



Opening up the 'treasure chests': the use of Research Information Management Systems for Open Science implementation at research libraries

Speaker's affiliation/recent background

University of Strathclyde in Glasgow

- Established 1796 as “the place for useful learning”
- 21,470 FTE Students and 3,200 staff
- Research: research grants and contracts income of £59,921m in 2016
- Among the 20 top research-intensive universities in the UK

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), Spain

Strathclyde Uni and India

Prosthetics project

Posted on Monday, February 5, 2018

Times News Network



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The department of biomedical engineering, University of Strathclyde, Glasgow, has been working with the Mukti clinic in Chennai since 2011. The Mukti clinic is a charity which helps people who need artificial limbs, who otherwise couldn't afford, to receive them free. "It is thought that there may be around six million amputees in India, many of whom have to rely on clinics like Mukti," said Anthony McGarry, a senior teaching fellow with the department and who was a part of the of the recent visit to the clinic with students.

"Strathclyde faculty and students have worked together with Mukti staff in clinics treating those in need of prosthetic and orthotic rehabilitation for seven years. We have seen many changes and improvements taking place," he added.

Among the improvements, Mukti has established an appointment system, allowing patients to have adequate time to be seen properly. Also, follow-up appointments and note-taking. Projects to redesign knee joints for trans-femoral amputation. Assessment beds to ensure correct facility for functional assessment. The staff conducts seminars to educate local clinicians. The trips are funded by donations from Strathclyde alumni and fundraising by students and staff.



MUKTI GETS A SCOTTISH TOUCH

Mukti abuzz with activity with the arrival of six-member team from the University of Strathclyde and four prosthetic students, accompanied by two Manipal Institute.

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Index for today's talk

- What is Research Information Management (RIM)?
- euroCRIS: an introduction
- Joint OCLC/euroCRIS survey on RIM practices: some findings
- The role of libraries (a case study from the University of Strathclyde):
CRIS-mediated workflows

What is research information management?

BMJ Global Health

Latest content

Archive

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Research

Potential impact of introducing the pneumococcal conjugate vaccine into national immunisation programmes: an economic-epidemiological analysis using data from India

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3. Department of Emergency Medicine, Johns Hopkins University, Baltimore, Maryland, USA
4. Princeton Environmental Institute, Princeton University, Princeton, New Jersey, USA

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Abstract

Pneumococcal pneumonia causes an estimated 105 000 child deaths in India annually. The planned introduction of the serotype-based pneumococcal conjugate vaccine (PCV) is expected to avert child deaths, but the high cost of PCV relative to current



Let's start with a publication –

<http://dx.doi.org/10.1136/bmjgh-2017-000636>

Research information management systems

Research output > Contribution to journal > Article - Pure 5.13.1-1 - Google Chrome

https://pure.strath.ac.uk/admin/editor/dk/atira/pure/api/shared/model/researchoutput/editor/contributiontojournaleditor.xhtml?id=80313386

Id: 80313386

Potential impact of introducing the pneumococcal conjugate vaccine into national

Research output: Contribution to journal > Article

Change template

EDIT

Metadata

Metrics

OVERVIEW

Relations

Fingerprints

Display

HISTORY AND COMMENTS

History and comments

NOTIFICATIONS

Editors responsible for handling this submission: pablo.de-castro@strath..., sarah.scott@strath.ac.uk, l.gilkison@strath.ac.uk, judith.smart@strath.ac.uk, helen.cooper@strath.ac.uk, and 9 others

Peer-reviewed *

☒ Peer-reviewed ☐ Not peer-reviewed

Publication status ⓘ

Publication statuses and dates *

Accepted/In press 6 Apr 2018 Edit —

E-pub ahead of print 9 May 2018 **Current** Edit —

Add publication status and date...

