

# OpenAIRE

## infraestrutura europeia de acesso aberto e ciência aberta



Iº Encontro CAPES de Ciência Aberta - Repositórios Digitais

**Eloy Rodrigues**  
Universidade do Minho





Com slides e outros contributos significativos de Pedro Príncipe, Natalia Manola e outros membros do consórcio OpenAIRE

[www.openaire.eu](http://www.openaire.eu)



OpenAIRE

*OpenAIRE trabalha para  
abrir-partilhar-reutilizar  
Resultados de pesquisa*

**Conexões Sociais +  
técnicas**

**Transformando a comunicação  
académica para a ciência aberta e  
reprodutível**

Set Science. Free.



# Não se trata apenas de acesso aberto a publicações...

Dados de pesquisa abertos  
Software aberto  
Metodologias/protocolos abertos  
Recursos educacionais abertos  
Processos abertos (revisão por pares)  
Abertura da ciência aos cidadãos

Todos interligados

# Tecnologias

## 15+ Serviços Técnicos

Desde o nível de infraestrutura básica até serviços de valor acrescentado

Pessoas

34 National Open Access Desks

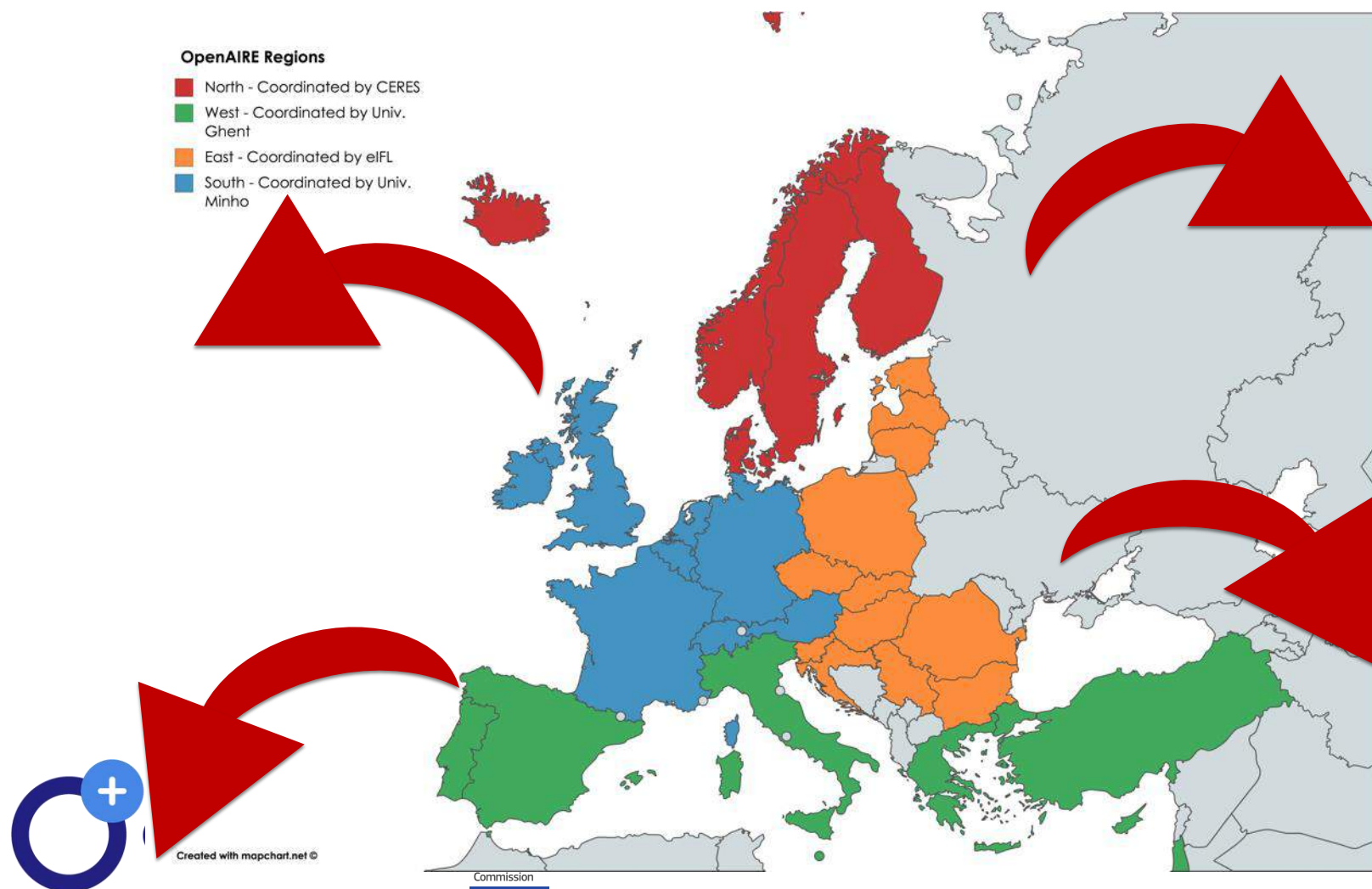


**Pessoas**

# National Open Access Desks (NOADs)

## Factos

- A pesquisa é global, o suporte é local
- Diversidade na cultura e maturidade das infraestruturas nacionais
- Não há “one size fits all” no AA e CA



A rede pan-europeia

→ 34 países

→ 4 coordenadores regionais

Avançando para a CA

Ligados a infraestruturas internacionais

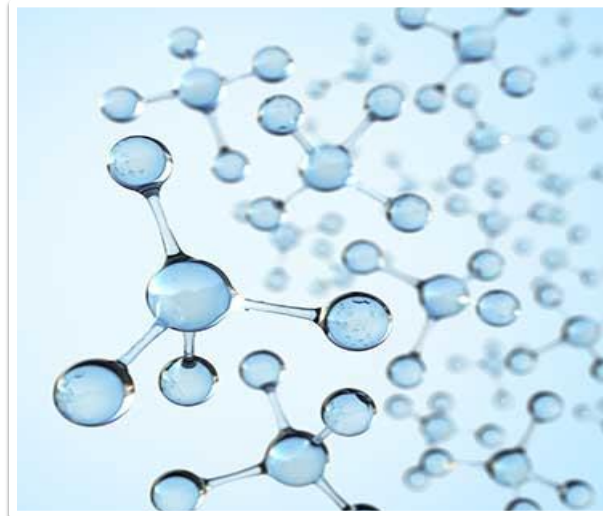
# A que damos suporte?

## Políticas de CA



- Harmonização para decisores políticos
- Formação
- Suporte

## Infraestrutura



- Interoperabilidade
- Criação/Setup
- Conetividade
- Repositórios

## Dados de Pesquisa Abertos



- FAIR
- Dados abertos
- Ferramentas
- Aspectos legais
- Compliance

## AA a publicações

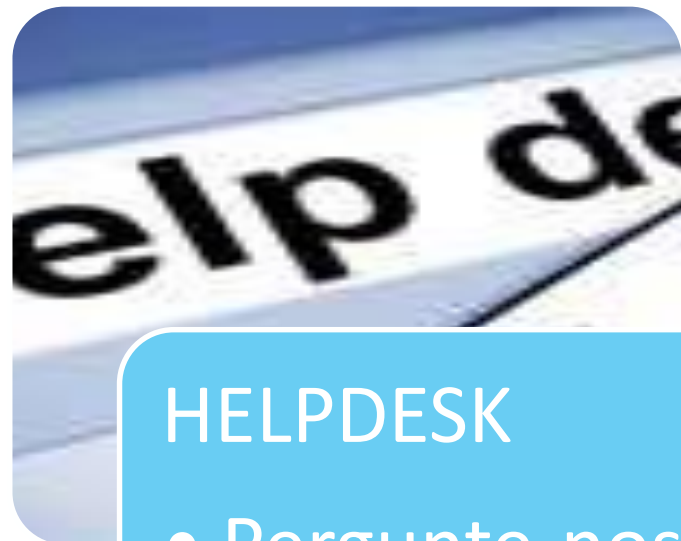


- Guias
- Ferramentas/repositórios
- Licenças
- Compliance



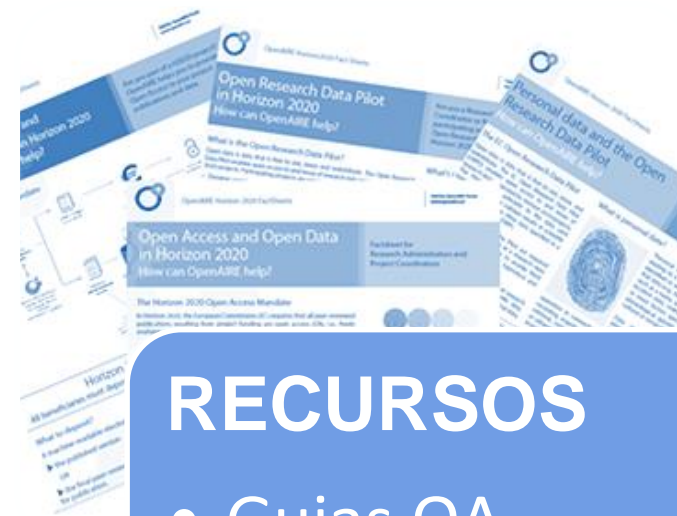
# Como damos suporte

**NOADs → Infraestruturas e organizações nacionais → Pesquisadores**



## HELPDESK

- Pergunte-nos
- FAQs



## RECURSOS

- Guias OA
- Questões de copyright
- Factsheets



## FORMAÇÃO

- Webinars
- Workshops

# Alinhamento e cooperação internacional

## Interoperabilidade, partilha de tecnologias e serviços

- La Referencia: Rede de Repositórios da América Latina
- JAIRO – Japanese Institutional Repositories Online
- World Data Service – 70 repositórios de dados
  
- Coreia – KISTI
- Canadá
- China – CAS for Chinese Open Research Cloud
- África...



# Serviços



# OpenAIRE's e-infrastructure Commons

## KEY STAKEHOLDERS SERVICES



Funders, research admins,  
research communities

- Research impact
- Project reporting and monitoring
- Open Access trends



Content providers

- Repository validation
- Repository notification broker
- Repository analytics and usage stats



Researchers

- Claim publications, datasets, software
- Deposit publications, datasets, software
- Search & browse: interlinked publications, datasets, projects
- Open Access & DMP Helpdesk
- End-User feedback



## INFO SPACE SERVICES

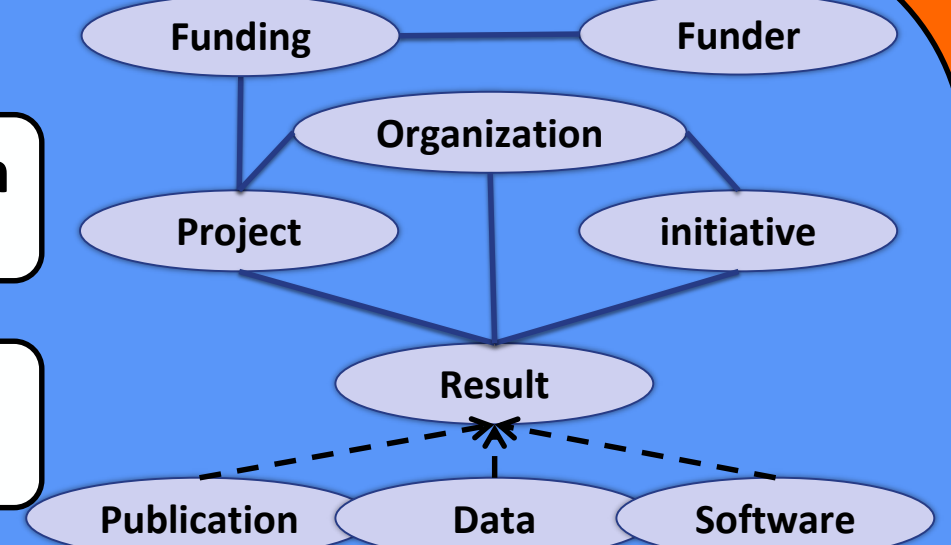
Cleaning

De-duplication

Validation

Enrichment  
By inference

TERMS  
OF USE



GUIDE  
LINES

## CONTENT PROVIDERS



Publications  
repositories

Research Data  
repositories

CRIS  
systems

Registries  
(e.g. projects)

OA  
Journals

Software  
Repositories



# Para que a Ciência Aberta aconteça: **serviços para todos**



# Share, deposit and publish in OA

*Why Open Science. How to comply. What services to use.*

# Discover, Access and Reuse

*For all OpenAIRE stakeholders...*

# 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*

# Interoperability guidelines & validator.

Common standards/best practices for data providers (Guidelines for literature, data repositories, aggregators, OA journals, CRIS systems).  
Validator: web service or standalone

*Data providers, repositon managers, data archives and CRIS managars*

# Services for Funders

Align Open Science policies.  
Sync infrastructures.  
Monitor and report.

