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CRIS2014

Rome, Italy



OpenAIRE Guidelines

supporting interoperability for

Literature Repositories, Data Archives and CRIS





OpenAIRE

OPEN ACCESS INFRASTRUCTURE

for research in Europe



What is OpenAIRE

- A Participatory European Open Access infrastructure to manage scientific publications and associated scientific material via **repository networks**.
- Supports discovery, sharing and re-use of **Open Access** publications and **EC funded** research results.
- Enhances **publications** by interconnecting them with **data sets, funding** information, related publications, institutional affiliation, metrics...



OA and funded content from a range of European repositories, data archives and CRIS



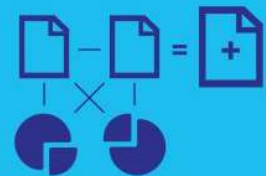
Research repositories link to OpenAIRE

PUBLICATIONS
DATA
FUNDING INFORMATION



Infrastructure

RESEARCH OUTPUT FROM REPOSITORY NETWORK, INTEGRATED EUROPEAN RESEARCH INFORMATION WITH LINKS FROM PUBLICATIONS TO RESEARCH DATA AND FUNDING.



Services

ACCESS, SHARE, REUSE, ENHANCE AND MONITOR RESEARCH OUTPUT. DISSEMINATE AND INTEGRATE RESEARCH RESULTS.



OpenAIRE implements the

OPEN ACCESS

EC requirements

OpenAIRE is about

LINKING

publications to projects

EC OA Mandate Progression

FP7 OA Pilot (2008)

- Grant agreement SC39
- 20% programme areas
- Deposit in Repositories
- ERC's OA Guidelines: Deposit in discipline (or institutional) repositories. Cap embargo.

Horizon 2020 (2014)

- All grant agreements
- 100% programme areas
- Deposit in Repositories
- Open Data Pilot



OpenAIRE is moving from a publication infrastructure to a

**MORE COMPREHENSIVE
INFRASTRUCTURE**

that covers all types of scientific output

Integrated Scientific Information System



8.4 mi publications
7 mi authors
470+ data providers
Linked to 80K projects from
2 funders (EC and Wellcome Trust)
Linked to 700 datasets
33K organizations



New portal

Available: Merge DRIVER publications, Funding information (European Commission, Wellcome Trust, national funding), Data, Projects, People, Organizations, Data providers.

All Publications Data Projects People Organizations Data Providers

Search keywords

[More search options »](#)

At a glance

Funder	Funding Stream	Scientific Area	Start Year
European Commission (22354)	SP3 (9520)	PEOPLE (9520)	2012 (4751)
Wellcome Trust (8495)	SP1 (6783)	ERC (3974)	2011 (4644)
	SP2 (3974)	ICT (2231)	2013 (4296)
	Molecules, Genes and ... (2259)	HEALTH (999)	2010 (4288)
	SP4 (1940)	SME (969)	2009 (3739)
	View more »	View more »	View more »

OpenAIRE

PARTICIPATE DEPOSIT, JOIN SEARCH PUBLICATIONS, DATA, PROJECTS STATISTICS DA, PROJECTS, TOPICS SUPPORT FAQ, HELPDESK, GUIDES OPEN ACCESS IN EUROPE

Science. Set free.

8,399,456 publications and 611 datasets from 435 repositories and OA journals

Repositories

[More search options](#)

Researchers

- Deposit publications & data
- Link research to funder/project
- Download author's guide for OA

Data Providers

- Register & validate content
- Get guidelines for interoperability
- Enrich repository content

Research Managers

- Learn about EC & national policies
- Create project reports
- Get statistical information

Funding Agencies

- Learn how to embrace OA
- Participate in OpenAIRE
- Find aggregated statistics

Latest News

Workshop on Mining Scientific Publications
09-05-2014

3rd International workshop on mining scientific publications Repositories and digital libraries that store scientific publications are becoming increasingly central to the research process. They are not only used for traditional tasks...

[Read more](#)

Mark your calendar

- May 19 Mon, 02:00AM - The 3rd LIBER Workshop on Digital Curation "Keeping Data. The Process of Data Curation"
- May 19 Mon, 09:00AM - 09:00AM EGI Community Forum 2014
- May 20 Tue, 00:00AM - Research Data Management: The library's role

Digital Repository of Ireland: Open Access and a User-Centred Approach

dri

The Digital Repository of Ireland is a national, trusted digital repository for social science and humanities data, with the mission of linking, preserving, and providing





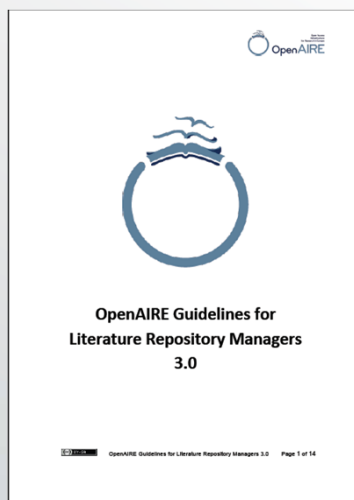
OpenAIRE Guidelines

OpenAIRE is moving from a publication infrastructure to a more comprehensive infrastructure that covers all types of scientific output.

