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Services for knowledge transfer



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Regional Portal FVG: effective interoperability through DSpace-CRIS and open standards



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RESEARCH FRIULI VENEZIA GIULIA



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Friuli Venezia Giulia (FVG) Region



REGIONE AUTONOMA FRIULI VENEZIA GIULIA



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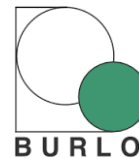
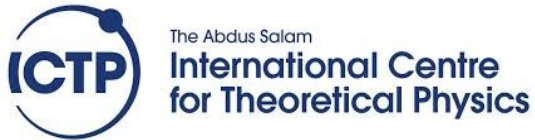
CERIF



The FVG Research System

Public Research Institutions (MIUR)
8 researchers / 1000 inhabitants

International Institutions Technology Parks
7500 researchers from all over the World



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UNIVERSITÀ DEGLI STUDI DI TRIESTE

- Established in 1924
- 10 Departments
- 17.000 students
- 680 professors
- 1.800.000 monographs
- 15.000 e-journals



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UNIVERSITÀ DEGLI STUDI DI UDINE

- Established in 1978
- 9 Departments
- 15.000 students
- 680 professors
- 850.000 monographs
- 54.500 ejournals



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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



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OA and IR archives

10 year experience



- 2006 first version of DSpace 1.4 installed
(2004 Messina declaration -> archive Doctoral Thesis)
- 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



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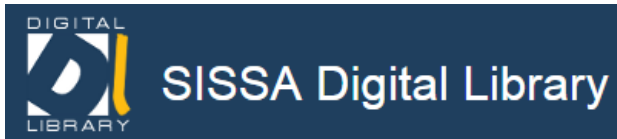
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OA and IR archives



- 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



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2014 UnityFVG project



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Strategic cooperation in some common sectors:

- research output
- library services
- technological transfer
- integration of services for student



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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



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2015



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Regional Research Portal

- unique point of access to Research Production
- dissemination of OA
- integration of «entities»:
 - Publications
 - Researchers
 - Organisations
 - Projects



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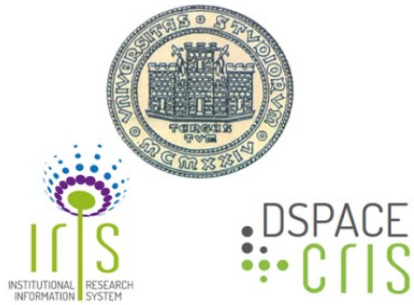
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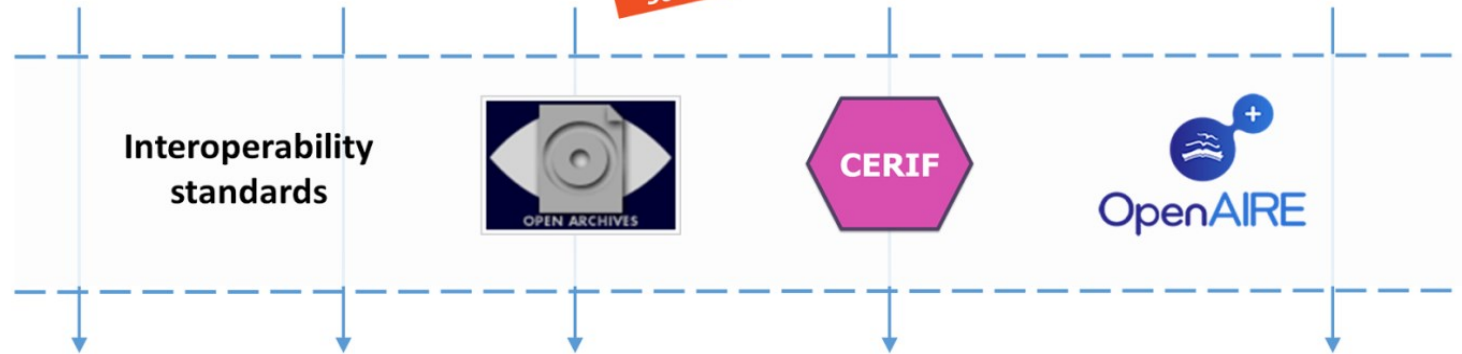
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University of Udine