*OpenAIRE helps you measure research funding impact and supports monitoring of Open Access*

# one stop shop for OpenAIRE data providers

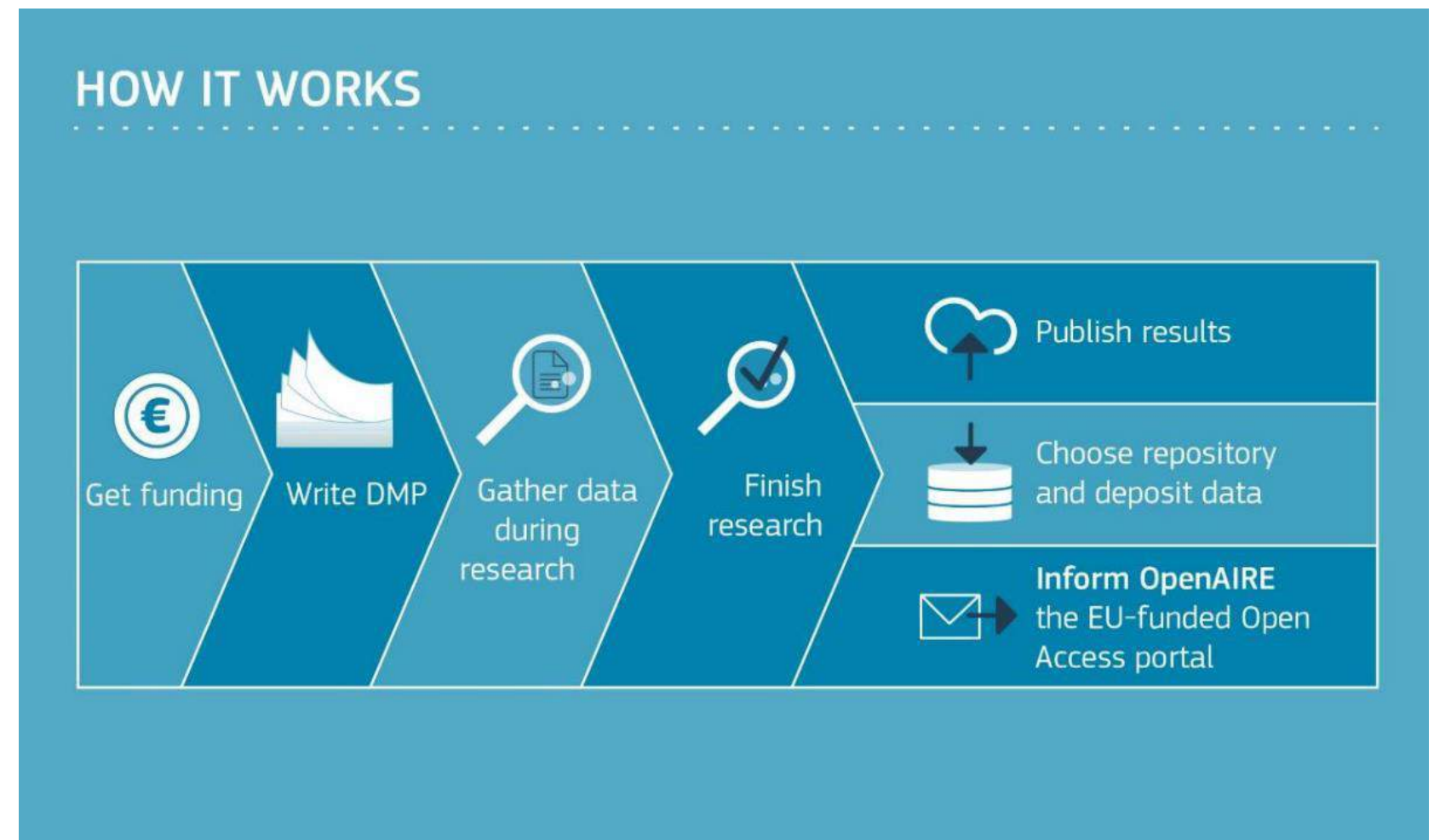
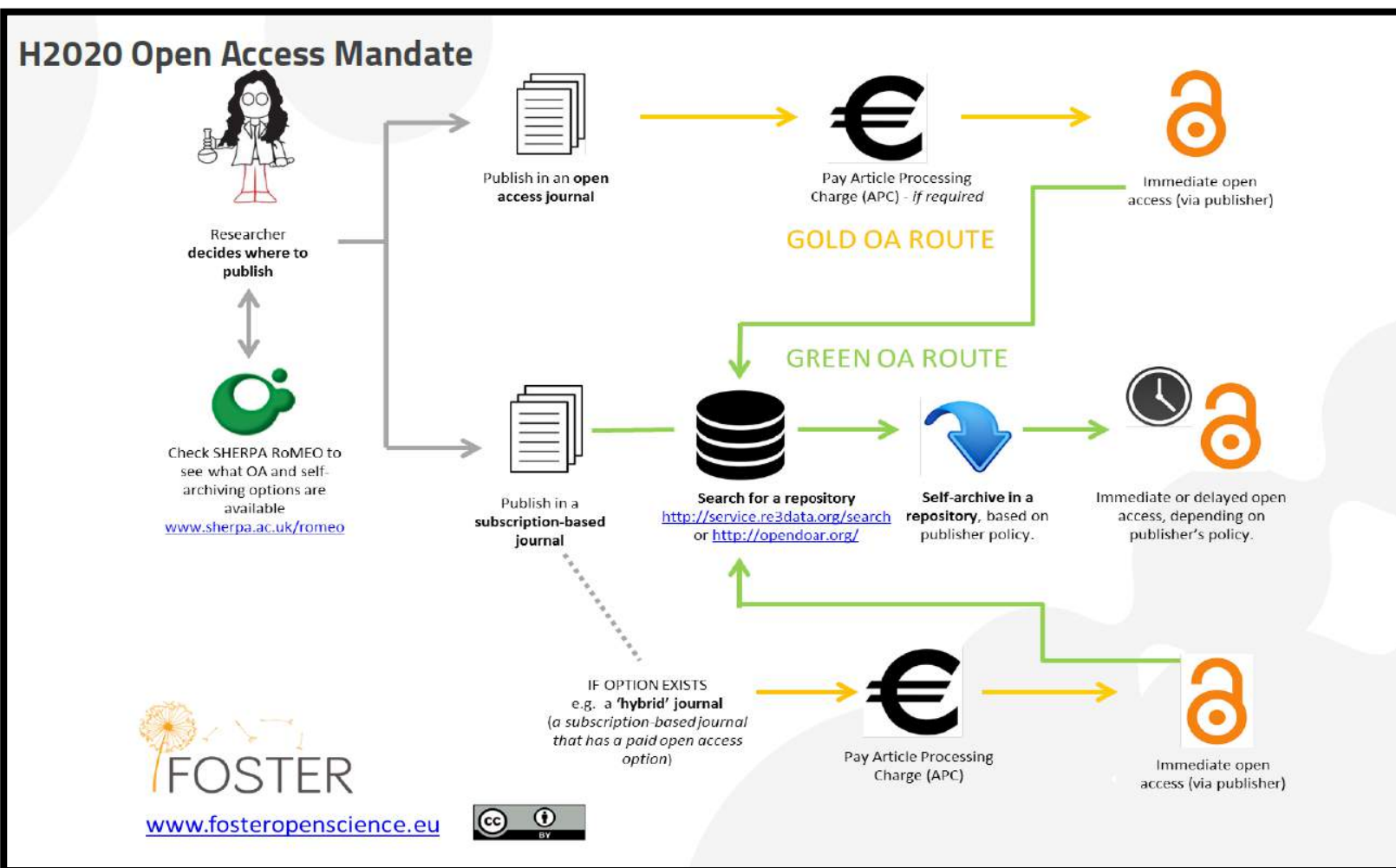
for friends... "the repository managers dashboard" 😊

*Dashboard for contente providers*

# Share, deposit and publish in OA

*Why Open Science. How to comply.  
What services to use.*

# Open Access & Open Research Data in H2020





# Encontrar onde depositar



BLOG

NEWSLETTER

HI, PEDRO PRINCIPE



PARTICIPATE

SEARCH

MONITOR

SUPPORT

OPEN ACCESS

## DEPOSIT PUBLICATIONS

Are you a grant recipient from the following: H2020; FP7 with SC39; or ERC? Then you are required to publish in [open access](#). One way to do this is to deposit your publications into an [open access repository](#).

Click the following to find more information: [FP7 guidelines](#), [H2020 guidelines](#), [ERC guidelines](#) OR [ask a question](#) to OpenAIRE's national representative.

## LOCATE DATA PROVIDER VIA YOUR INSTITUTION

Vysoká škola báňská-Technická univerzita Ostrava (VŠB Technical University of Ostrava) (VŠB-TUO)

### Datasource type

- Publication Repository
- Publication Repository Aggregator
- Journal
- Journal Aggregator/Publisher
- Institutional Repository
- Thematic Repository
- Institutional Repository Aggregator
- Registry

### Compatibility

- OpenAIRE Basic (DRIVER OA)
- OpenAIRE 3.0 (OA, funding)
- OpenAIRE 2.0+ (DRIVER OA, EC funding)
- under validation
- collected from a compatible aggregator
- OpenAIRE 2.0 (EC funding)
- proprietary

### Country [select all|none]

- all countries selected
- Albania
  - Algeria
  - Argentina
  - Australia
  - Austria



## ↓ DSPACE NA VŠB-TUO

Name	DSpace at VSB Technical University of Ostrava
Type	Institutional Repository
Items	<a href="#">2131 Publications</a>
Compatibility	OpenAIRE 3.0 (OA, funding)
OAI-PMH	<a href="http://dspace.vsb.cz/oai/request">http://dspace.vsb.cz/oai/request</a>
More information	<a href="#">Detailed data provider information (OpenDOAR)</a>

Publications (2131)   Research Data (0)   Statistics

[view all 2131](#)

Type grain-size curves focusing on the zone of polygenetic loess sediments in the selected part of Ostrava Basin

Juriš, Peter; Marschalko, Marian; Fojtová, Lucie; Kovář, Luděk (2007)

Spectral analysis of metallic surfaces topography generated by abrasive waterjet

Brillová, Kateřina; Ohlidal, Miloslav; Valíček, Jan; Kozak, Dražan; Hloch, Sergej; Zeleňák, Michal; Harničárová, Marta; Hlaváček, Petr (2012)



# Repositório Zenodo

- Repositório “catch-all”, aberto para todos os resultados de pesquisa de todas as disciplinas
- Colaboração CERN-OpenAIRE
- Até 50 GB por upload
- Identificadores persistentes (DOIs) para cada registo
- Métricas ao nível dos objetos
- Liga com o Github
- Inserção de informação de financiamento e reporte via OpenAIRE





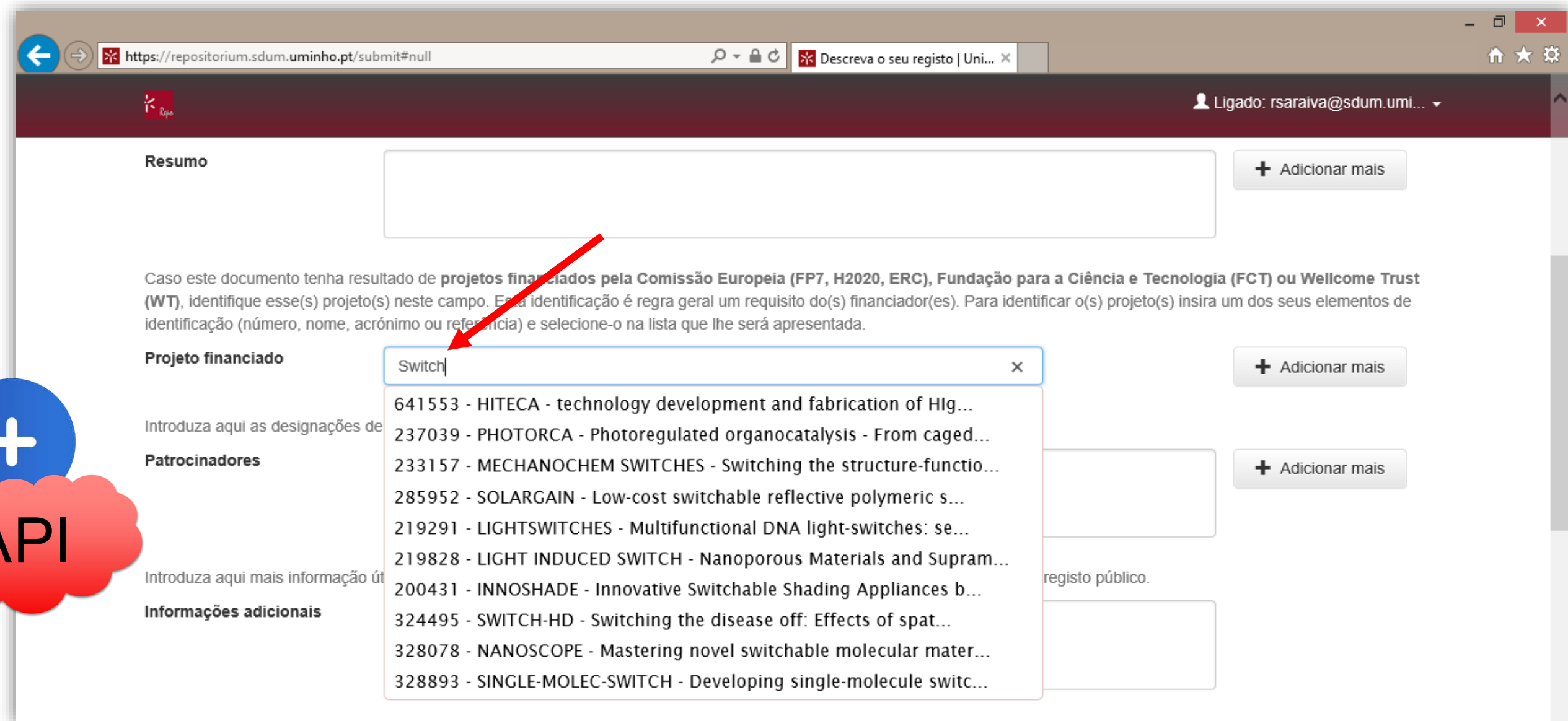
# Referencie

FINANCIAMENTO NA PUBLICAÇÃO OU NO  
REGISTO DE METADADOS DO DATASET

# Lista OpenAIRE de projetos de financiadores

## WORKFLOW DE DEPÓSITO NOS REPOSITÓRIOS :

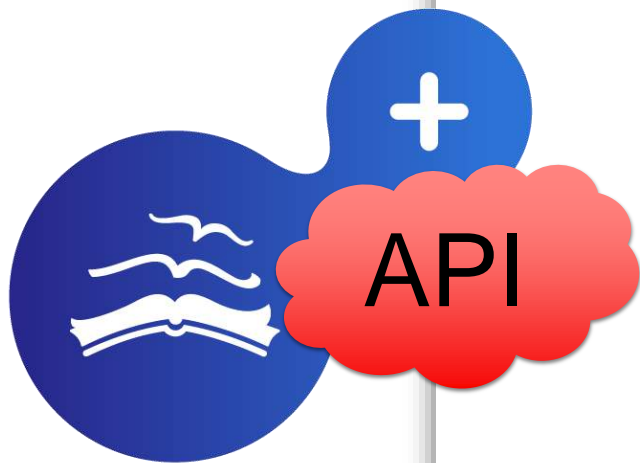
Pesquise por nome, acrónimo ou número do projeto... Seleccione o projeto e aceite



