ENRICH/MISSING/PID</p>	3132
<p>ENRICH/MISSING/SUBJECT/DDC <i>OpenAIRE discovered Dewey Decimal classification terms (DDC) that can be associated to your publications</i></p>	736

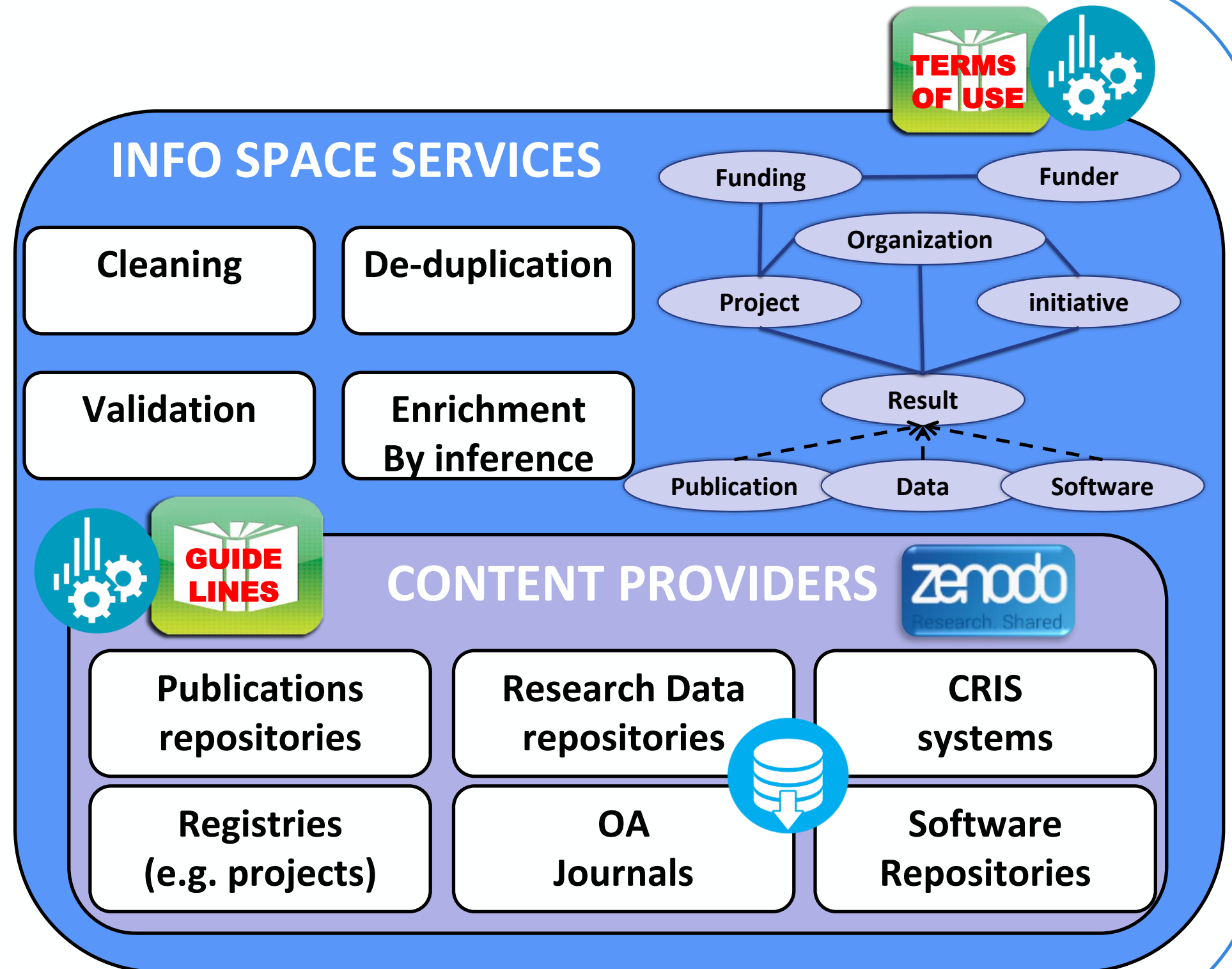
OpenAIRE's e-infrastructure Commons – **BROKER**

CONCEPT

Repositories in OpenAIRE may be interested to acquire metadata information about **publications** that are

“potentially of interest to them”

i.e. be part of their collection: add new records, enrich the records with extra metadata information.



Enrichments events from the broker service

MORE metadata

PROJECT, PID, ABSTRACT,
OPENACCESS_VERSION,
DATE, SUBJECT...

PROJECT, PID, ABSTRACT,
OPENACCESS_VERSION,
DATE, SUBJECT...

MISSING metadata

WHAT COMES NEXT

New broker events

ORCID > Publications/Datasets/software

Datasets > Projects

Publications <-> Software

Publications <-> Datasets

New services to export the metadata enrichments

CSV

SWORD





one stop shop for your Open Science needs

A window to community's
research. Open Science as a
Service

**RESEARCH COMMUNITY
DASHBOARD**



EXPLORE

PROVIDE

CONNECT

MONITOR

DEVELOP



Research Community Dashboard

Your view to open science

START HERE

connect.openaire.eu

Research community?

Use a trusted partner to share, link, disseminate and monitor your research.