Publication information ⓘ

Original language *

English

Title of the contribution in original language *

Potential impact of introducing the pneumococcal conjugate vaccine into national immunization programmes

Subtitle of the contribution in original language

an economic-epidemiological analysis using data from India

Abstract

Pneumococcal pneumonia causes an estimated 105,000 child deaths in India annually. The planned introduction of the serotype-based pneumococcal conjugate vaccine (PCV) is expected to avert child deaths, but the high cost of PCV relative to current vaccines provided under the Universal Immunization Programme has been a concern. Cost-effectiveness studies from high-income countries are not readily comparable because of differences in the distribution of prevalent serotypes, population, and health systems. We used IndiaSim, an agent-based simulation model representative of the Indian population and health system, to model the dynamics of *Streptococcus pneumoniae*. We estimate that

Last saved: 30/01/19 16:27

Status: Validated Save

Metadata for a journal article is kept in the institutional Research Information Management System (CRIS) for reporting purposes – including plenty of contextual information not usually available

Research information management systems

The screenshot shows a web browser window with the URL <https://pure.strath.ac.uk/admin/editor/dk/atira/pure/api/shared/model/researchoutput/editor/contributiontojournaleditor.xhtml?id=83890318>. The page title is "Conundrum of γ glycine nucleation revisited: to stir or not to stir?". The left sidebar contains navigation links: EDIT (Metadata, Metrics), OVERVIEW (Relations, Fingerprints, Display), HISTORY AND COMMENTS (History and comments), and NOTIFICATIONS (Editors responsible for handling this submission: pablo.de-castro@strath.ac.uk, sarah.scott@strath.ac.uk, l.gilkison@strath.ac.uk, judith.smart@strath.ac.uk, jan.sefcik@strath.ac.uk, and 9 others). The main content area shows the "Relations" section with categories: Research Outputs, Activities, Prizes, Projects (Future Continuous Manufacturing and Advanced Crystallisation Research Hub (CMAC Hub)), Impact, Datasets (Data for: "Conundrum of gamma glycine nucleation revisited: to stir or not to stir"), Facilities/Equipment, and Student thesis. The bottom status bar shows "Last saved: 21/02/19 10:12", "Status: Validated", and a "Save" button.

This may include information on affiliations, funded projects, associated datasets and research facilities

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.

euroCRIS
Current Research Information Systems

The International Organisation for Research Information

Repository
Digital Collections
Research Outputs
People
Organizations
DRIS
Help

EuroCRIS / EuroCRIS Research Output / Conference

Title:

Current Status of Research Information Management in Peru

Authors:

Melgar-Sasieta, Héctor-Andrés
Brossard-Núñez, Ian-Paul
Olivares-Poggi, César-Augusto

Keywords:

research information management
current research information systems
national CRIS
Peru