The screenshot shows a web browser window with the URL <https://repositorium.sdum.uminho.pt/submit#null>. The page is titled "Resumo" and contains a search field for "Projeto financiado". A red arrow points to the search input, which contains the text "Switch". A dropdown menu is open, displaying a list of project entries with their IDs and titles. The entries include:

- 641553 - HITECA - technology development and fabrication of Hig...
- 237039 - PHOTORCA - Photoregulated organocatalysis - From caged...
- 233157 - MECHANOCHEM SWITCHES - Switching the structure-functio...
- 285952 - SOLARGAIN - Low-cost switchable reflective polymeric s...
- 219291 - LIGHTSWITCHES - Multifunctional DNA light-switches: se...
- 219828 - LIGHT INDUCED SWITCH - Nanoporous Materials and Supram...
- 200431 - INNOSHADE - Innovative Switchable Shading Appliances b...
- 324495 - SWITCH-HD - Switching the disease off: Effects of spat...
- 328078 - NANOSCOPE - Mastering novel switchable molecular mater...
- 328893 - SINGLE-MOLEC-SWITCH - Developing single-molecule switc...

Each entry is followed by a "+ Adicionar mais" button. The page also includes a "Resumo" section, a "Patrocinadores" section, and an "Informações adicionais" section. The user is logged in as "rsaraiva@sdum.umi...".



# Discover, Access and Reuse

*Para todos os stakeholders...*


 Search in 24,085,848 publications 688,870 datasets from 11,465 repositories and OA journals

All 

[Publications](#)
[Research Data](#)
[Projects](#)
[People](#)
[Organizations](#)
[Data Providers](#)

FUNDER	ACCESS MODE	PUBLICATION YEAR	DOCUMENT TYPE
<a href="#">European Commission (241391)</a> <a href="#">National Institutes o... (163258)</a> <a href="#">National Science Foun... (133115)</a> <a href="#">Wellcome Trust (53600)</a> <a href="#">Swiss National Scienc... (50901)</a> <a href="#">View more</a>	<a href="#">Open Access (22727228)</a> <a href="#">Restricted (270931)</a> <a href="#">Closed Access (132800)</a> <a href="#">not available (33929)</a> <a href="#">Embargo (6015)</a>	<a href="#">2015 (1851014)</a> <a href="#">2014 (1804975)</a> <a href="#">2016 (1706353)</a> <a href="#">2013 (1640377)</a> <a href="#">2012 (1520597)</a> <a href="#">View more</a>	<a href="#">Article (13655954)</a> <a href="#">Unknown (1937405)</a> <a href="#">Preprint (1798778)</a> <a href="#">Research (1345195)</a> <a href="#">Doctoral thesis (1230289)</a> <a href="#">View more</a>
DOCUMENT LANGUAGE	DATA PROVIDER	COMMUNITIES	
<a href="#">English (11088201)</a> <a href="#">Undetermined (2069957)</a> <a href="#">Japanese (1945685)</a> <a href="#">Russian (1604386)</a> <a href="#">Portuguese (1181545)</a> <a href="#">View more</a>	<a href="#">Europe PubMed Central (4444873)</a> <a href="#">DOAJ-Articles (2971649)</a> <a href="#">JAIRO (2537755)</a> <a href="#">arXiv.org e-Print Arc... (1333969)</a> <a href="#">CyberLeninka - Russia... (1250514)</a> <a href="#">View more</a>	<a href="#">EGI Foundation (23930)</a> <a href="#">FET FP7 (7587)</a> <a href="#">FET H2020 (943)</a>	

# Pesquisa todas as entidades

All 

[Publications](#) [Research Data](#) [Projects](#) [People](#) [Organizations](#) [Data Providers](#)

## FUNDER

[European Commission \(241391\)](#)  
[National Institutes o... \(163258\)](#)  
[National Science Foun... \(133115\)](#)  
[Wellcome Trust \(53600\)](#)  
[Swiss National Scienc... \(50901\)](#)

[View more](#) 

## DOCUMENT LANGUAGE

[English \(11088201\)](#)  
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[Japanese \(1945685\)](#)  
[Russian \(1604386\)](#)  
[Portuguese \(1181545\)](#)

[View more](#) 

## ACCESS MODE

[Open Access \(22727228\)](#)  
[Restricted \(270931\)](#)  
[Closed Access \(132800\)](#)  
[not available \(33929\)](#)  
[Embargo \(6015\)](#)


## DATA PROVIDER

[Europe PubMed Central \(4444873\)](#)  
[DOAJ-Articles \(2971649\)](#)  
[JAIR0 \(2537755\)](#)  
[arXiv.org e-Print Arc... \(1333969\)](#)  
[CyberLeninka - Russia... \(1250514\)](#)

[View more](#) 

## PUBLICATION YEAR

[2015 \(1851014\)](#)  
[2014 \(1804975\)](#)  
[2016 \(1706353\)](#)  
[2013 \(1640377\)](#)  
[2012 \(1520597\)](#)

[View more](#) 

## COMMUNITIES

[EGI Foundation \(23930\)](#)  
[FET FP7 \(7587\)](#)  
[FET H2020 \(943\)](#)

## DOCUMENT TYPE

[Article \(13655954\)](#)  
[Unknown \(1937405\)](#)  
[Preprint \(1798778\)](#)  
[Research \(1345195\)](#)  
[Doctoral thesis \(1230289\)](#)

[View more](#) 



# Link your research results

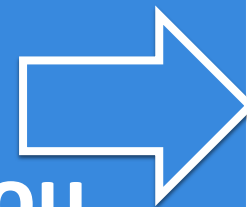
*Serviços para pesquisadores,  
coordenadores de projetos e  
gestores de pesquisa*



# LINK RESEARCH RESULTS TOOL

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

Ligar publicações, datasets e projetos.  
Identifique o projeto, seleccione a publicação ou dataset e defina os direitos de acesso.



1 IDENTIFY PROJECT | 2 SELECT PUBLICATIONS/DATASETS | 3 SET ACCESS RIGHTS

## SELECT FUNDING AGENCY

### 1. Select funding agencies

Funder:  ↓

### 2. Select Project(s)

Type the project title or the acronym or the grant agreement

## SELECT CONTEXTS(S)

### 1. Select community and category

Community:  ↓ Category:  ↓

### 2. Select Contexts(s) [BROWSE](#)

Please select concept...

**ELISA**

SHARE - BOOKMARK

**APP BOX**

- Publication details
- Dynamically incorporate publications in your site (HTML)
- Dynamically incorporate research data in your site (HTML)
- View EC progress report (HTML)
- Download EC progress report (CSV)

**LINK RESEARCH RESULTS**

**DEPOSIT PUBLICATIONS**

Publications (729) | Research Data (0) | Statistics

view all 729

**IR action spectroscopy shows competitive oxazolone and diketopiperazine formation in peptides depends on peptide length and identity of terminal residue in the departing fragment**

Morrison, L J; Chamot-Rooke, J; Wysocki, V. H. (2014)  
 Projects: EC | ELISA (226716)

**UV-induced tetrazole-thiol reaction for polymer conjugation and surface functionalization**

Feng, Wenqian; Li, Linxian; Yang, Chengwu; Welle, Alexander; Trapp, Oliver; Levkin, Pavel A  
**Publisher:** Karlsruhe  
**Type:** dataset  
 Identifiers: [doi:10.5445/IR/110101434](https://doi.org/10.5445/IR/110101434)

**LINK TO PUBLICATION**

Related Publications (0) | Related Research Data (0)

No related publications.

**Protein-Protein and Protein-Ligand Docking**

Hernández-Santoyo, Alejandra; Tenorio-Barajas, Aldo Yair; Altuzar, Victor; Vivanco-Cid, Héctor; Mendoza-Barrera, Claudia (2013)  
**Publisher:** InTech  
**Languages:** English  
**Types:** Part of book or chapter of book  
**Subjects:**

**LINK TO PROJECT** | **LINK TO RESEARCH DATA**

References (48) | Related Research Data (0) | Similar Publications (0) | BioEntities (1)

Search:

BioEntity	Site Name
<a href="#">10ke</a>	Protein Data Bank



**Gather outputs.  
View progress and  
report. Monitor.**

*Serviços para pesquisadores,  
coordenadores de projetos e  
gestores de pesquisa*

# Projetos: publicações e dados

 **HERMIONE**<sup>SC39</sup>






Title	Hotspot Ecosystem Research and Man's Impact on European seas
Funding	EC   FP7   SP1   ENV
Call	FP7-ENV-2008-1
Contract (GA) number	226354
Start Date	2009/04/01
End Date	2012/09/30
Open Access mandate	yes
Special Clause 39	yes
Organizations	FAU, CU, HAVFORSKNINGSINSTITUTTET, SIO, IH, National Marine Aqua, NIOZ, Acquario di Genova, THE SCOTTISH ASSOCIATION FOR MARINE SCIENCE, ArchimediX, CNR, UNIVERSITY OF THESSALY - UTH, UPM, CNRS, UB, UniHB, UNEP, CSIC, AWI, MPG, UGOT, UAzores, UAVR, SOTON, JacobsUni, HCMR, MEDIAN, IFREMER, HWU, CONISMA, ULIV, UiT, ICHEC, GEOMAR, NERC, UNIABDN, KNAW, SENCKENBERG GESELLSCHAFT FUR NATURFORSCHUNG, WCMC, Tyndall-UCC, UGent
More information	<a href="#">Detailed project information (CORDIS)</a>

Publications (351)   Research Data (481)   Statistics 

SHARE - BOOKMARK



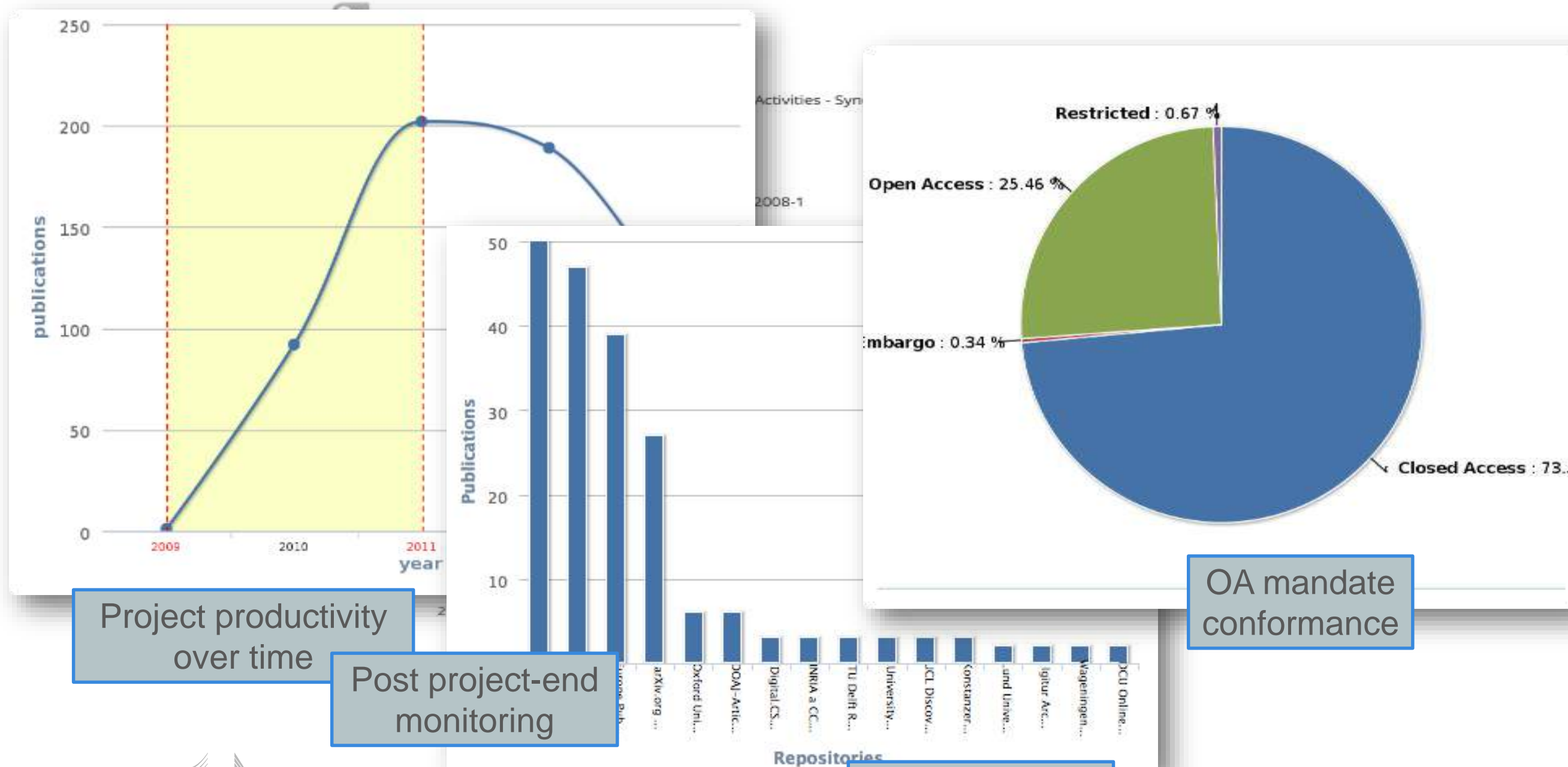
## APP BOX

-  [Publication details](#)
-  [Dynamically incorporate publications in your site \(HTML\)](#)
-  [Dynamically incorporate research data in your site \(HTML\)](#)
-  [View EC progress report \(HTML\)](#)
-  [Download EC progress report \(CSV\)](#)

