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
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.

www.openaire.eu
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

http://guidelines.openaire.eu
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
c 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
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

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**

**OpenAIRE**

**IR**
- Open Access content
- EC funded content
- National or other funded content

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### 446 OpenAIRE compatible data sources

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

**Quick Filters**
- Publication Repositories
- Publication Repository Aggregators
- Data Repositories
- Data Repository Aggregators
- Journals
- Journal Aggregators

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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