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OpenAIRE Guidelines

Promoting Repositories Interoperability and
Supporting Open Access Funder Mandates

1 July 2015





AGENDA

1. The context: OpenAIRE infrastructure
2. OpenAIRE guidelines for data sources
3. Adoption and mapping with other repository networks
4. Future Directions
5. Tools for repositories compatibility

**PUBLICATION
OR DATA
REPOSITORY?
PUBLISHER?
CRIS?**

Join up. It's simple!

Shared science
is better science.



OpenAIRE
www.openaire.eu



The context:

OpenAIRE infrastructure

1/5

OpenAIRE

OPEN ACCESS INFRASTRUCTURE

for research in Europe

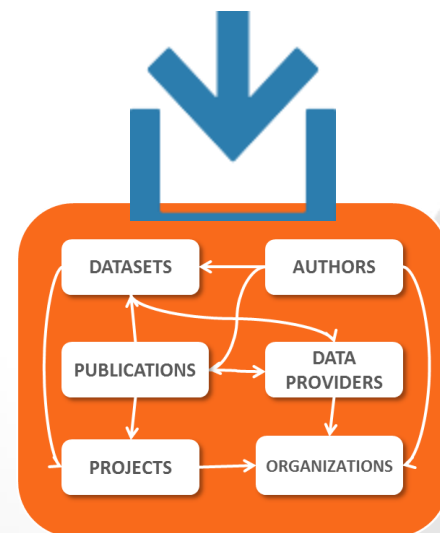
www.openaire.eu

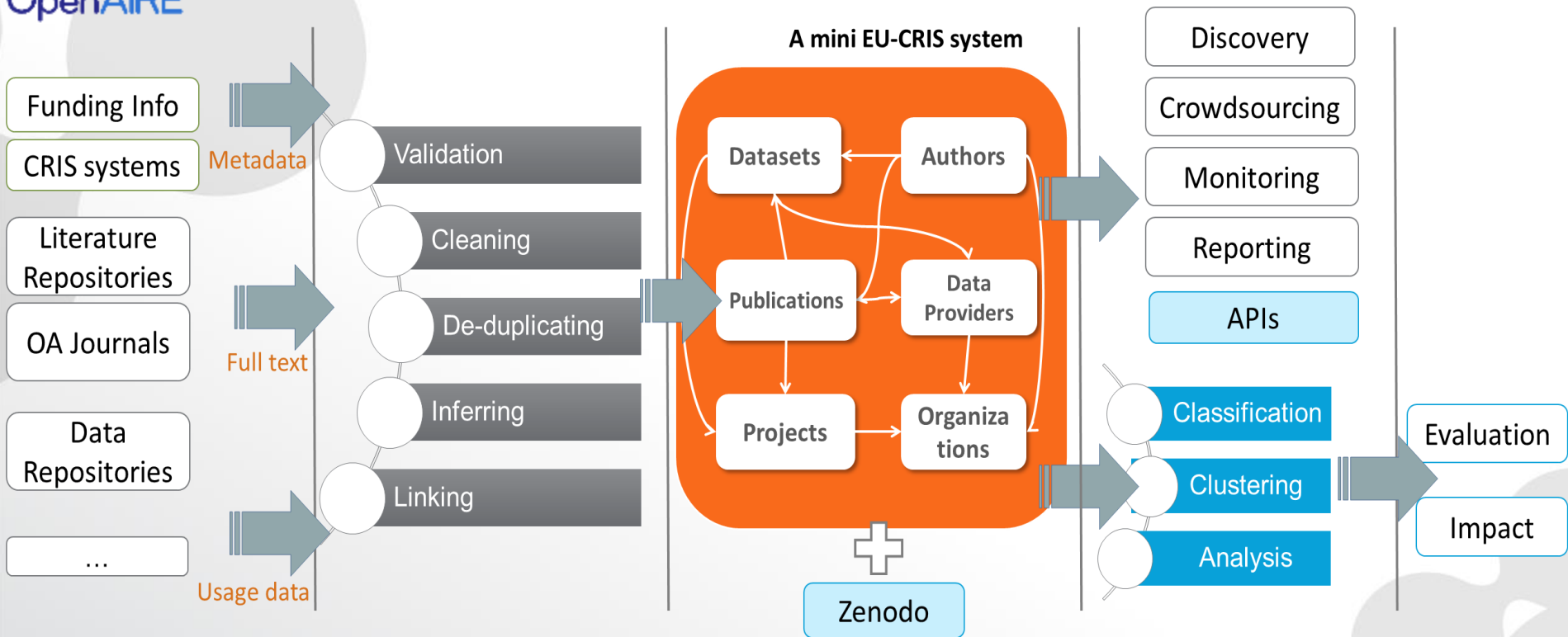
Project & Infrastructure

Guided by OA funder policies
(European Commission)

Participatory approach
(human & e-infrastructure)