[LINK RESEARCH RESULTS](#)

[DEPOSIT PUBLICATIONS](#)

# Visão geral do projeto



Project productivity over time

Post project-end monitoring

OA mandate conformance

Pubs location

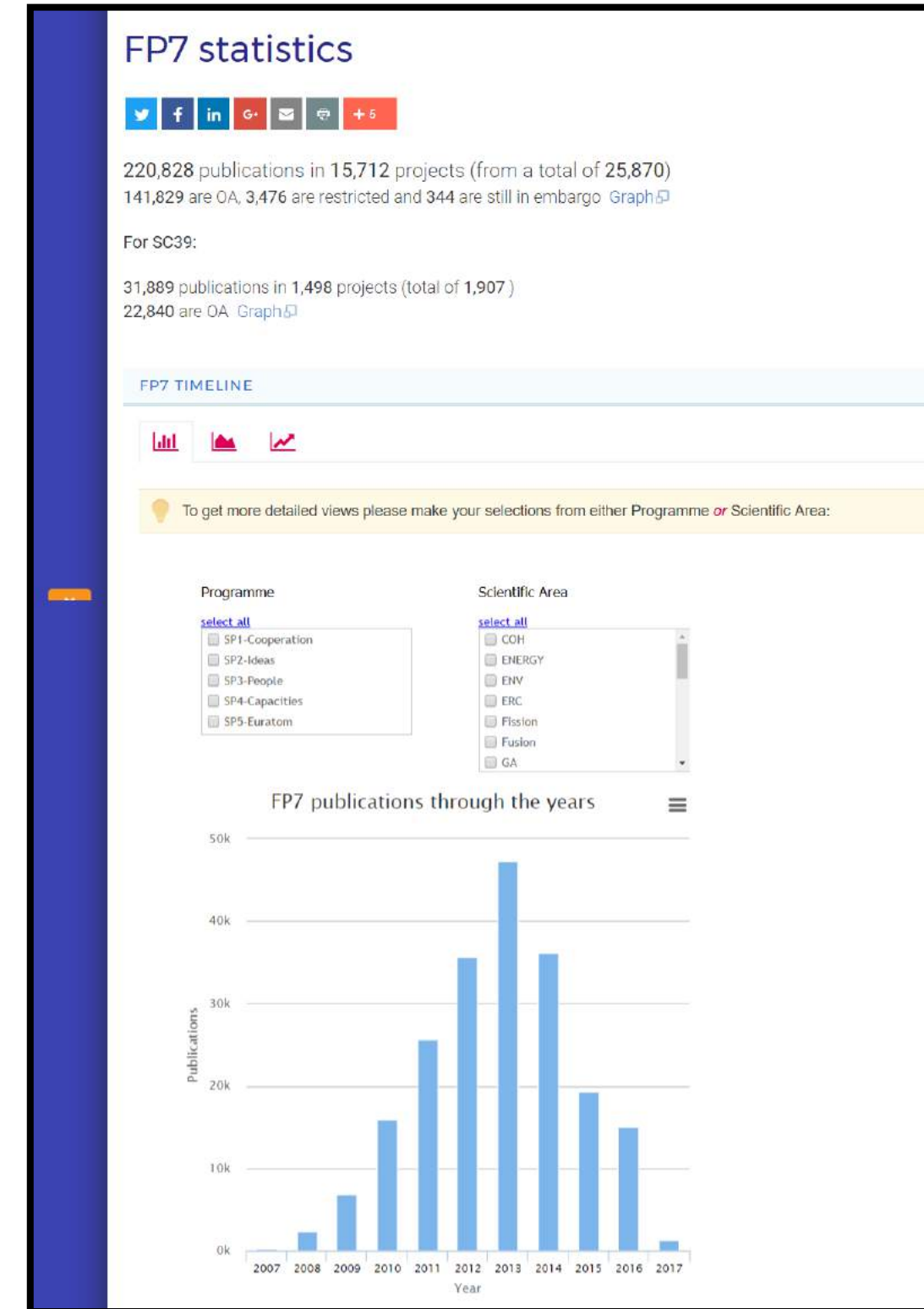
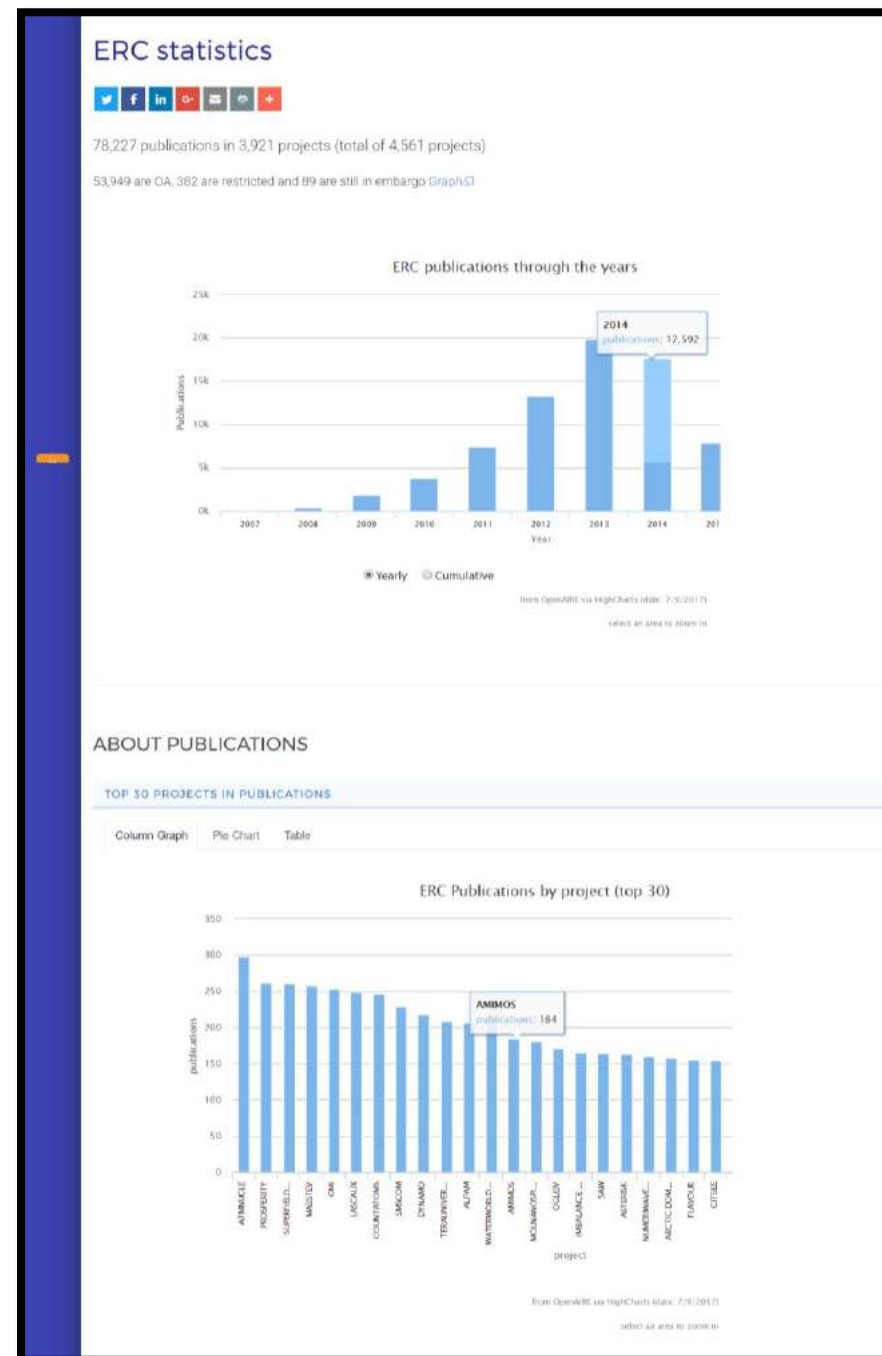
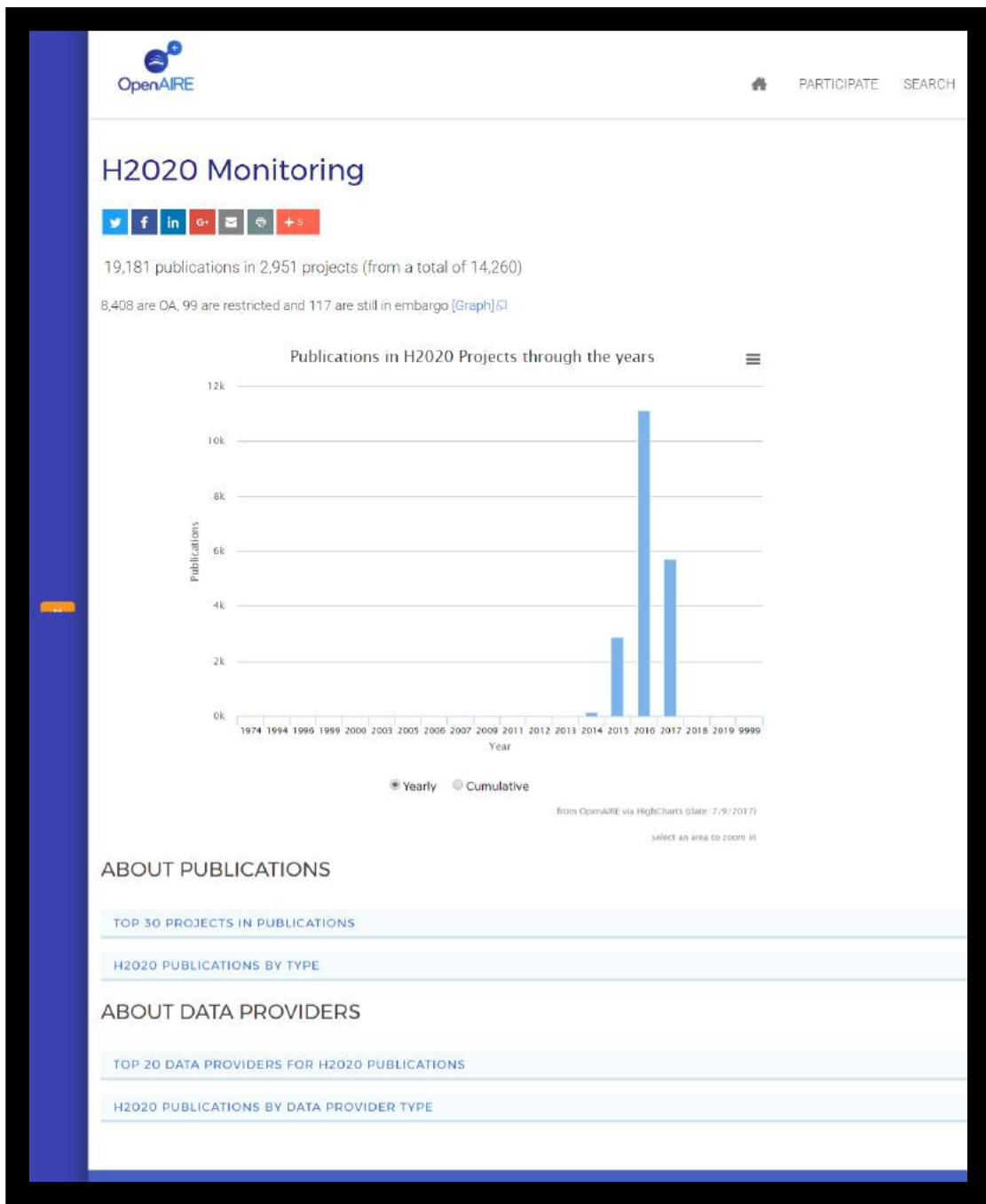
A lighthouse on a rocky cliff overlooking the ocean under a cloudy sky.