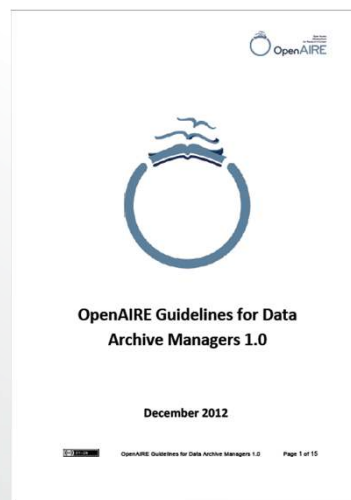
- To put this into practice an integrated **suite of guidelines** were developed with specific requirements supporting the goal of OpenAIRE and the European Commission.
- Managers of scholarly communication systems across Europe will be able to support authors to fulfill **the EC Open Access requirements**, as well as the requirements of **other (national or international) funders** with whom OpenAIRE cooperates.

OpenAIRE Guidelines for

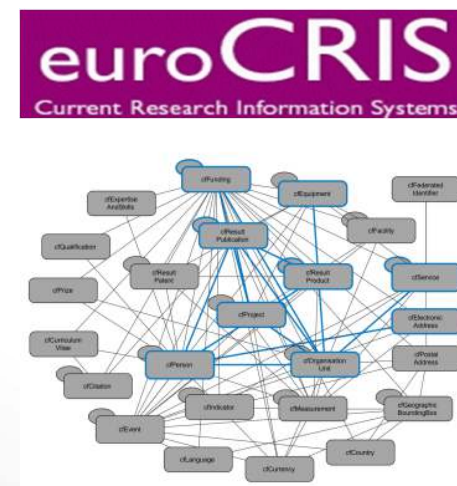
1 Literature Repository managers (version 3.0)



2 Data Archive Managers



3 CRIS Managers





OpenAIRE Guidelines

What are the...

- OpenAIRE has collaborated with key stakeholders and has **produced three sets of guidelines for its data providers, all based on existing well-established standards.**
- Provide additional support for OAI Aggregators and Open Access Journals to maintain provenance on the record or at journal level.
- Best practices for the use of transfer protocol (**OAI-PMH**), metadata formats, controlled vocabularies.



OpenAIRE Guidelines

European Open Access Infrastructure to manage scientific publications and associated scientific material.

GUIDELINES MAKE IT EASY TO PARTICIPATE IN THE OPENAIRE NETWORK PROVIDING TO REPOSITORY MANAGERS THE TOOLS TO SUPPORT RESEARCHERS IN THE EC'S OA POLICY COMPLIANCE.

FOR LITERATURE REPOSITORIES

based on Dublin Core (DRIVER)

FOR DATA REPOSITORIES

based on DataCite metadata schema 3.0

FOR CRIS MANAGERS

based on CERIF-XML



How do they work?

- Assist heterogeneous e-infrastructures like repositories, data archives and CRIS to interoperate in one common information space.
- Validation / Registration of OpenAIRE compatible data sources.
- **Metadata is aggregated through simple OAI-sets**
 - for thematic and institutional repositories: 'ec_funded_resources' 'openaire'
 - for data repositories 'openaire_data'
 - and for CRIS 'openaire_cris'



How do they work?

- Identification of Open Access and funded research results by **OAI-Sets**:
 - **'openaire'** – expose Open Access publications and/or Funded publications
 - **'openaire_data'** - only expose datasets fulfilling at least one of the following criteria:
 - The dataset is outcome of a funded research project
 - The dataset is linked with a publication in the OpenAIRE information space
 - **'openaire_cris'** - Different OAI-PMH sets need to be made available: for each entity type (e.g. get all records of cfProject), for the entire CERIF XML graph
- Regular harvesting from the data sources.
- Latest schema guarantees backwards-compatibility with previous versions (**'ec-fundedresources'**).

Why specific guidelines – needed to...

LITERATURE REPOSITORIES

- **projectID**
dc:relation
- **embargoEndDate**
dc:date
- **accessRights**
dc:rights
- Alternative Identifier
- Referenced Dataset
- Referenced Publication
dc:relation

DATA ARCHIVES

- **Funding information**
Contributor
contributorType="Funder"
contributorName
nameIdentifier
- **Access rights and license info**
- Related publications and datasets
relatedIdentifier
- Embargo date information
dateType

CRIS SYSTEMS

Next presentation...