[OpenAIRE.CONNECT](#)



Are you a researcher?

A virtual environment designed for your community to

[share all your research results](#)

[link all your research](#)

[gather all your research results in one place](#)

[monitor & report](#)



Are you managing a research community?

Use the OpenAIRE dashboard to configure

[the community profile](#)

[the community content](#)

[statistics & charts](#)

[users links](#)



Need help?

[Learn about open science policies and how to align](#)

[Learn more on how to manage your data in the open science era](#)

[Find out how to use OpenAIRE to best serve your needs](#)

[View our training material on a variety of related topics](#)

[Contact us](#)

The Research Community Dashboard is currently in beta, ready to be released.

[TRY IT NOW](#)

A VIRTUAL ENVIRONMENT DESIGNED FOR COMMUNITIES

Services

**Implement the latest Open Science trends:
FAIR data, open data**







-  **Share**
all your research results:
publications, data, software, methods
-  **Link**
all your research effectively
-  **Gather**
all your research results in one place
-  **Monitor**
and report your community's progress

Benefits

- ▶ **Community-oriented Open Science publishing tools**
Scientists may continue using RI services and publishing practices, but, if needed, can find support for publishing/interlinking any kind of products.
- ▶ **Collaborative curation of a community-specific scholarly communication information space**
Community information space to share, discover, interlink, gather and reuse (reproduce) scientific results.
- ▶ **Community-oriented Reporting and Open Science monitoring**
Enable reporting to funders, development of scientific reward strategies inclusive of all products of science.

OpenAIRE Research Communities/Initiatives Dashboard

COMMUNITY

 <p>European Marine Science</p>	 <p>Neuroinformatics</p>	 <p>Agricultural and Food Sciences</p>
 <p>Fisheries and Aquaculture Management</p>	 <p>Digital Humanities and Cultural Heritage</p>	 <p>Sustainable Development Solutions Network - Greece</p>

RESEARCH INITIATIVE

 <p>Instruct-ERIC</p>	 <p>ELIXIR-GR</p>	 <p>DARIAH EU</p>
 <p>EGI : advanced computing for research</p>	 <p>Research Data Alliance</p>	 <p>Common Language Resources and Technology Infrastructure</p>

Aims: publish, share and discovery

Aims: research impact



Neuroinformatics

brain mapping brain imaging electroencephalography arterial spin labelling brain fingerprinting brain neuroimaging Multimodal Brain Image Analysis fMRI

neuroinformatics show more

Curated by: sorina.pop, camille.maumet, christian.barillot Created: 06-08-2018 Members: 5

22,060 publications	789 research data	86 software	1,735 other research products	9 projects	6 content providers
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feedback