**Integrated Scientific
Information System**





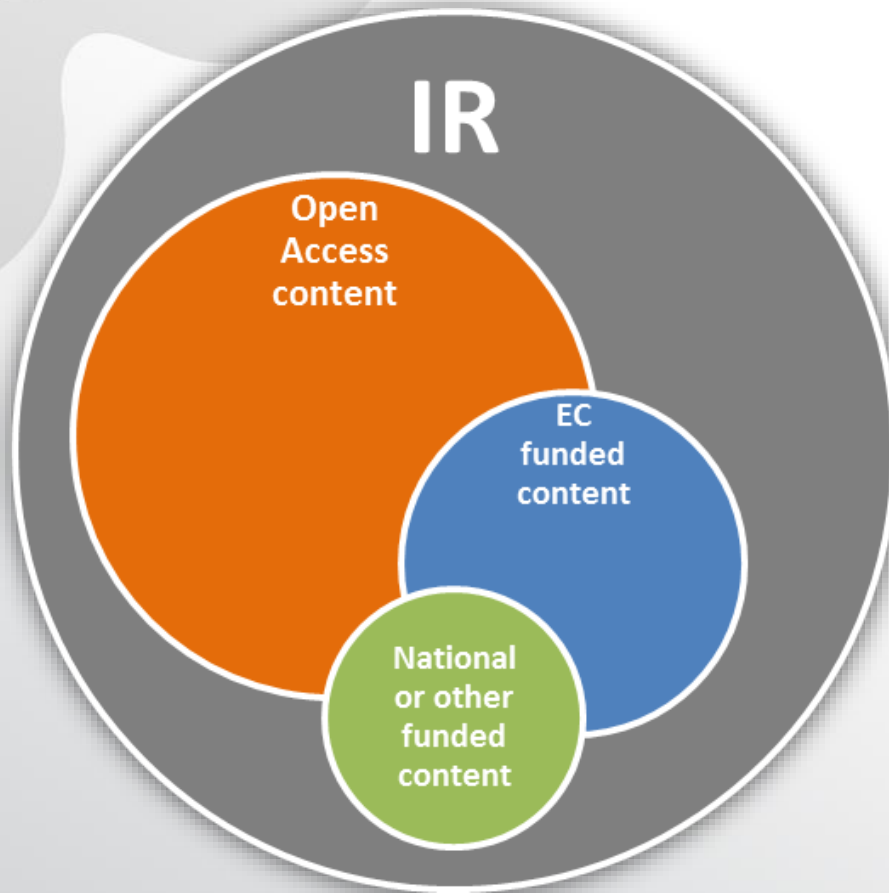
Data Providers

OpenAIRE Platform

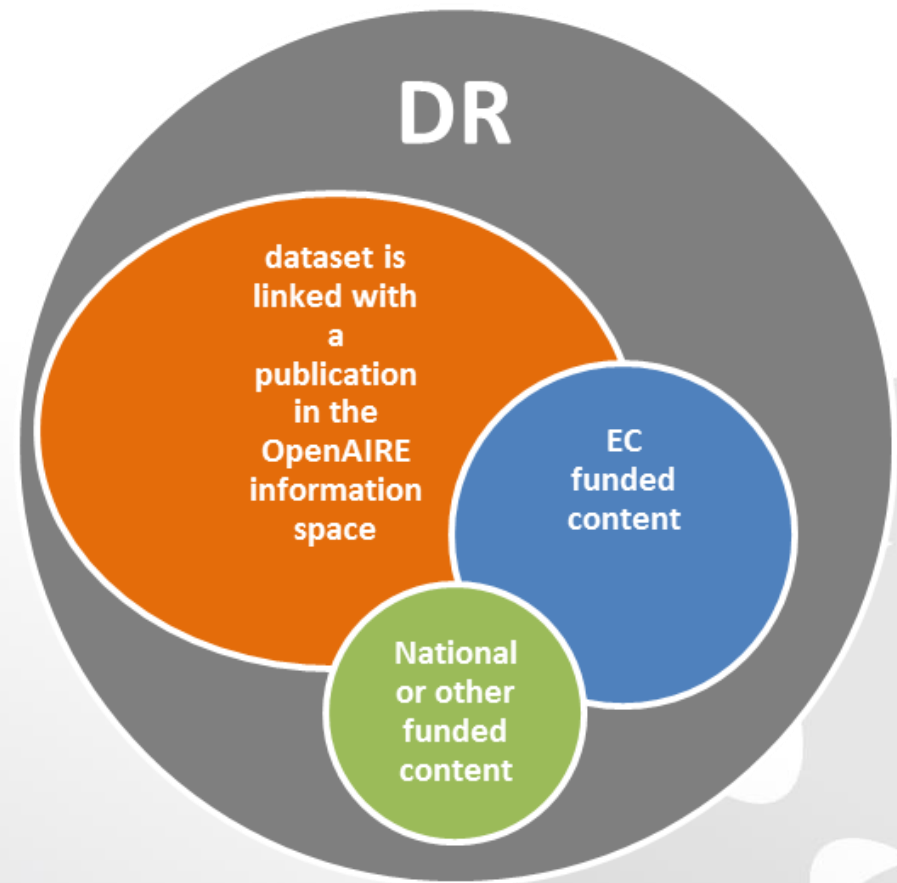
Services

Content acquisition policy

Publications in OpenAIRE



Data in OpenAIRE





OpenAIRE Guidelines for data sources



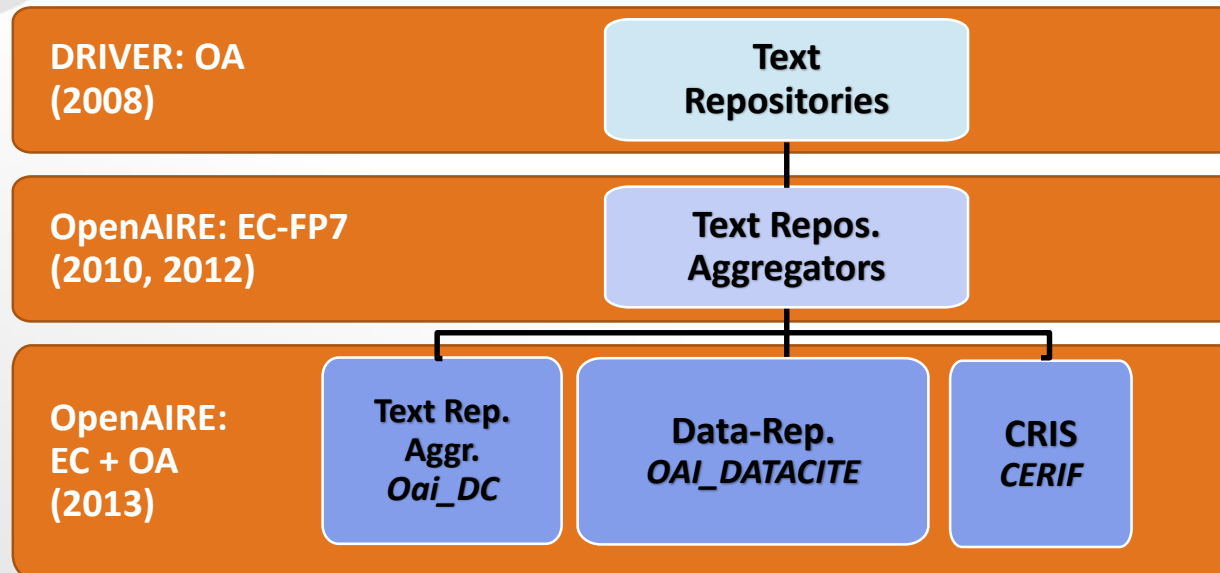
Where we started...

