Practices and Patterns:

the Convergence of Repository and CRIS Functions

Open Repositories 2019 * Hamburg, Germany * 11 June 2019

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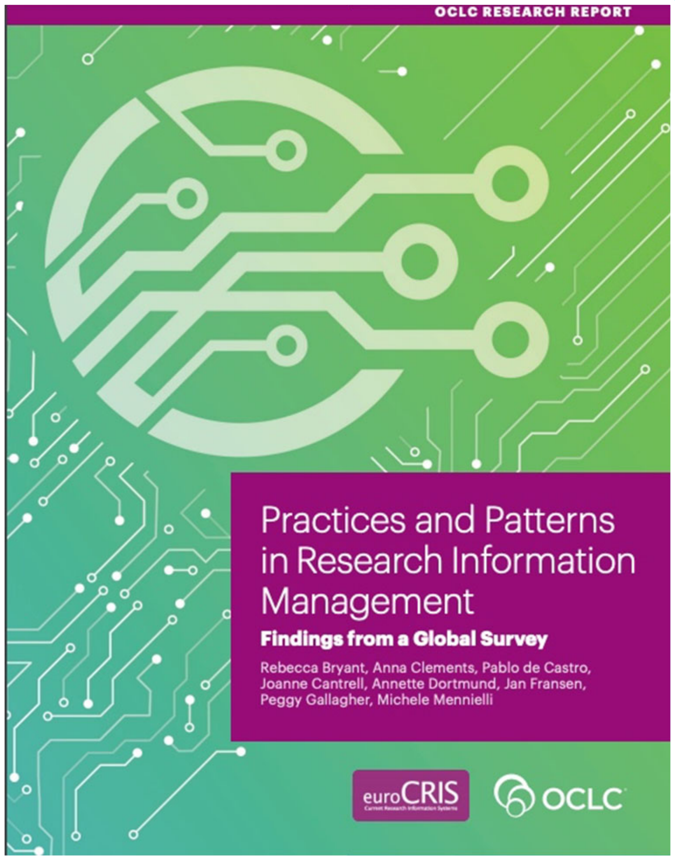

OCLC RESEARCH REPORT

Practices and Patterns in Research Information Management

Findings from a Global Survey

Rebecca Bryant, Anna Clements, Pablo de Castro, Joanne Cantrell, Annette Dortmund, Jan Fransen, Peggy Gallagher, Michele Mennielli

Today's presentation

- Introduction to OCLC Research, euroCRIS, and our collaborative research
- The background: evolution of repository-CRIS convergence
- Survey findings

OCLC Research

- Devoted to challenges facing libraries and archives since 1978
- Community resource for shared Research and Development (R&D)
- Engagement with OCLC members and the community around shared concerns
- Learn more
  - oc.lc/research
  - Hangingtogether.org blog

OCLC Research

OCLC RESEARCH POSITION PAPER

Research Information Management: Defining RIM and the Library's Role

Rebecca Bryant
OCLC Research (US)

Anna Clements
University of St. Andrews (UK)

Carol Feltes
Rockefeller University (US)

David Groenewegen
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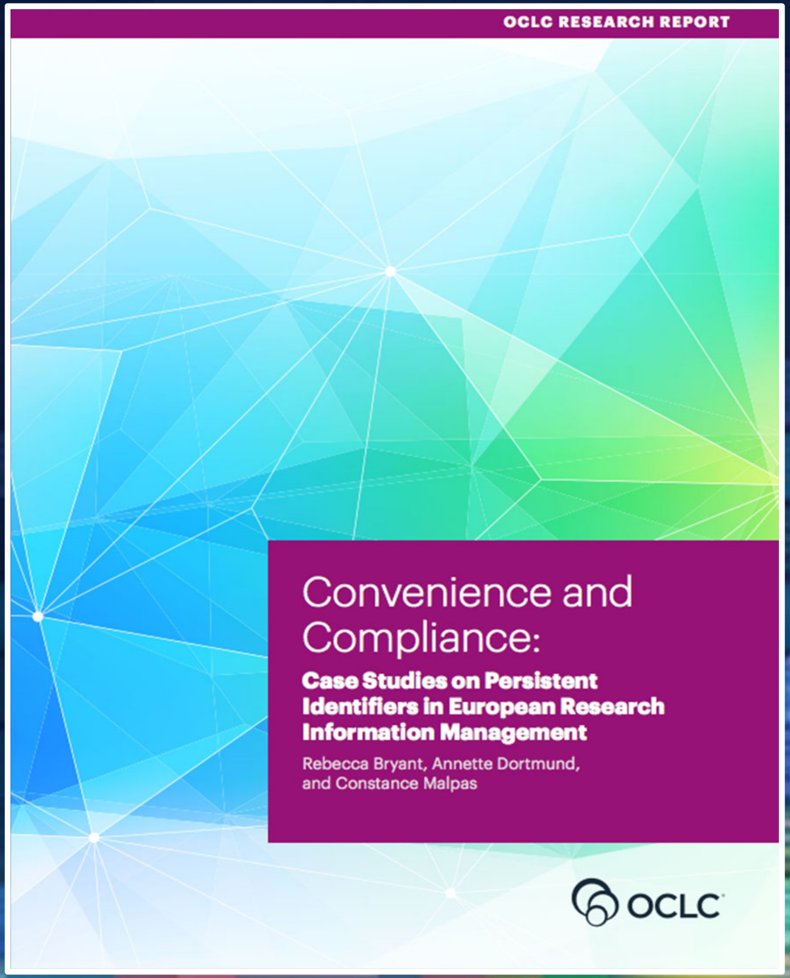

OCLC RESEARCH REPORT

Convenience and Compliance:

Case Studies on Persistent Identifiers in European Research Information Management

Rebecca Bryant, Annette Dortmund, and Constance Malpas

OCLC

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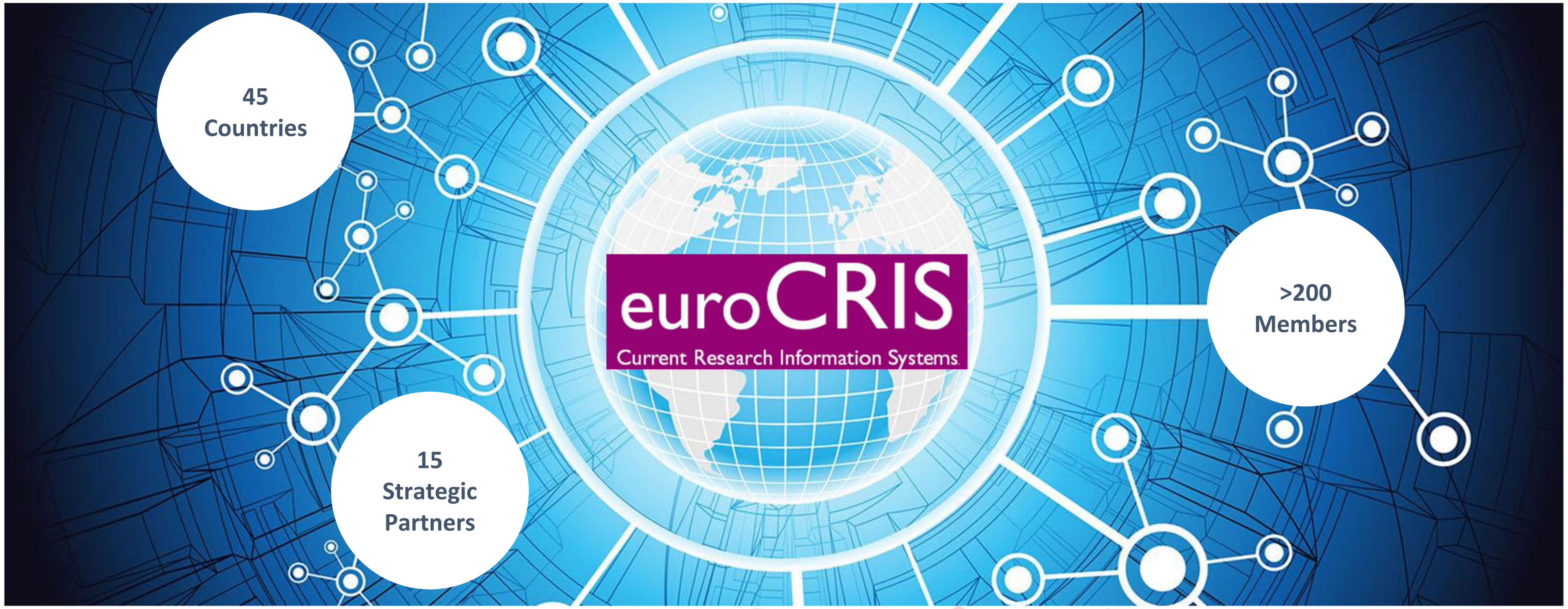
oc.lc/rim

An international not-for-profit association founded in 2002 to bring together experts on research information in general and research information systems (CRIS) in particular



45
Countries

>200
Members

15
Strategic
Partners

ALLEA ALL European Academies
VIVO connect • share • discover
EARMA European Association of Research Managers and Administrators
CODATA ICSU
ERCIM European Research Consortium for Informatics and Mathematics
ibict
ORCID
COAR Confederation of Open Access Repositories
casrai Connecting Research
European Science Foundation
DURASPACE
APARSEN
European University Information Systems
Jisc
OCLC