Use terms from the info:eu-repo-Access-Terms vocabulary
info:eu-repo/semantics/closedAccess
info:eu-repo/semantics/embargoedAccess
info:eu-repo/semantics/restrictedAccess
info:eu-repo/semantics/openAccess

The projectID & nameIdentifier equals the Grant Agreement number, defined by the namespace:
info:eu-repo/grantAgreement/Funder/ FundingProgram/ProjectNumber/Jurisdiction/ProjectName/ProjectAcronym/



Literature Guidelines – versions

- 1** **AUGUST 2010**
initial document
NOVEMBER 2010
(V. 1.1)
- 2** **OCTOBER 2012**
(V. 2.0)
Compatibility for
aggregators.
Extended Namespace
for Project id.
- 3** **DECEMBER 2012**
(3.0 beta)
APRIL 2013
(3.0)
OAI set has been renamed from
ec_fundedresources to
openaire. New relation
elements for indicating external
identifiers, references and
connections to datasets.

EC funded content

EC and/or other funded
content

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



+ guidelines

4

OpenAIRE Guidelines for Data Archive Managers

- December 2012 (initial document)
- June 2013 (version 1.0)
- April 2014 (version 2.0), Updated to DataCite Metadata Schema v3.0

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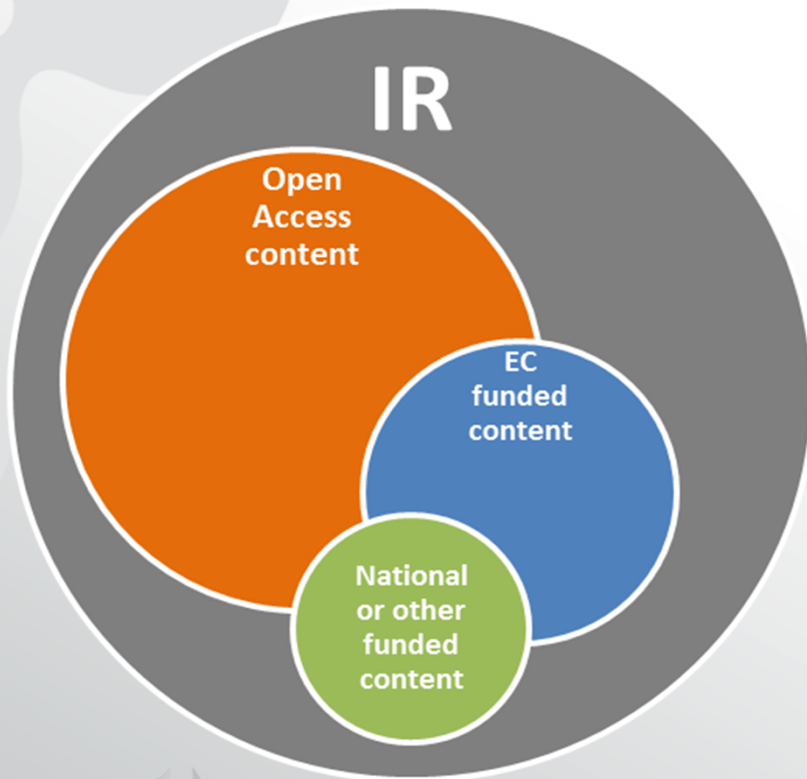
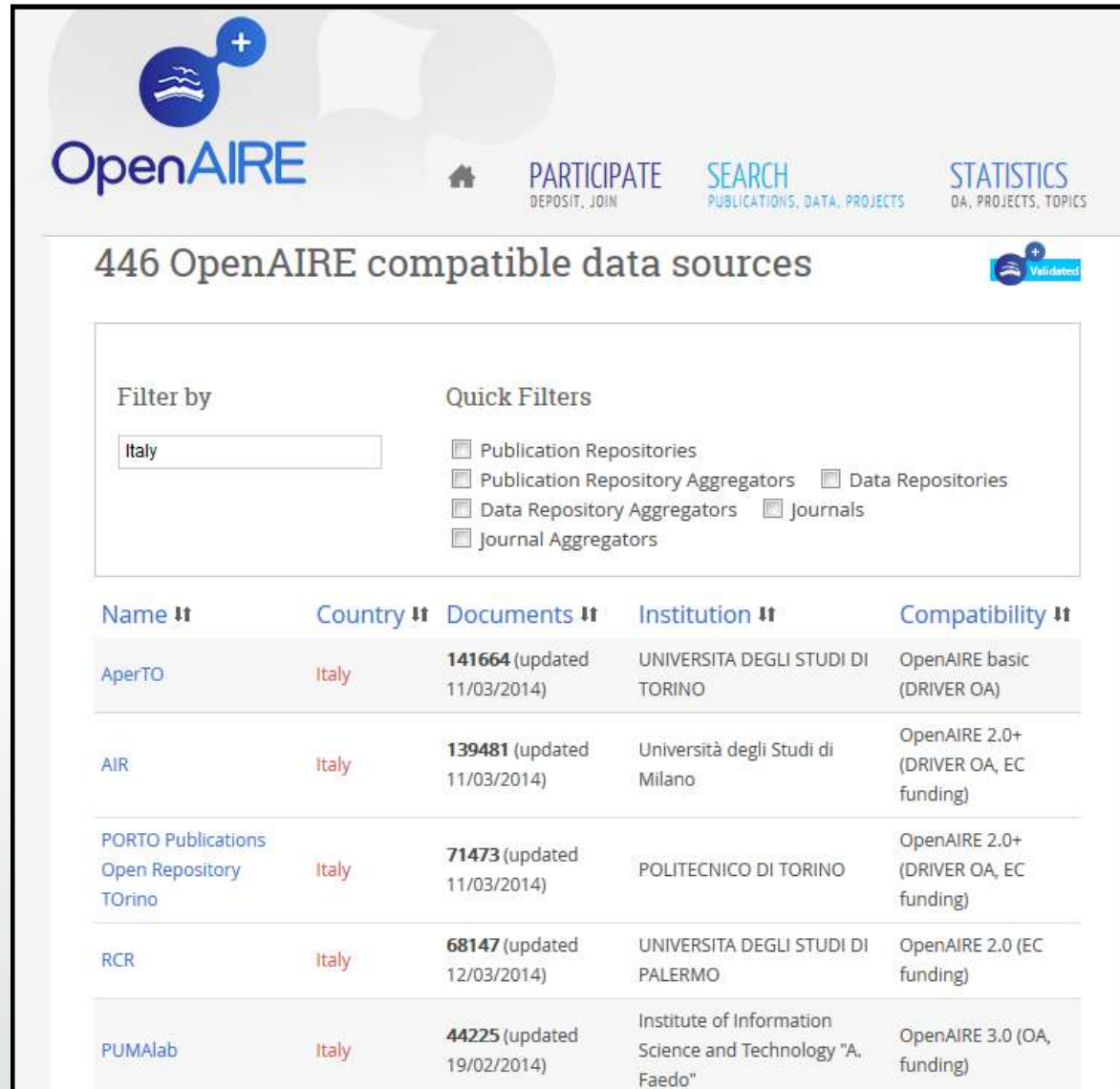
OpenAIRE Guidelines for CRIS Managers

