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OpenAIRE Guidelines for CRIS Interoperation based on CERIF XML



OpenAIRE is about

LINKING

publications to projects

But not just

ANY

publications or projects



Implementation of SC39

- **OpenAIRE was set out to:**
 - **Support and Monitor the implementation of SC39 the OA-pilot**
- **The strategy was to build on the existing repository infrastructure in Europe**
- **Build on and reuse the work done in DRIVER**
- **To harvest OAI repositories and link articles to EC funded projects e.g. FP7 and ERC**





OpenAIRE Guidelines

- **The OpenAIRE Guidelines Version 1.0 – 2.0**
 - Based on the DRIVER Guidelines
- **Guidelines with specific requirements supporting the goal of OpenAIRE and the EC**
 - Peer reviewed articles
 - Link to EC-funded project by exposing grant agreement number
 - Display access mode and embargo periode

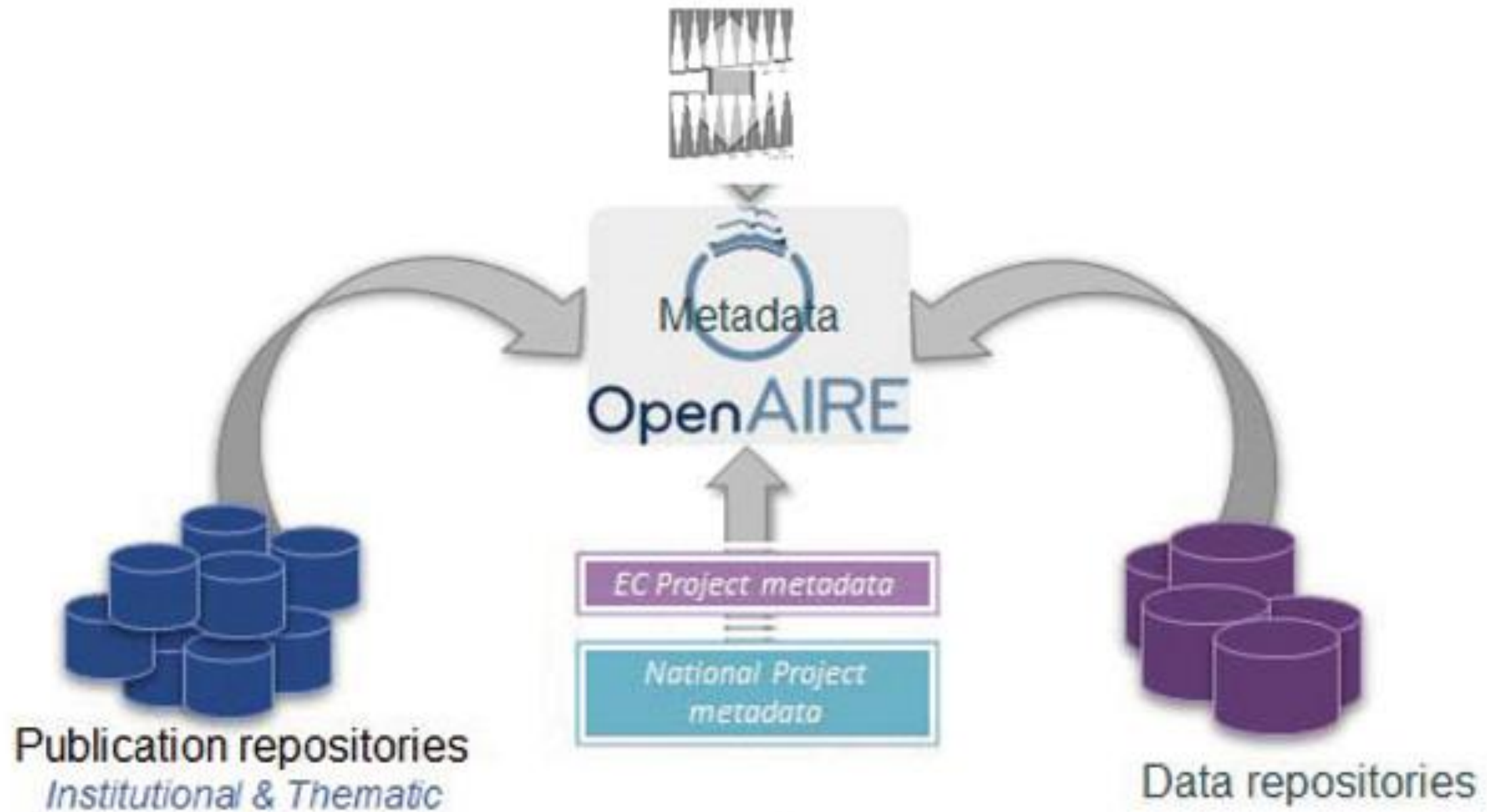


It was
SIMPLE
by intention

But the

UPTAKE

was slow



OpenAIRE needs to be

MORE

inclusive

(Un)Learning

OpenAIRE matures as an infrastructure



- **Linking publications to projects is not only relevant for the EC**
- **Linking to other related information like data set**
- **Links can be discovered through text mining -> content is key**



I Still in scope

Building on existing standards

- OAI-PMH
- DRIVER Guidelines
- OpenAIRE Guidelines ++
- DataCite Metadata Scheme
- CERIF-XML
- ...



Collaborations

...24 hours in a day not enough

- crossRef – metadata resolver
- EuroCRIS – research data model
- OpenDOAR – OA repository registry
- ORCID – researcher IDs
- DataCite – citation for data
- CORDIS – EC display portal
- REISearch – researcher social network
- PLOS – share usage data
- EGI – scientific initiative to build