Building on previous research

CRIS/IR Survey

Report

EUROPEAN UNIVERSITY INFORMATION SYSTEMS

ERAI

EUNIS Research and Analysis initiative

euroCRIS

Current Research Information Systems

http://www.eunis.org/blog/2016/03/01/crisir-survey-report/

http://www.eunis.org/wp-content/uploads/2016/03/cris-report-ED.pdf

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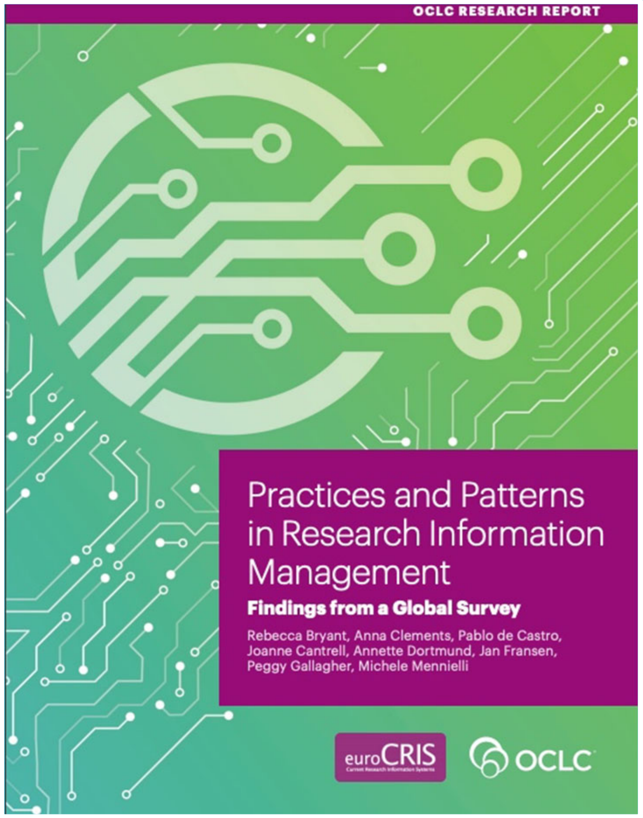
CINECA & EUNIS & euroCRIS

Practices and Patterns in Research Information Management: Findings from a Global Survey



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Rebecca Bryant, PI, OCLC Research

Pablo de Castro, Strathclyde University and euroCRIS

Anna Clements, University of St. Andrews and euroCRIS

Annette Dortmund, OCLC EMEA

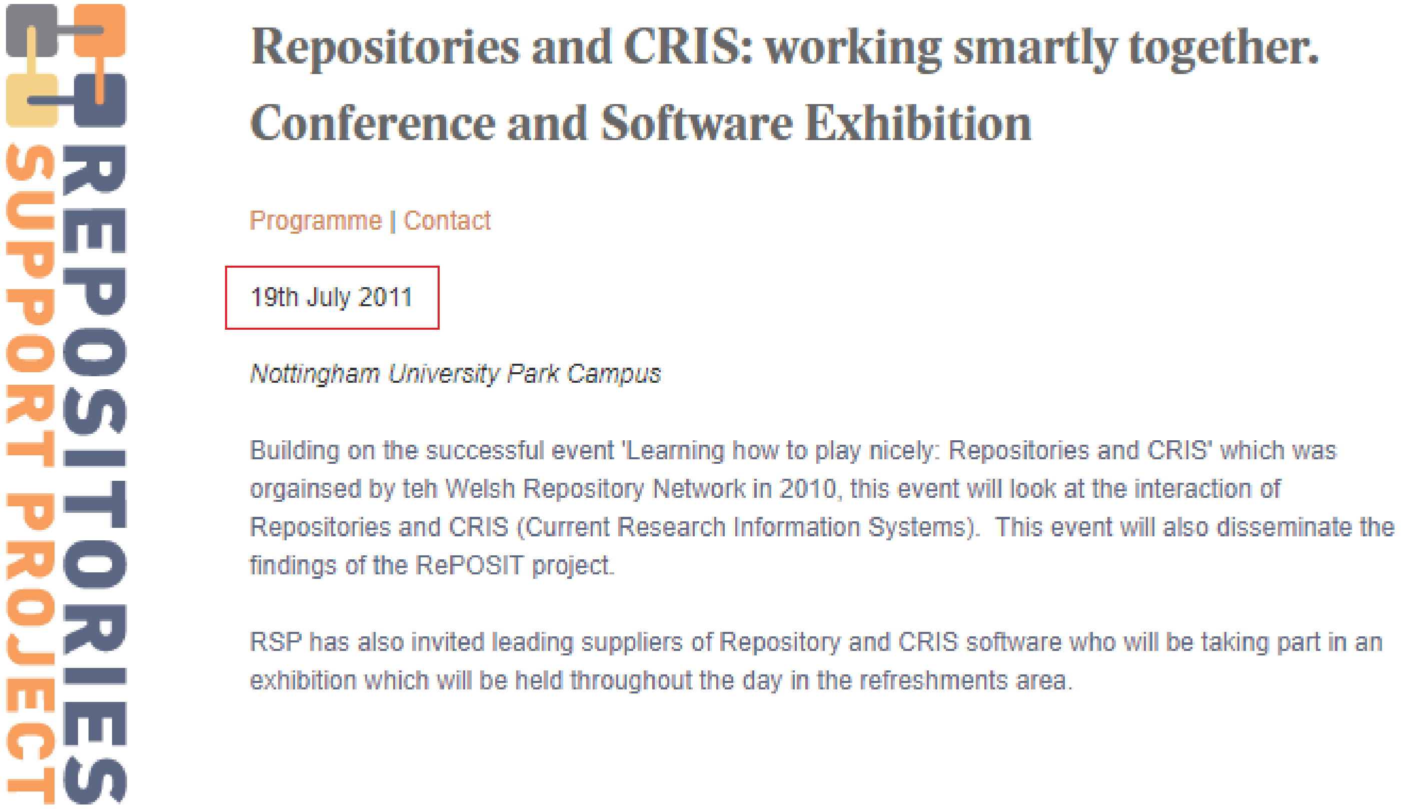
Jan Fransen, University of Minnesota, Twin Cities

Michele Mennielli, DuraSpace and euroCRIS

Plus a number of valuable collaborators at OCLC

oc.lc/rimsurvey

Repository/CRIS interoperability: background



Repositories and CRIS: working smartly together.

Conference and Software Exhibition

Programme | Contact

19th July 2011

Nottingham University Park Campus

Building on the successful event 'Learning how to play nicely: Repositories and CRIS' which was orgainsed by teh Welsh Repository Network in 2010, this event will look at the interaction of Repositories and CRIS (Current Research Information Systems). This event will also disseminate the findings of the RePOSIT project.

RSP has also invited leading suppliers of Repository and CRIS software who will be taking part in an exhibition which will be held throughout the day in the refreshments area.

- Designed as a mechanism to get repositories populated
- Original workflow CRIS metadata records → repositories

http://www.rsp.ac.uk/events/repositories-and-cris-systems-working-smartly-together/

Slide by Mark Cox (KCL & euroCRIS Board, July 2011)

CRISes and OARs

- CRISes and OARs developed substantially separately
- OARs primarily developed as **discovery** tools
  - Public facing
  - Generally populated via individual deposit
  - Development usually led by library staff
- CRISes mainly used as (data) **management** tools
  - Used within institutions, with little or no public interface
  - Often built to integrate with other systems to allow import of data
  - Most implementations led by institution's research offices
- Considerable overlap in the data that is collected by each

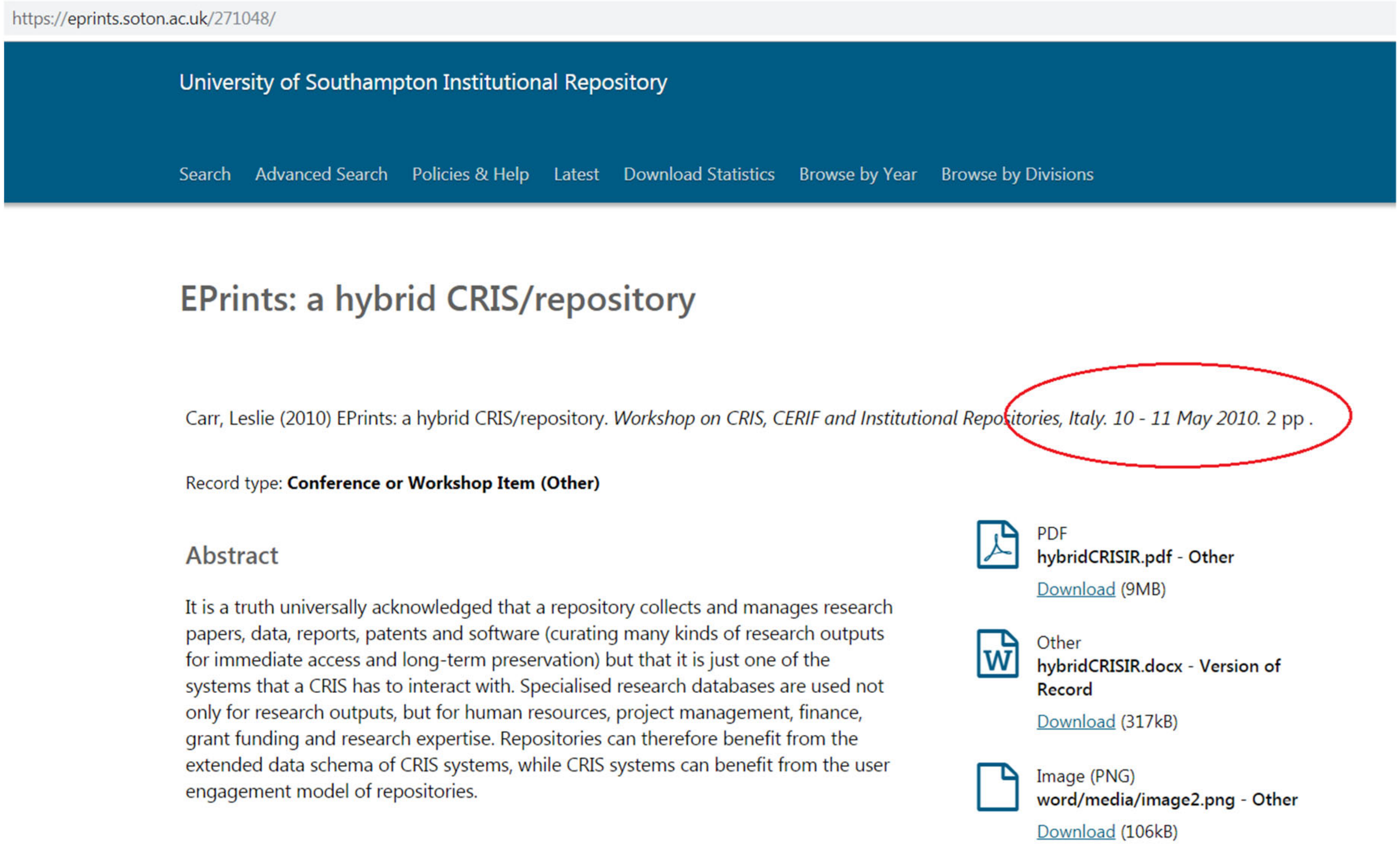
http://www.rsp.ac.uk/documents/get-uploaded-file/?file=rspnottingham190711_embed.ppt

