Managing Repositories and Digital Libraries with DSpace-CRIS

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Presentation

- University of Coimbra, Portugal
- Founded in 1290
- UNESCO World Heritage since 2013
- Joint Library Service of University (SIBUC)
  - created in 2007
  - manages the institutional repository (Estudo Geral)
  - other systems supporting (digital) libraries
Context

**Estudo Geral (2008)**
DSpace 5.5

**UC Digitalis (2012)**
DSpace 1.6.2, Drupal 7
Motivation

• Existing sparse, unstructured and complex solution
• Make vast cultural heritage widely available in a simple way to curators
• Relate digital objects and metadata with other entities in ancient documents context and scientific publications context
• Answer to the demands of research units, with a Current Research Information System closely related to the repository
Goals

• Define and implement a new open framework to host:
  • scientific institutional repository
  • the university cultural heritage contents
  • research data
• Manage the entities involved in research management
• Interoperability with internal and external systems
• Compliance with open standards
• Sustainability
Why DSpace-CRIS

- Smooth migration of existing digital content
- 10 year experience in managing DSpace instances
- Dissemination and re-use of digital assets
- Flexible data model – new entities
- Navigation over high resolution images
  - IIIF add-on
  - Document Viewer and OCR
- ORCID integration
- RCAAP and OpenAIRE interoperability
Implementation architecture
Data Migration – Estudo Geral

1. AIP export/import
   publications, e-people

2. Rebuild DSpace roles
   structure, groups, resource policies

3. ePeople and groups mapping

4. Database dump
   rebuild with new structure (4Science)

5. Statistics conversion
   SOLR, UMinho

6. Bulk import (xls)
   RP creation from HR system w/ ORCID mapping

CRIS2018
Interoperability
Estudo Geral @ UC
Main Issues and challenges

• Documentation
• ORCID integration
• User interface
• REST- API for existent and new Dspace-CRIS entities
• Data curation
  • nested metadata
  • entities management
  • identifiers (eg. ISNI for OU)
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