Recent research results

publications research data software other research products

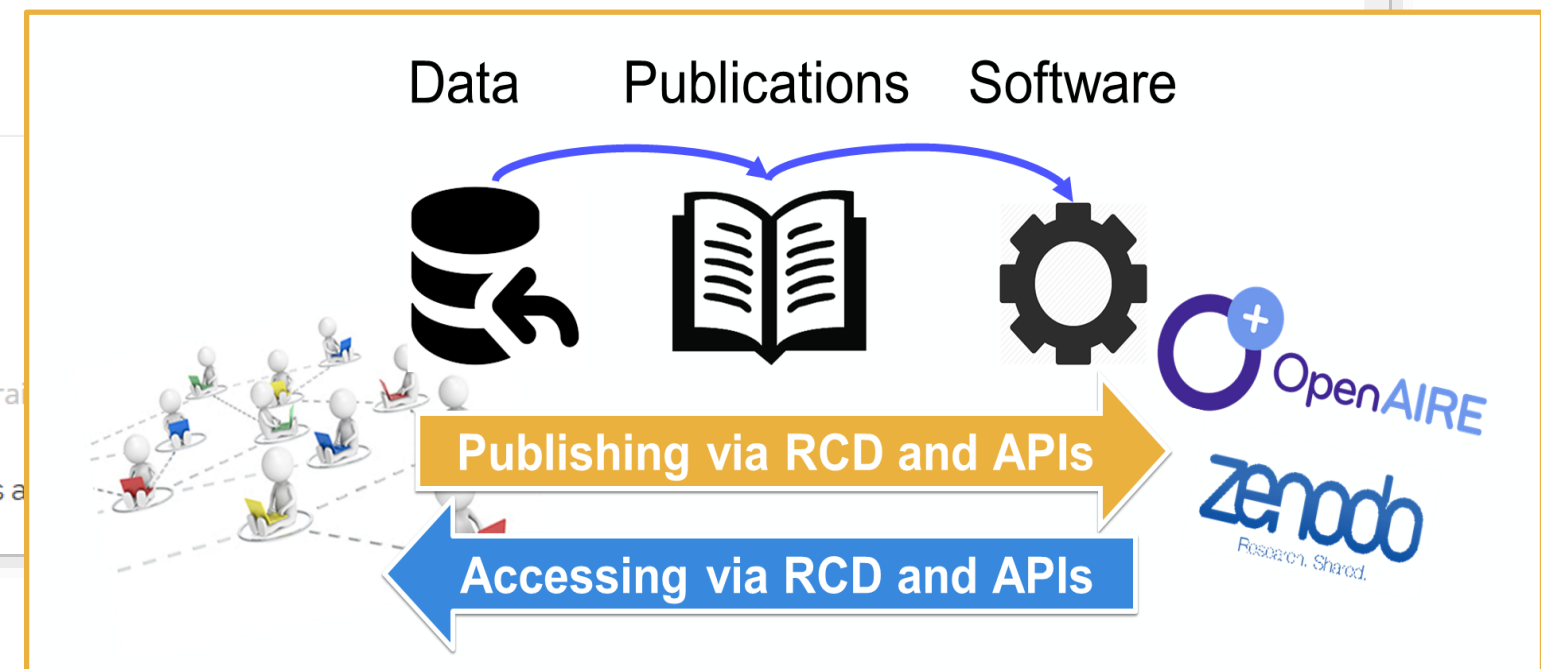
Poldracklab/Fmriprep: 1.0.4

OPEN SOURCE

Esteban, Oscar; Blair, Ross; Markiewicz, Christopher J.; Berleant, Shoshana L.; Moodie, Cra...
Goncalves, Mathias; ... (2018)

Release notes <p>This release fixes minor issues found during Testing Phase 2, and gives a

Poldracklab/Fmriprep: 1.0.6-1



A lighthouse on a rocky cliff overlooking the ocean under a cloudy sky. The lighthouse is white with a black top section and is illuminated. The ocean is dark with white foam from waves crashing against the rocks. The sky is overcast with grey clouds.

simplified tracking and monitoring

Services for funders, projects and institutions.

**MONITOR
DASHBOARD**



EXPLORE

PROVIDE

CONNECT

MONITOR

DEVELOP



OpenAIRE | MONITOR

FUNDERS

SUPPORT

ABOUT



Tracking, reporting, monitoring made easy

20,996,390
PUBLICATIONS

606,153
DATASETS

45,507
SOFTWARE

16
FUNDERS

monitor.openaire.eu

Research manager?

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

[OpenAIRE.MONITOR](#)



Are you a funder?

All you need to do is to provide OpenAIRE with a 'very limited' set of metadata fields from your database and we will take it up from there.

[Learn how to participate and ensure that your information is picked up by OpenAIRE.](#)



Advanced Analytics

Using text mining (topic modeling) on the full texts we can discover hidden structures and identify useful patterns, similarities, correlations trends and communities.

Our tech team would be happy to work with new use cases as this is the real value of using open science for transparent decision policy making. Our services have already been successfully applied for the evaluation of parts of FP7, and we are continuing with the rest.



Have more questions?

[Learn about open science policies and how to align](#)

[Learn more on how to manage your data in the open science era](#)

[Find out how to use OpenAIRE to best serve your needs](#)

[View our training material on a variety of related topics](#)

[Contact us](#)



European Union

European Commission – H2020
European Commission – FP7
ERC - European Research Council (EU)



International Funders

Australia

ARC - Australian Research Council
NHMRC - National Health and Medical
Research Council Statistics

USA

NIH - National Institutes of Health
NSF - National Science Foundation



European Funders

Austria

FWF - Austrian Science Fund

Croatia

HRZZ - Croatian Science Foundation (CSF)
MZOS - Ministry of Science, Education
and Sports of the Republic of Croatia
(MSES)

Ireland

SFI - Science Foundation Ireland

Netherlands

NWO - Netherlands Organisation for
Scientific Research

Portugal

FCT - Fundação para a Ciência e a
Tecnologia

Serbia

MESTD - Ministry of Education, Science
and Technological Development of
Republic of Serbia

What we do

One of our key services for Open Science is to aggregate content from many different sources from Europe and beyond.

But we don't stop there! We also:

Apply cleaning, transformation, disambiguation processes to identify relationships among all research entities: publications, data, funding, researchers, organisations and data sources

Identify grant ids in publications-data-software acknowledgement sections and make the appropriate links

Link research results to funding information, specifically programme information

Create online reports and statistics based on the OpenAIRE scholarly communication graph