Slide by Mark Cox (KCL & euroCRIS Board, July 2011)

Integration of CRISes and OARs

- Increasing realisation in institutions that there is benefit from streamlining OAR and CRIS development
- Several potential ways of doing this
- Can use a CRIS for gathering all research related information, including research output, and feed/link to repository
- Can expand repository to be able to cover a wider range of research related information
- Can use portal functionality of sophisticated CRIS systems to mimic repository functionality

“Several potential ways of doing this”: IR-as-a-CRIS



https://eprints.soton.ac.uk/271048/

University of Southampton Institutional Repository

EPrints: a hybrid CRIS/repository

Carr, Leslie (2010) EPrints: a hybrid CRIS/repository. *Workshop on CRIS, CERIF and Institutional Repositories, Italy. 10 - 11 May 2010.* 2 pp .

Record type: **Conference or Workshop Item (Other)**

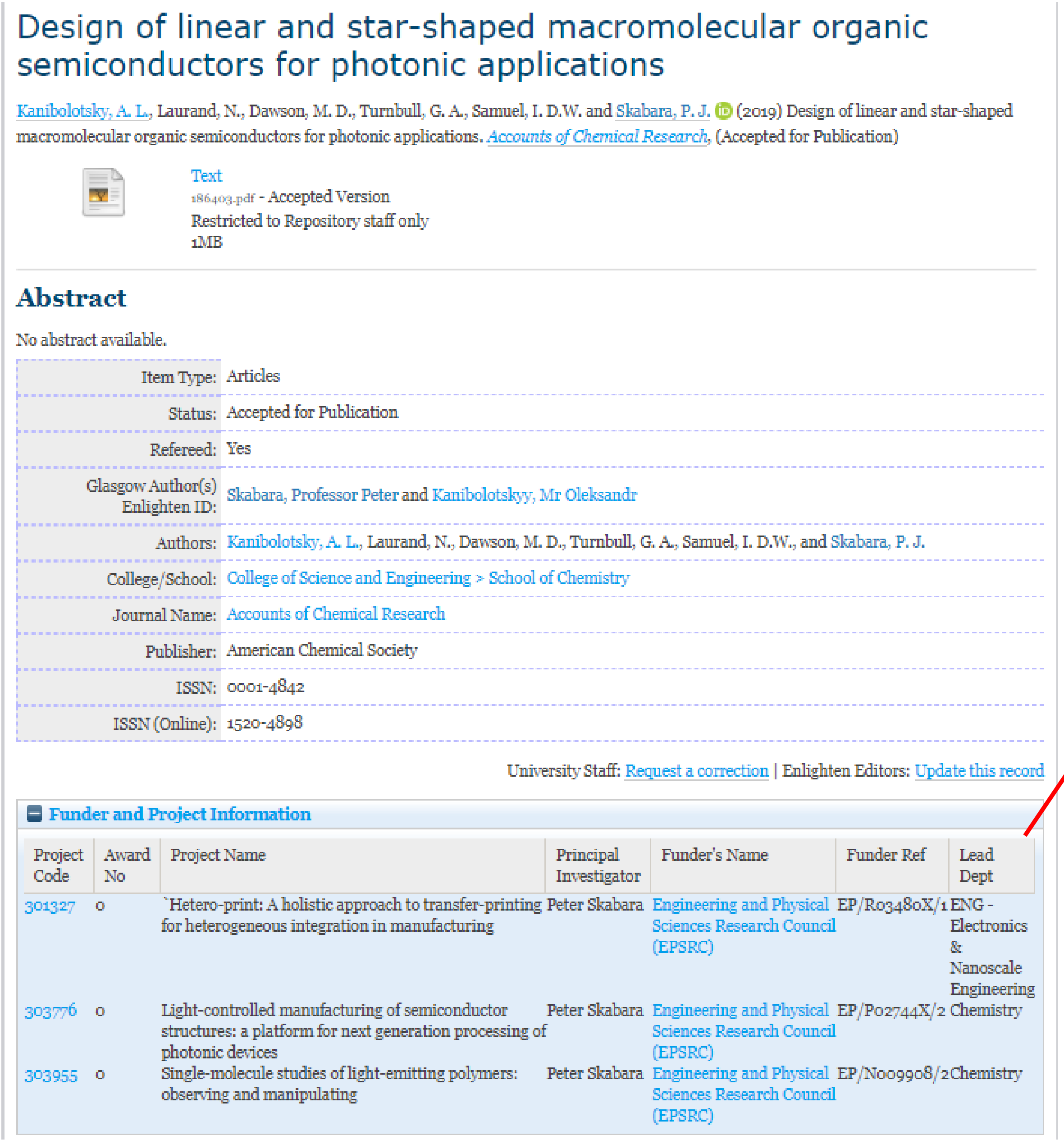
Abstract

It is a truth universally acknowledged that a repository collects and manages research papers, data, reports, patents and software (curating many kinds of research outputs for immediate access and long-term preservation) but that it is just one of the systems that a CRIS has to interact with. Specialised research databases are used not only for research outputs, but for human resources, project management, finance, grant funding and research expertise. Repositories can therefore benefit from the extended data schema of CRIS systems, while CRIS systems can benefit from the user engagement model of repositories.

PDF
hybridCRISIR.pdf - Other
Download (9MB)

Other
hybridCRISIR.docx - Version of Record
Download (317kB)

Image (PNG)
word/media/image2.png - Other
Download (106kB)



Design of linear and star-shaped macromolecular organic semiconductors for photonic applications

Kanibolotsky, A. L., Laurand, N., Dawson, M. D., Turnbull, G. A., Samuel, I. D.W. and Skabara, P. J. (2019) Design of linear and star-shaped macromolecular organic semiconductors for photonic applications. *Accounts of Chemical Research*, (Accepted for Publication)

Text
186403.pdf - Accepted Version
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1MB

Abstract

No abstract available.

Item Type:	Articles
Status:	Accepted for Publication
Refereed:	Yes
Glasgow Author(s) Enlighten ID:	Skabara, Professor Peter and Kanibolotskyy, Mr Oleksandr
Authors:	Kanibolotsky, A. L., Laurand, N., Dawson, M. D., Turnbull, G. A., Samuel, I. D.W., and Skabara, P. J.
College/School:	College of Science and Engineering > School of Chemistry
Journal Name:	Accounts of Chemical Research
Publisher:	American Chemical Society
ISSN:	0001-4842
ISSN (Online):	1520-4898

