euroCRIS Workshop for CRIS Developers and Managers
Topics

- Research Information Interoperability
- OpenAIRE Guidelines for CRIS Managers
- Experience from Implementors
- Processing in the OpenAIRE Validator & Aggregator
Why?

• Information **producers**: What is going to happen with our metadata?

• Information **consumers**: What metadata is (going to be) available? Where does it come from?

• **euroCRIS**: What more should to be done to make it maximum useful? What are the most painful points of research information interoperability? What can be generalized?
OpenAIRE Guidelines for CRIS Managers

An overview
Evolution of the Standard

• **v.1.1.1** (December 2018), [https://doi.org/10.5281/zenodo.2316420](https://doi.org/10.5281/zenodo.2316420)
  • Minor extensions
    • E.g. added DAI as person identifier
  • Documentation improvements

• **v.1.1.0** (June 2018), [https://doi.org/10.5281/zenodo.1298650](https://doi.org/10.5281/zenodo.1298650)
  • Updated CERIF-XML
  • Vocabularies aligned with the other OpenAIRE Guidelines

• v.1.0 (June 2015), [https://doi.org/10.5281/zenodo.17065](https://doi.org/10.5281/zenodo.17065)
  • Old-style CERIF-XML, a 1:1 mapping from the CERIF data model
Information Scope of the OpenAIRE Guidelines for CRIS Managers 1.1

The Core:
- The CRIS as a Service
- Organisations
- Researchers

Research Activities:
- Projects
- Funding
- Events

Research Infrastructure:
- Equipment

Research Outputs:
- Publications
- Datasets, Software & other Products
- Patents
OpenAIRE CERIF Subset

Note: The Service entity is used to represent the source CRIS itself. It is placed in the response to the OAI-PMH Identify request. No separate set for harvesting Services is specified.

since OpenAIRE CERIF Guidelines 1.0
added in OpenAIRE CERIF Guidelines 1.1
Scope: Institutional CRIS

- Publications
  - Item in Document
  - Article in Journal

- Publishing Channels

- Institution’s Academic Staff
  - External Persons
  - Publication Authors, Editors
  - Product Creators
  - Patent Inventors, Holders

- Conferences
  - Workshops
  - Seminars
  - Meetings

- The Institution
  - Organisation Hierarchy
  - Other Organisations
  - Funders
  - Publishers
  - Product Contributors
  - Patent Holders

- The projects the institution participates in

- Funding Programme
  - Call
  - Project Funding

- Research Datasets
  - Research Software
  - Images, Sounds, Videos
  - Websites, ...

- The CRIS (OAI-PMH Identify)

since OpenAIRE CERIF Guidelines 1.0
added in OpenAIRE CERIF Guidelines 1.1
Scope: Funder CRIS

- Publications
- Publishing Channels
  - Item in Document
  - Article in Journal
- Applicants
- Principal Investigators
- Organisation Contacts
- Publication Authors, Editors
- Product Creators
- Patent Inventors, Holders
- Conferences
- Workshops
- Seminars
- Meetings

- The Funder
  - Organisation Hierarchy
  - Applicants
  - Supported Organisations
  - Other Organisations
  - Publishers
  - Product Contributors
  - Patent Holders

- The CRIS
  (OAI-PMH Identify)

- Funding Programme
- Call
- Project Funding

- Research Datasets
- Research Software
- Images, Sounds, Videos
- Websites, ...

- The projects the funder funds

since OpenAIRE CERIF Guidelines 1.0
added in OpenAIRE CERIF Guidelines 1.1
Status of the Implementation at OpenAIRE
Tour of the OpenAIRE CERIF Entities
Projects

In an institutional CRIS

• Projects our institution participates in
  • With external funding?
  • Contractual research?
  • Internal projects?

• Projects our institution applied for funding for
  • Unsuccessful grant proposals
  • CRIS supports the internal approval process?

In a funder CRIS

• Projects we fund
• Project proposals

Not likely to be exposed
Project Context

The Consortium

- Coordinator? (OrgUnit or Person)
- Partners? (OrgUnit or Person)
- Contractors? (OrgUnit or Person)
- In-kind contributors? (OrgUnit or Person)
- Member? (OrgUnit or Person)

The Team

- Principal Investigator? (Person)
- Contact? (Person)
- Members? (Person)

with Affiliations?
- How deep in the org structure?
Funding: Funding Programmes & Calls & Tenders

In Institutional CRISs
- Funding opportunities
  - Prospective
  - Past

In Funder CRISs
- Funding schemes we have
- The calls we despatch
- Tracking “competition”?
Funding: Per-project Funding

In Institutional CRISs
• The funding we receive
• The funding we distribute (as a Coordinator)
• The funding we apply for?

In Funder CRISs
• The funding we distribute
• Amounts typically public
  • E.g. CORDIS Open Data
  • Authoritative info

Amounts not likely to be exposed
Events (conferences, workshops, ...) 

In Institutional CRISs 
• The events where papers by our staff/students have been accepted 
• The events where papers by our staff/students are being submitted 
• The events our staff/students attend 
• The events we organize 

In Funder CRISs 
• The events where paper with our funding have been accepted 
• The events that were/will be attended with our funding 
• The events that were/will be organized with our funding 
• The events we organize
Products: Datasets, Software & other stuff

• Do you have the records?
• Are they properly classified?
• Were there difficulties mapping to the COAR Resource Types scheme?
Equipment

• Equipment we used for producing a dataset
OrgUnits

• How deep org structure do you keep
  • Of your own organization?
  • Of other organizations?

• How deep do you expose?

• Internal codes?
• Multilingual names?
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Here the workshop continued discussing interfacing:

• **The CRIS with other systems**

• **The unit running the CRIS with other units**

• **The position and responsibilities of aggregating national CRISs, in particular with respect to feeding OpenAIRE**