New Research Support Roles for University Libraries

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Talk structure

— Introduction: speaker’s affiliation(s)
— Research Information Management: Why
— CRIS Systems in Latin America: a distinct landscape
— CRIS Systems and Interoperability with OpenAIRE/Repositories
— Are Next Generation Repositories CRIS Systems?
Speaker’s academic affiliation(s)

U Strathclyde in Glasgow – OA Advocacy

- Established 1796 as “the place for useful learning”
- 22,295 FTE Students and 3,200 staff (2017/18)
- Research: research grants and contracts income of £65.6m in 2017*
- Among the 20 top research-intensive universities in the UK

* 14.5% increase from previous year and an overall increase of over 60% over a six year period

Previously

- OpenAIRE2020 WP coordinator at LIBER (Assoc of European Research Libraries) in The Hague, the Netherlands
- EDINA National Data Centre, University of Edinburgh, UK
- Consejo Superior de Investigaciones Científicas (CSIC), Universidad Carlos III Madrid (UC3M), Spain
Speaker’s academic affiliation(s)

euroCRIS Technical Secretary

- Non-profit based in the Netherlands
- Association of practitioners in the area of Research Information Management (RIM) and CRISs
- 175 institutional members with over 340 representatives, [https://www.eurocris.org/community/members](https://www.eurocris.org/community/members)
- Custodian for the Common European Research Information Format (CERIF)
- MoUs with several relevant organisations in the RIM domain – such as OpenAIRE, ORCID, COAR, CONCYTEC
euroCRIS: promoting the use of CERIF

Main features of CERIF

CERIF (the Common European Research Information Format) is:

- A concept about research entities and their relationships – Specification (Conceptual Level)
- A description of research entities and their relationships – Model (Logical Level)
- A formalization of research entities and their relationships – Database Scripts (Physical Level)

Mission

"To promote collaboration within the research information community and advance interoperability through CERIF"
euroCRIS membership in Latin America

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https://www.eurocris.org/community/members
New Research Support Roles for University Libraries
Christian Lauersen
@clauersen

Them: what do you do?
Me: I'm a library director

Don't say it
Don't say it
Don't say it
Don't say it
Don't say it
Don't say it
Don't say it

Them: Oh man I would love to have a job
where I got to read books all day

7:13 AM - 18 Nov 2018

https://twitter.com/clauersen/status/1064174647384702976
Open Access publishing (OA)
Workflow for meeting the Open Access / REF policy requirements & for having research papers published Gold Open Access

- Create Pure record w/ date of acceptance & full-text accepted author manuscript as soon as possible upon manuscript acceptance

Want Gold OA for article?
- Yes
  - Green Open Access option. No further action required (beyond publisher's copyright form)
  - Send funding request to openaccess@strath.ac.uk (ideally forwarding acceptance notice)
  - Case-specific funding eligibility confirmation & processing of the Open Access fee (APC) payment
- No
  - Final acceptance
  - Copyright transfer form
  - Gold Open Access request to publishers
  - APC payment
  - First online release!

First online release!

Publications lifecycle
- Submission
- Acceptance with revisions
- Final acceptance
- Copyright transfer form
- Gold Open Access request to publishers
- APC payment

Research Data Management (RDM)
Workflow for creation & deposit of datasets associated with research publications (supplementary materials)

- Prepare supporting data
- Create basic dataset record in Pure (Title, creator, Data made available)
- Save as “Entry in progress”
- Receive a “place-holder” DOI
- Add “place-holder” DOI to paper’s Data Statement
- Complete dataset record & data upload

- On acceptance:
  - Set completed dataset record “for validation”
  - Final check for record completeness
  - Active DOI minted
  - Record validated
  - Public KnowledgeBase record created before paper is made public

* Make sure the funded project grant number is correctly acknowledged in the manuscript & a data statement is included.
† Email openaccess@strath.ac.uk if you are submitting to a Springer journal. Your article may be eligible for Gold OA at no cost.
‡ Some publishers wait for the APC to be paid before releasing the article.
Abstract

CRIS systems are playing an increasingly relevant role in the implementation of Open Access and Research Data Management (RDM) policies at research-performing organisations. This is not just because of the deep insight these systems provide into the workflows that underpin the institutional research activity, but also because they allow an effective teamworking across institutional research support units, which critically include research libraries.