University Staff: Request a correction | Enlighten Editors: Update this record

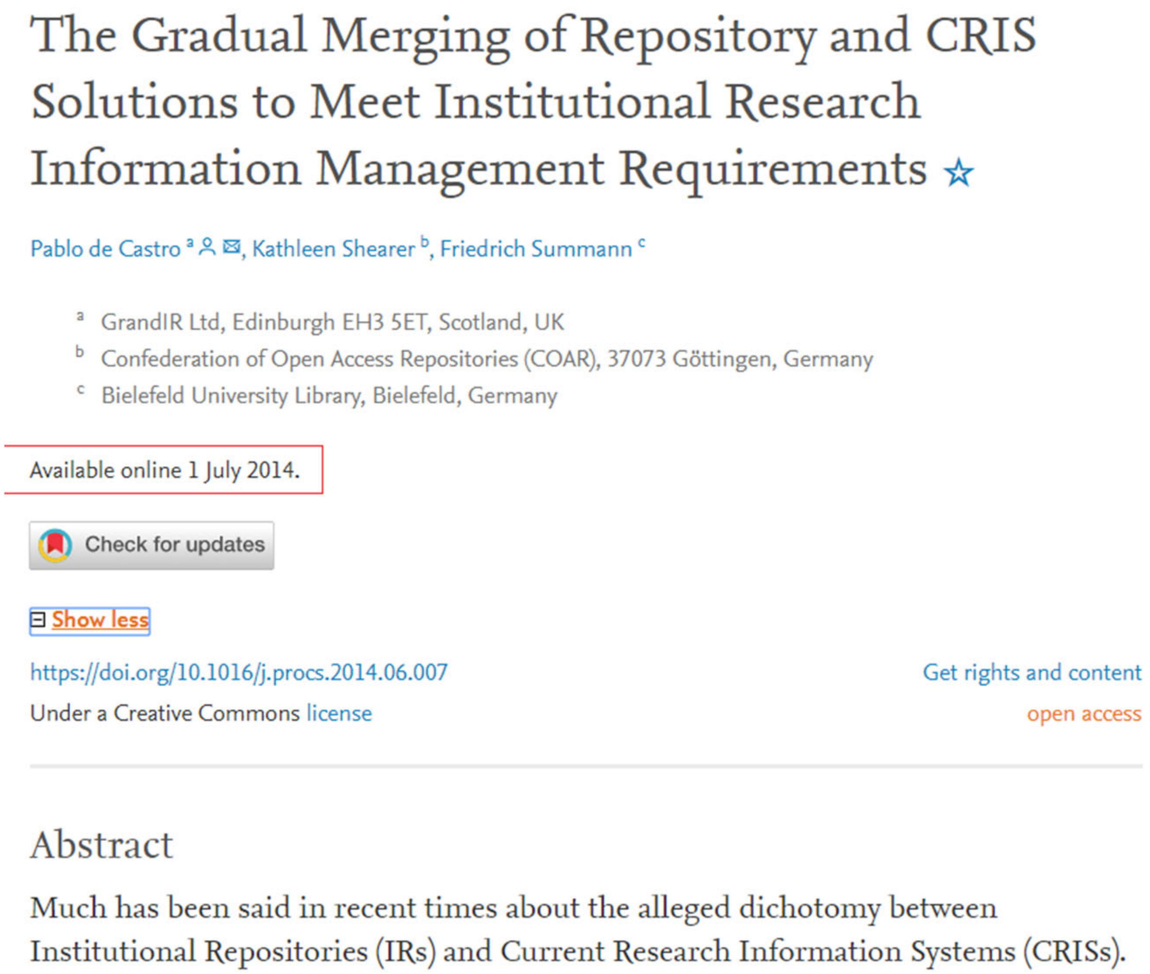
Funder and Project Information

Project Code	Award No	Project Name	Principal Investigator	Funder's Name	Funder Ref	Lead Dept
301327	0	`Hetero-print: A holistic approach to transfer-printing for heterogeneous integration in manufacturing	Peter Skabara	Engineering and Physical Sciences Research Council (EPSRC)	EP/R03480X/1	ENG - Electronics & Nanoscale Engineering
303776	0	Light-controlled manufacturing of semiconductor structures: a platform for next generation processing of photonic devices	Peter Skabara	Engineering and Physical Sciences Research Council (EPSRC)	EP/P02744X/2	Chemistry
303955	0	Single-molecule studies of light-emitting polymers: observing and manipulating	Peter Skabara	Engineering and Physical Sciences Research Council (EPSRC)	EP/N009908/2	Chemistry

- **Eprints-based IR-as-a-CRIS model** operating at eg the University of Glasgow Enlighten repository, http://eprints.gla.ac.uk/
- Collection of additional info on funding sources requires connection to *(interoperability with)* project database

http://eprints.gla.ac.uk/186403/

An early attempt at describing the CRIS/IR landscape (2014)



The Gradual Merging of Repository and CRIS Solutions to Meet Institutional Research Information Management Requirements ☆

Pablo de Castro [a], Kathleen Shearer [b], Friedrich Summann [c]

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[b] Confederation of Open Access Repositories (COAR), 37073 Göttingen, Germany
[c] Bielefeld University Library, Bielefeld, Germany

Available online 1 July 2014.

Check for updates

⊟ Show less

https://doi.org/10.1016/j.procs.2014.06.007

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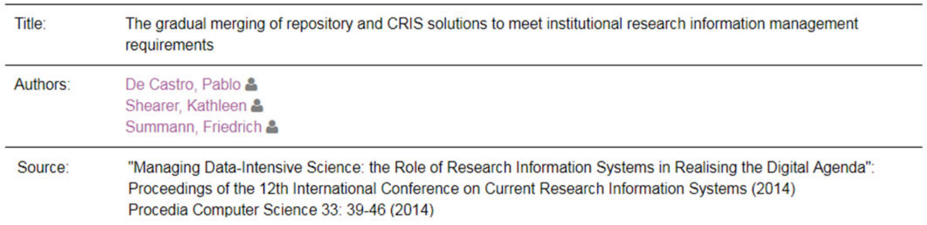
Abstract

Much has been said in recent times about the alleged dichotomy between Institutional Repositories (IRs) and Current Research Information Systems (CRISs).

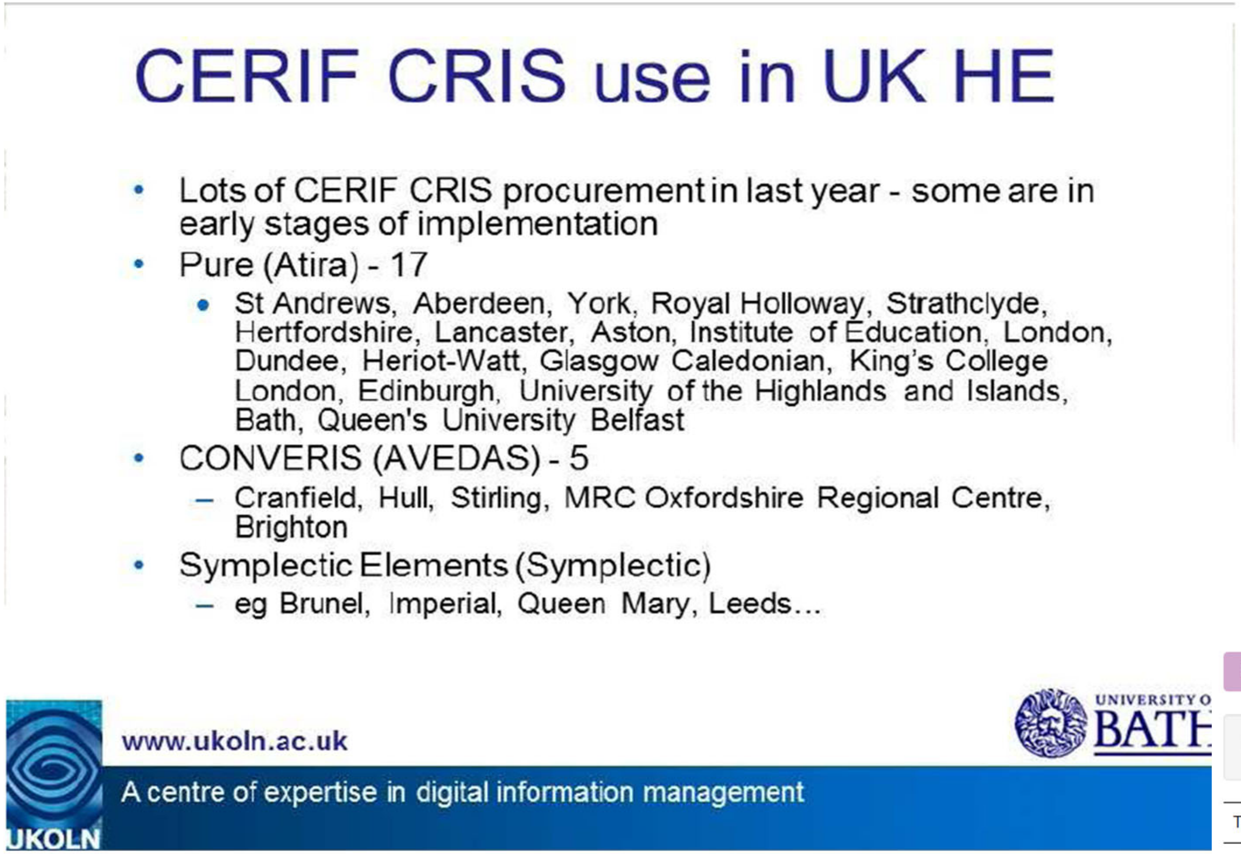


Title:	The gradual merging of repository and CRIS solutions to meet institutional research information management requirements
Authors:	De Castro, Pablo Shearer, Kathleen Summann, Friedrich
Source:	"Managing Data-Intensive Science: the Role of Research Information Systems in Realising the Digital Agenda": Proceedings of the 12th International Conference on Current Research Information Systems (2014) Procedia Computer Science 33: 39-46 (2014)

Interoperability
- CRIS and IR

Integration
- CRIS-as-IR
- IR-as-CRIS

Elusive landscape to pin down due to swiftly evolving character, esp w/ widespread arrival of commercial CRISs to the UK in the wake of REF2014