- ENGAGE – exchange data through CERIF

2-way
collaboration



Get support (NOADs)



Deposit Publications & data



Visualize - Manage Enhanced Publications



Search & Browse



Curate & collaborate

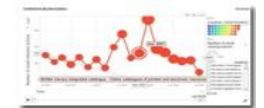


Linked Content Statistics

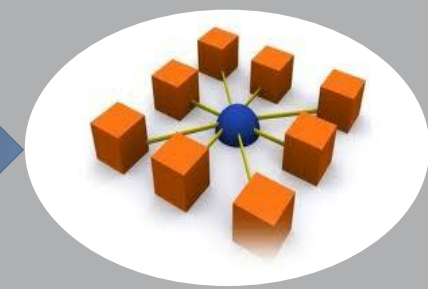


Research impact Citations, usage statistics

+++



APIs



OpenAIRE HUB

Metadata *Usage data*
on publications

6,350,000 OA publications
343 **validated** repositories

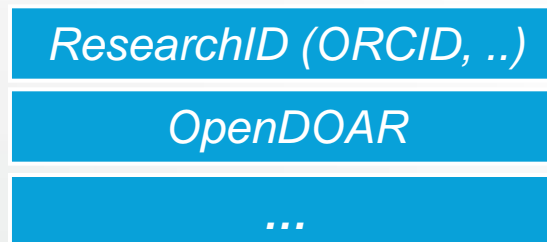
Guidelines for Publications



Publication repositories
Institutional & Thematic
Open Access Journals

Guidelines for CRIS

CRIS Systems



Metadata
on data



Guidelines for Data Providers



Data repositories
Data Journals



Wiki for the

OpenAIRE guidelines and collaboration

Mikael.elbaek My talk My preferences My watchlist My contributions Log out



- Main page
- Community portal
- Current events
- Recent changes
- Random page
- Help
- Guidelines
 - Literature Repositories
 - Data Archives
 - CRIS
- Application Profile Repositories
 - Use of OAI-PMH
 - Use of OAI-DC
 - Field Title
 - Field Creator
 - Field ProjectId
 - Field AccessLevel
 - Field LicenseCondition
 - Field EmbargoEndDate
 - Field AlternativIdentifier
 - Field PublicationReference
 - Field DatasetReference
 - Field Subject
 - Field Description
 - Field Publisher
 - Field Contributor

Page Discussion

Read Edit View history Go Search

Main Page

OpenAIRE Guidelines [\[edit\]](#)

Welcome to the OpenAIRE Guidelines wiki. The intention of this wiki is to provide a public space to share OpenAIREs work on interoperability and to engage with the community. This means **you are invited** to comment and change the content of this wiki.