Combine the OpenAIRE data with other types of data and provide

Over 20 funders in production + 5 in beta

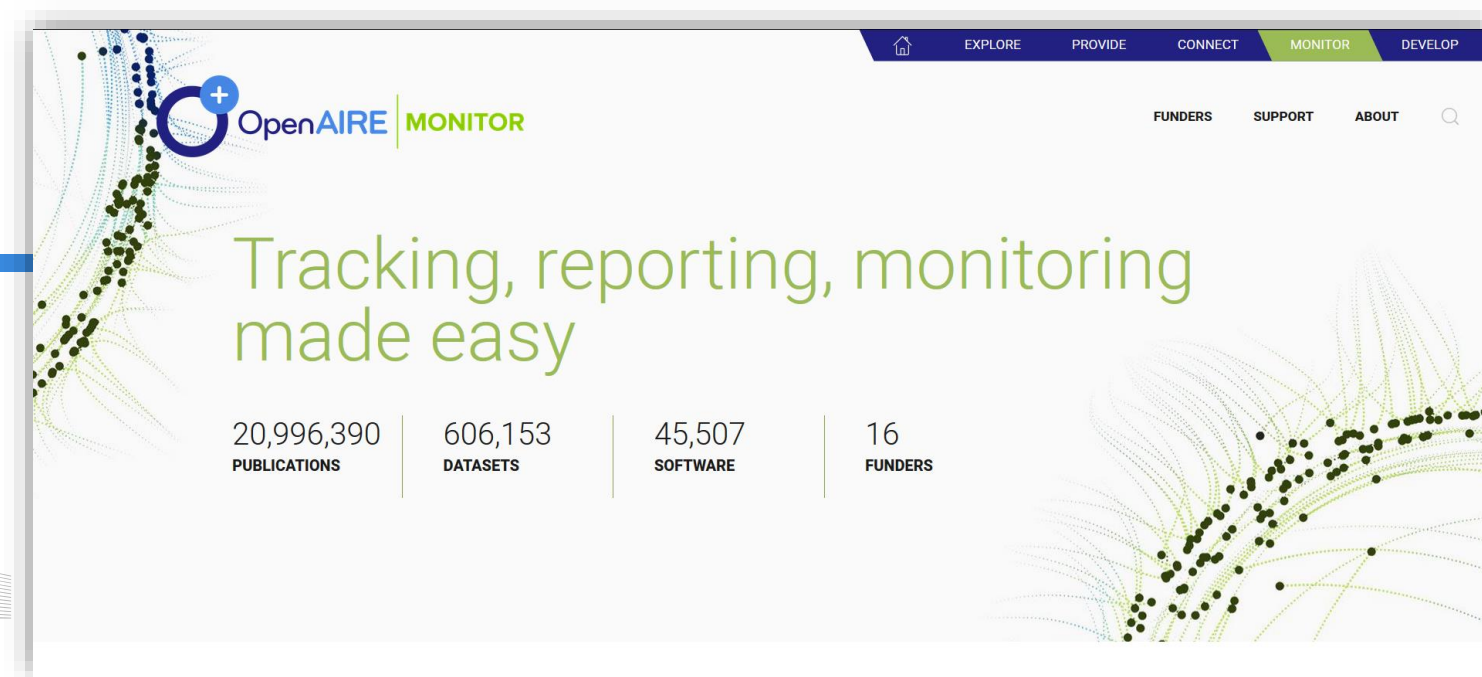
Monitor: Funder dashboard – aims

Funding Impact

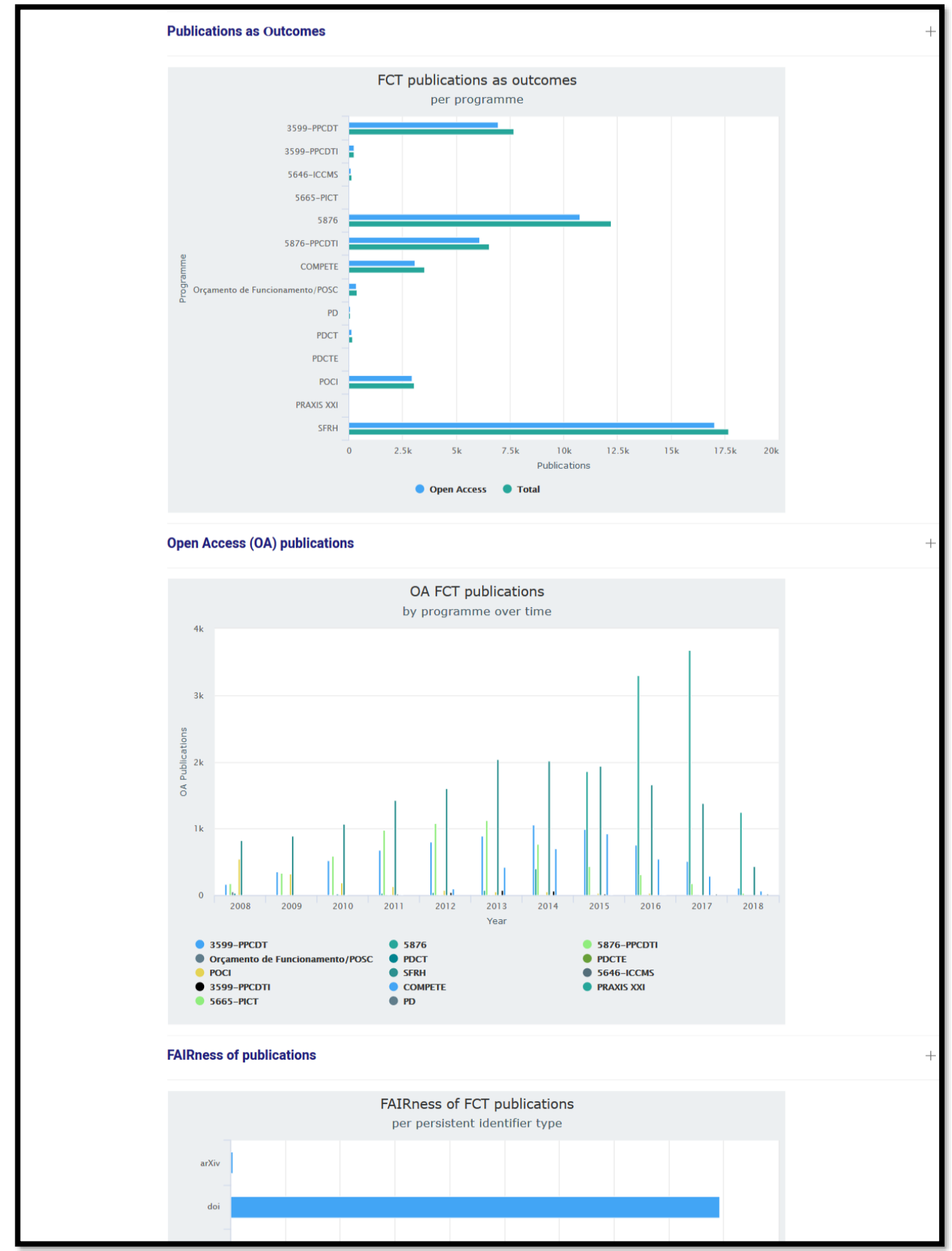
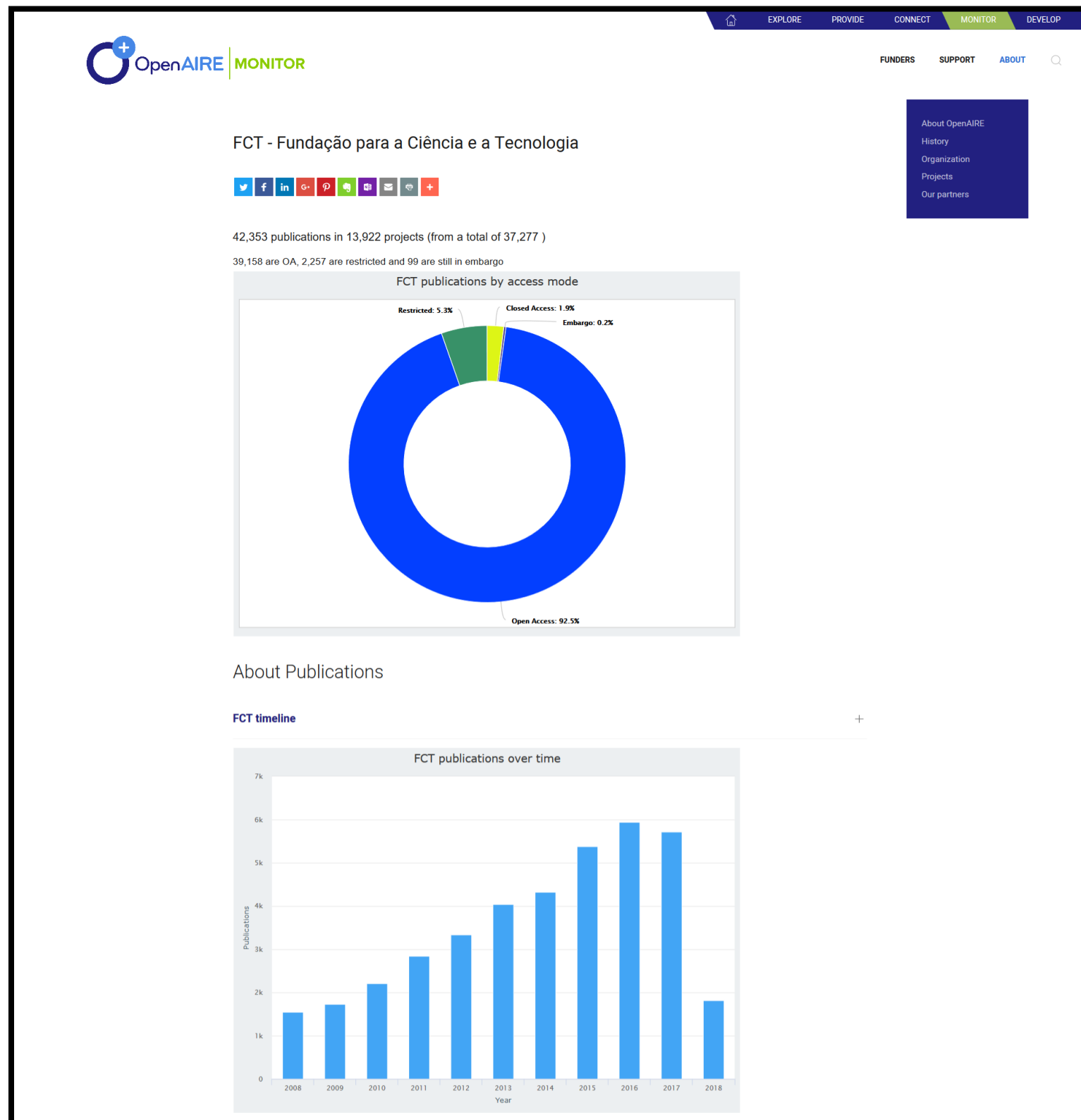
Publications, research data, software published thanks to grants awarded by the funder

Open Access/Science Impact

Monitoring of Open Science impact: data/software FAIRness, reproducibility trends



Funder Dashboard



Servicios y herramientas para apoyar las políticas de acceso abierto y los datos abiertos en el H2020

- ✓ **Depósito** en acceso abierto
- ✓ Almacenamiento de datos de investigación en **Zenodo**
- ✓ **Conectar** publicaciones y conjuntos de datos
- ✓ **Informes** de resultados de investigación
- ✓ **Descubrir**, analizar y acceder
- ✓ Material de soporte y **Helpdesk**
- ✓ Material de **capacitación** y apoyo



Share, deposit and publish in OA

How to comply. What services to use.