- **'oai_dc' 15 elements based on DCMES schema**
 - As established and 'lowest common denominator' OAI format
- **Used in numerous interpretations -> interoperability issue**
- **Requires agreements on syntax (use of OAI-PMH & oai_dc) and semantics (controlled vocabularies)**
 - DRIVER Guidelines v2 introduced in 2008
 - info:eu-repo Application Profile for encoding schemes
- **Mainly used to describe textual resources**
 - Continued in OpenAIRE Guidelines since 2009

In the meantime...

- **OpenAIRE scope & requirements have expanded since then**
 - **By complementary types of data sources**
 - For research data and research information
 - **Non-textual content**
 - **Publication and data linking**
 - **Project contextualization**
- **New global “authoritative” identifier based infrastructures**
 - **For authors/contributors**
 - **funders / projects**
 - **research outputs**

Guidelines Timeline



3 Guidelines for Data Providers

1 Literature

Repositories

(and journal platforms)

Dublin Core (DRIVER)

2 Data

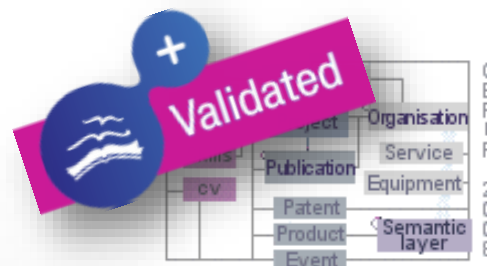
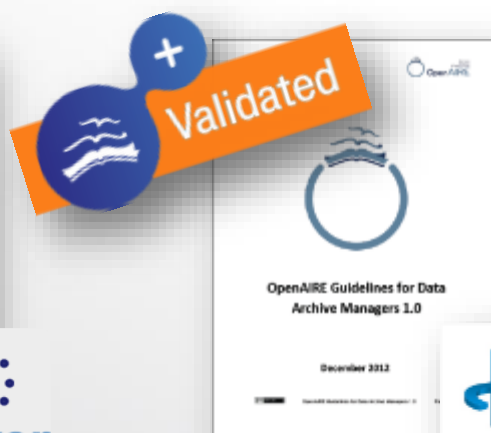
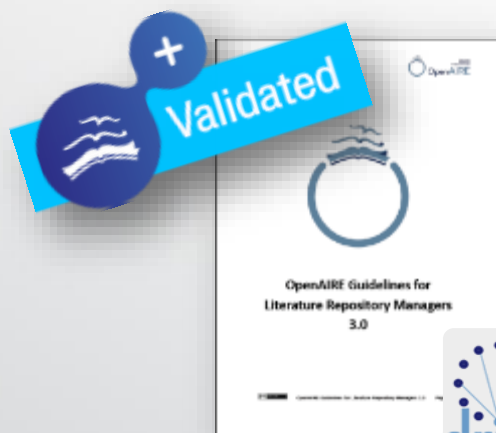
Repositories

(and archives/data centres)

Datacite

3 CRIS systems

CERIF-XML





Guidelines for Literature based Data Sources

- Continues the DRIVER v2 Guidelines
- Transfer protocol primarily but not limited: OAI-PMH
- Metadata format (so far): oai_dc
- Application Profile (so far): info:eu-repo
- Extended by properties to describe
 - Funder / Project information
 - Embargo Period / Embargo End Date
 - Open Access Status / Access Rights
 - Alternative Identifier
 - Referenced Dataset(s)
 - Referenced Publication(s)

OpenAIRE OAI-Set

- To group metadata relevant for OpenAIRE
 - See <https://www.openaire.eu/content-acquisition-policy/content-acquisition-policy/content-acquisition-policy>
 - Metadata about Open Access Publications
 - Metadata about Publications funded in EC-FP7 / H2020
 - Metadata about Publications funded by other funders
 - OpenAIRE provides information about supported funding information

	setName	setSpec*
The OpenAIRE set	OpenAIRE	openaire

Element name	projectID
DCMI definition	dc:relation
Usage	Mandatory (if applicable)
Usage instruction	A vocabulary of projects is exposed by the OpenAIRE API: http://api.openaire.eu/#cha_projects_http, and available for all repository managers. Values include funder, project name and projectID. The projectID equals the Grant Agreement number, and is defined by the namespace: info:eu-repo/grantAgreement/Funder/FundingProgram/ProjectNumber/Jurisdiction/ProjectName/ProjectAcronym/
Example:	<pre><dc:relation> info:eu-repo/grantAgreement/EC/FP7/123456 </dc:relation></pre> <pre><dc:relation> info:eu-repo/grantAgreement/EC/FP7/12345/EU//Acronym </dc:relation></pre>

accessRights

Element name	accessRights
DCMI definition	dc:rights
Usage	Mandatory
Usage instruction	Use values from vocabulary Access Rights at http://purl.org/eu-repo/semantics/#info-eu-repo-AccessRights • info:eu-repo/semantics/closedAccess • info:eu-repo/semantics/embargoedAccess • info:eu-repo/semantics/restrictedAccess • info:eu-repo/semantics/openAccess
Examples:	<pre><dc:rights> info:eu-repo/semantics/openAccess </dc:rights></pre>

embargoEndDate

Element name	embargoEndDate
DCMI definition	dc:date
Usage	Mandatory (if applicable)
Usage instruction	Recommended when accessRights = info:eu-repo/semantics/embargoedAccess The date type is controlled by the name space info:eu-repo/date/embargoEnd/, see http://wiki.surffoundation.nl/display/standards/info-eu-repo/#info-eu-repo-DateTypesandvalue. Encoding of this date should be in the form YYYY-MM-DD (conform ISO 8601).