- [OpenAIRE Guidelines for Literature Repositories](#)
- [OpenAIRE Guidelines for Data Archive Managers](#)
- [OpenAIRE application profile for CERIF-XML](#)

Consult the [User's Guide](#) for information on using the wiki software.

The Guidelines in practice [\[edit\]](#)

These pages are all open and intended for all stakeholders and the data provider community to add their experience and best practices. The guys from OpenAIRE will also add their experiences when new types of data providers engage with OpenAIRE..

- [For literature repository managers](#)
- [For data archive managers](#)
- [For CRIS Managers](#)

Getting started [\[edit\]](#)

- [Configuration settings list](#)
- [MediaWiki FAQ](#)
- [MediaWiki release mailing list](#)

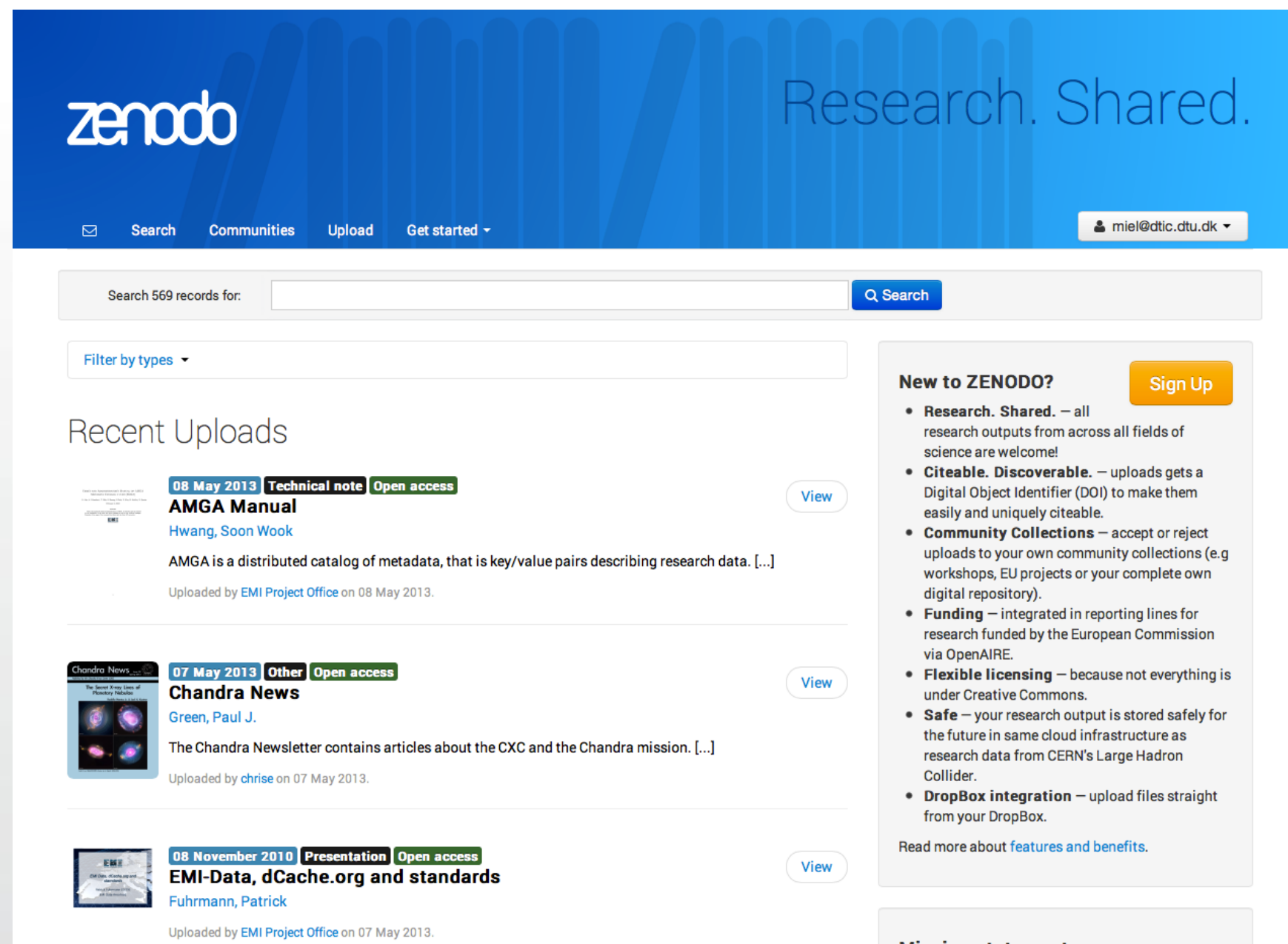
Sort by date Enable comment auto-refresher