- Released for public review early 2014 (review period ended 28 March)
- Post-review version to be released within May 2014

Funded research data (data sets)

Open Access and/or EC and/or other
funded research results

New portal

The screenshot shows the OpenAIRE portal interface. At the top, there is the OpenAIRE logo and navigation links for 'PARTICIPATE DEPOSIT, JOIN', 'SEARCH PUBLICATIONS, DATA, PROJECTS', and 'STATISTICS OA, PROJECTS, TOPICS'. A 'Validates!' button is also visible.

The main heading is '446 OpenAIRE compatible data sources'. Below this, there is a 'Filter by' section with a text input field containing 'Italy'. To the right, there are 'Quick Filters' with checkboxes for:

- Publication Repositories
- Publication Repository Aggregators
- Data Repositories
- Data Repository Aggregators
- Journals
- Journal Aggregators

Below the filters is a table listing data sources:

Name	Country	Documents	Institution	Compatibility
AperTO	Italy	141664 (updated 11/03/2014)	UNIVERSITA DEGLI STUDI DI TORINO	OpenAIRE basic (DRIVER OA)
AIR	Italy	139481 (updated 11/03/2014)	Università degli Studi di Milano	OpenAIRE 2.0+ (DRIVER OA, EC funding)
PORTO Publications Open Repository Torino	Italy	71473 (updated 11/03/2014)	POLITECNICO DI TORINO	OpenAIRE 2.0+ (DRIVER OA, EC funding)
RCR	Italy	68147 (updated 12/03/2014)	UNIVERSITA DEGLI STUDI DI PALERMO	OpenAIRE 2.0 (EC funding)
PUMAlab	Italy	44225 (updated 19/02/2014)	Institute of Information Science and Technology "A. Faedo"	OpenAIRE 3.0 (OA, funding)



How to get involved?

- Find and discuss the guidelines at: guidelines.openaire.eu
- Test and register the repository at: validator.openaire.eu
- Find support and more info at: www.openaire.eu
- Access the OpenAIRE API documentation: api.openaire.eu

Wiki: <http://guidelines.openaire.eu>



Thank you!

 www.openaire.eu

 @openaire_eu

 facebook.com/groups/openaire

 linkedin.com/groups/OpenAIRE-3893548

 info@openaire.eu