Examples:

<dc:date> **info:eu-repo/date/embargoEnd/2011-05-12** <dc:date>

Alternative Identifier

Element name	Alternative Identifier
DCMI definition	dc:relation
Usage	Recommended
Usage instruction	List alternative identifiers for this publication that are not the primary identifier (repository splash page), e.g., the DOI of publisher's version, the PubMed/arXiv ID. The term is defined by info:eu-repo/semantics/altIdentifier info:eu-repo/semantics/altIdentifier/<scheme>/<identifier> where <scheme> must be one of the following: ark,arxiv, doi, hdl, isbn, purl...
Example	<pre><dc:relation>info:eu-repo/semantics/altIdentifier/doi/10.1234/789.1</dc:relation></pre>

Referenced Dataset

Element name	Referenced Dataset
DCMI definition	dc:relation
Usage	Recommended
Usage instruction	Encodes links to research datasets connected with this publication. The syntax of info:eu-repo/semantics/dataset is: info:eu-repo/semantics/dataset/ <scheme> / <identifier > where <scheme> must be one of the following: ark,arxiv, doi, hdl, isbn, purl...
Example	<dc:relation> info:eu-repo/semantics/dataset/doi/10.1234/789.1 </dc:relation>

Referenced Publication

Element name	Referenced Publication
DCMI definition	dc:relation
Usage	Recommended
Usage instruction	Encode links to publications referenced by this publication. The syntax of info:eu-repo/semantics/reference is: info:eu-repo/semantics/reference/<scheme>/<identifier> where <scheme> must be one of the following: ark, arxiv, doi, hdl, isbn...
Examples:	<pre><dc:relation> info:eu-repo/semantics/reference/doi/10.1234/789.1 </dc:relation></pre>

Meet H2020 OA Guidelines

- https://www.iprhelppdesk.eu/sites/default/files/newsdocuments/Open_Access_in_H2020.pdf

Property	DC Field	Value
EU funding acknowledgment	dc:contributor	“controlled” terms : ["European Union (EU)" and "Horizon 2020"] ["Euratom" and "Euratom research and training programme 2014-2018"]
Peer reviewed	dc:type	info:eu-repo/semantics/publishedVersion
Embargo period	dc:date dc:rights	• info:eu-repo/date/embargoEnd/<YYYY-MM-DD> • <YYYY-MM-DD> (<i>as publication date</i>) • info:eu-repo/semantics/embargoedAccess
Project information	dc:relation	info:eu-repo/grantAgreement/EC/H2020/[ProjectID]/[Jurisdiction]/[ProjectName]/[ProjectAcronym]/
Persistent identifier	dc:identifier or dc:relation	
License	dc:rights	URL of license condition
Persistent IDs for authors and contributors	dc:creator dc:contributor	<Lastname, Firstname; id_orcid 0000-0000-0000-0000>
Reference to related research outcome	dc:relation	info:eu-repo/semantics/dataset/<scheme>/<id>

Guidelines for Research Data based Data Sources

- **Based on DataCite metadata scheme**
 - Proven standard for heterogeneous data sources and cross-disciplinary archives
 - Maintained by a trusted and sustainable organization
 - Support of data citation
- **Metadata Format: oai_datacite**
- **OAI-Set: openaire_data**
- **Zenodo as reference implementation for OpenAIRE Data Repository Guidelines**

Guidelines for Research Data based Data Sources

- Adaptations for OpenAIRE:
 - Incl. additional PID schemes to DOI, e.g.URN, ARC ...
 - Recommends links to related publications & datasets
 - Recommends Contributor prop.
to relate dataset to funding information
 - Date and Description prop. are mandatory
 - Enforces (info:eu-repo) encoding scheme
on Rights property



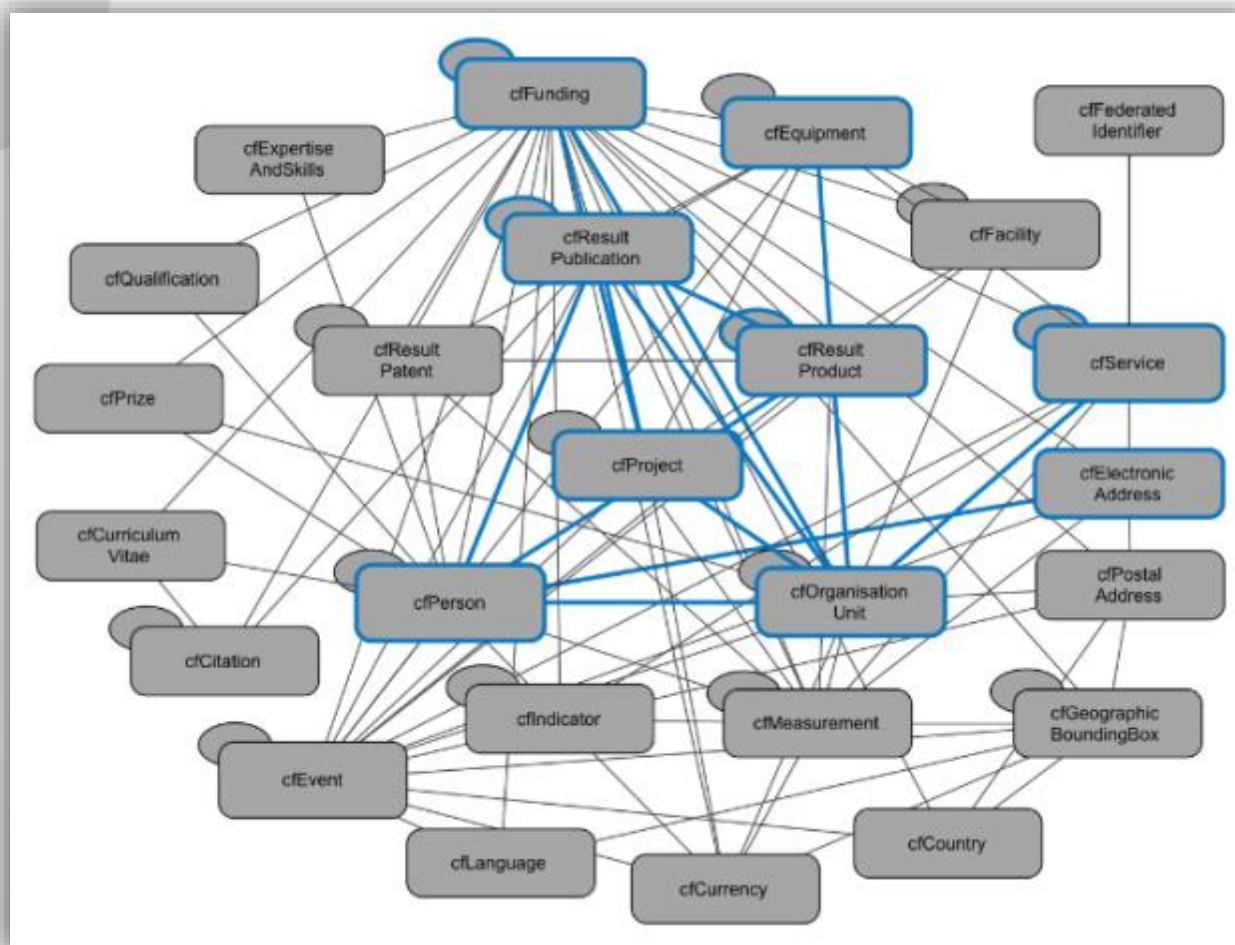
Guidelines for CRIS Managers based on CERIF-XML