Add your comment



Zenodo

Sharing Research Data across Europe - Making Science More Visible



The screenshot shows the Zenodo website interface. At the top, the Zenodo logo and the tagline "Research. Shared." are displayed. Below the navigation bar, there is a search bar with the text "Search 569 records for:" and a "Q Search" button. A "Filter by types" dropdown menu is also visible. The main content area features a "Recent Uploads" section with three entries:

- AMGA Manual** (08 May 2013, Technical note, Open access) by Hwang, Soon Wook. Description: "AMGA is a distributed catalog of metadata, that is key/value pairs describing research data. [...]"
- Chandra News** (07 May 2013, Other, Open access) by Green, Paul J. Description: "The Chandra Newsletter contains articles about the CXC and the Chandra mission. [...]"
- EMI-Data, dCache.org and standards** (08 November 2010, Presentation, Open access) by Fuhrmann, Patrick. Description: "Uploaded by EMI Project Office on 07 May 2013."

On the right side, there is a "New to ZENODO?" section with a "Sign Up" button and a list of features:

- Research. Shared.** – all research outputs from across all fields of science are welcome!
- Citeable. Discoverable.** – uploads gets a Digital Object Identifier (DOI) to make them easily and uniquely citeable.
- Community Collections** – accept or reject uploads to your own community collections (e.g workshops, EU projects or your complete own digital repository).
- Funding** – integrated in reporting lines for research funded by the European Commission via OpenAIRE.
- Flexible licensing** – because not everything is under Creative Commons.
- Safe** – your research output is stored safely for the future in same cloud infrastructure as research data from CERN's Large Hadron Collider.
- DropBox integration** – upload files straight from your DropBox.

At the bottom of the right sidebar, there is a "Mission statement" section.

Thank you!

 www.openaire.eu

 @openaire_eu

 facebook.com/groups/openaire


 [linkedin.com/groups/OpenAIRE-3893548](https://www.linkedin.com/groups/OpenAIRE-3893548)