# Services for Funders

Alinhamento de políticas  
Sincronização de infraestruturas  
Monitorização e reporte

*OpenAIRE ajuda a medir o impacto do financiamento da pesquisa e a monitorizar o Acesso Aberto*

# Projetos e fontes de financiamento EC



# Atividades relacionadas com Funders no OpenAIRE



**Alihamento e suporte de políticas  
OA**



**Sinc. infraestruturas e apoio a e-  
infraestruturas nacionais**



**Diretrizes para metadados de  
informação de financiamento**



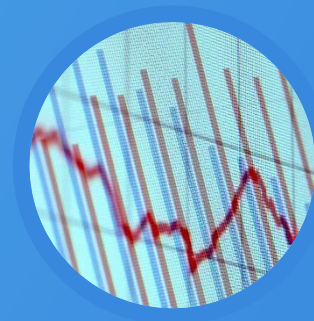
**Monitorização de compliance com  
mandatos**



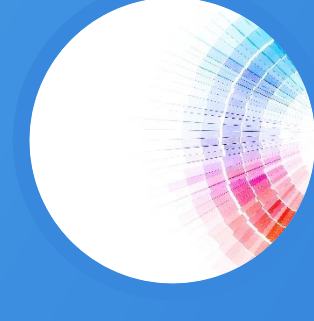
**APIs com listas de projetos para  
repositórios**



**Text mining e inferência**



**Estatísticas e reporte**



**Analytics e tendências**



# Funders Integration status (April. 2018):

Funder	Country	Status
European Commission (FP7 & H2020)	EU	Production
Portuguese Foundation for Science and Technology (FCT)	Portugal	Production
Wellcome trust (WT)	UK	Production
National Science Foundation (NSF)	US	Production
National Health and Medical Research Council (NHMRC)	Australia	Production
Australian Research Council (ARC)	Australia	Production
Ministry of Education, Science and Technological Development (MESTD)	Serbia	Production
Ministry of Science Education and Sport (MZOS/MSES)	Croatia	Production
Croatia Science Foundation (HRZZ/CSF)	Croatia	Production
Netherlands Organisation for Scientific Research (NWO)	Nederlands	Production
Science Foundation Ireland (SFI)	Ireland	Production
National Institute of Health (NIH)	US	Production
Swiss National Science Foundation (SNSF)	Switzerland	Production
Austrian Science Fund (FWF)	Austria	Production
Research Council UK (RCUK)	UK	Production
Tara Expedition Foundation (TARA)	France	BETA
Scientific and Technological Research Council of Turkey (Tubitak)	Turkey	Production
Academy of Finland	Finland	BETA
CONICYT	Chile	BETA
Ministry of Economy, Industry and Competitiveness	Spain	BETA
German Research Foundation (DFG)	Germany	BETA

# Integração de financiadores no OpenAIRE: workflow



- 1. Obtenção da lista de projetos
- 2. Análise de dados para integração e inferência
- 3. Integração em DB
- 4. Integração no módulo IIS

- 5. Inferência
- 6. Disponibilidade de dados em beta

- 7. Verificação de qualidade  
Resultados disponíveis no Portal OpenAIRE

# Alguns resultados de financiadores nacionais EU

## NWO - Netherlands Organisation for Scientific Research

Updated on 18 May 2017



11,926 publications in 3,661 projects (total of 24,180 projects)

11,368 are OA, 9 are restricted and 0 are still in embargo.

## SFI - Science Foundation Ireland

Updated on 25 July 2017

2,209 publications in 597 projects (total of 3,411 projects)

1,955 are OA, 2 are restricted and 0 are still in embargo [Graph](#)

## FCT - Fundação para a Ciência e a Tecnologia

Updated on 08 May 2017



27,230 publications in 11,566 projects (total of 37,277 projects)

25,239 are OA, 895 are restricted and 82 are still in embargo [Graph](#)

## MESTD - Ministry of Education, Science Republic of Serbia

Updated on 24 July 2017

9,527 publications in 745 projects (total of 777 projects)

9,335 are OA, 0 are restricted and 0 are still in embargo [Graph](#)

## MZOS - Ministry of Science, Education (MSES)

Updated on 25 July 2017

824 publications in 312 projects (total of 2,120 projects)

750 are OA, 0 are restricted and 0 are still in embargo [Graph](#)



All Search keywords SEARCH

FUNDER	ISS MODE	PUBLICATION YEAR	DOCUMENT TYPE
European Commission (202845)	Open Access (16877765)	2013 (1263800)	Article (10750326)
National Institutes of Health (160051)	Preprint (464188)	2014 (1250662)	Unknown (2582032)
National Science Foundation (126098)	Open Access (138879)	2012 (1250662)	
Wellcome Trust (48598)	Preprint (13039)	2011 (100987)	
Swiss National Science Foundation (47509)	Preprint (8186)	2015 (100987)	
Research Council UK (25998)		View more	
Fundação para a Ciência e Tecnologia (22324)			
Netherlands Organisation for Scientific Research (12657)			
Austrian Science Fund (10795)			
Australian Research Council (9613)			
National Health and Medical Research Council (9530)			
Ministry of Education, Youth and Sports (7942)			
Comisión Nacional de Investigación Científica y Tecnológica (5254)			
Gobierno de España (4622)			
Science Foundation Ireland (2162)			
Türkiye Bilimsel ve Teknik Araştırma Bakanlığı (1421)			
Ministry of Science, Technology and Innovation (824)			
Croatian Science Foundation (72)			
Tara Expeditions Foundation (48)			

# Publications



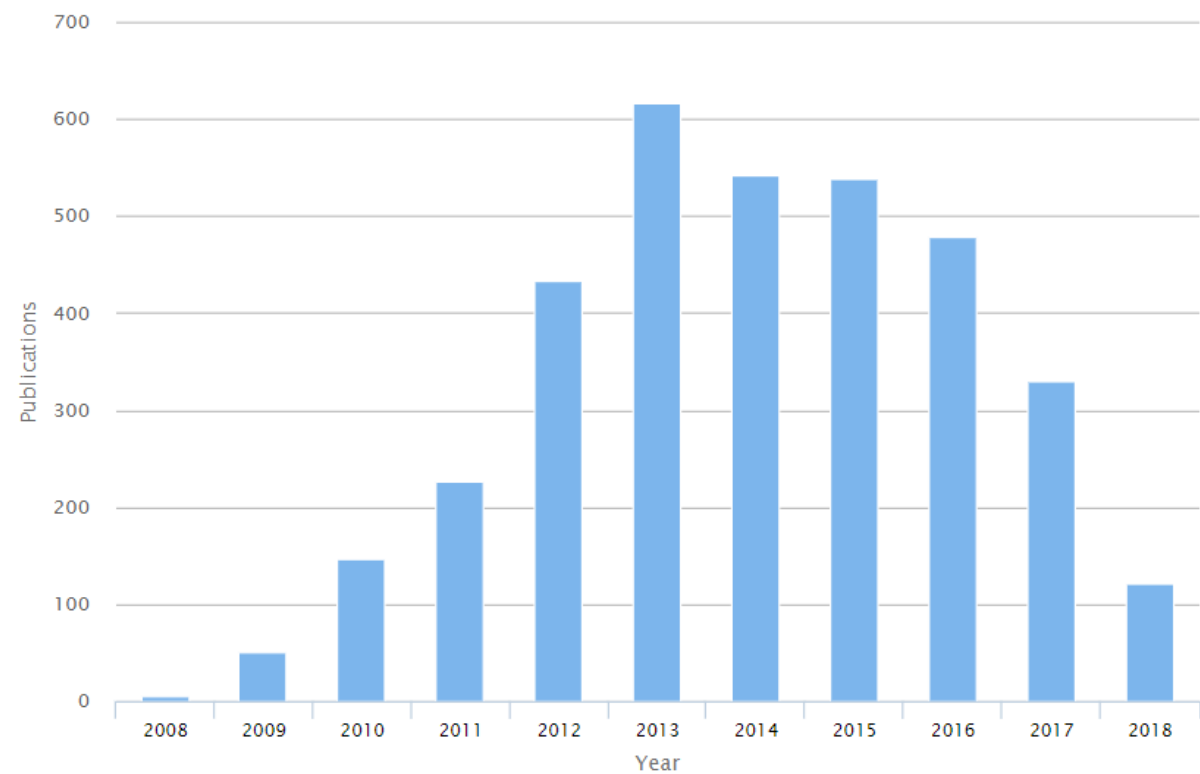
All Search keywords SEARCH

FUNDER	YEAR	END YEAR
National Institutes of Health (1682692)	1884	2016 (108163)
National Science Foundation (497646)	892	2013 (106061)
Research Council UK (75846)	283	2012 (101709)
Swiss National Science Foundation (67099)	620	2015 (100987)
European Commission (41130)	835	2011 (100921)
Fundação para a Ciência e Tecnologia (37277)		View more
National Health and Medical Research Council (25415)		
Australian Research Council (24269)		
Netherlands Organisation for Scientific Research (24180)		
Suomen Akatemia (23932)		
Deutsche Forschungsgemeinschaft (21796)		
Türkiye Bilimsel ve Teknik Araştırma Bakanlığı (16609)		
Austrian Science Fund (13661)		
Wellcome Trust (12753)		
Comisión Nacional de Investigación Científica y Tecnológica (8613)		
Gobierno de España (6674)		
Science Foundation Ireland (3411)		
Ministry of Science, Technology and Innovation (2120)		
Croatian Science Foundation (881)		
Ministry of Education, Youth and Sports (777)		
Tara Expeditions Foundation (5)		

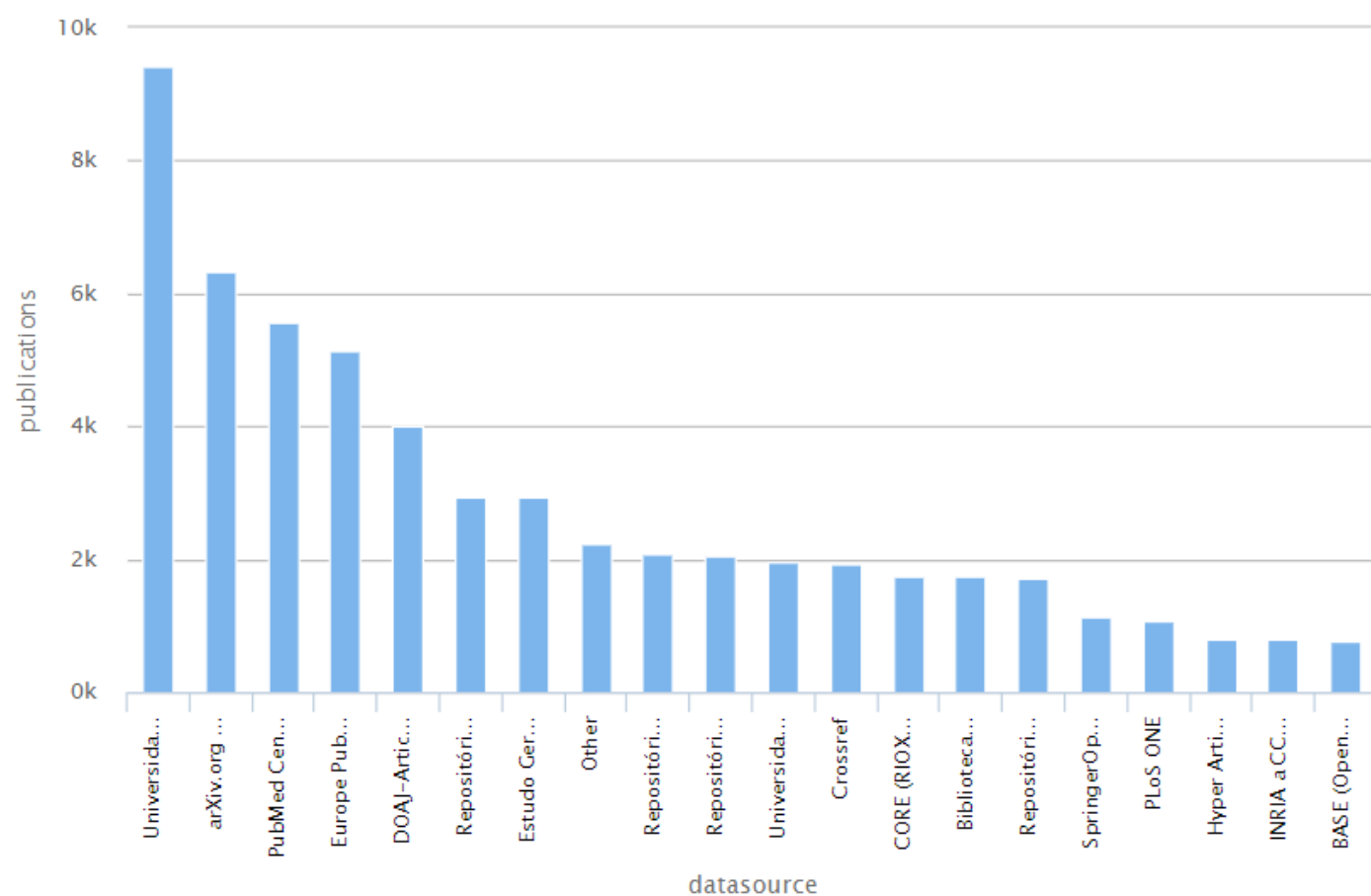
# PROJECTS

- ABOUT
- NEWS
- DOCUMENTS
- PARTNERS
- EVENTS
- HELPDESK
- GUIDELINES
- ROADS
- BLOG
- CONTACT US
- APIS

## Publications co-funded by FCT and FP7 through the years



## FCT Publications by data provider (top 20)



OpenAIRE

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PARTICIPATE | SEARCH | MONITOR | SUPPORT | OPEN ACCESS

### FCT - Fundação para a Ciência e a Tecnologia

Updated on 28 November 2017

30,197 publications in 12,793 projects (total of 37,277 projects)

28,185 are OA, 963 are restricted and 78 are still in embargo Graph

#### FCT publications through the years

Yearly Cumulative

from OpenAIRE via HighCharts (date: 11/12/2017)

select an area to zoom in

#### ABOUT PUBLICATIONS

TOP 30 PROJECTS IN PUBLICATIONS

FCT AND FP7 PUBLICATIONS

TOP 30 PROJECTS IN DATA

#### ABOUT DATA PROVIDERS

TOP 20 DATA PROVIDERS FOR FCT PUBLICATIONS

OpenAIRE computes statistics based on data retrieved from a range of sources: OA repositories and journals (literature and data), CRIS systems, library databases and end-user feedbacks.

To come up with the numbers we employ a variety of deduplication, cleaning, transforming and text-mining processes on the metadata, as well as on the actual content when this is available.

Please let us know how we can improve with new stats, or tell us if you see any discrepancies that we should know about.