- CERIF as de facto standard for CRIS data model
 - Entities for organization, person, project, output, data ..
- CERIF-XML as data exchange standard
(in the CRIS world)
- Maintained by euroCRIS as sustainable organization



OpenAIRE

Relevant CERIF Entities for OpenAIRE





Guidelines for CRIS Managers based on CERIF-XML

- Adaptations for OpenAIRE:
 - Subset of CERIF entities relevant for OpenAIRE
- Semantic Interoperability
 - Reuse of CERIF Semantics vocabularies for classification and definition of relationships between entities
 - Consistency with the other OpenAIRE Guidelines
 - E.g. resource types, access rights



Guidelines for CRIS Managers based on CERIF-XML

- **Syntactic Interoperability**
 - Distinct namespace for OpenAIRE CERIF schema
 - Nesting only of multi-lingual attributes, federated identifiers, linked entities
- **System Interoperability:**
 - Transfer Protocol: OAI-PMH
 - OAI-PMH sets for
 - Each type of entity
 - The entire CERIF graph

OpenAIRE Compatibility

Status: Levels and OAI Sets

OpenAIRE basic

Only Open
Access content

via driver oai
set

OpenAIRE 2.0

EC funded
content

via
ec_fundedres
ources oai set

OpenAIRE 2.0 +

Open Access
and EC funded
content

via driver and
ec_fundedreso
urces oai set

OpenAIRE 3.0

Open Access
and/or EC
funded and/or
National/other
funded content

via openaire
oai set



Adoption and Mapping with other repository networks

3/5

LA Referencia aligned with OpenAIRE Guidelines

- Latin America Open Access Repositories Network
- Central metadata elements and use of vocabularies
 - Access rights: openAccess; embargoedAccess
 - Use of Creative Commons licenses recommended
- Considers regional aspects compared to OpenAIRE regarding
 - Mandatory , mandatory if applicable and recommended use of metadata fields
- Collaboration between LA Referencia and OpenAIRE ensures future compatibility of the guidelines





OpenAIRE Guidelines, RIOXX and the case in UK

- RIOXX to support UK repositories for compliancy with funder OA policies (RCUK, HEFCE)
- Introduction of element / attributes to encode project / funder information
- Based on oai_dc + rioxx terms and rioxx attributes
- Supports NISO-ALI
- Support of EC-H2020 OA mandate is (currently) done via agreed mapping between RIOXX and OpenAIRE Lit. Guidelines

rioxx



Future Directions

Next steps

4/5



Innovative Scholarly Services – Need of Improved Metadata Quality

- **Features**

- Disambiguation by identifiers for authors / contributors, funders / project grants, research outputs
- Explicit links to landing pages and fulltext files
- Explicit links between publications and other research outputs
- Detailed bibliographic citation information
- Explicit and machine readable license information

- **Future proof**

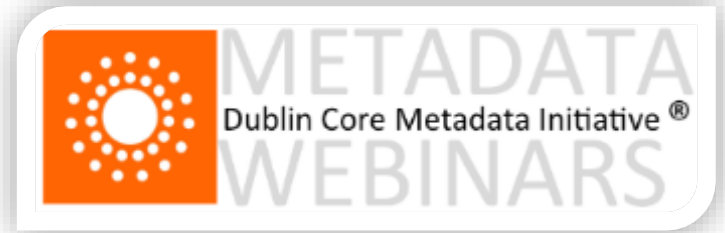
- Compatible with linked data principles
- Extensibility towards Open Science properties

- **Backward compatibility and low-barrier upgrade**

- Following DCMI Guide on Publishing Metadata (dcterms)
- COAR IG Controlled Vocabularies

Innovative Scholarly Services – Need of Network Alignment

- Alignment & collaboration needed between major repository initiatives
 - LA Referencia, SHARE, RIOXX, OpenAIRE, ...
 - COAR-CASRAI OA Interoperability WG
 - Alignment on metadata elements and vocabularies
 - COAR IG Controlled Vocabularies
 - Community driven effort to supersede info:eu-repo application profile
 - Working on an up to date technological standard
 - Editorial Board to ensure expertise and long-term support



Tools for Repositories Compatibility

Validator, API,
software add-ons



Join OpenAIRE today!

The OpenAIRE services provide you with an easy way to validate your repository/journal and register it into the OpenAIRE network.
To begin, read [these instructions](#).

1

[Test the compatibility](#) of your repository/journal or aggregator to the [OpenAIRE guidelines](#) for

- ✓ Publication Repositories / Journals / Aggregators
- ✓ Data Archives/Repositories

2

[Register your literature repository](#) , [data repository](#) , [journal](#) or [aggregator](#) in OpenAIRE

For more information check the [FAQ](#).

If you need further assistance please contact us through the [OpenAIRE Helpdesk](#).