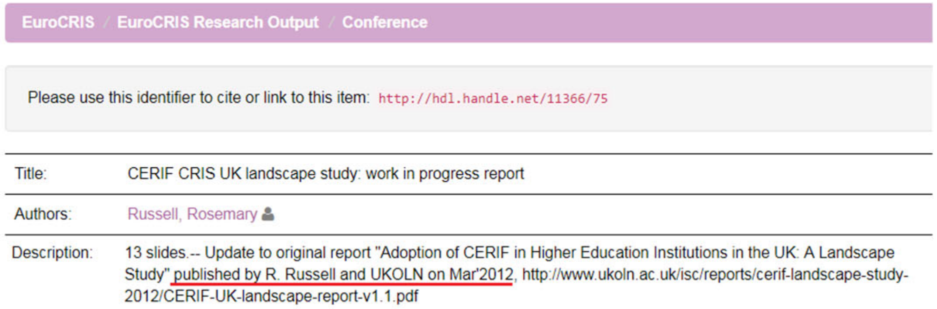
CERIF CRIS use in UK HE

- Lots of CERIF CRIS procurement in last year - some are in early stages of implementation
- Pure (Atira) - 17
  - St Andrews, Aberdeen, York, Royal Holloway, Strathclyde, Hertfordshire, Lancaster, Aston, Institute of Education, London, Dundee, Heriot-Watt, Glasgow Caledonian, King's College London, Edinburgh, University of the Highlands and Islands, Bath, Queen's University Belfast
- CONVERIS (AVEDAS) - 5
  - Cranfield, Hull, Stirling, MRC Oxfordshire Regional Centre, Brighton
- Symplectic Elements (Symplectic)
  - eg Brunel, Imperial, Queen Mary, Leeds…

www.ukoln.ac.uk

A centre of expertise in digital information management

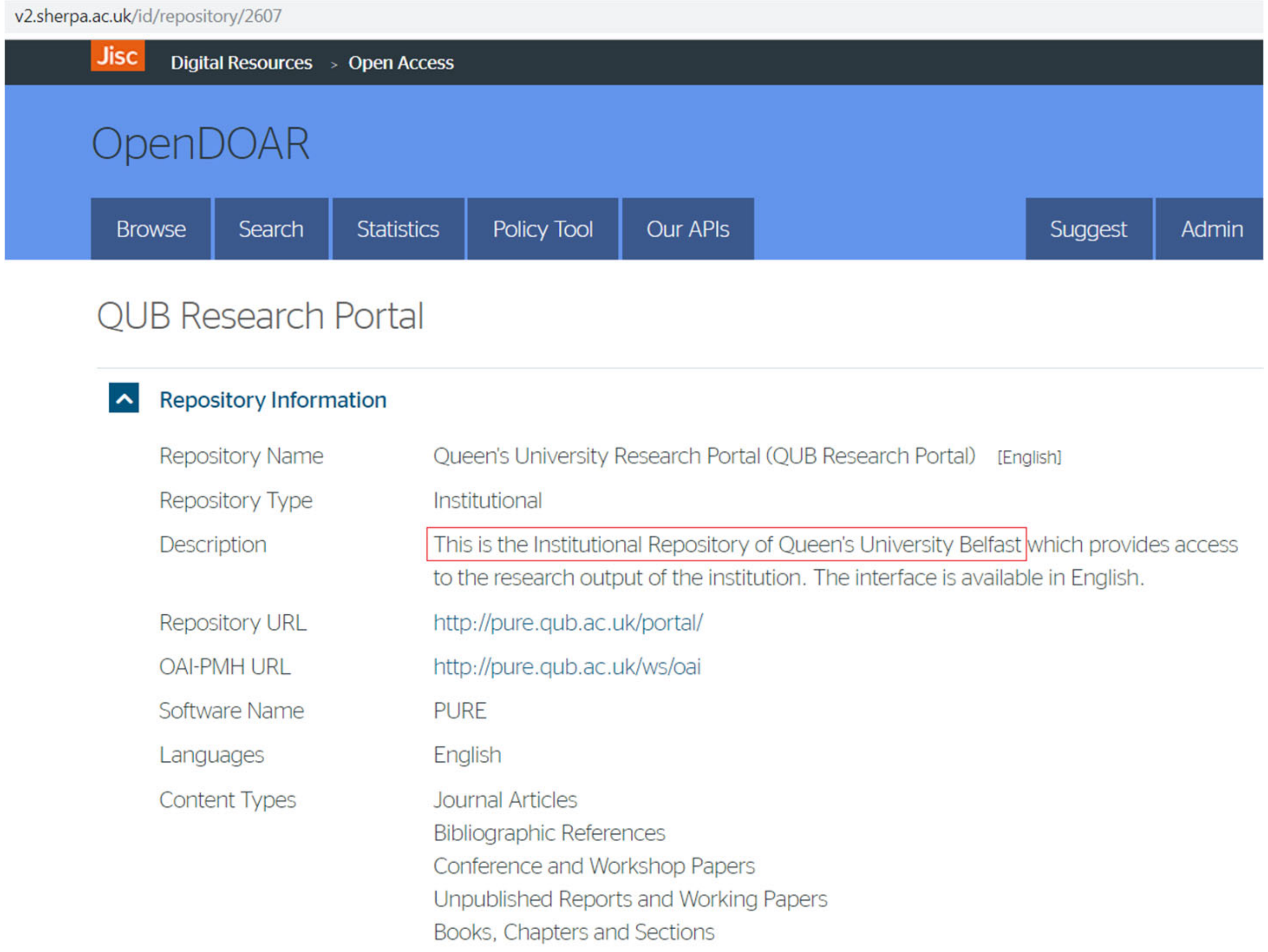
Research assessment exercises identified in the OCLC/euroCRIS survey as *one of the main drivers for CRIS implementation* worldwide



Please use this identifier to cite or link to this item: `http://hdl.handle.net/11366/75`

Title:	CERIF CRIS UK landscape study: work in progress report
Authors:	Russell, Rosemary
Description:	13 slides.-- Update to original report "Adoption of CERIF in Higher Education Institutions in the UK: A Landscape Study" published by R. Russell and UKOLN on Mar'2012, http://www.ukoln.ac.uk/isc/reports/cerif-landscape-study-2012/CERIF-UK-landscape-report-v1.1.pdf

Commercial CRISs start trying to operate as repositories – which they were not originally designed to do


v2.sherpa.ac.uk/id/repository/2607
Jisc
Digital Resources
Open Access
OpenDOAR
Browse
Search
Statistics
Policy Tool
Our APIs
Suggest
Admin

QUB Research Portal

Repository Information

Repository Name	Queen's University Research Portal (QUB Research Portal) [English]
Repository Type	Institutional
Description	This is the Institutional Repository of Queen's University Belfast which provides access to the research output of the institution. The interface is available in English.
Repository URL	http://pure.qub.ac.uk/portal/
OAI-PMH URL	http://pure.qub.ac.uk/ws/oai
Software Name	PURE
Languages	English
Content Types	Journal Articles Bibliographic References Conference and Workshop Papers Unpublished Reports and Working Papers Books, Chapters and Sections

Sense of technologies, workflows and institutional units at odds with each other (while warnings were issued on the 'false dichotomy' between IRs and CRISs, http://www.ukcorr.org/2012/09/26/three-perennial-questions/)

IT'S IMPORTANT TO KEEP COLLECTING UP-TO-DATE SNAPSHOTS OF THIS SWIFTLY EVOLVING LANDSCAPE

OCLC/euroCRIS Survey: Methodology and promotion

Online survey data collection: Oct 2017 – Jan 2018

- English and Spanish versions

Convenience sample

- Report is explanatory and descriptive in nature

Survey promotion through:

- OCLC and euroCRIS communications channels and events worldwide
- Communications by CRIS vendors and user communities
- Listservs, social media, and announcements to research & library organizations

The Surveys

20 Countries 84 Institutions

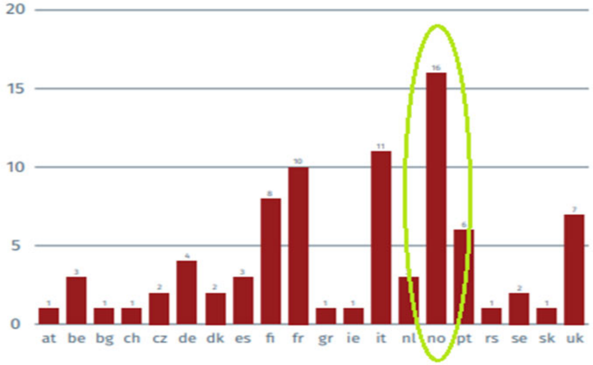
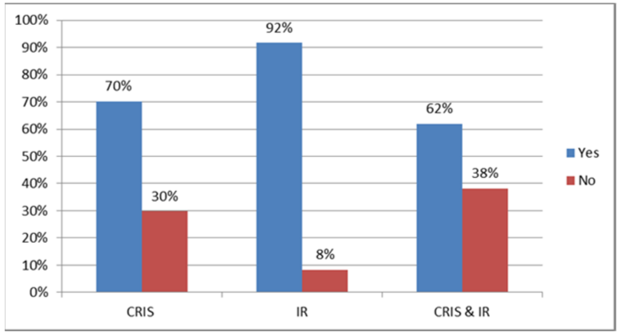


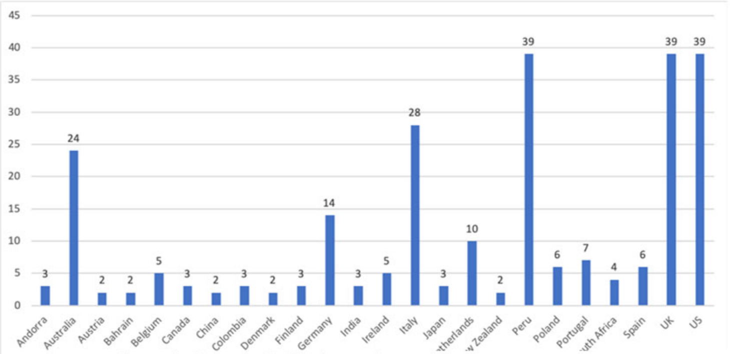
TABLE1: GEOGRAPHIC DISTRIBUTION OF RESPONDENTS