 miel@dtic.dtu.dk

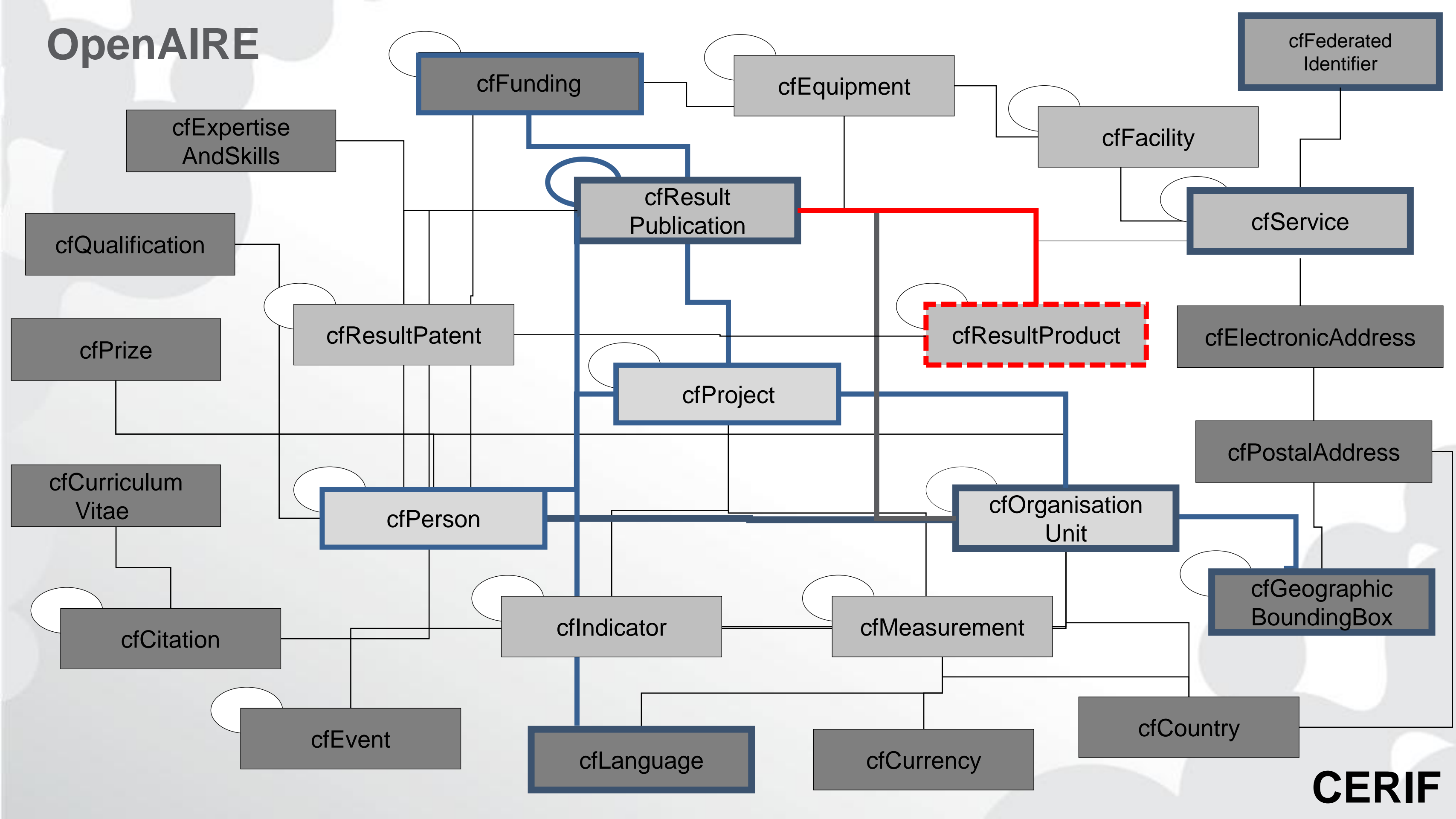
euroCRIS participation in OpenAIREplus

Keith Jeffery; Anne Asserson; Nikos
Houssos; Brigitte Jörg;
coordinated by EKT, Greece