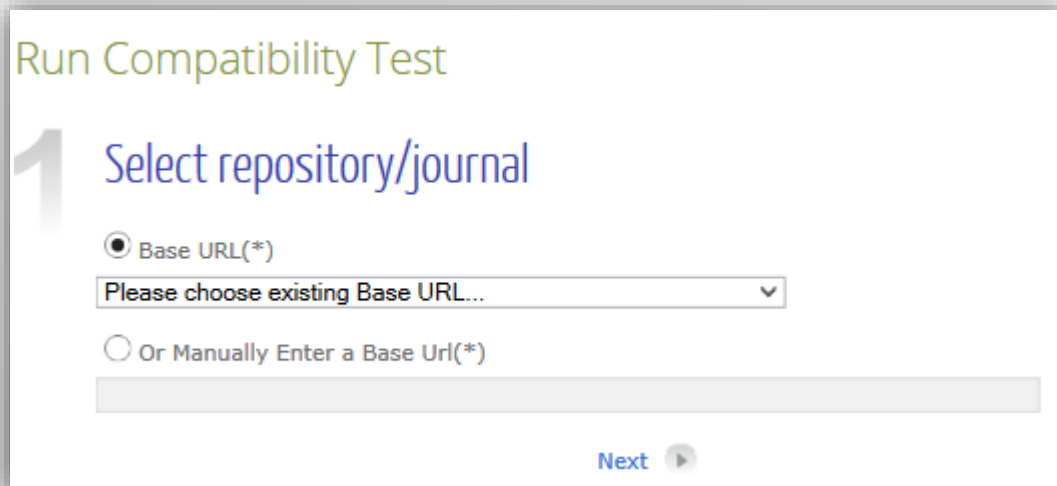
Test the OpenAIRE Compliance

The OpenAIRE provides its validator service:

www.openaire.eu/validator

Users can:

- Verify if the repository is truly compatible with the guidelines.
- Run a compatibility test (enter the **OAI-PMH base URL**).



Run Compatibility Test

1 Select repository/journal

☒ Base URL(*)

Please choose existing Base URL...

☐ Or Manually Enter a Base Url(*)

Next

Run Compatibility Test:

View/Select Rules

for Usage

Use of OAI-DC (M)

Use of OAI-PMH:

'openaire' or

'ec_fundedresources' or

'driver' set must exist (M)

Use of OAI-PMH:

'openaire' set must exist (M)

driver set must exist (R)

ec_fundedresources set must
exist (openaire2.0)

for Content

Field Access Level (M)

Field Alternative Identifier (R)

Field Audience (R)

Field Contributor (R)

Field Coverage (R)

Field Creator (M)

Field Date of Publication (M)

Field Description (MA)

Field Embargo End Date (MA)

Field Format (R)

Field Language (R)

Field License Condition (R)

Field Project Identifier for

ecfundedresources (M)

Field Project Identifier for

openaire(MA)

Field Publication Type (M)

Field Publication Version (R)

Field Publisher (MA)

Field Referenced Dataset (R)

Field Referenced Publication (R)

Field Resource Identifier (M)

Field Source (M)

Field Subject (MA)

Field Title (M)

Data Provider Registration

Via validator tool



[My Account](#) | [Logout\(pedroprincipe@s dum.uminho.pt\)](#)

[HOME](#)
[JOIN OPENAIRE](#)
[MANAGE YOUR DATASOURCES](#)
[TEST COMPATIBILITY](#)
[HELP](#)

Add your repository

 Please make sure your repository is registered in [OpenDOAR](#).
 Then select it from the list below and fill in the form.

OpenDOAR

OpenDOAR Repositories

AFGHANISTAN | ALBANIA | ALGERIA | ARGENTINA | ARMENIA | AUSTRALIA | AUSTRIA | AZERBAIJAN | BANGLADESH | BELARUS | BELGIUM |
 BOLIVIA | BOSNIA AND HERZEGOVINA | BOTSWANA | BRAZIL | BULGARIA | CAMEROON | CANADA | CAPE VERDE | CHILE | CHINA (PEOPLE'S
 REPUBLIC OF) | COLOMBIA | COSTA RICA | CROATIA | CUBA | CYPRUS | CZECH REPUBLIC | DENMARK | DOMINICAN REPUBLIC | ECUADOR | EGYPT
 | EL SALVADOR | ESTONIA | ETHIOPIA | FIJI | FINLAND | FORMER YUGOSLAV REPUBLIC OF MACEDONIA | FRANCE | GREECE | GUADELOUPE |
 GEORGIA | GERMANY | GHANA | HONDURAS | HONG KONG | HUNGARY | IRAQ | ICELAND | INDIA | INDONESIA | IRAN (ISLAMIC REPUBLIC OF) |
 IRELAND | ISRAEL | ITALY | JAMAICA | JAPAN | KAZAKHSTAN | KENYA | KOREA (REPUBLIC OF) | KYRGYZSTAN | LAO (PEOPLE'S DEMOCRATIC
 REPUBLIC) | LATVIA | LEBANON | LESOTHO | LITHUANIA | LUXEMBOURG | MALAYSIA | MEXICO | MOLDOVA (REPUBLIC OF) | MOROCCO |
 MOZAMBIQUE | NAMIBIA | NEPAL | NETHERLANDS | NEW CALEDONIA | NEW ZEALAND | NICARAGUA | NIGERIA | NORWAY | PARAGUAY | PUERTO
 RICO | PAKISTAN | PERU | PHILIPPINES | POLAND | PORTUGAL | QATAR | ROMANIA | RUSSIAN FEDERATION | RWANDA | SAUDI ARABIA | SENEGAL
 | SERBIA | SINGAPORE | SLOVENIA | SOUTH AFRICA | SPAIN | SRI LANKA | SUDAN | SWEDEN | SWITZERLAND | TAIWAN | TANZANIA (UNITED
 REPUBLIC OF) | THAILAND | TRINIDAD AND TOBAGO | TUNISIA | TURKEY | UNKNOWN | UGANDA | UKRAINE | UNITED KINGDOM | UNITED STATES
 | URUGUAY | VENEZUELA | VIET NAM | WITHOUT COUNTRY | ZAMBIA | ZIMBABWE

Chapter 3. Bulk access to projects

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DSpace/ePrints

Projects in TSV file

The APIs offer custom access to metadata about projects funded by a selection of international funders for the DSpace and EPrints platforms and as TSV file.