ABOUT | PARTNERS | NOADS

NEWS | EVENTS | BLOG

FAQ | HELPDESK | CONTACT US

DOCUMENTS | GUIDELINES | APIS

OpenAIRE

UNLESS OTHERWISE INDICATED, ALL CONTENT IS LICENSED UNDER A CREATIVE COMMONS ATTRIBUTION (CC BY) LICENSE. OPENAIRE IS POWERED BY D.NET

Funder stats page

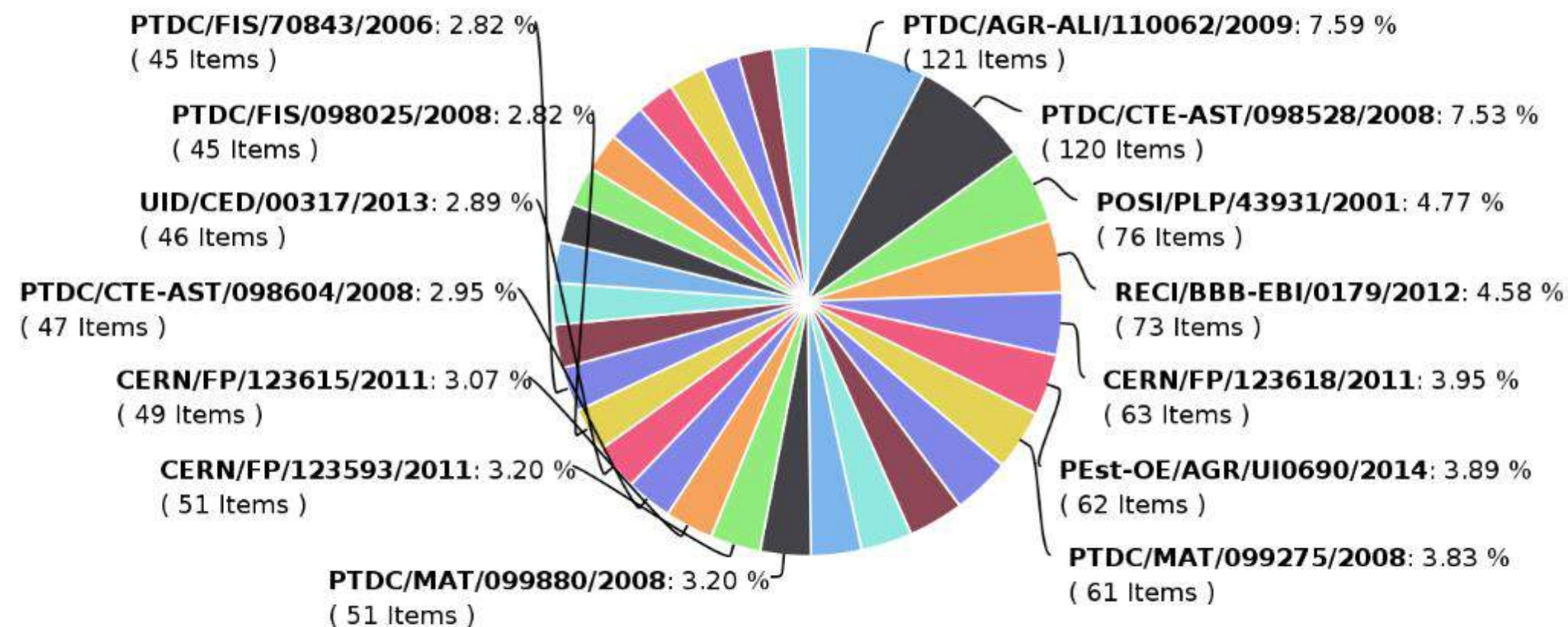
# Funcionalidades que o OpenAIRE pode oferecer

Usando o Portal OpenAIRE, um financiador/agência de fomento pode:


- filtrar publicações/dados por financiadores e navegar por linhas de financiamento específicas
- pesquisar por título, acrónimo ou ID do projeto e ver estatísticas específicas do projeto: publicações/dados ao longo do tempo, estatuto de AA, onde foram publicadas/depositadas, etc.
- ver estatísticas globais de financiador/linha de financiamento
- Correlacionar autores/instituições com informação de financiamento
- visualizar clusters de publicações/dados ou financiamento baseados na sua interligação (a nível nacional ou internacional).

# Monitoração e reporte: estatísticas

FCT Publications by project (top 30)



# Publicações co-financiadas

 [Assessing connectivity in coastal systems as a tool for fish management and conservation](#)

Santos, Patrick Reis, 1979- (2013)

**Languages:** English

**Types:** Doctoral thesis

**Subjects:** Aquacultura, Viveiros, Estuários, Teses de doutoramento (co-tutela) - 2013, Otólitos



SHARE - BOOKMARK



DOWNLOAD FROM

[Universidade de Lisboa: Repositório.UL](#)

Connectivity is a critical component of m...  
and p...  
under...  
Estua...  
quant...

## Funding

Go to: ▼

T.G. gratefully acknowledges the support by the Australian Research Council Discovery Early Career Researcher Award (ARC DECRA DE120100508). N.C. gratefully acknowledges the support of the Marie Curie (PI: Phenominer, grant number 301806). A.O. and D.S. kindly acknowledge the support by the Wellcome Trust grant (098051) and National Institutes of Health grant (NIH) (1 U54 HG006370-01). F.M.C. gratefully acknowledges the support by the Portuguese FCT through the LASIGE Strategic Project (PEst-OE/EEI/UI0408/2014) and SOMER project (PTDC/EIA-EIA/119119/2010). G.B. acknowledges the RD-Connect FP7 grant (EU: 205444 RD-Connect), the corresponding NHMRC-EU grant (NHMRC: APP1055319) and the Raine Clinician Research Fellowship (201401). P.N.R. acknowledges the supported by the Bundesministerium für Bildung und Forschung (BMBF 0313911). Funding for open charge: Australian Research Council - Discovery Early Career Researcher Award (DE120100508).

reference

Francisco M.; Baynam,

identification of areas for  
gene and protein name  
it. However, phenotypes  
ated text is available for  
manually annotated with  
ice standard for free text  
ognition error analysis,

incorporating 32 different types of test cases corresponding to 2184 HPO concepts. Finally, three established phenotype concept recognizers (NCBO Annotator, OBO Annotator and Bio-Lark CR) were comprehensively evaluated, and results are reported against both the text corpus and the test suites. The gold standard and test suites corpora are available from [http://bio-lark.org/hpo\\_res.html](http://bio-lark.org/hpo_res.html).



SHARE - BOOKMARK



DOWNLOAD FROM

[Oxford University Press](#)

[Europe PubMed Central](#)

FUNDED BY PROJECTS

[WT | Wellcome Trust Sanger Instit...](#)

[FCT | PTDC/EIA-EIA/119119/2010](#)

[ARC | A framework for building dy...](#)

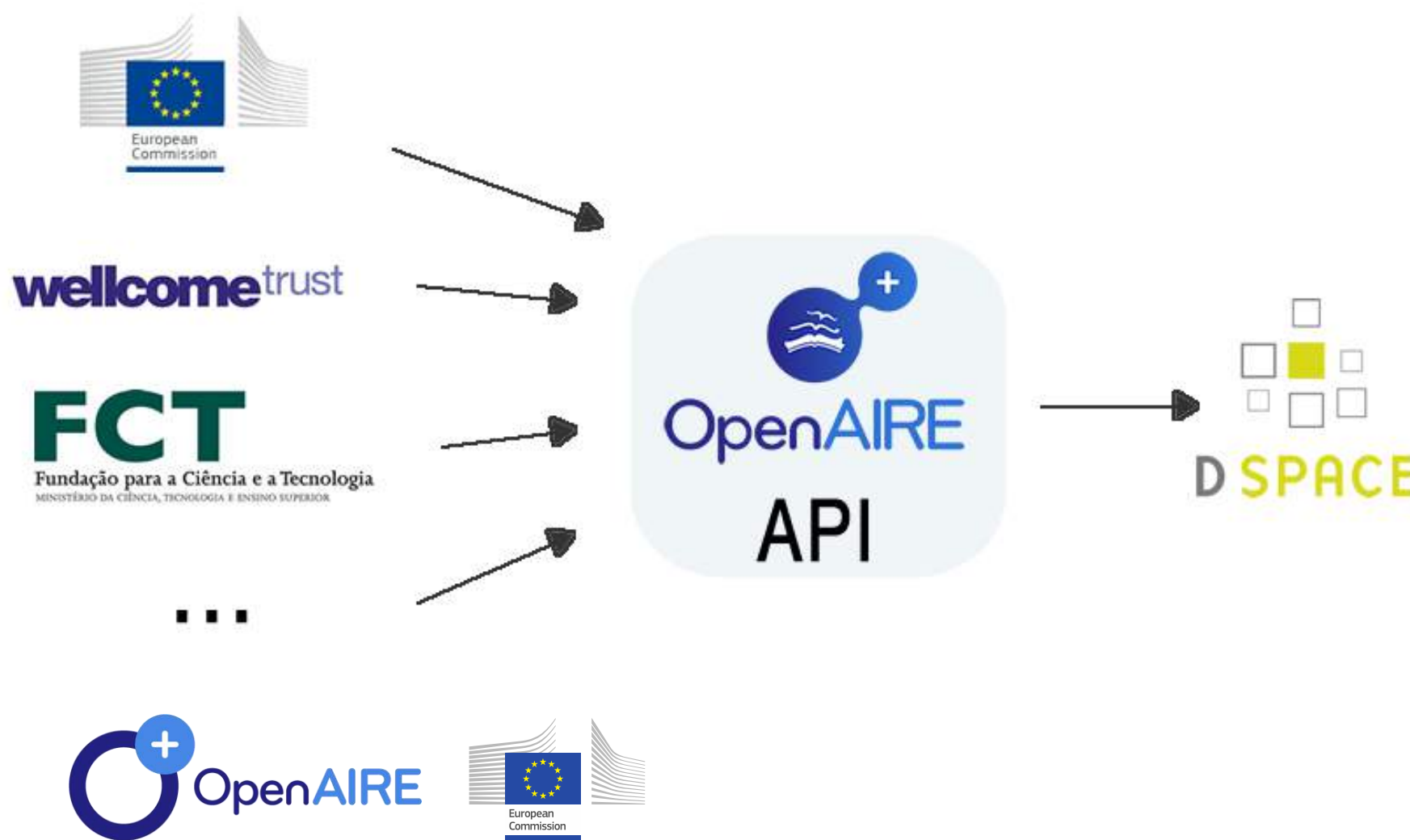
[EC | PHENOMINER](#)



# API OpenAIRE

Esta APIs oferece acesso a metadados acerca dos projetos financiados por todos os financiadores integrados no OpenAIRE (Dspace, Eprints, outras plataformas).

(E.g. Funders Projects List Dspace Add-on)



The screenshot shows a web browser window displaying a DSpace repository page. The URL is <https://repositorium.sdum.uminho.pt/submit#null>. The page is titled 'Descreva o seu registo | Uni...'. The user is logged in as 'rsaraiva@s dum.umi...'. The main content area is titled 'Resumo' and contains a search box with the text 'Switch'. Below the search box, there is a list of funded projects with the following details:

Projeto financiado	Patrocinadores
641553 - HITECA - technology development and fabrication of Hig...	
237039 - PHOTORCA - Photoregulated organocatalysis - From caged...	
233157 - MECHANOCHEM SWITCHES - Switching the structure-functio...	
285952 - SOLARGAIN - Low-cost switchable reflective polymeric s...	
219291 - LIGHTSWITCHES - Multifunctional DNA light-switches: se...	
219828 - LIGHT INDUCED SWITCH - Nanoporous Materials and Supram...	
200431 - INNOSHADE - Innovative Switchable Shading Appliances b...	
324495 - SWITCH-HD - Switching the disease off: Effects of spat...	
328078 - NANOSCOPE - Mastering novel switchable molecular mater...	
328893 - SINGLE-MOLEC-SWITCH - Developing single-molecule switc...	

Below the list, there is a section for 'Informações adicionais' and a 'Comentários e sugestões' section. The page also includes a 'registo público.' label and a note about public visibility.

# Diretrizes de interoperabilidade & validador.

Normas comuns/boas práticas para provedores de dados (Diretrizes para repositórios de publicações, de dados, agregadores, revistas AA, sistemas CRIS). Validador: web service ou standalone

*Provedores de dados, gestores de repositórios, repositórios de dados e CRIS*

# Diretrizes para provedores de dados

## 1 Literature Repositories

(and journal platforms)

Dublin Core (DRIVER)

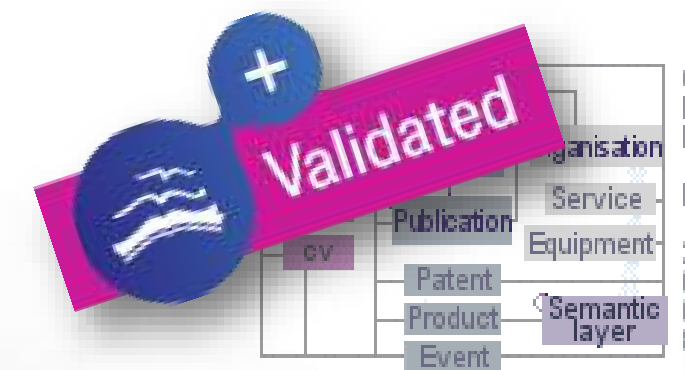
## 2 Data Repositories

(and archives/data centres)

Datacite

## 3 CRIS systems

CERIF-XML



# Teste a compatibilidade OpenAIRE

### Run Compatibility Test

## 1 Select repository/journal

Base URL (\*)

Please choose existing Base URL...