70% with a CRIS

58% with a CRIS

44 countries 381 institutions

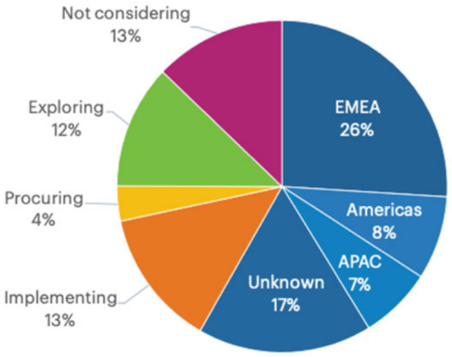


*1 respondent from each of the following countries:
Afghanistan, Albania, Azerbaijan, Barbados, Belize, Brazil, Hungary, Lebanon, Mexico, Namibia, Russia, Saudi Arabia, Slovakia, Sri Lanka, Sweden, Trinidad and Tobago, Turkey, Uganda, United Arab Emirates and Uruguay

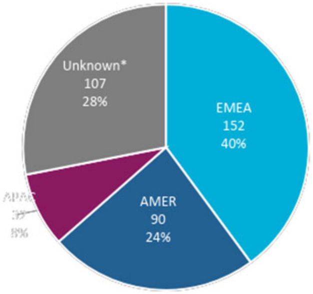
** 107 respondents did not provide a country

Respondents by RIM Status (n=381)

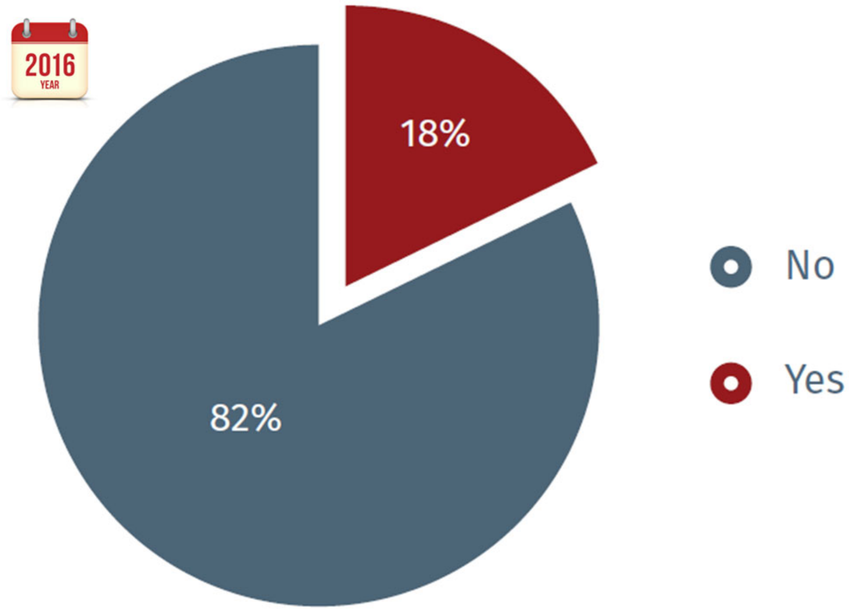
Note: 29 respondents did not provide their RIM system



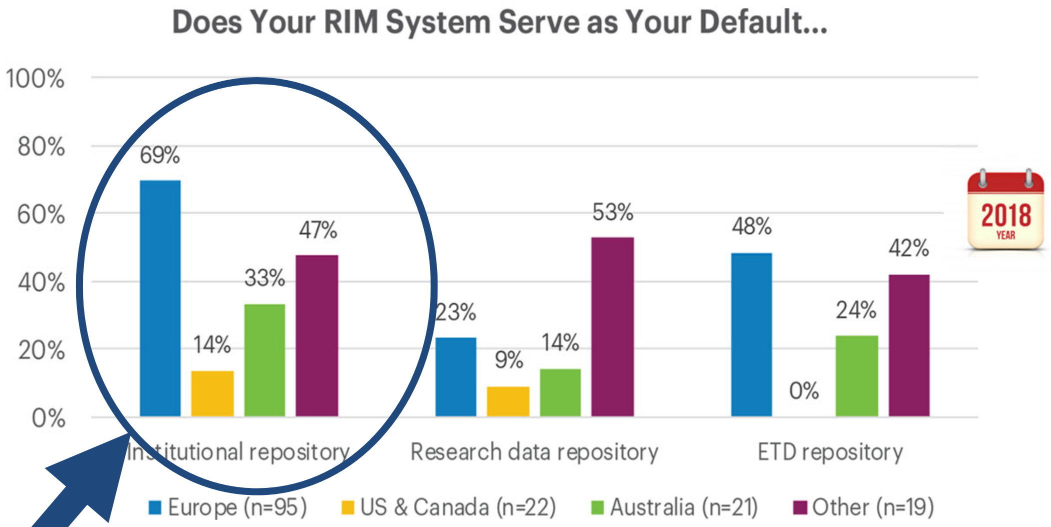
Respondents by Region
(n=381)

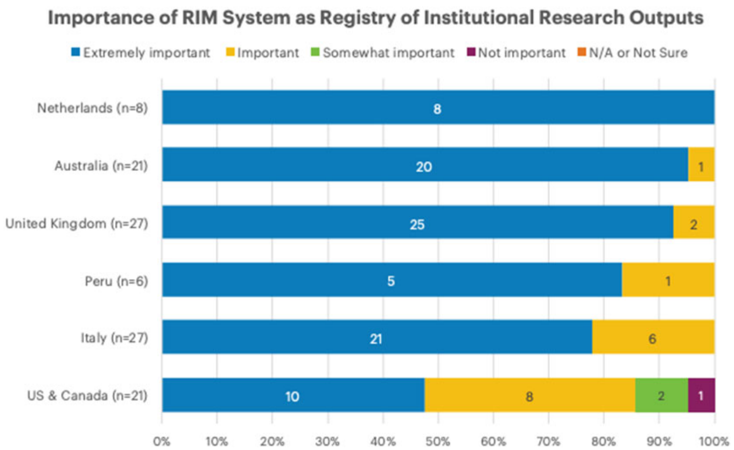


How many systems?



In the 18% of the cases where both CRIS and IR systems are available a single software platform is used for both


Does Your RIM System Serve as Your Default...