Discover linked Open Research

Search for research results, projects, content providers and organizations

EXPLORE.
OpenAIRE Discovery service



Gather outputs. View progress and report. Monitor.

Services for researchers, project coordinators and research managers



Link your research results

Services for researchers, project coordinators and research managers

Find where to deposit

EXPLORE PROVIDE CONNECT MONITOR DEVELOP

OpenAIRE EXPLORE

SEARCH SHARE LINK CONTENT PROVIDERS PEDRO PRÍNCIPE

Share Publications

See if your institution has a repository

igd Locate

- SIGCOMM (ACM SIGCOMM)
- Fundação Calouste Gulbenkian (FCG-IGC)
- IGC/Advanced Superconductors, Inc.
- BigChange Apps Limited
- Biocatalysts Ltd (IGC)
- INSTITUT GEOLOGIC DE CATALUNYA (IGC)
- PIG CHAMP PRO EUROPA SL (PIGCHAMP PRO EUROPA SL)

Content providers

Filter by country to see results on map.

Repository - Jultika

feedback

Deposit your Publications in Zenodo (🔗)

<https://explore.openaire.eu/participate/deposit-publications>

EXPLORE PROVIDE CONNECT MONITOR DEVELOP

OpenAIRE EXPLORE

SEARCH SHARE LINK CONTENT PROVIDERS PEDRO PRÍNCIPE

Share Research Data

See if your institution has a repository

Organization name Locate

Or search for domain specific repositories

Type keywords (e.g Biology, Natural sciences, Social Sciences, Engineering Sciences...) Search



Upload, Describe, Publish

zenodo Search Upload Communities pedroprincipe@sdu.uminho.pt

Delete Save Publish

New upload

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

Files Choose files Start upload

Drag and drop files here

— or —

Choose files

(minimum 1 file required, max 50 GB per dataset - [contact us](#) for larger datasets)

Upload type required

zenodo Search Upload Communities pedroprincipe@sdu.uminho.pt

Delete Save Publish

New upload

Instructions: (i) Upload minimum one file or fill-in required fields (marked with a red star). (ii) Press "Save" to save your upload for editing later. (iii) When ready, press "Publish" to finalize and make your upload public.