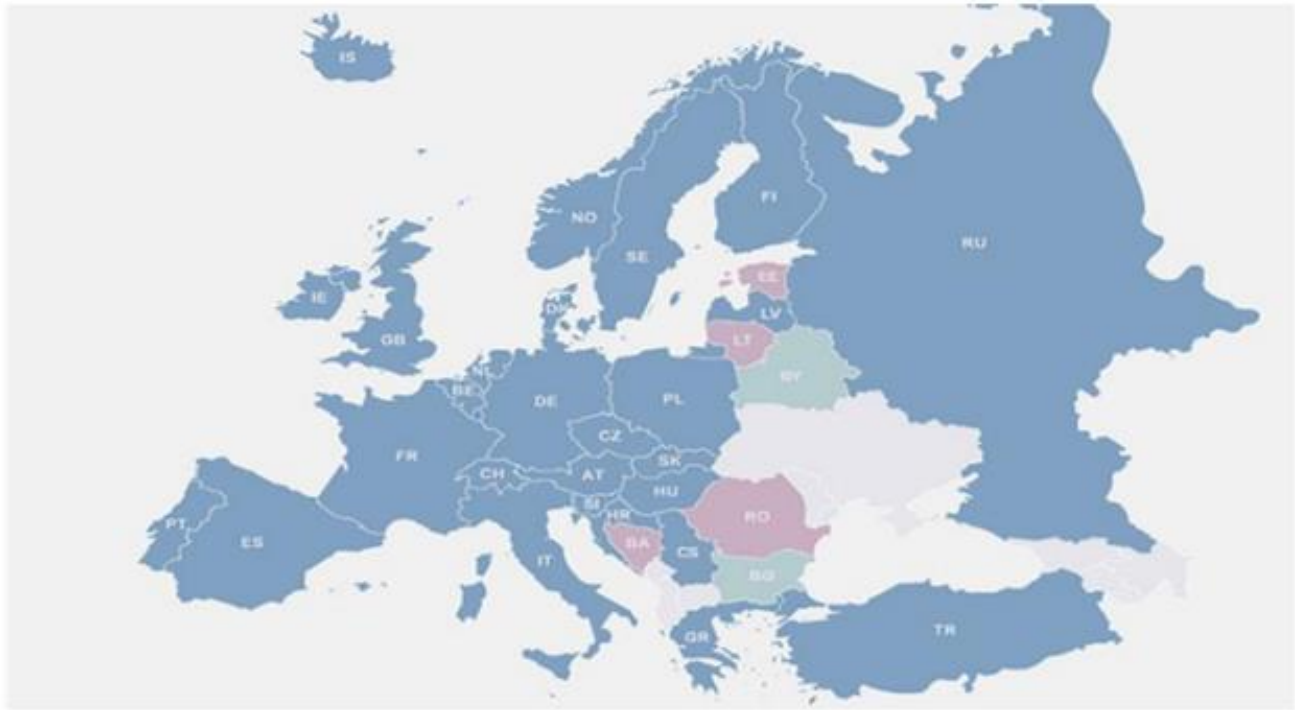
euroCRIS: fostering collaboration

Membership



Mission

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



Members outside Europe:

Australia - Brazil - Canada - China - Colombia - India - Iran - Israel - Malaysia - Nigeria - Pakistan - Peru - South Korea - US

200+ members from 45 countries (mainly Europe)

Number	Name	Institution	Address	Postal Code	City	Country
158	Chennai Information	HL7 India	#50, 2nd Cross, 1st Main, 2nd Stage, Chokkikulamb	560076	Bangalore	India
233	Christ University	Christ university	Hosur Road, Bhavani Nagar	Karnataka 560029	Bangalore	India

euroCRIS: promoting the use of CERIF



Mission

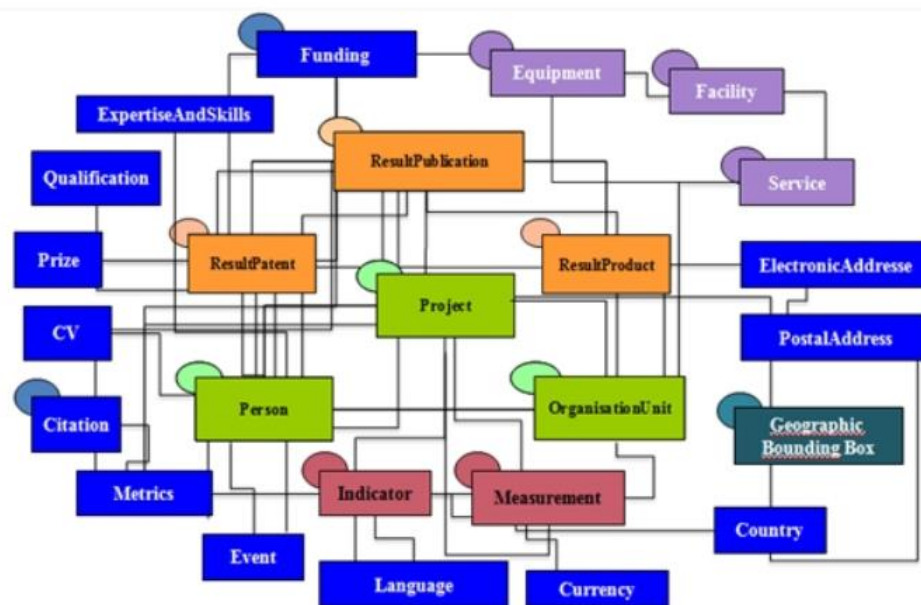
"To promote collaboration within the research information community and advance interoperability through CERIF"



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)



euroCRIS: mapping the RIM landscape



CRIS/IR Survey report

1 Mar 2016

No comment

Johan Bergström

article, CRIS, erai, Featured, 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.

euroCRIS: mapping the RIM landscape



Survey on Research Information Management Practices



OCLC Research and [euroCRIS](#) have been working [collaboratively](#) on an international Survey on Research Information Management Practices.