Or Manually Enter a Base Url (\*)

https://zenodo.org/oai2d

## 2 Select guidelines

- OpenAIRE for Literature Repositories (OpenAIRE 3.0) [More info](#)
- OpenAIRE for Literature Repositories (OpenAIRE 2.0) [More info](#)
- OpenAIRE for Literature Repositories (Basic - ex DRIVER) [More info](#)
- OpenAIRE for Data Archives (OpenAIRE 2.0) [More info](#)

[Show Advanced](#)

## 3 Select parameters

Number of records:  All  Custom

Set:

Would you like to group your results by a specific record's field?

No  Yes

XPath Examples: 1. //header/setSpec 2. //record/metadata/\*[(name()='dc:language')]

[Previous](#)

You will be notified by email with the results of the compatibility test.

[Start validation](#)

Choose from the menu

HOME JOIN OPENAIRE MANAGE YOUR DATASOURCES **TEST COMPATIBILITY** HELP

RUN COMPATIBILITY TESTS  
BROWSE TEST RESULTS  
SCORE INFORMATION

Finally check results

### Test Summary

Repository: https://zenodo.org/oai2d  
by jochen.schirrwagen@uni-bielefeld.de  
Job Type: Compatibility Test  
Validation Set: none  
Guidelines: For Literature Repositories (3.0)  
Started: 2016-06-11 20:15:56  
Ended: 2016-06-11 22:24:15  
Duration: 2 hours 8 mins 19 sec  
Records Tested: 46315  
Score for Content: 100  
Score for Usage: 100  
[Download Summary](#)

Rule Name	Rule Description	Rule Weight	# Records	Success
Field Access Level (R)	Use terms from the info:au-repo-access-terms vocabulary. <a href="#">View guideline</a>	5	46315/46315	
Field Alternative Identifier (R)	List alternative identifiers for this publication that are not the primary identifier (repository splash page), e.g. the DOI of publisher's version the PuOleId: <id>. <a href="#">View guideline</a>	1	0/46315	
Field Audience (R)	A class of entity may be determined by the creator or the publisher or by a third party. <a href="#">View guideline</a>	1	0/46315	
Field Contributor (R)	Examples of contributors are: a supervisor, editor, technician or data collector. The DC element "contributor" describes the scientist(s) that have made contributions to the given scientific output, not as a primary creator or (commercial) publisher. <a href="#">View guideline</a>	1	0/46315	

A photograph of three people rock climbing a steep, dark rock face. They are silhouetted against a bright, cloudy sky. The background of the slide features a pattern of light blue circles and diamonds on the left and dark blue circles and diamonds on the right.

# Content providers Dashboard

Service for validation, registration,  
content enrichment and metrics.

*One Stop Shop for Repository managers*

A photograph of several people running on a path, silhouetted against a bright, hazy background. The background of the slide features a pattern of light blue circles and diamonds on the left and dark blue circles and diamonds on the right.

# Research Community Dashboard

A window to community's research.

*Open Science as a Service*



# Dashboard provedores de conteúdo

Serviço para validação, registo, enriquecimento de conteúdo e métricas.

*One Stop Shop para gestores de repositórios*

## FONTES

Registo

Atualização

## COMPATIBILIDADE

Validação

Histórico de Validação

Monitorização da Coleção



## CONTEÚDO

Eventos

Enriquecimentos

Notificações

## MÉTRICAS

Possibilita estat. de uso

Visualizações e downloads



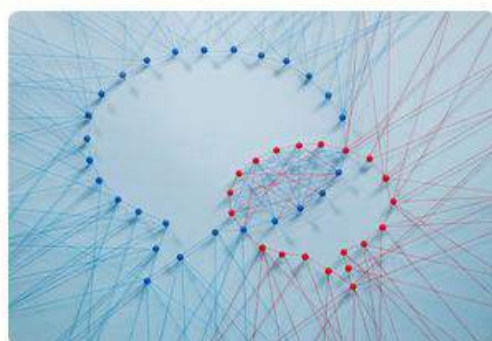
## Register

Register data sources in the OpenAIRE infrastructure



## Validate

Validate data sources against OpenAIRE guidelines



## Notifications

View notifications to enrich the metadata and the content



## Metrics

View aggregated, cleaned usage statistics for repository access



# CONTEÚDO – Eventos, Notificações

- **Enriquecimentos:** Informação adicional sobre registos já existentes
- **Acrescentos:** Novos registos ainda não existentes no repositório
- **Alertas:** Informação errada em registos já existentes

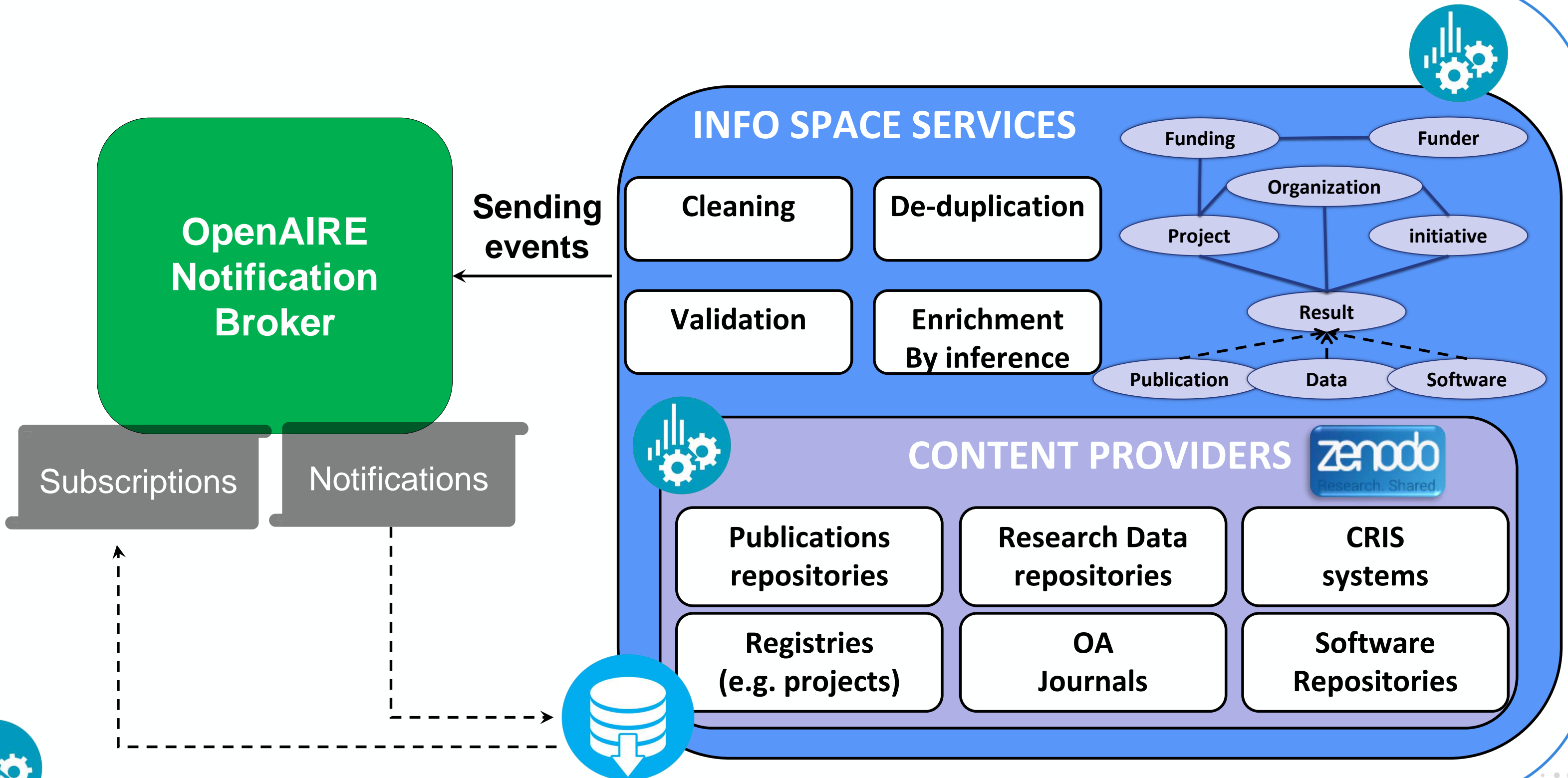
The screenshot displays the OpenAIRE PROVIDE interface for the repository 'Universidade do Minho: RepositoriUM'. The page is divided into two main sections: 'MORE' (enrichments) and 'MISSING' (missing information). Each section contains a table with two columns: 'EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORYUM CONTENT' and '# OF EVENTS'.

EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORYUM CONTENT	# OF EVENTS
<a href="#">ENRICH/MORE/OPENACCESS_VERSION</a> <i>OpenAIRE discovered another Open Access version of a publication</i>	18296
<a href="#">ENRICH/MORE/PID</a> <i>OpenAIRE discovered another persistent identifier associated to your publications</i>	5725
<a href="#">ENRICH/MORE/SUBJECT/JEL</a> <i>OpenAIRE discovered more Journal of Economic Literature (JEL) classification terms that can be associated to your publications</i>	4151

EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORYUM CONTENT	# OF EVENTS
<a href="#">ENRICH/MISSING/PROJECT</a> <i>OpenAIRE discovered references to research projects that can be associated to your publications</i>	3422
<a href="#">ENRICH/MISSING/PID</a>	3132
<a href="#">ENRICH/MISSING/SUBJECT/DDC</a> <i>OpenAIRE discovered Dewey Decimal classification terms (DDC) that can be associated to your publications</i>	736

# OpenAIRE Broker service



# Enrichments for Universidade do Minho: RepositoriUM

## MORE

EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORYUM CONTENT	# OF EVENTS
ENRICH/MORE/OPENACCESS_VERSION <i>OpenAIRE discovered another Open Access version of a publication</i>	18296
ENRICH/MORE/PID <i>OpenAIRE discovered another persistent identifier associated to your publications</i>	5725
ENRICH/MORE/SUBJECT/JEL <i>OpenAIRE discovered more Journal of Economic Literature (JEL) classification terms that can be associated to your publications</i>	4151
ENRICH/MORE/SUBJECT/DDC <i>OpenAIRE discovered more Dewey Decimal classification terms (DDC) that can be associated to your publications</i>	1028
ENRICH/MORE/SUBJECT/MESHEUROPMC <i>OpenAIRE discovered more classification terms from the Medical Subject Headings (MeSH) that can be associated to your publications</i>	799
ENRICH/MORE/SUBJECT/ARXIV <i>OpenAIRE discovered more ARXIV classification terms that can be associated to your publications</i>	636
ENRICH/MORE/SUBJECT/ACM <i>OpenAIRE discovered more ACM classification terms that can be associated to your publications</i>	158
<b>Total</b>	<b>30793</b>

## MISSING

EVENTS THAT MAY ENRICH UNIVERSIDADE DO MINHO: REPOSITORYUM CONTENT	# OF EVENTS
ENRICH/MISSING/PROJECT <i>OpenAIRE discovered references to research projects that can be associated to your publications</i>	152
ENRICH/MISSING/PID <i>OpenAIRE discovered persistent identifiers that can be associated to your publications</i>	152
ENRICH/MISSING/SUBJECT/DDC <i>OpenAIRE discovered Dewey Decimal classification terms that can be associated to your publications</i>	152
ENRICH/MISSING/SUBJECT/ARXIV <i>OpenAIRE discovered ARXIV classification terms that can be associated to your publications</i>	152
ENRICH/MISSING/ABSTRACT <i>OpenAIRE discovered missing abstracts among your publications</i>	152
ENRICH/MISSING/SUBJECT/MESHEUROPMC <i>OpenAIRE discovered classification terms from the Medical Subject Headings (MeSH) that can be associated to your publications</i>	152
ENRICH/MISSING/OPENACCESS_VERSION <i>OpenAIRE discovered Open Access versions of your publications</i>	152
ENRICH/MISSING/SUBJECT/JEL <i>OpenAIRE discovered Journal of Economic Literature (JEL) classification terms that can be associated to your publications</i>	152
ENRICH/MISSING/SUBJECT/ACM <i>OpenAIRE discovered ACM classification terms that can be associated to your publications</i>	32
<b>Total</b>	<b>8623</b>

The screenshot shows a search result for 'Universidade do Minho: RepositoriUM'. The main content area displays a list of results, with the first result selected. The selected result is a publication with the following details:

- ID:** oai.repositorium.sdum.uminho.pt:1822/29665
- Title(s):** Understanding SaPI1 specific packaging determinants; Estudo dos determinantes envolvidos no empacotamento da SaPI1
- Author(s):** Bento, Joana Caetano
- PID(s):** Tese de doutoramento Programa Doutoral em Engenharia Biomédica; Staphylococcus aureus encodes numerous virulence factors that allow it to cause a wide variety of infections. S. aureus is, in fact, one of the leading causes of nosocomial and community acquired infections. Many of the toxin and antibiotic resistance genes in S. aureus reside on mobile genetic elements, that includes mobile gene cassettes, phage, transposons, plasmids, and integrations. We identified the SaPI1, a bacteriophage that carries several enterotoxin genes, employ a novel mechanism for horizontal transfer that exploits

On the right side, there is a 'TWEAK AND REFINE EVENTS' sidebar with the following settings:

- Trust:** Slider set to 100%
- Title:** Selected
- Author:** Selected
- Subject:** Selected
- Date:** 01/17/2014 and 01/17/2018 selected