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DSPACE
CRIS



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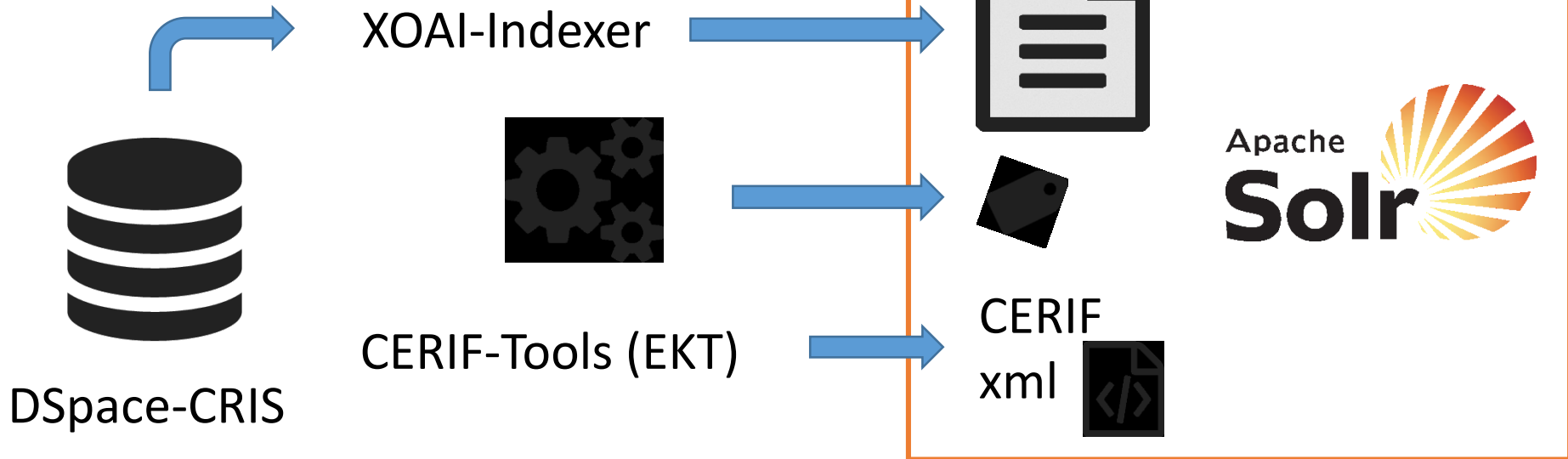
CERIF



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**

Identify

List Sets

List Metadata Formats

List Identifiers

List Records

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

Identify

List Sets

List Metadata Formats

List Identifiers

List Records

Driver Context This context complies with Driver rules.

Identify

List Sets

List Metadata Formats

List Identifiers

List Records

OpenAIRE Context This context complies with OpenAIRE rules. **endpoint: /oai/openaire (Literature repository)**

Identify

List Sets

List Metadata Formats

List Identifiers

List Records



Response Date 2016-06-06 16:27:24

List of Metadata Formats

Results fetched 0

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:org:eurocris:cerif-1.6-2::eu:openaire:cri>

Schema https://www.openaire.eu/cerif_schema/cerif-1.6-2_ope

Response Date 2016-06-06 15:10:53

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](#)



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```

<CERIF xmlns="urn:xmlns:org:eurocris:cerif-1.6-2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:xml
http://www.eurocris.org/Uploads/Web%20pages/CERIF-1.6/CERIF_1.6_2.xsd" date="2016-06-06" sourceDatabase="ricercaFVG.cineca.it">
  <cfPers>
    <cfPersId>9</cfPersId>
    <cfGender>u</cfGender>
    <cfPersName_Pers>
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      <cfFirstNames>NICOLA</cfFirstNames>
    </cfPersName_Pers>
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    </cfPers_ResPubl>
  </cfPers>

```

The name

ORCID

The affiliation

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



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Thanks for your attention

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