Survey goals

This survey will help us understand and report on the state of RIM activities worldwide, and it seeks answers to the following questions:

- Why have institutions adopted--or are considering adopting--RIM infrastructures?
- What are the principal drivers?
- How are institutions using RIM functionality? What are the principal uses?
- Who are institutional stakeholders, and what, in particular, is the role of libraries?
- What processes and systems are in use? How do they interoperate with internal and external systems? What is the scope?
- What are regional and international differences in drivers, uses, and processes?

When will the results be published?

- The survey is now closed and survey results will be published in 2018 as an OCLC Research report and made openly available to the community.
- Survey data will be published CC-BY.

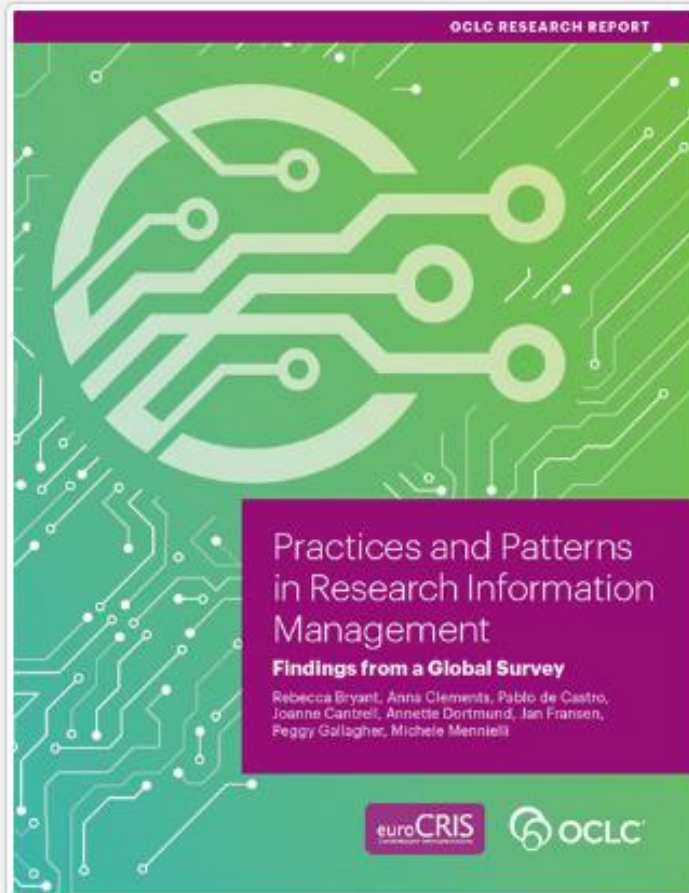
OCLC/euroCRIS RIM Survey 2018

- Online survey data collection: Oct 2017 – Jan 2018
- Survey promotion through:
 - OCLC and euroCRIS communications channels and events worldwide
 - Communications by CRIS vendors and user communities

380+ responses

- Results summarised in a report “Practices and Patterns in Research Information Management: Findings from a Global Survey”
 - Plus presented at events worldwide

RIM survey report



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

Rebecca Bryant
OCLC Research

Anna Clements
University of St Andrews and euroCRIS

Pablo de Castro
University of Strathclyde and euroCRIS

Joanne Cantrell
OCLC

Annette Dortmund
OCLC

Jan Fransen
University of Minnesota, Twin Cities

Peggy Gallagher
OCLC

Michele Mennielli
DuraSpace and euroCRIS

RIM survey report

Survey goals and scope

In our survey, we explored some key areas of interest, each with regional distinctions, where applicable and possible, including:

- the status of RIM system implementations, proprietary and open source solutions in use, and levels of satisfaction with systems
- the incentives for pursuing RIM and important functions of RIM
- the use of RIM systems as a scholarly communications repository
- the roles of institutional stakeholders, including the library
- the growing importance of interoperability and integration with internal and external systems, and the adoption of persistent identifiers, standards, and vocabularies

OCLC Research and euroCRIS plan to repeat this survey in future years, developing longitudinal data and knowledge about evolving practices in order to inform the research community about the changing goals, purposes, and scope of RIM practices. The survey dataset is published and available CC-BY as a companion to this report.¹⁵

RIM survey findings: Geographies

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.