This article describes the way the institutional Pure CRIS is used at the University of Strathclyde in Glasgow to support the implementation of Open Science in collaboration with the researchers themselves and with the institutional Research Office. In terms of training, which is in itself an important and often challenging part of the effort towards Open Science implementation, the key objective is to make researchers aware that all the seemingly independent processes they’re being asked to carry out on top of their research activity are interconnected and are part of the same drive towards openness and digital science.

Finally, the paper describes the international collaboration networks for the realisation of Open Science that the University of Strathclyde is involved in and some of the areas where this cross-institutional collaboration is taking place.

Keywords

Open Science; Research Information Management; Open Access; Research Data Management; Scholarly Communications; Current Research Information Systems (CRIS); Institutional case studies
Vicente Huidobro en vanguardia

Juan Larrea

Texto completo:
PDF (ENGLISH)

DOI: https://doi.org/10.5195/reviberoamer.1979.3370

Enlaces refback
- No hay ningún enlace refback.

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<td>2020</td>
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<td>Intratelencephalic projections of the avian visual dorsal ventricular ridge: Laminarly segregated, reciprocally and topographically organized</td>
<td>Fernández, M., Ahumada-Galleguillos, R., Sentis, E., Marín, G., Mpodozis, J.</td>
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<td>2020</td>
<td>Dyes and Pigments</td>
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Whose role is it to keep a database of the full institutional research output?
Welcome to the UKRI gateway to publicly funded research and innovation

Search for and analyse information on the latest innovative research in the UK

https://gtr.ukri.org/
Whose role is it to keep a database of all externally funded projects at the institution?
Whose role is it to keep track of the APCs paid by researchers at the institution?
Whose role is it to keep track of the links between funded projects, institutional publications and their datasets?
## Search REF Impact Case Studies

Browse the index below or search all Case Studies using keywords [e.g. “NHS”].

Learn about [advanced search options](https://impact.ref.ac.uk/casestudies/) and read our [Terms of Use](https://impact.ref.ac.uk/casestudies/).

### Browse the index

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[https://impact.ref.ac.uk/casestudies/](https://impact.ref.ac.uk/casestudies/)
Commercialisation of non-invasive wound monitoring system leads to quality of life benefits to patients.

Summary of the impact
As a result of research on moisture sensing, Professor Patricia Connolly developed and successfully clinically trialled a disposable, sterile, moisture sensor which enabled real-time measurement of the moisture level in a wound without disturbing the dressing. Chmedics Ltd was spun out in 2009 to market the disposable sensor and associated hand-held

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<td>Technological</td>
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Research Subject Area(s)
Medical and Health Sciences: Clinical Sciences

Contribution to occupational health campaigns, international debate and public awareness of miner’s lung and asbestos related disease and disability

Summary of the impact
A significant contribution has been made to: a) occupational health policy debates and widening public awareness about the connections between employment environments and disease, and b) compensation struggles and campaigns to improve health and safety in the contemporary workplace, as a result of oral history research on targeting the experience

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<td>University of Strathclyde</td>
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<td>Societal</td>
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Research Subject Area(s)
Medical and Health Sciences: Clinical Sciences, Public Health and Health Services
Measuring research impact (or proxies thereof)

Title: Atmospheric transport and deposition of microplastics in a remote mountain catchment

Published in: Nature Geoscience, April 2019

DOI: 10.1038/s41561-019-0335-5

Authors: Steve Allen, Deonie Allen, Vernon R. Phoenix, Gaël Le Roux, Pilar Durantez Jiménez, Anaëlle...

Twitter demographics:
The data shown below were collected from the profiles of 318 tweeters who shared this research output.

Mendeley readers:

About this Attention Score:
In the top 5% of all research outputs scored by Altmetric

Mentioned by:
- 163 news outlets
- 19 blogs
- 318 tweeters
- 2 Facebook pages

Citations:
- 11 Dimensions

https://www.altmetric.com/details/59053261
CRIS System Landscape
Latin America: a distinct approach?
System Interoperability and OpenAIRE
The quest for research information

Abstract: Nowadays, there is full consensus that the promotion of Science, Technology and Innovation (STI) has a positive impact on the economic growth of a country. In Peru, the National System of STI doesn’t have enough information for decision-making, because it doesn’t have an information system to manage (collect, systematize, store and communicate) the data generated during execution of each activity carried out. In this context, CONCYTEC (public body in charge of the development of policies, regulations and promotion of activities related to the STI) is planning to build a tool to cover this need, project that has financial support from the World Bank.