The currently supported funding streams and relative codes are:

- FP7: The 7th Framework Programme funded by the European Commission
- WT: Wellcome Trust funding programme

Coming soon:

- H2020: Horizon2020 Programme funded by the European Commission
- FCT: the funding programme of Fundação para a Ciência e a Tecnologia, the national funding agency of Portugal

DSpace/ePrints

DSpace endpoint: [http://api.openaire.eu/projects/dspace/\\$fundingStream/ALL/ALL](http://api.openaire.eu/projects/dspace/$fundingStream/ALL/ALL)

ePrints endpoint: [http://api.openaire.eu/projects/eprints/\\$fundingStream/ALL/ALL](http://api.openaire.eu/projects/eprints/$fundingStream/ALL/ALL)

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

Need to integrate project and funding information into your institutional repository based on DSpace or ePrints?

- Go for the [DSpace/ePrints endpoints](#).

Do you prefer a TSV with the list of projects by funding?

- [TSV endpoint](#) is meant for

Chapter 3. Bulk access to projects

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[DSpace/ePrints](#) [Projects in TSV file](#)

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DSpace/ePrints

DSpace endpoint: [http://api.openaire.eu/projects/dspace/\\$fundingStream/ALL/ALL](http://api.openaire.eu/projects/dspace/$fundingStream/ALL/ALL)

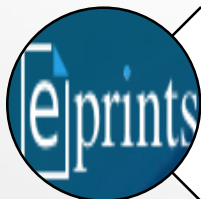
ePrints endpoint: [http://api.openaire.eu/projects/eprints/\\$fundingStream/ALL/ALL](http://api.openaire.eu/projects/eprints/$fundingStream/ALL/ALL)

Addons, patches or plugins for Repositories & Journals software



Dspace add-ons and versions compliance

<https://wiki.duraspace.org/pages/viewpage.action?pageId=33238567>



OpenAIRE Plug-in (OpenAIRE 2.0) <http://files.eprints.org/649/>

EPrints - OpenAIRE compliance example (3.0)

<https://gist.github.com/alenkovich/9596992>



OAI_DC_OpenAIRE implementation for Zenodo

https://github.com/zenodo/zenodo/blob/master/zenodo/base/format_templates/OAI_DC_OpenAIRE.xsl



OJS Plugin: OpenAIRE

<http://pkp.sfu.ca/support/forum/viewtopic.php?f=28&t=7085>

+ OJS DRIVER-Plug-In

OpenAIRE compatibility for different Dspace versions

Dspace 1.8.2 Via **OAIextended** add-on and also via **XOAI** add-on

- Compatibility with OpenAIRE 2.0 guidelines

DSpace 3 **OAI 2.0 is a standard part of DSpace 3.0**

- Compatibility with OpenAIRE 2.0 guidelines via XOAI.
- (fix 'info:eu-repo/grantAgreement/EC/FP' on the filter 'openairerelationFilter')

DSpace 4 **OAI 2.0 is a standard part of DSpace 4.0**

- OpenAIRE 2.0 compatibility via XOAI

DSpace 5 **OAI 2.0 is a standard part of DSpace 5.0**

- OpenAIRE 2.0 compatibility via XOAI and will be partially compatible with OpenAIRE 3.0 guidelines via patch (to be presented briefly).

Dspace Add-ons for project ids

Using the projects list provided by the OpenAIRE API

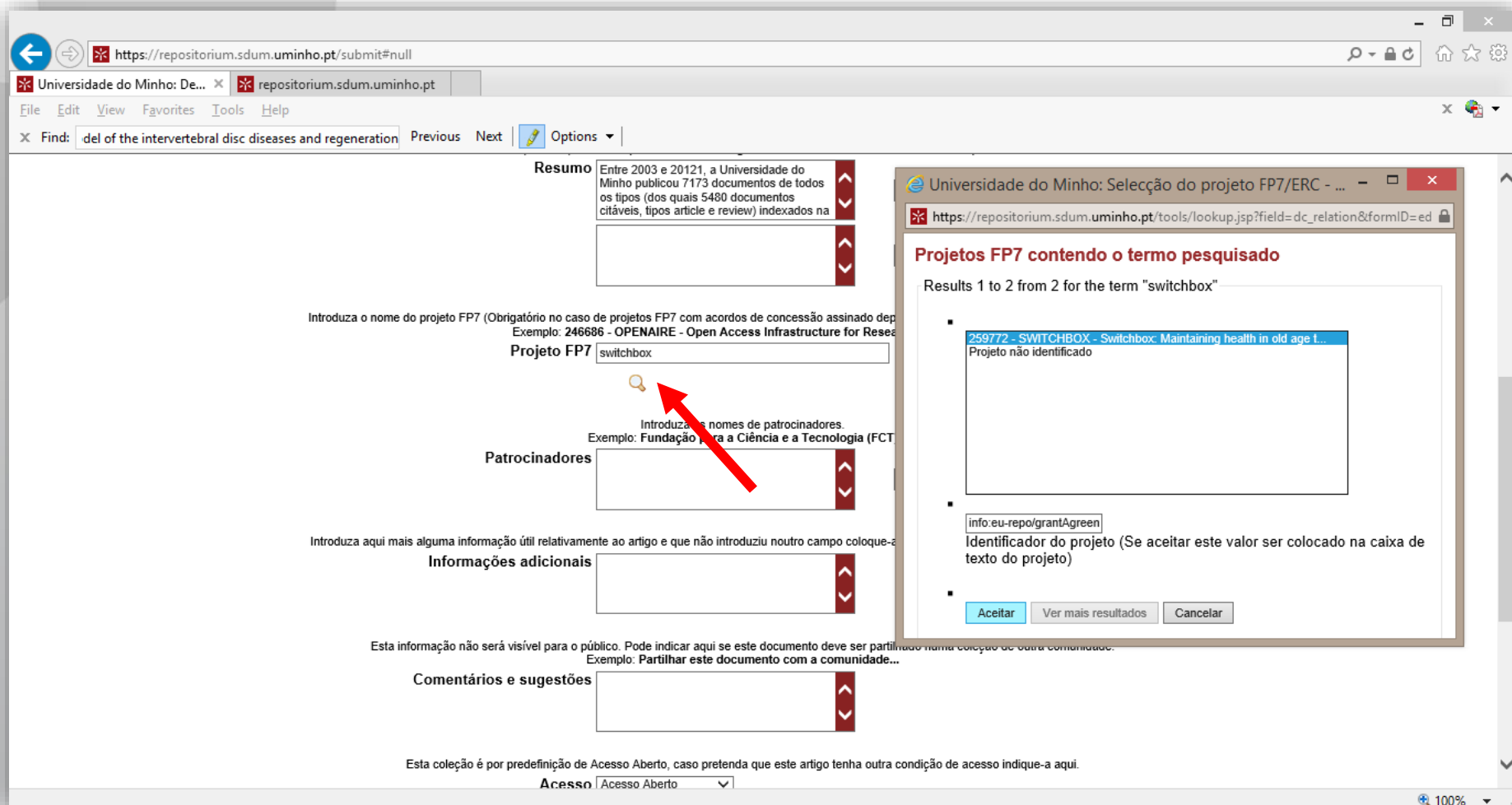
- OpenAIRE Authority Control
 - Dspace 3.2
 - <http://goo.gl/cEPTZN> (updated March 2014)
 - Dspace 1.8.2
 - <http://projeto.rcaap.pt/index.php/lang-en/consultar-recursos-de-apoio/remository?func=fileinfo&id=354>
- OpenAIRE funders projects list addon (NEW)
 - In use on the RCAAP Project (PT repositories)
 - <https://gitlab.fccn.pt/dev-rcaap/addon-openaire/tree/OpenAIRE5.X>
 - <https://gitlab.fccn.pt/dev-rcaap/addon-openaire/tree/OpenAIRE3.X>