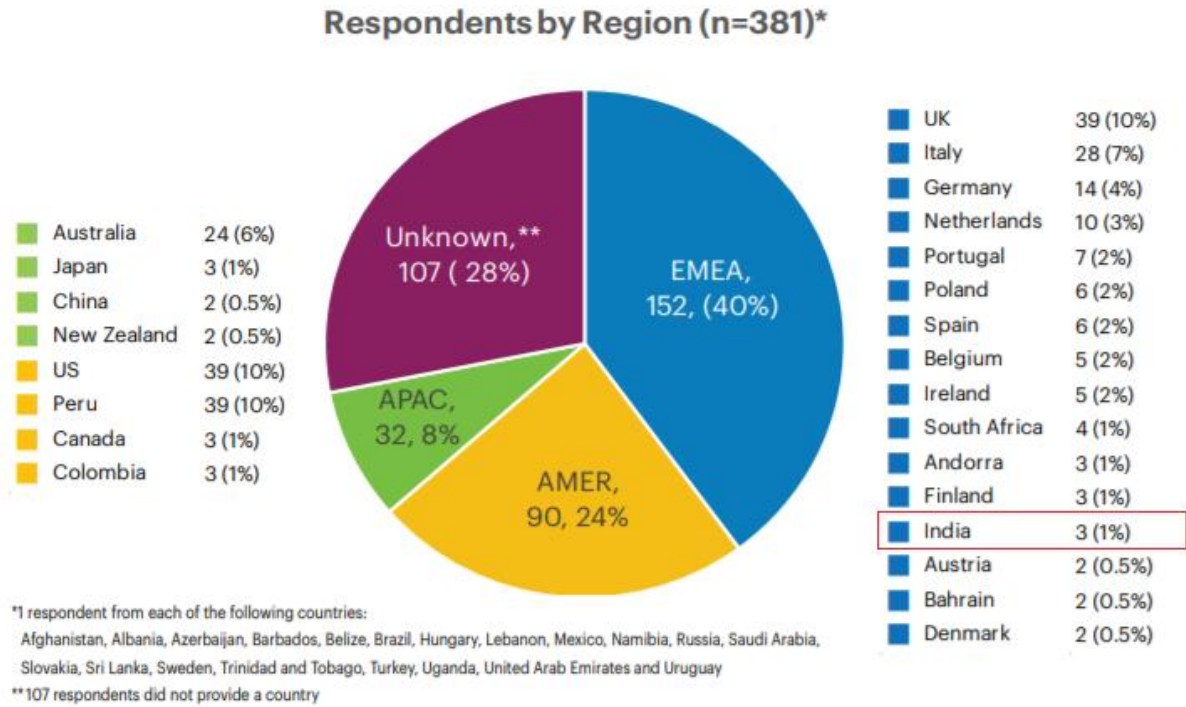


FIGURE 1. Total number of survey respondents, by broad region. EMEA = Europe, Middle East, Africa; AMER = Americas; APAC = Asia-Pacific.

(Broad) RIM Landscape in India

			All respondents										
			What are your current areas of responsibility?*										
		Please choose the status that best describes your institution's research information management (RIM) implementation stage.								S4Q2 What is your primary level of responsibility?	S4Q1 Other	S4Q3 Country	Region
NewID	ID		S4Q1 Areas_a	S4Q1 Areas_b	S4Q1 Areas_c	S4Q1 Areas_d	S4Q1 Areas_e	S4Q1 Areas_f	S4Q1 Other.				
Eng342	342	Implementing	Library							Librarian		Poland	EMEA
Eng345	345	Implementing	Research administration IT/Systems							Administrator (Provost/Chancellor)		India	EMEA
Eng348	348	Implementing	Library							Librarian		India	EMEA
Eng346	346	Not considering	Library							Librarian		India	EMEA
Eng352	352	Not considering	Library IT/Systems							Manager/Coordinator		United Kingdom	EMEA