To fulfill this task in order to cover the needs of all the actors involved in STI in the country, a study was carried out at a national level to know the current state of the processes and the computer supports of the research centers, research institutes and universities of the country to know their needs, and be able to pursue a common goal.

http://hdl.handle.net/11366/672
Banco Mundial apoya fortalecimiento del sistema de ciencia, tecnología e innovación en el Perú

Enero 11, 2017

WASHINGTON, 11 de enero de 2017 - El Directorio Ejecutivo del Banco Mundial aprobó hoy un financiamiento por US$45 millones para fortalecer el sistema de ciencia, tecnología e innovación (CTI) en el Perú, lo que ayudará a mejorar la productividad en las empresas mediante la innovación de procesos y productos.

El proyecto apoyará el marco institucional del sistema de CTI, buscando hacerlo más integrado, coordinado y eficiente. En particular el proyecto fortalecerá las capacidades institucionales del Consejo Nacional de Ciencia y Tecnología (CONCYTEC), el ente rector del sistema, y apoyará la evaluación de la eficiencia y eficacia de programas como el Fondo Nacional de Ciencia y Tecnología (FONDECYT). Todos los actores institucionales se beneficiarán de asistencia técnica y equipamiento para mejorar sus sistemas de información, monitoreo y planificación.

MoU CONCYTEC/euroCRIS (Lima, Oct 1st, 2018)
2nd National RIM Conference next July

II Congreso Nacional de Gestión de Información en CTI - julio, 2020

Call for Papers #PeruCRIS2020

El Consejo Nacional de Ciencia, Tecnología e Innovación Tecnológica – Concytec, se complie organizar y presentar el II Congreso Nacional de Gestión de la información en CTI, el cual será realizado en julio del 2020, en el marco del proyecto #PeruCRIS.

Esta segunda edición, presentará algunas novedades con respecto a la edición anterior.

La inclusión de un Call For Papers, con el que diversos actores el ecosistema académico-científico podrán compartir los hallazgos y experiencias locales.

Fechas Importantes:
- Envío de artículos hasta el 31 de mayo de 2020.
- Notificación de aceptación: 30 de junio de 2020.
- Fecha de la Conferencia: 16 y 17 de julio de 2020 (fecha tentativa).

https://perucris.concytec.gob.pe/perucris2020
What is a CRIS?

Current research information system

From Wikipedia, the free encyclopedia

A current research information system (CRIS) is a database or other information system to store, manage and exchange contextual metadata for the research activity funded by a research funder or conducted at a research-performing organisation (or aggregation thereof).[1]

CRIS systems are also known as Research Information Management or RIM Systems (RIMS).[2][3]

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1 Features
2 Use case
   2.1 Research assessment
   2.2 Research administration
   2.3 Open Science implementation
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6 External links

Features

The data model underpinning a CRIS relies on a set of basic entities as defined by the Common European Research Information Format (CERIF) model maintained by the non-profit organisation euroCRIS.

The links connecting these entities provide a standardised semantic layer that provides consistency to the data model. The basic CERIF entities are people, organisations, projects and outputs (publications, research data, patents). Further second-level entities in the comprehensive snapshot of research provided by CERIF are for instance funding, research facilities and equipment or skills.

https://en.wikipedia.org/wiki/Current_research_information_system
CERIF: The Comprehensive Data Model for Research Information

Entities

– Projects, Organisations, Persons, Funding, Research Outputs, Events, Research Facilities, Equipment, Services, Skills, Prizes, Indicators, ...
– 25 in total

Attributes

– Just the basic ones
– Multilingual free-text ones
– External identifiers (DOIs, ORCID iDs, ROR iDs, ...)