Allows users to search and include EC (+ WT + FCT) projects ID in the metadata of the records disposed in accordance with OpenAIRE

Submission Workflow

Searching by the name or the project id number

Select the project and accept... the necessary namespace will be filled



https://repositorium.sdum.uminho.pt/submit#null

Universidade do Minho: De... x repositorium.sdum.uminho.pt

File Edit View Favorites Tools Help

X Find: del of the intervertebral disc diseases and regeneration Previous Next Options

Resumo Entre 2003 e 20121, a Universidade do Minho publicou 7173 documentos de todos os tipos (dos quais 5480 documentos citáveis, tipos article e review) indexados na

Introduza o nome do projeto FP7 (Obrigatório no caso de projetos FP7 com acordos de concessão assinado dep
Exemplo: 246686 - OPENAIRE - Open Access Infrastructure for Resea

Projeto FP7 switchbox

Introduza os nomes de patrocinadores.
Exemplo: Fundação para a Ciência e a Tecnologia (FCT

Patrocinadores

Introduza aqui mais alguma informação útil relativamente ao artigo e que não introduziu noutro campo coloque-a

Informações adicionais

Esta informação não será visível para o público. Pode indicar aqui se este documento deve ser partilhado numa coleção de outra comunidade.
Exemplo: Partilhar este documento com a comunidade...

Comentários e sugestões

Esta coleção é por predefinição de Acesso Aberto, caso pretenda que este artigo tenha outra condição de acesso indique-a aqui.

Acesso | Acesso Aberto

Universidade do Minho: Selecção do projeto FP7/ERC - ...

https://repositorium.sdum.uminho.pt/tools/lookup.jsp?field=dc_relation&formID=ed

Projetos FP7 contendo o termo pesquisado

Results 1 to 2 from 2 for the term "switchbox"

- 259772 - SWITCHBOX - Switchbox: Maintaining health in old age L...
Projeto não identificado
- info.eu-repo/grantAgreen
Identificador do projeto (Se aceitar este valor ser colocado na caixa de texto do projeto)

Aceitar Ver mais resultados Cancelar

OpenAIRE

Authority Control Add-on

- Allows users to search and include FP7 project IDs in the metadata of the records disposed in accordance with the guidelines



The screenshot shows a web form for the OpenAIRE Authority Control Add-on. It includes a 'Título' field, a 'Data de Embargo' section with a date format 'YYYY-MM-DD' and fields for 'Mês' (a dropdown menu currently showing '(Sem Mês)'), 'Dia', and 'Ano', and an 'OpenAIRE' field with the text 'Introduza o identificador do Projecto OpenAIRE.' and the example value 'info:eu-repo/grantAgreement/EC/FP7/230583'. Below the 'OpenAIRE' field are a green checkmark icon and a magnifying glass icon.

** Needs the OAlextended Add-on to create the set (ec_fundedresources)*



OpenAIRE

OpenAIRE Funders Projects List Add-on



O Seu Saber Ocupa um Lugar!



Descrever Descrever Descrever Carregar Verificar Licença DeGóis Completo

Depositar: Descreva o seu registo

Por favor preencha mais informações sobre o seu depósito em baixo. [\(Mais Ajuda...\)](#)

Palavras Chave

Resumo

Identifique o projeto financiado pela Comissão Europeia (FP7, H2020, ERC), Fundação para a Ciência e Tecnologia ou Wellcome Trust, para monitorização da política de Acesso Aberto do financiador. Insira o termo de pesquisa (número, nome, acrónimo ou referência) para selecionar o projeto.

Projeto Financiado

259772 - SWITCHBOX - Switchbox: Maintaining health in old age t...

Patrocinadores

Descrição

Identifique o projeto financiado pela Comissão Europeia (FP7, H2020, ERC), Fundação para a Ciência e Tecnologia ou Wellcome Trust, para monitorização da política de Acesso Aberto do financiador. Insira o termo de pesquisa (número, nome, acrónimo ou referência) para selecionar o projeto.

Projeto Financiado ☒

openaire

283595 - OPENAIREPLUS - 2nd-Generation Open Access Infrastructu...

246686 - OPENAIRE - Open Access Infrastructure for Research in ...

Patrocinadores

Useful Links:

Find and discuss the guidelines at: <https://guidelines.openaire.eu>

Test and register the repository at: <http://validator.openaire.eu>

Find support at: <https://www.openaire.eu/support/helpdesk>

Access the OpenAIRE API documentation: <http://api.openaire.eu>

About COAR Repository Interoperability:

<http://coar-repositories.org/activities/repository-interoperability>

Find the guide for Repository Managers at:

<https://www.openaire.eu/rep-man-toolkit/repository-managers>

Search for OpenAIRE data providers at:

<https://www.openaire.eu/search/openaire-data-providers>

See the OpenAIRE Content Acquisition policy at:

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

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Q&A

Find and discuss at: <https://guidelines.openaire.eu>
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