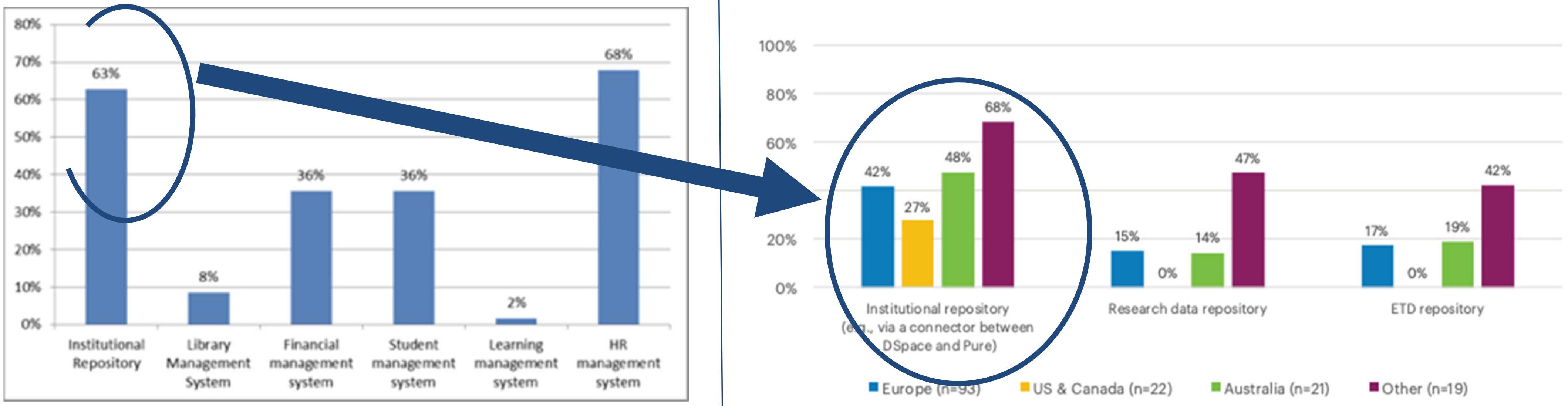

Importance of RIM System as Registry of Institutional Research Outputs

CRIS-IR Interoperability

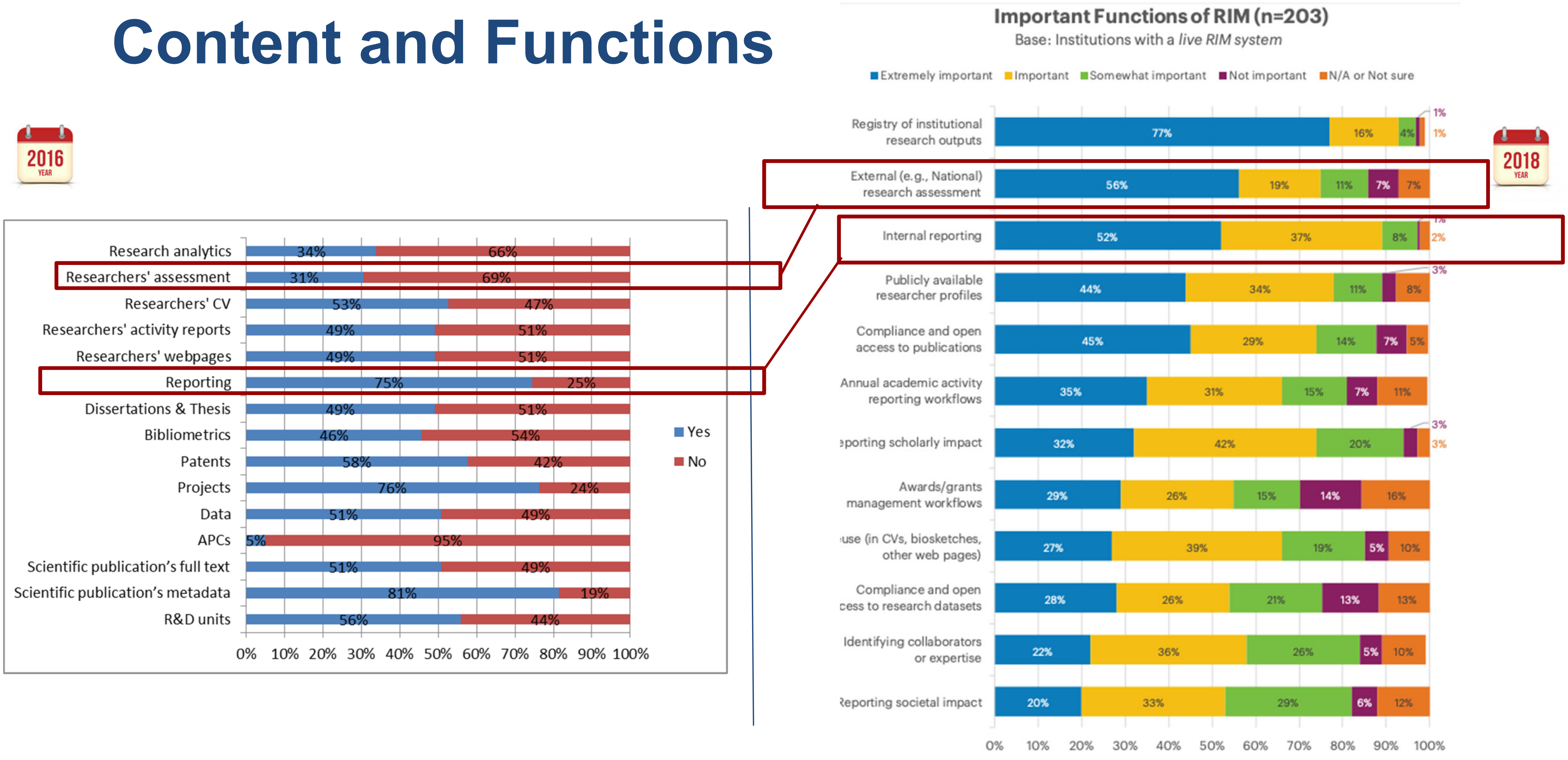
2016 YEAR

2018 YEAR

Which of the following internal systems interoperate with your RIM System(s)?



Content and Functions

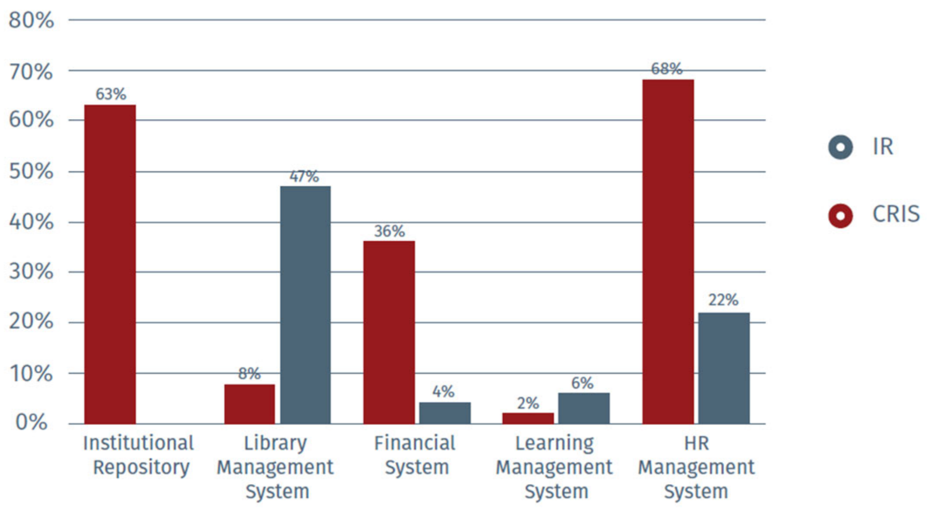


euroCRIS Current Research Information Systems

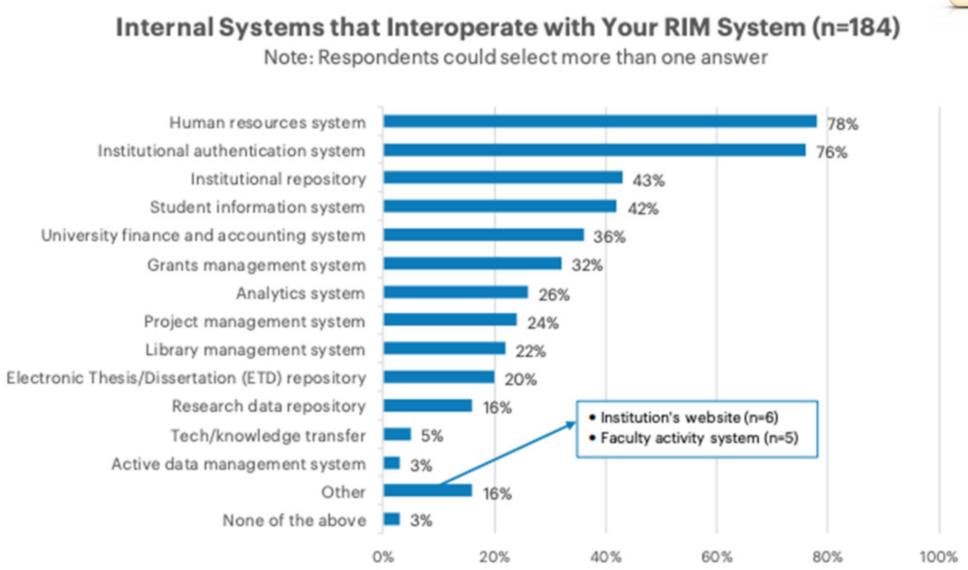
OCLC

Internal Systems Interoperability

2016 YEAR



2018 YEAR



Internal Systems that Interoperate with Your RIM System (n=184)

Note: Respondents could select more than one answer

- Institution's website (n=6)
- Faculty activity system (n=5)

Institutional Repository: 63% → 43%

Library Management System: 8% → 22%

Financial: 36% → 36%

HR: 68% → 78%

euroCRIS Current Research Information Systems

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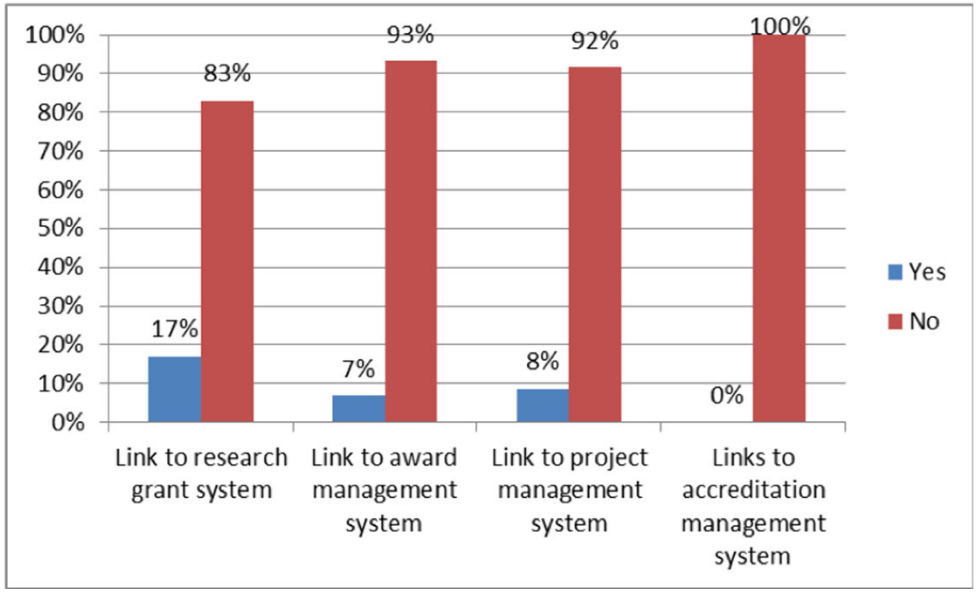
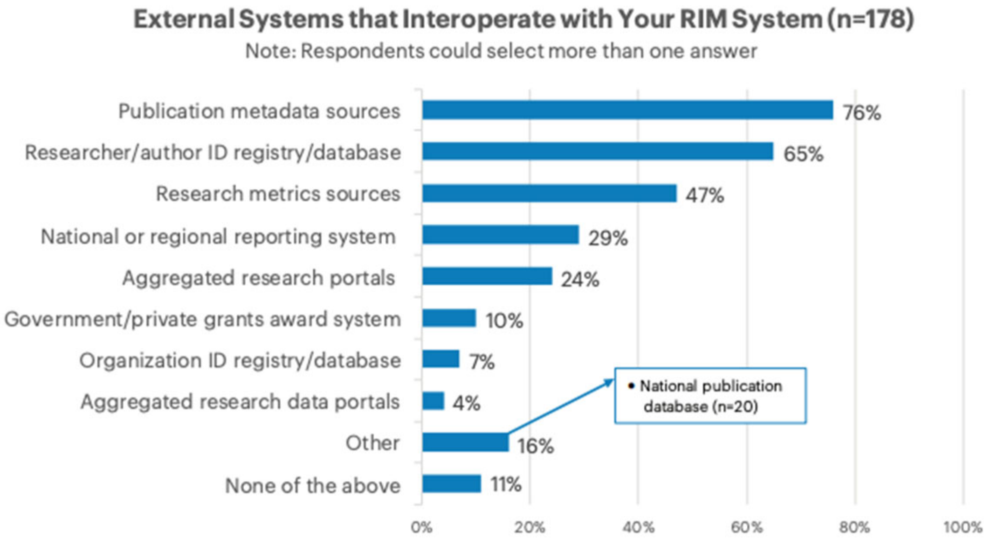
External Systems Interoperability