Relationships

– Formalized semantics for the type of relationship
– Generally many-to-many
– Optional startDate + endDate
CERIF Example

Dataset 1

Project 1

Principal Investigator

endDate: D_2

Person 1

Principal Investigator

startDate: D_2

Person 2

WP Leader

Work Package 1

Part

startDate: D_1

date: D_3

Time:

D_1

Project 1 starts

D_2

Person 2 replaces Person 1 in the position of PI of Project 1

D_3

Project 1 ends

Slide: Jan Dvořák, http://hdl.handle.net/11366/1220
What euroCRIS is about: [RIM] community-building

Mission of euroCRIS
"To promote collaboration within the research information community and advance interoperability through CERIF"

Cris
tin
Current Research Information System in Norway

Even minor integrations can deliver great value – A case study

Mona Hide Klausen
m.h.klausen@cristin.no

http://hdl.handle.net/11366/513
A model national CRIS

CRISTin – the basics

• Organisation + system

• 158 member institutions
  • Higher education, hospitals, private research institutes

• 1 central database
MoU euroCRIS/OpenAIRE (May 27th, 2019)

Memorandum of Understanding

Purpose
The purpose of this Memorandum of Understanding (MoU) is to establish and promote a strategic and cooperative partnership between OpenAIRE and euroCRIS.

Objective
The strategic partners will work together:

(a) To realise optimal interoperability between the central OpenAIRE system and CRISs based upon the international standard CERIF exchange format, resulting in:

- An enrichment of the OpenAIRE database with an extended set of additional contextual metadata
- A substantial extension of the kind and number of data providers to the OpenAIRE aggregation, enabling a more complete coverage of the research information domain
- The gradual addition of the research information management community to the group of parties that have a stake in OpenAIRE
Institutional CRIS: a (European) example

Challenges
- Scale and Complexity of Institution
- Unpopularity former system
- High expectations
- Large amount of legacy data
- Different institutional cultures (University vs Developer)
- Rigid processes

Solutions
- Early involvement of stake holders and individual researchers
- Transparency regarding process of implementation and milestones
- Implementation step-by-step (Award Management)
- Heterogenous teams in implementation and management
- Analyze processes and workflows and maybe re-adapt

Slide: Steve Reding, Clemens Miniberger, http://hdl.handle.net/11366/610
Institutional CRIS: a (European) example

Pure @ University of Vienna: Responsibilities

University Library

Decentral u:cris staff @ University of Vienna

- Validation of publications: ca. 250 persons
- Contact points for initial data entry (publications): ca. 150 persons
- Contact points for initial data entry (research projects): ca. 70 persons

Slide: Steve Reding, Clemens Miniberger, http://hdl.handle.net/11366/610
Why University library participation is key

- Cross-institutional collaboration at the heart of what libraries do
- Not so much the case for stakeholders involved in the RIM domain

"Practices and Patterns in Research Information Management: Findings from a Global Survey", https://oc.lc/rim
Mapping the RIM landscape

The OCLC Research-euroCRIS Survey of Research Information Management Practices received 381 survey responses from 44 countries, which demonstrates the global nature of research information management activities.

Respondents by Region (n=381)*

- **Unknown,** 107 (28%)
- EMEA, 152, (40%)
- APAC, 32, 8%
- AMER, 90, 24%

*1 respondent from each of the following countries: Afghanistan, Albania, Azerbaijan, Barbados, Belize, Brazil, Bulgaria, Hungary, Lebanon, Mexico, Namibia, Russia, Saudi Arabia, Slovakia, Sri Lanka, Sweden, Trinidad and Tobago, Turkey, Uganda, United Arab Emirates and Uruguay

**107 respondents did not provide a country

"Practices and Patterns in Research Information Management: Findings from a Global Survey", https://oclc/rim
Mapping the RIM landscape: interoperability

CRIS/IR Survey Report

There was wide participation from the community, and we collected 84 full responses from 20 different countries.

The two main questions the Survey tried to answer were: are CRISs gradually replacing IRs? Are the two systems overlapping in their functionalities? From the results we have collected, both questions seem to get a negative answer. The two systems are clearly complementary: while IRs are the preferred choice for managing research publications and dissertations and thesis, CRISs are regularly chosen for managing the institutional research information as a whole including metadata for research papers.

http://www.eunis.org/blog/2016/03/01/crisir-survey-report/
euroCRIS Directory of Research Information Systems (DRIS)

The Directory of Research Information Systems (DRIS) is a euroCRIS initiative to map the available research information management infrastructure in Europe (and beyond). As of January 2020 it includes close to 450 CRIS systems for institutions, research funders and other bodies in multiple European countries and beyond.