- Indian RIM landscape very poorly captured in the survey snapshot
- There will be further survey iterations in order to explore identified trends in RIM evolution
- Joining the euroCRIS DRIS (Directory of Research Information Systems) can be considered in the meantime

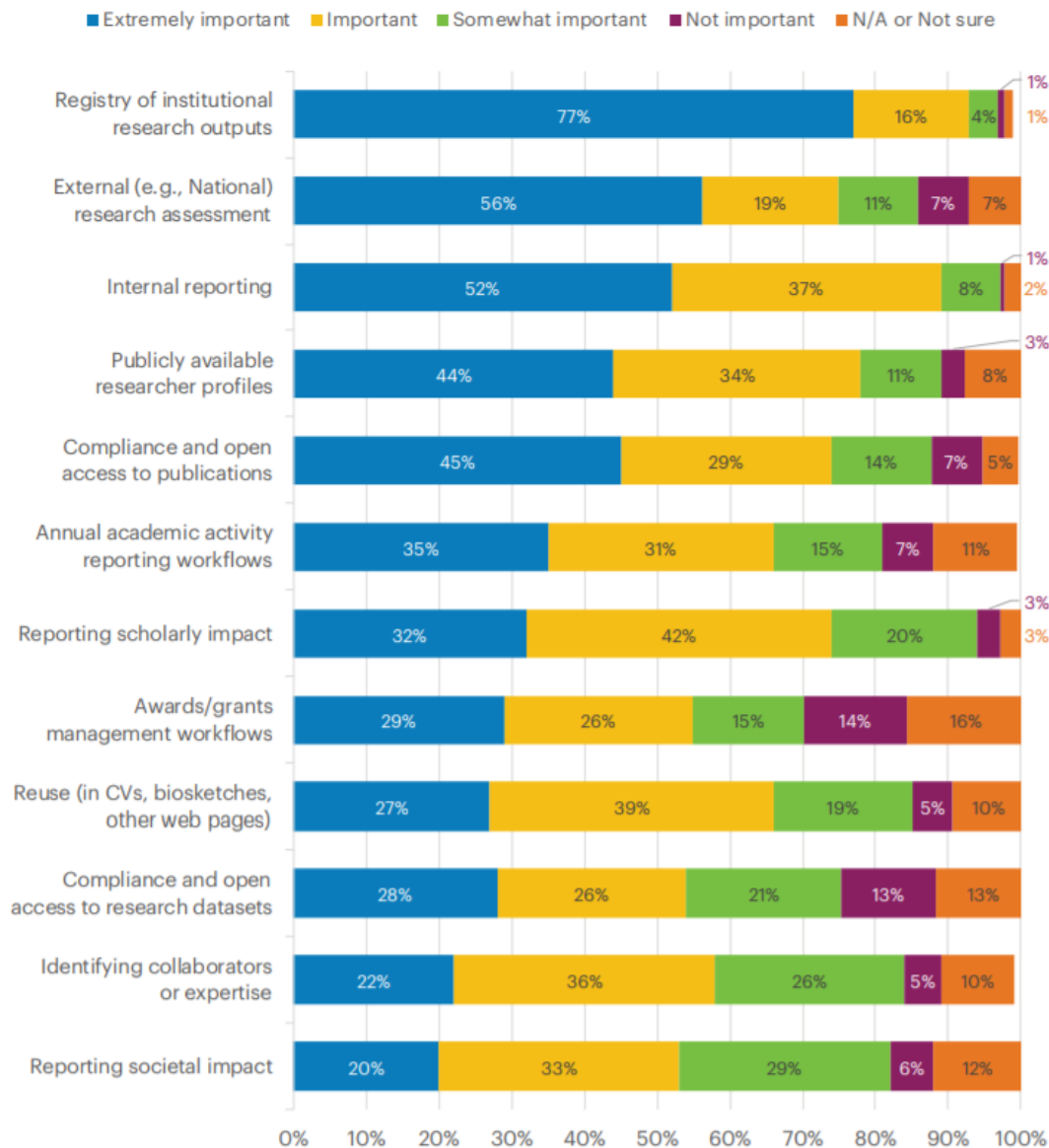
RIM survey findings: drivers for RIM adoption