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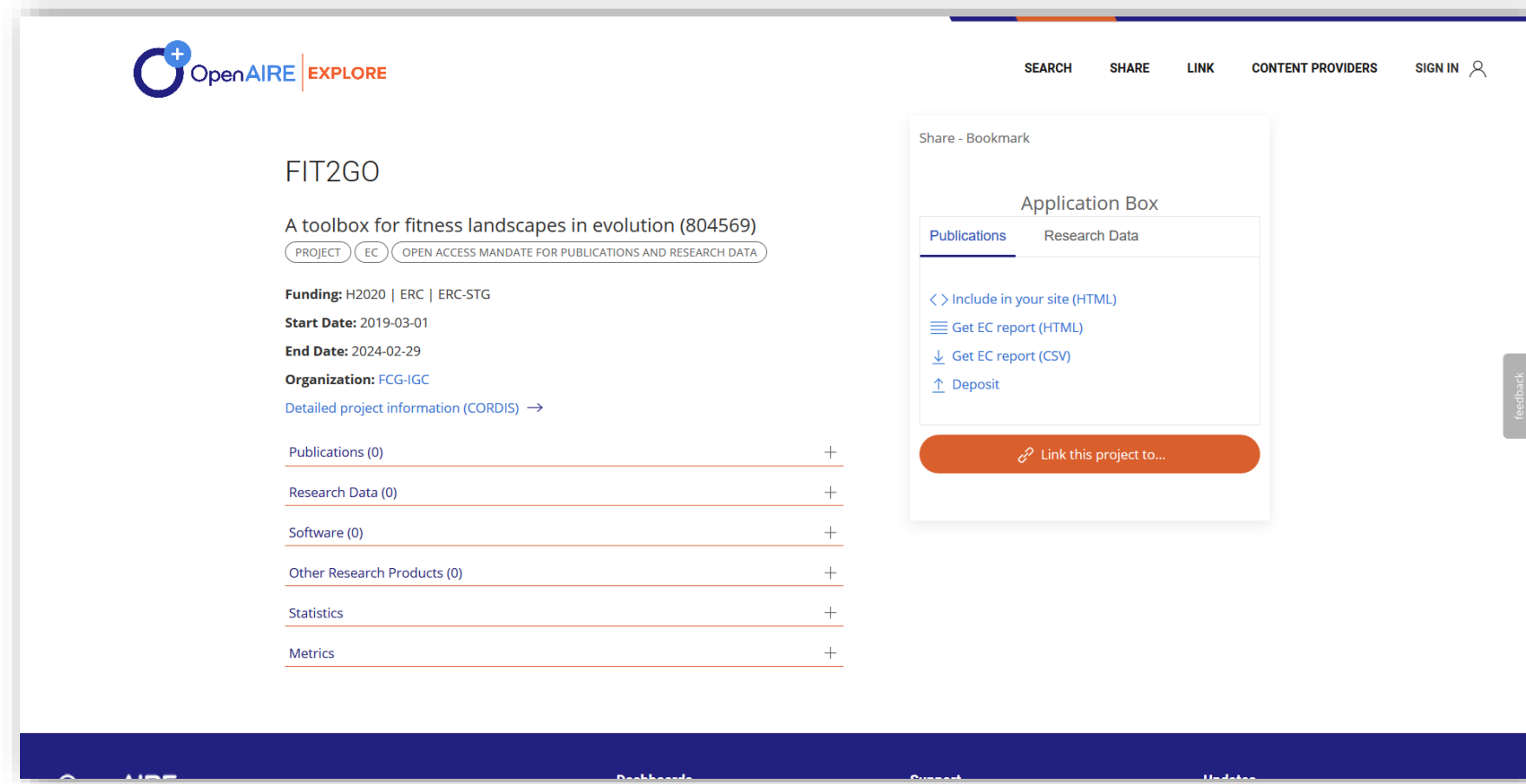
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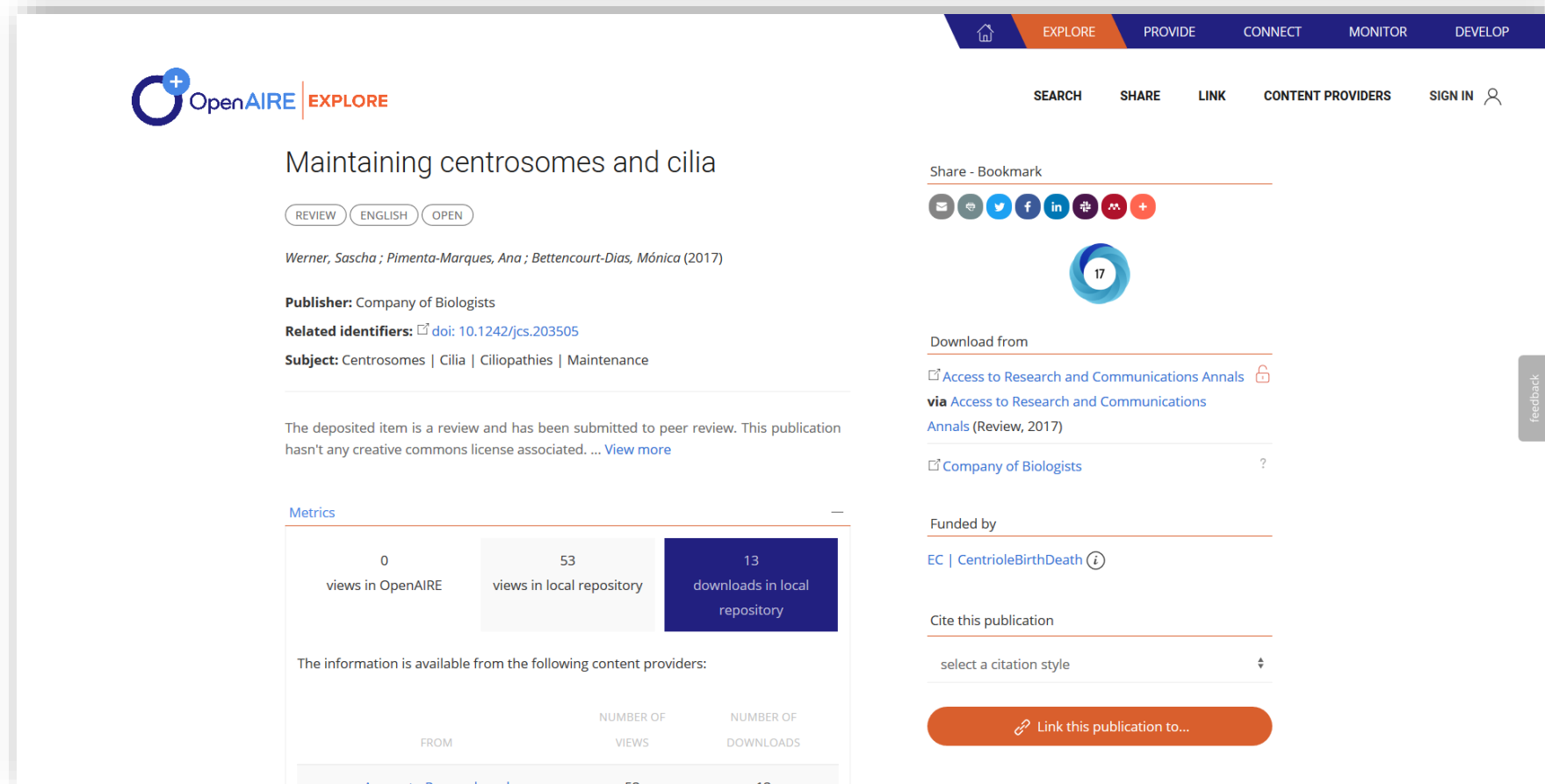
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Werner, Sascha ; Pimenta-Marques, Ana ; Bettencourt-Dias, Mónica (2017)

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LASERLAB-EUROPE

The Integrated Initiative of European Laser Research Infrastructures (654148)

Project EC Open Access mandate for Publications

Funding: H2020 | RIA
Start Date: 2015-12-01
End Date: 2019-11-30
Open Access mandate for Research Data: no