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<td>Pure</td>
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<td>IRIS</td>
<td>70</td>
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https://dspacecris.eurocris.org/cris/explore/dris
# DRIS entry

## Research Object OMEGA-PSIR@WUT

**Name of the CRIS**: OMEGA-PSIR@WUT  
**Acronym**: OMEGA-PSIR@WUT

**Description**

OMEGA-PSIR@WUT is the fully functional CRIS operated at the Warsaw University of Technology (WUT). It provides the University Management with a complete view of research achievements of the University, and reports the achievements to the national authorities. It also functions as Institutional Repository, making it possible to archive full-texts, and provides access directly to the users. It is compliant with the OAI-PMH protocol. The system grants end-users access to the files according to the copyright permissions and the users' privileges. For example, for an authorized user a publication can be provided directly from the system, otherwise the system directs the user to the publisher site.

**Status**: In Operation  
**Scope**: University  
**Date of Establishment**: 02-01-2013  
**Number of Users**: 4300  
**Annual Number of DB requests**: 360,000  
**Software**: Commercial/In-house software

**CERIF-Compatibility**  
CERIF wrapped: Non-CERIF storage model but CERIF interface (query and reporting)  
**CERIF-version**: CERIF-1.4

**Coverage**

- Projects
- Persons (researchers)
- Organisations (Institutes, Departments...)
- Publications
- Products (resulting from research: e.g. software, video, audio)
- Awards / Prizes (local, national, international)
- Patents
- Events (e.g. conferences, seminars...)
- Facilities (e.g. large laser laboratory)
- Equipment (e.g. x-ray spectrometer)
- Services (as outcome of research or linked to research)
- Person CV
- Person skills

**Links to systems within the institution**

- Institutional Repository
- HRM-System
- Financial System
- Library System
- SIS (Student Information System)

**Links to external systems outside the institution**

- CRIS of other Institutions

https://dspacecris.eurocris.org/cris/dris/dris00977
Progress updates delivered every 6 months at euroCRIS membership meetings: Warsaw’2018 – Helsinki’2019 – Münster’2019

- Still work in progress
- Some platforms still severely under-represented (Converis, Symplectic)
- Emphasis on capturing implementation of open source solutions such as Dspace-CRIS and VIVO that can benefit from networking
## DRIS snapshots: VIVO

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## DRIS snapshots: DSpace-CRIS

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Please send us your system description (6 minimally sufficient metadata elements) if not listed in the DRIS: eurocris@eurocris.org
A best practice example for an institutional CRIS

SIGPRO | Sistema de Información y Gestión de Proyectos, Programas y Actividades

UNIVERSIDAD DE COSTA RICA

Project

ESTUDIO DEL PAPEL DEL DOMINIO METALPROTEINASA Y DISINTEGRINA RECOMBINANTES EN LA ACTIVIDAD HEMORRÁGICA DE METALPROTEINASAS DE LA CLASE PI Y PII DE VENENO DE SERPIENTES.

Organisation

Unidad responsable: INSTITUTO CLODIMOIRO PICADO
Tipo de investigación: BASICA
Estado del proyecto: DESARROLLO

Tipo de financiamiento: POR LA U.C.R.
Ubicación del proyecto: SAN JOSE, PROVINCIA
Tipo de Proyecto: PROYECTO
Periodo de vigencia: 2017 - 2020

Objetivos

EVALUAR LA PRESENCIA DE EXOSITIOS EN EL DOMINIO METALPROTEINASA DE UNA METALPROTEINASA PI Y PII DE VENENO DE SERPIENTE QUE INFLUYEN EN SU ACTIVIDAD HEMORRÁGICA, MEDIANTE LA EXPRESIÓN RECOMBINANTE DE VENAS.

Descriptores

5322 - VENENOS

Disciplinas

MICROBIOLOGIA

Investigadores

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Aggregating research information
(via OpenAIRE & LA Referencia)

Validate your datasource

Why making CRIS OpenAIRE-compliant?