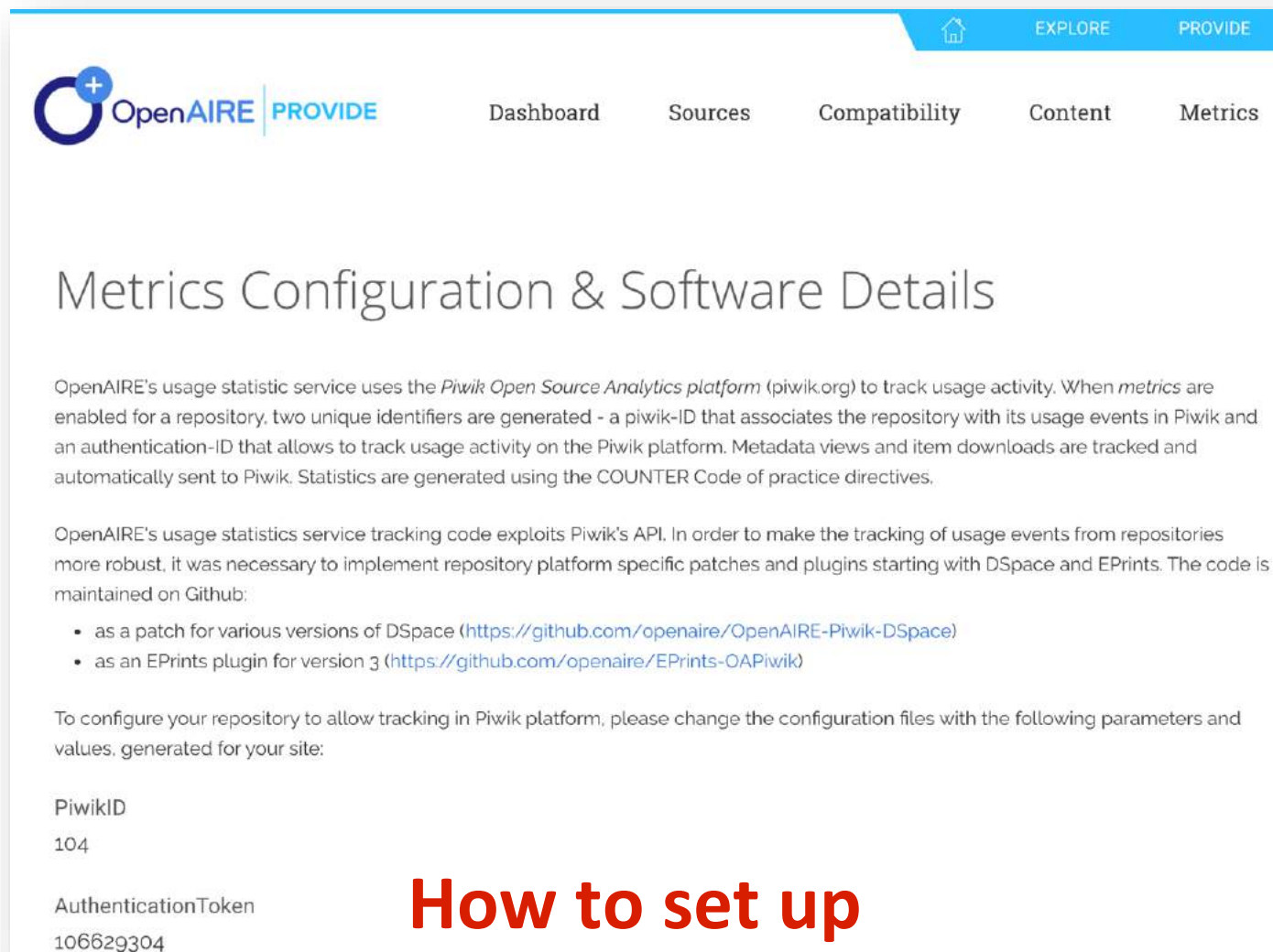
Buttons for 'SUBSCRIBE TO THESE EVENTS', 'APPLY', and 'CLEAR' are visible.

**Seleção interativa das notificações relevantes**

**Tipo e número de notificações para o repositório**

# MÉTRICAS – Possibilita estatísticas de uso, Views e downloads

- Usa um formato comum para troca de dados de uso
- Usa Matomo (piwik) backend
- Processa os dados, de acordo com COUNTER



The screenshot shows the 'Metrics Configuration & Software Details' page in the OpenAIRE PROVIDE interface. It includes a navigation bar with 'EXPLORE' and 'PROVIDE' tabs, and a sidebar with 'Dashboard', 'Sources', 'Compatibility', 'Content', and 'Metrics' options. The main content area contains text explaining the usage of the Piwik Open Source Analytics platform and provides configuration details for PiwikID and AuthenticationToken.

OpenAIRE PROVIDE Dashboard Sources Compatibility Content Metrics

## Metrics Configuration & Software Details

OpenAIRE's usage statistic service uses the *Piwik Open Source Analytics platform* (piwik.org) to track usage activity. When *metrics* are enabled for a repository, two unique identifiers are generated - a piwik-ID that associates the repository with its usage events in Piwik and an authentication-ID that allows to track usage activity on the Piwik platform. Metadata views and item downloads are tracked and 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 events from repositories more robust, it was necessary to implement repository platform specific patches and plugins starting with DSpace and EPrints. The code is maintained on Github:

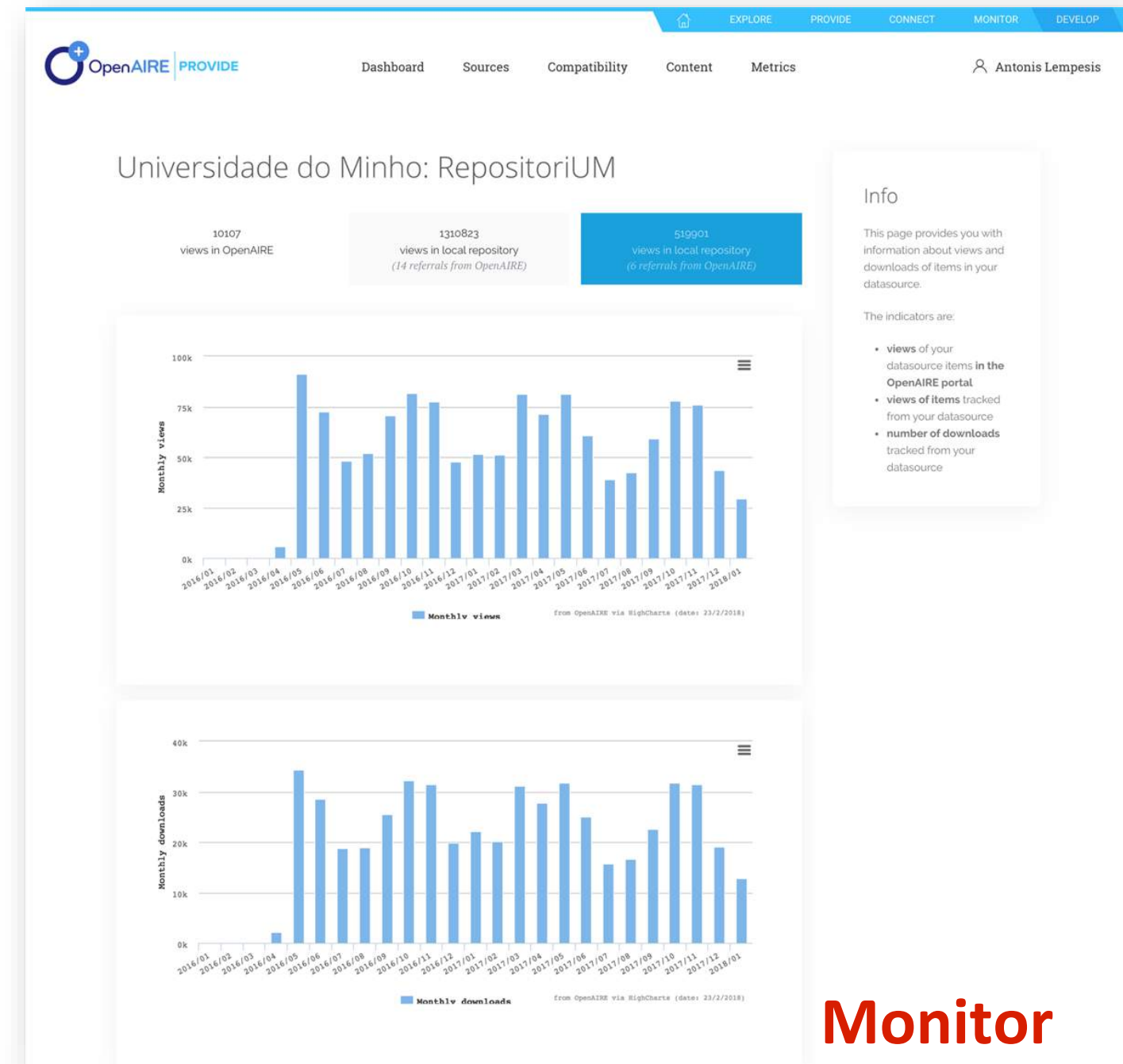
- as a patch for various versions of DSpace (<https://github.com/openaire/OpenAIRE-Piwik-DSpace>)
- as an EPrints plugin for version 3 (<https://github.com/openaire/EPrints-OAPiwik>)

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

PiwikID  
104

AuthenticationToken  
106629304

**How to set up**



The screenshot shows the 'Metrics' dashboard for 'Universidade do Minho: RepositoriUM'. It features a navigation bar with 'EXPLORE', 'PROVIDE', 'CONNECT', 'MONITOR', and 'DEVELOP' tabs, and a sidebar with 'Dashboard', 'Sources', 'Compatibility', 'Content', and 'Metrics' options. The main content area displays three summary cards for views and downloads, and two bar charts showing monthly views and downloads over time.

OpenAIRE PROVIDE Dashboard Sources Compatibility Content Metrics Antonis Lempesis

## Universidade do Minho: RepositoriUM

10107 views in OpenAIRE

1310823 views in local repository (14 referrals from OpenAIRE)

519901 views in local repository (6 referrals from OpenAIRE)

Info

This page provides you with information about views and downloads of items in your datasource.

The indicators are:

- views of your datasource items in the OpenAIRE portal
- views of items tracked from your datasource
- number of downloads tracked from your datasource

Monthly views

Monthly downloads

**Monitor**

# Uma palavra final sobre um projeto relacionado...



**The future of science is Open**

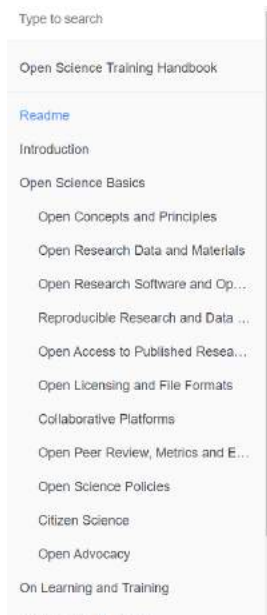
**START YOUR RESEARCH  
TRAINING NOW**

# Open Science Training Handbook



- Disponível como GitBook e para download (PDF, epub, mobi)
- Licença CC 0 para facilitar a reutilização

[book.fosteropenscience.eu](https://book.fosteropenscience.eu)



## The Open Science Training Handbook

A group of fourteen authors came together in February 2018 at the TIB (Technische Informationsbibliothek; German National Library of Science and Technology) in Hannover to create an open, living handbook on Open Science training. High-quality trainings are fundamental when aiming at a cultural change towards the implementation of Open Science principles. Teaching resources provide great support for Open Science instructors and trainers. The Open Science training handbook will be a key resource and a first step towards developing Open Access and Open Science curricula and andragogies. Supporting and connecting an emerging Open Science community that wishes to pass on their knowledge as multipliers, the handbook will enrich training activities and unlock the community's full potential.



## Open Science Basics

This chapter aims to provide concrete context as well as the key points for the most relevant aspects of Open Science. Starting from the core concepts and principles of Open Science, the chapter continues to address components such as Open Research Data, Open Access, Open Peer Review and Open Science Policies, together with more practical aspects such as Reproducible Research, Open Source Software and Open Licensing and File Formats.

<https://doi.org/10.5281/zenodo.1212496>

# Open Science Toolkit

## What is Open Science?

This introductory module will help you to understand what open science is and why it is something you should care about.



## Best Practice

This module introduces policies and other environmental factors that influence good practice in open research.



## Open Peer Review (OPR)

This module will introduce you to OPR and let you know how you can get started with it.



## Data Protection and Ethics

This module helps you to get to grips with responsible data sharing.



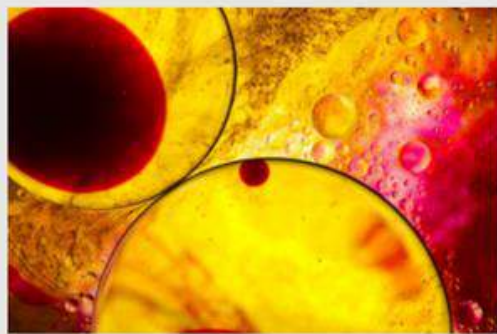
## Licensing

This module helps you to find the best license for your open research outputs.



## Open Data

In this module, you'll focus on which data you can share and how you can go about doing this most effectively.



## OSS and Workflows

This module introduces Open Source Software (OSS) and workflows as an emerging but critical component of Open Science.



## Open Innovation

This module will show you how Responsible Research and Innovation is accelerated through Open Science.



## Open Access Publishing

This module will help you become skilled in Open Access publication in the wider context of Open Science.



## Preprints

This module introduces the practice of sharing preprints and helps you to see how it can support your research.



[www.fosteropenscience.eu/toolkit](http://www.fosteropenscience.eu/toolkit)

 [www.openaire.eu](http://www.openaire.eu)

 [@openaire\\_eu](https://twitter.com/openaire_eu)

 [facebook.com/groups/openaire](https://facebook.com/groups/openaire)

 [eloy@sdum.uminho.pt](mailto:eloy@sdum.uminho.pt);  
[pedroprincipe@sdum.uminho.pt](mailto:pedroprincipe@sdum.uminho.pt)