Regional Portal FVG: effective interoperability through DSpace-CRIS and open standards
Friuli Venezia Giulia (FVG) Region

REGIONE AUTONOMA FRIULI VENEZIA GIULIA
The FVG Research System

Public Research Institutions (MIUR)  
8 researchers / 1000 inhabitants

International Institutions  
7500 researchers from all over the World

- ICTP
- Elettra Sincrotrone Trieste
- AREA SCIENCE PARK
- OGS
- INAF
- INFN
- ICGEB
- CRO Aviano
- Burlo

CRIS2016 Conference, June 8-11 2016,  
St Andrews, Scotland, UK
• Established in 1924
• 10 Departments
• 17.000 students
• 680 professors
• 1.800.000 monographs
• 15.000 e-journals
• Established in 1978
• 9 Departments
• 15,000 students
• 680 professors
• 850,000 monographs
• 54,500 ejournals
International School for Advanced Studies

- Established in 1978
- 3 Research Areas:
  - Physics, Neuroscience, Mathematics
- 130 post-docs
- 245 PhD students
- 67 professors
- 20,000 monographs
- 20,000 volumes of bound periodicals
OA and IR archives
10 year experience

• 2006 first version of DSpace 1.4 installed

• 2010 OAI-PMH harvesting from National Library for

• 2012 The National Bibliography Number Italia (NBN:IT)

• 2015 the 2nd place in the Italian national ranking
  184th place in the international one (webometrics)

TODAY

• Over 10,000 items of
  • Doctoral Thesis,
  • EUT University Press publications (5000 articles on 20 Ejournals and Books)
  • Conferences
OA and IR archives

• 2005 first DSpace installation
  all PhD and magister theses digitized
  all scientific papers produced by SISSA authors archived

TODAY
• Over 8,000 items (1981 -)
  • magister theses
  • master theses in HPC
  • PhD theses
  • Theses of the Master in Communication of Science
  • papers
2014 UnityFVG project

Strategic cooperation in some common sectors:

• research output
• library services
• technological transfer
• integration of services for student
2015 adoption of IRIS archives

UniTS and UniUD starts with CINECA IRIS (DSpace-CRIS) solution

100,000 research Items:
- scientific articles,
- chapters of books
- monographs
- conference proceedings
Regional Research Portal

- unique point of access to Research Production
- dissemination of OA
- integration of «entities»:
  - Publications
  - Researchers
  - Organisations
  - Projects
Why CERIF and the OpenAIRE guidelines?

- Similarity of the landscape: mix of repositories and CRIS systems
  → New partners could be already compliant with the OpenAIRE profile

- Define, agree and maintain a common exchange format is not trivial
  → The use of an international standard cancels conflicts and provides some components for free (Validator, Serialization and parser library, etc.)
1. Convert the database record in one or more SOLR Document (potential OAI record)

2. Apply rules to map the internal entity to a CERIF entity n:m

3. Build the CERIF XML using external configuration files
### Available Contexts

**OpenAIRE Cris Context**  
This context complies with OpenAIRE Cris rules.  
- **endpoint:** /oai/openaire-cris

### Default Context

This is the default context of the DSpace OAI-PMH data provider.

### Driver Context

This context complies with Driver rules.

### OpenAIRE Context

This context complies with OpenAIRE rules.  
- **endpoint:** /oai/openaire  
  (Literature repository)
List of Metadata Formats

- oai_dc
  - Namespace: http://www.openarchives.org/OAI/2.0/oai_dc/
  - Schema: http://www.openarchives.org/OAI/2.0/oai_dc.xsd

- cerif
  - Namespace: urn:xmlns:eurocris:cerif:1.6-2:eurocris:cris
  - Schema: https://www.eurocris.eu/cerif_schema/cerif-1.6-2-openapi

List of Sets

- Results fetched 9

- OpenAIRE_CRIS [openaire_cris]
  - Records Identifiers

- OpenAIRE_CRIS_persons [openaire_cris_persons]
  - Records Identifiers

- OpenAIRE_CRIS_publications [openaire_cris_publications]
  - Records Identifiers

- OpenAIRE_CRIS_orgunits [openaire_cris_orgunits]
  - Records Identifiers
The name: NICOLA

ORCID: 0000-0002-5987-1375

The affiliation: University of St Andrews, Scotland, UK

Many publications
Implementation status

- Proof of concept up & running since the end of 2015; it shows a snapshot of data batch loaded in the system
- Reviewing and improving the configurability of the mapping between the DSpace-CRIS data model and CERIF
- Need to validate the implementation against the OpenAIRE validator
- Harvester to be completed
Next steps

- Focus on the overlapping content between systems providing automatic aggregation and enrichment of the information
- Include the DSpace-CRIS Metrics data in the CERIF export
- Improve the support of different CERIF profiles
Thanks for your attention

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