2016 YEAR

2018 YEAR





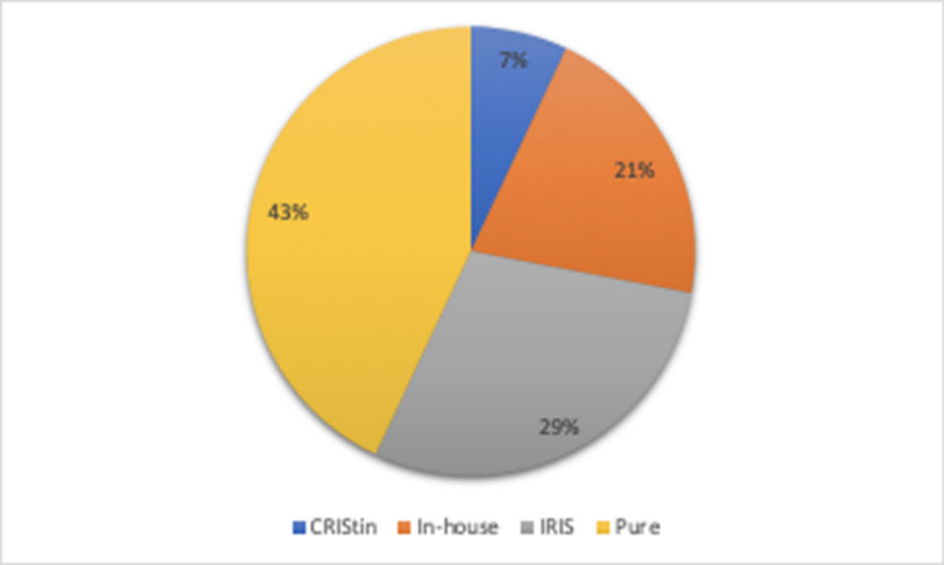
External Systems that Interoperate with Your RIM System (n=178)

Note: Respondents could select more than one answer

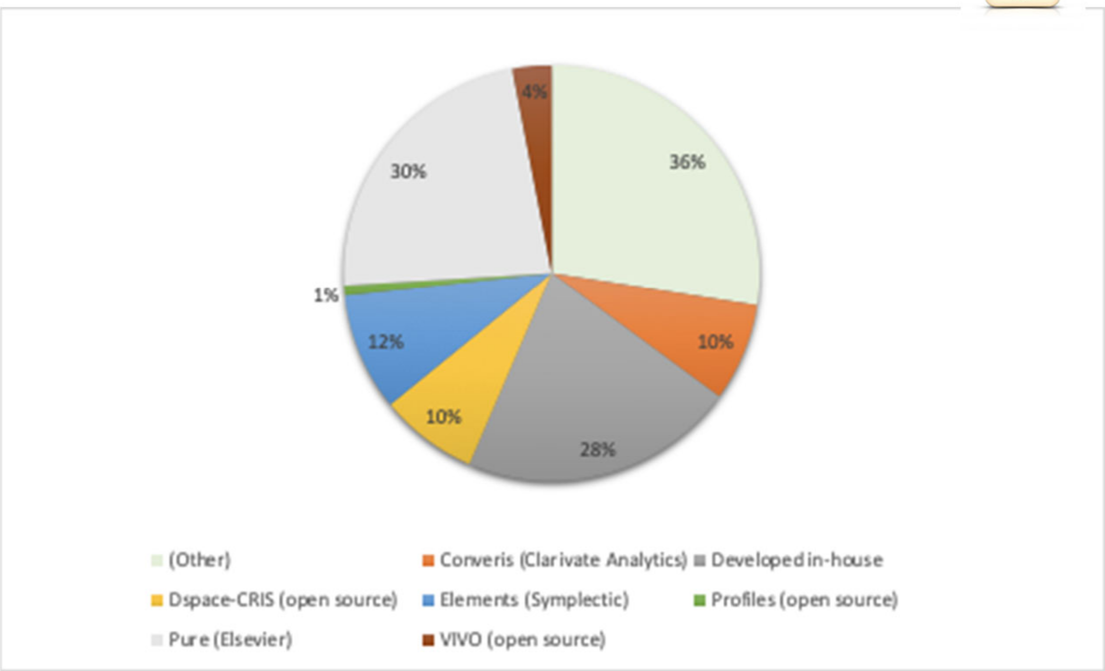
The two surveys tracked different external systems interoperability

Technologies

2016 YEAR



2018 YEAR



Fast forward to June 10th OR19 WS on repo/CRIS interoperability/integration

Attempt to capture an up-to-date snapshot for the evolved repository/CRIS co-existence & merging

- Case study for Haplo-based integration where repo & CRIS are *one and the same (open source) platform*
- Seamless Worktribe/DSpace integrations
- Case study for Pure-based interoperability
- Best practice (integrated) DSpace-CRIS implementation at UnityFVG

More importantly: the **application of integrated/interoperable systems to areas like** Open Science implementation, reporting for research assessment, research data management surpasses the functionality achieved by repository-only or CRIS-only solutions

References

Bryant, Rebecca, Anna Clements, Carol Feltes, David Groenewegen, Simon Huggard, Holly Mercer, Roxanne Missingham, Maliaca Oxnam, Anne Rauh and John Wright. 2017. *Research Information Management: Defining RIM and the Library's Role*. Dublin, OH: OCLC Research. doi:10.25333/C3NK88

Bryant, Rebecca, Annette Dortmund, and Constance Malpas. 2017. *Convenience and Compliance: Case Studies on Persistent Identifiers in European Research Information*. Dublin, Ohio: OCLC Research. doi:10.25333/C32K7M

Bryant, Rebecca, Anna Clements, Pablo de Castro, Joanne Cantrell, Annette Dortmund, Jan Fransen, Peggy Gallagher, and Michele Mennielli. 2018. *Practices and Patterns in Research Information Management: Findings from a Global Survey*. Dublin, OH: OCLC Research. https://doi.org/10.25333/BGFG-D241

Bryant, Rebecca, Anna Clements, Pablo de Castro, Joanne Cantrell, Annette Dortmund, Jan Fransen, Peggy Gallagher, and Michele Mennielli. 2018. *Data Set: Practices and Patterns in Research Information Management: Findings from a Global Survey.* Dublin, OH: OCLC Research. https://doi.org/10.25333/QXR6-D439

Carr, Leslie (2010) EPrints: a hybrid CRIS/repository. *Workshop on CRIS, CERIF and Institutional Repositories, Italy. 10 - 11 May 2010.* 2 pp . https://eprints.soton.ac.uk/271048/

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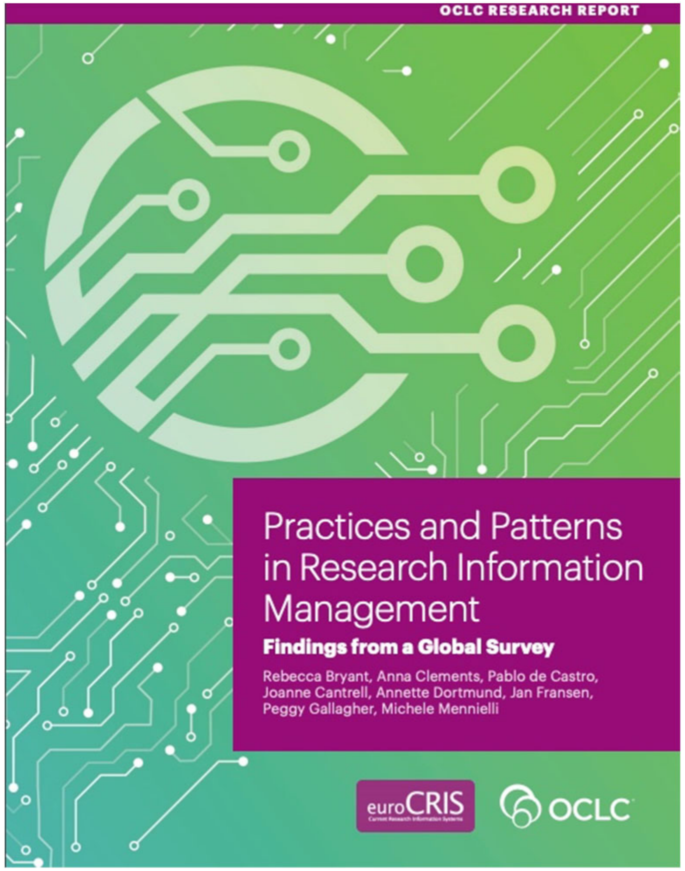
Ribeiro, Lígia, Pablo De Castro, and Michele Mennielli. "EUNIS-EuroCRIS Joint Survey on CRIS and IR," 2016. http://www.eurocris.org/news/cris-ir-survey-report.

Discussion



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