“10 years of Open Access at University of Trieste: from IR to CRIS integrated with Open Research Data”
AGENDA

- UniTs IR story: from OpenstarTs to ArTs (2006-2017)
- Evolution: from IR to CRIS/GLAM system
- Technological issues: Persistent identifiers, M2M protocols, Metadata Curation, AddOns, Plugins
- The UnityFVG challenge
- The Open/Research Data challenge
OpenstarTs: 2006 -2017

- 2006 Pilot project: installed the first version of DSpace 1.4

- 2007 OpenstarTs go LIVE
- 2010 OAI-PMH harvest from National Library for
- 2012 The National Bibliography Number Italia (NBN:IT)
- 2013 The Open Access Policy
- 2014 The Messina declaration 2.0
OpenstraTs at international level

From 2015 till now OpenstraTs is at 2nd place in the Italian national ranking (data from Ranking Web of World Repositories)

184th place at international level (2015)
IR: which software use?

Usage of Open Access Repository Software - Worldwide

- DSpace: 44.2%
- EPrints: 13.6%
- [Unknown]: 8%
- Digital Commons: 10.5%
- WEKO: 8%
- Altro: 26.7%

Total = 3448 repositories

OpenDOAR - 25-Sep-2017
IR: the DSpace choice

**DSpace** based IR

The Global Community choice

Fedora™
Fedora is a flexible repository platform with native linked data capabilities.

DSpace
DSpace is a turnkey Institutional repository application.

VIVO
VIVO creates an integrated record of the scholarly work of your organization.
2015 the Evolution to RIM - CRIS system

Research Information Management System
Current Research Information System

To collect and manage research data and information, including your researchers and groups, departments and organizational units, laboratories and infrastructures, projects and collaborations, contracts and events, patents, awards, etc.

To decide how to assess your resources and efficiently allocate them.
To promote your assets and activities.
To track and apply for new funding opportunities.
To exchange information with external systems and databases (ORCID, PubMed, WoS, etc.).

Source: 4Science
The migration from IR to CRIS

Natural «migration» from DSpace to DSpaceCRIS
Open Source software

Other commercial CRIS solutions

• Pure (Elsevier)
• Converis (Thomson Reuters)
2015 adoption of IRIS archives

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

100,000 research Items:
- scientific articles,
- chapters of books
- monographs
- conference proceedings
The UniTS experience

Our Digital Archives (in production from 2007)

- **OpenstarTs**: Pubblicazioni EUT, Doctoral Thesis, Conferences
- **ThesiS**: Bachelor Thesis (with digitized old material)
- **SbaSpace**: Catalogo Iniziative Divulgazione Scientifica, Cartella Stampa
- **ArTs**: Archivio della Ricerca (Institutional CRIS system linked to MIUR)

- OpenStarTs is registered on:
  - OpenDOAR, ROAR, ROARMAP
- OpenStarTs is indexed by:
  - OAISTER *(WorldCat)*, Google Scholar, OpenAIRE, Pleiadi, CORE
2016 OpenstarTs: migration to DSpace-CRIS

In addition to publications we can manage other “Research Entities”:

- **Author / Researcher**
- **Events**
- **Journals**
- **Organizational Units**
- **Projects**
- **Grants**
Advanced integration with metrics and services

- ORCID
- Altmetrics
- PlumX
- Google Scholar

ArTS ITEM example
Advanced integration with metrics and services

- Scopus
- WOS
- PubMed Central

*ArTS example*
Advanced Statistics

Page view(s)
33
checked on 29-set-2016

Download(s)
6
checked on 29-set-2016
The importance of data curation

Library team with tasks:

• Metadata curation
• Metadata quality
• PDF postprint/editorial Sherpa/Romeo check
• Publication validation
• Storage format evolution and obsolescence
Authentication
Identity Management
Standards

Shibboleth.

UniTS IDEM Login
eduGAIN

ORCID Login
Persistent Identifiers

• DOI

• HANDLE

• NBN

• ORCID
Interoperability with Standards

OAI-PMH  CERIF-XML  REST-services

Complies with
OpenstarTs: evolving to a GLAM

Cultural Heritage Data Management platform for Galleries, Libraries, Archives and Museums
Plugins & AddOns

IIIF Image Viewer
Use an international standard to work with image collections.

Document Viewer
View, access and work on full documents.

OCR & Transcription
Search anything you need in your digitalized documents.

Video/Audio Streaming
Simplify access and reuse of audio/video content.

Img Example  Doc example  Ocr example  Video example

AddOns by 4Science

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Plugins & AddOns

CORE Recommender

Suggested articles

1. The influence of translation on Shakespeare’s reception in Iran: three Farsi Hamlets and suggestions for a fourth.
   Provided by: Middlesex University Research Repository
   By: Horri Abbas

2. Shakespearean puppets
   Provided by: Repositório Institucional da UFSC
   By: Maciel Aline Razzera

3. Being a Thing Immortal: Shakespeare, Young Adult Culture, and the Motifs of the Undead
   Provided by: University of Oregon Scholars’ Bank | Publisher: University of Oregon | Year: 2016
   By: Harper Gavin

4. Reflections of contemporary socio-political and religious controversies in William Shakespeare’s Henry IV parts 1 and 2, Henry V and Henry VI parts 1, 2 and 3
   Provided by: Warwick Research Archives Portal Repository
   By: Sahmor Mustafa

5. Shakespeare as a prompter of language awareness: stylistics as a way of reading between/beyond the lines
   Provided by: Nottingham ePrints
   By: Lin Hui-Wei
2015 UnityFVG project

Strategic cooperation in some common sectors:

- research output
- library services
- technological transfer
- integration of services for student
Regional Research Portal

- unique point of access to Research Production
- dissemination of OA
- integration of «entities»:
  - Publications
  - Researchers
  - Departments
  - Journals
  - Events
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The Open Data Challenge

Data Management features integrated in DSpace-CRIS

Access to [CKAN](http://ckan.org) services from [DSpace-CRIS](https://www.dspace-cris.org), including direct preview of dataset content without the need to download the full dataset;

Data displayed in DSpace as a table, on a graph, on an interactive map;

Data can be sorted on particular columns, filter or facet by values, or choosing variables on the axes;

Integration via REST services that expose open data

[Example Dataset](http://example.com/data)
The Research Data Challenge

To preserve your Datasets, make them more discoverable and compliant with data management plans.

To establish a durable link between a publication in your repository and its associated data and datasets.

To provide an environment where your researcher can analyze, collaborate and safely share their data of any kind (GIS, Tabular, etc.).

To be able to link and display your dataverse in the profile pages of your researchers, departments and projects.

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UNIVERSITÀ DEGLI STUDI DI TRIESTE
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