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LINK RESEARCH RESULTS TOOL

The screenshot shows the main interface of the 'Link your research results' tool. At the top, there is a navigation bar with tabs: EXPLORE (highlighted), PROVIDE, CONNECT, MONITOR, and DEVELOP. Below this is a secondary navigation bar with links: SEARCH, SHARE, LINK, CONTENT PROVIDERS, and a user profile for PEDRO PRÍNCIPE. The main heading is 'Link your research results'. A progress indicator shows three steps: '1 Select Projects or Communities' (highlighted), '2 Select Research Results', and '3 Review metadata'. Below the progress indicator, there are two tabs: 'Projects (0)' and 'Communities (0)'. Under 'Projects (0)', there is a search box labeled 'Search for projects' with a dropdown menu for 'Select funder:'. A 'Next >' button is visible to the right of the search box.

This inset screenshot shows the '2 Select Research Results' step. It features a search box labeled 'Search for research results' with a dropdown menu for 'in OpenAIRE' and a text input field for 'Title, doi, author, orcid...'. Below this, there is an 'Or' section with a link to 'Upload a DOI csv file'. A '< Previous' button is located to the left of the search box.

This inset screenshot shows the '3 Review metadata' step. It displays a progress indicator with three steps: '1 Select Projects or Communities', '2 Select Research Results', and '3 Review metadata' (highlighted). Below the progress indicator, there is a '< Previous' button. At the bottom of the screen, a message states: 'You have not selected any research results'.



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

LINK RESEARCH RESULTS TOOL

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The image shows two overlapping screenshots of the OpenAIRE Explore website. The left screenshot displays the 'Link your research results' interface, which includes a search bar, filter options (Project, Publication, Research Data, Software, Other product, Community), and a table of research results. The right screenshot shows a detailed view of a research article titled 'Impact of atmospheric deposition on the contrasting iron biogeochemistry of the North and South Atlantic Ocean'.

Link your research results

OpenAIRE | EXPLORE

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<input type="checkbox"/> Meta-Surface Wall Suppression of Mutual Coupling Between Microstrip Patch Antenna Arrays for THz-Band Applications	<input type="checkbox"/> SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:20:17 PM
<input type="checkbox"/> A New Low Complexity Angle of Arrival Algorithm for 1D and 2D Direction Estimation in MIMO Smart Antenna Systems	<input type="checkbox"/> SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:16:01 PM
<input type="checkbox"/> Energy efficiency of network-coding enabled mobile small cells	<input type="checkbox"/> SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 12:05:10 PM
<input type="checkbox"/> Wideband Printed Monopole Antenna for Application in Wireless Communication Systems	<input type="checkbox"/> SEcure Network Coding for Reduced Energy nexT generation Mobile Small cells (European Commission)	Oct 16, 2018 11:48:46 AM
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<input type="checkbox"/> OpenAIRE2020 - Usage Statistics Services - D8.5	<input type="checkbox"/> OpenAIRE - CONNECTing scientific results in support of Open Science (European Commission)	Mar 12, 2018 6:22:49 PM
<input type="checkbox"/> The gravitationally consistent sea-level fingerprint of future terrestrial ice loss	<input type="checkbox"/> Ice2sea - estimating the future contribution of continental ice to sea-level rise (European Commission)	Apr 14, 2014 12:00:00 AM

Impact of atmospheric deposition on the contrasting iron biogeochemistry of the North and South Atlantic Ocean

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ARTICLE ENGLISH OPEN

Ussher, Simon J.; Achterberg, Eric P.; Powell, Claire; Baker, Alex R.; Jickells, Tim D.; Torres, Ricardo; Worsfold, Paul J.; (2013)

Publisher: AMER GEOPHYSICAL UNION
Journal: GLOBAL BIOGEOCHEMICAL CYCLES (issn: 0886-6236)
Related identifiers: doi: 10.1002/gbc.20056

Dissolved iron (dFe) distributions, atmospheric and vertical subduction fluxes of dFe were determined in the upper water column for two meridional transects of the Atlantic Ocean. The data demonstrate the disparity between the iron biogeochemistry of the North and South... [View more](#)

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- How to make your data FAIR
- How to find a trustworthy repository for your data
- How to create a Data Management Plan for H2020 projects
- Data formats for preservation
- How do I know if my research data is protected
- How do I license my research data
- Can I reuse someone else's research data
- How to deal with non-digital data
- How to deal with sensitive data
- Raw data, backup and versioning
- How can identifiers improve the dissemination of your research outputs?

Content providers

- Making your repository Open
- Follow the OpenAIRE Guidelines
- Follow the OpenAIRE Usage Statistics Guidelines

Funders

- Why OpenAIRE Monitor
- How to join OpenAIRE
- Monitor Dashboard - Coming soon!

Research Administrators

- Open Access policies guide: designing your Open Access policy - Coming soon!

Guides for OpenAIRE services

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Amnesia

Amnesia is a data anonymization tool, that allows to remove identifying information from data. Amnesia not only removes direct identifiers like names, SSNs etc but also transforms secondary identifiers like birth date and zip code so that individuals cannot be identified in the data. Amnesia supports k -anonymity and k^m -anonymity.

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