Alignment of the OpenAIRE Data Model to CERIF

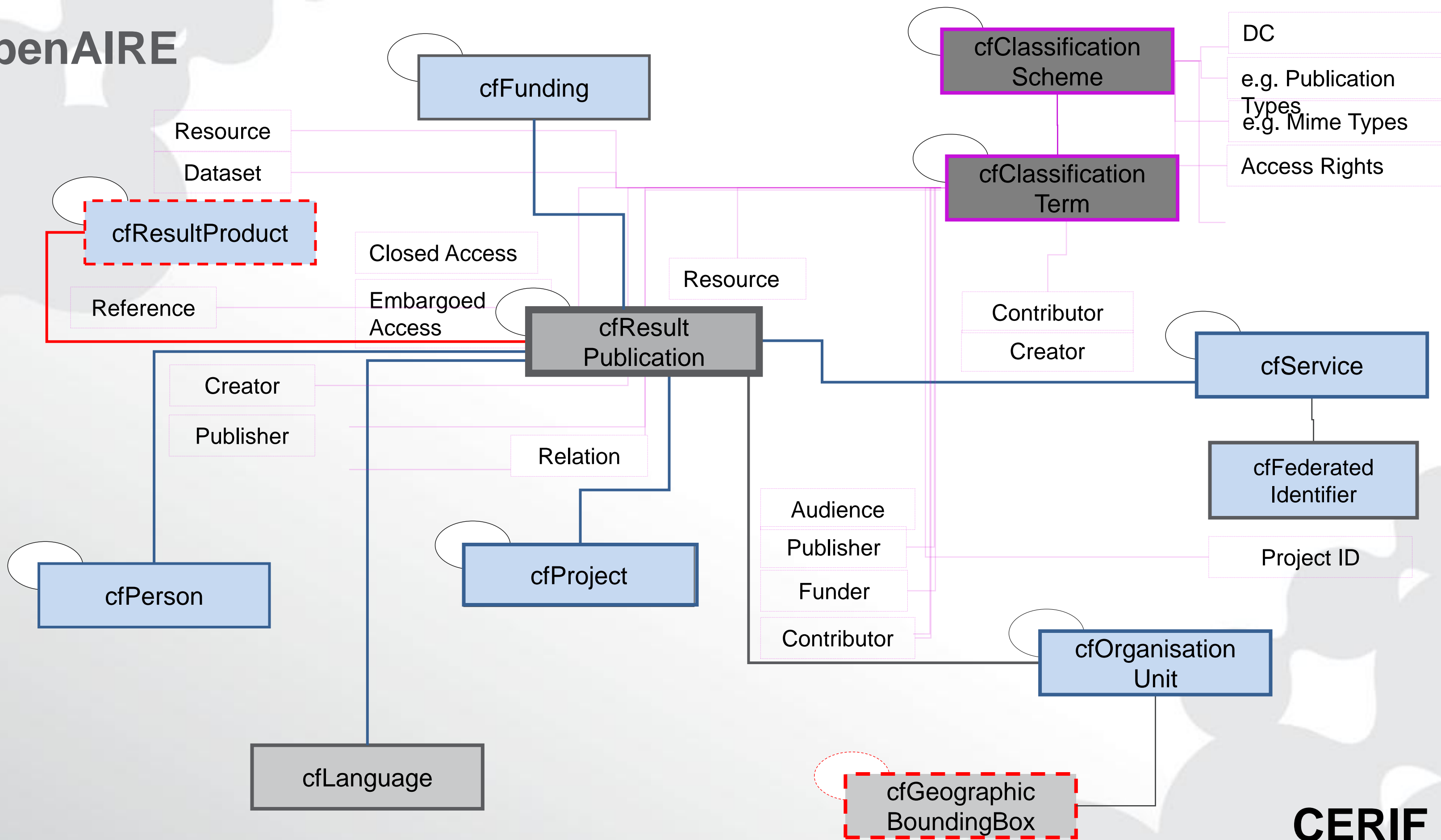


OpenAIRE Guidelines for CRIS Interoperation based on CERIF XML



Data in CRIS systems of relevance to OpenAIRE

- **Projects, Funding, Publications, Datasets, Persons, Organisations**
- **Semantic relationships between entities**
- **Federated Identifiers**
- **Geographic Information**



Usage Profiles in CERIF-XML

- **Publications +connection Projects**
- **List of Projects**
- **List of People (+ e.g. notTechnician; notAdministration)**
- **Dataset distinct from Pubs (+ connection to project)**
- **Funding Structures**
- **Linkage between Funding and Projects**
- **List all Resources**

OAI-PMH as a protocol to retrieve information from CRIS systems

(Initial approach - subject to further improvements)

- **CERIF XML metadata prefix for OpenAIRE**
- **Different sets for different subsets of the CRIS information**
- **One mandatory „list-all“ set**
- **Several more sets for different subsets of the data in the CRIS**

Using OAI-PMH to retrieve information from CRIS systems

- **List of all shareable Objects and Links (mandatory)**
- **Lists of Projects, Funding, People**
- **Publications linked with projects and funding**
- **Dataset distinct from Pubs (+ connection to project)**

Current State

- **Identified relevant CERIF Subset**
- **Identified re-usable Vocabularies**
- **Drafted the first Version of the OpenAIRE Guidelines for CRIS Interoperation based on CERIF XML**
- **Drafted a first version of a validating CERIF XML Schema for OpenAIRE**

Next Steps

- **Finalise and Represent Profiles in CERIF XML**
- **Finalise CERIF XML Schemas for Validation**
- **Confirm the priority of use-cases within the CRIS and OpenAIRE community**

Get feedback from the CRIS and OpenAIRE community

- **Finalise the „OpenAIRE Guidelines for CRIS Interoperation based on CERIF XML“**

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