• Even if the institutional repository is already OpenAIRE-compliant, it makes sense to implement the CERIF-XML Guidelines on the CRIS for the sake of the contextual information not included in the repository items

• Adding National CRIS to the range of OpenAIRE data providers may also involve significant benefits in terms of comprehensiveness, esp in countries with weaker repository networks
First CRIS already harvested by OpenAIRE (May 2019)

Compatibility Level: ✗
OpenAIRE CRIS v1.1

Type (1)

- [ ] CRIS System(5)

Compatibility Level (1)

- [✓] OpenAIRE CRIS v1...(5)

Country (4)

- [ ] NL(2)
- [ ] FI(1)
- [ ] PL(1)
- [ ] RS(1)

Results per page: 10

5 content providers, page 1 of 1

WUT Base of Knowledge

- CRIS SYSTEM
- OPENAIRE CRIS v1.1
Organization: Warsaw University of Technology (WUT)
Country: Poland
Website URL: https://www.pw.edu.pl/engpw
OAI-PMH URL: https://repo.pw.edu.pl/oai/OW_Repository

Metis Radboud University

- CRIS SYSTEM
- OPENAIRE CRIS v1.1
Organization: Radboud University Nijmegen
Country: Netherlands
Website URL: https://metisst.nl/
OAI-PMH URL: https://oametfa.uci.ru.nl/metas-oaipmh-endpoint/OAIHandler
First CRIS already harvested by OpenAIRE (May 2019)

**DANS (Data Archiving and Networked Services)**

- **CRIS SYSTEM**: CRIS System V1.1
- **Organization**: KNAW
- **Country**: Netherlands
- **Website URL**: [https://dans.knaw.nl/en/](https://dans.knaw.nl/en/)
- **OAI-PMH URL**: [http://services.nod.dans.knaw.nl/oa-cerif](http://services.nod.dans.knaw.nl/oa-cerif)

**VIRTA**

- **CRIS SYSTEM**: CRIS System V1.1
- **Organization**: CSC
- **Country**: Finland
- **Website URL**: [https://www.csc.fi](https://www.csc.fi)
- **OAI-PMH URL**: [https://dwitjutife1.csc.fi/api/cerif](https://dwitjutife1.csc.fi/api/cerif)

**CRIS UNS (Current Research Information System University of Novi Sad)**

- **CRIS SYSTEM**: CRIS System V1.1
- **Organization**: Scientific Veterinary Institute "Novi Sad"
- **Country**: Serbia
- **Website URL**: [https://cris.uns.ac.rs/](https://cris.uns.ac.rs/)
- **OAI-PMH URL**: [https://cris.uns.ac.rs/OAIHandlerOpenAIRECRIS](https://cris.uns.ac.rs/OAIHandlerOpenAIRECRIS)
Contextual research information

This may include information on:

- Affiliations
- Funded projects
- Associated datasets
- Research equipment/facilities

(usually not included in institutional repositories, or not at the moment)
Are Next-Gen Repos CRISs by another name?

Not really. The NGR initiative is mostly about technical improvement for repository platforms.

However, from a content perspective, the gradual integration / merging or IRs and CRISs is part of the landscape evolution.
System interoperability a key concept for Open Science implementation

WheatVIVO

The Wheat Initiative is developing an open-access web portal that aims to provide information regarding wheat researchers and international projects.

The WheatVIVO portal will facilitate access to information concerning researchers and research projects amongst the global public-private wheat community. This web portal will be a useful tool for researchers to search for partners in order to develop collaborations. WheatVIVO can also be used by students and post-docs to identify labs in which they would like to work, as well as by policy makers and funding agencies to better understand research priorities in different countries.

https://www.wheatinitiative.org/wheatvivo
The challenge: To be able to provide cross-institutional, international support to researchers with unprecedented mobility.
A few conclusions

• Plenty of relevant, new research support tasks waiting for a dynamic library and institutional leadership to take a step forward

• As a research information management community we need the cross-institutional & international collaboration attitude that libraries carry in their genes

• Specific training is required in the field of research information management (euroCRIS may be able to help with that)

• Library professionals need further empowerment in the region
Gracias!

Preguntas?

Pablo de Castro

euroCRIS Secretary

Open Access Advocacy Librarian

University of Strathclyde

pablo.de-castro@strath.ac.uk

http://orcid.org/0000-0001-6300-1033