Importance of Reasons for Pursuing RIM Activities (n=222)



Important Functions of RIM (n=203)

Base: Institutions with a *live* RIM system



RIM survey findings: role of libraries

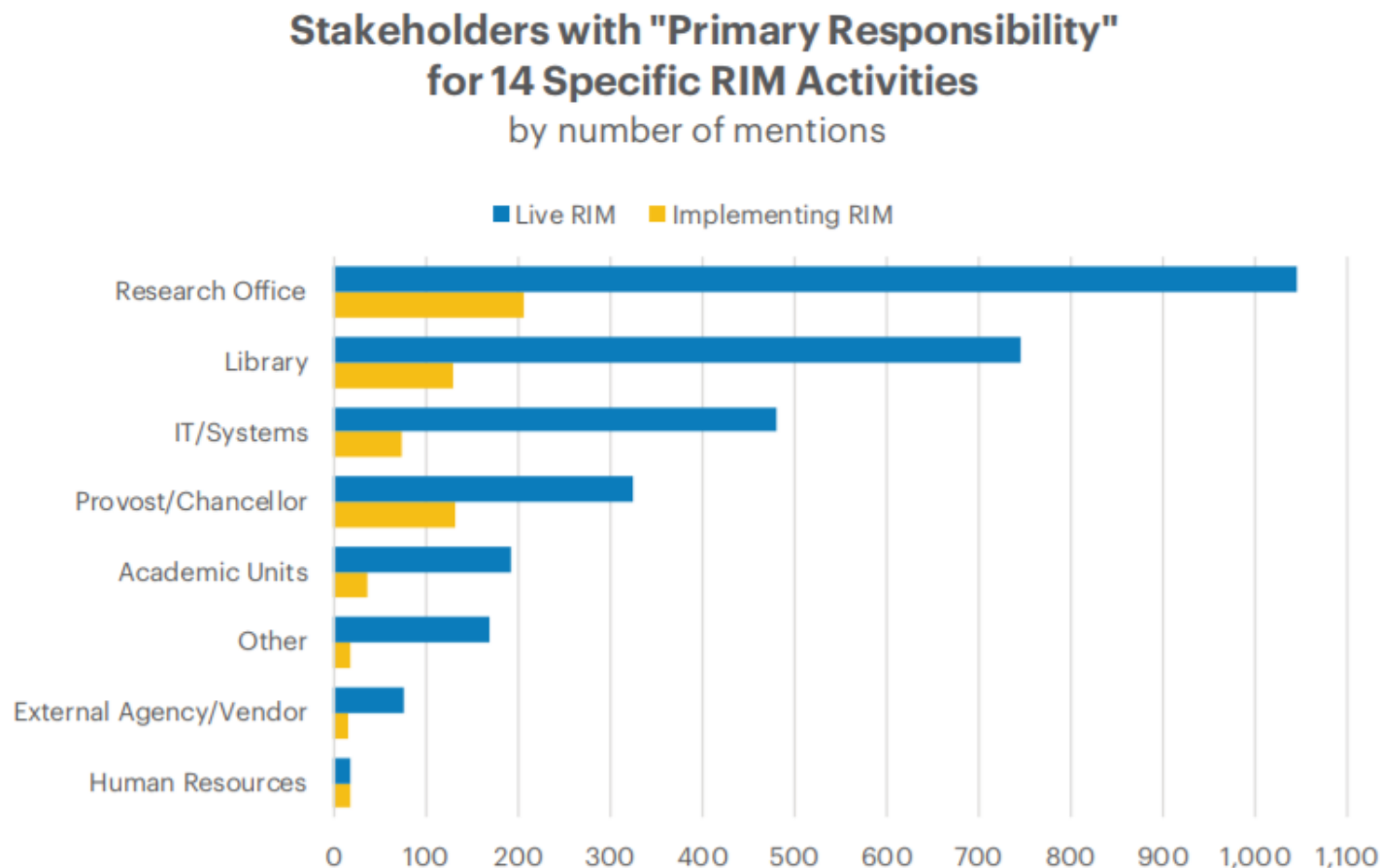
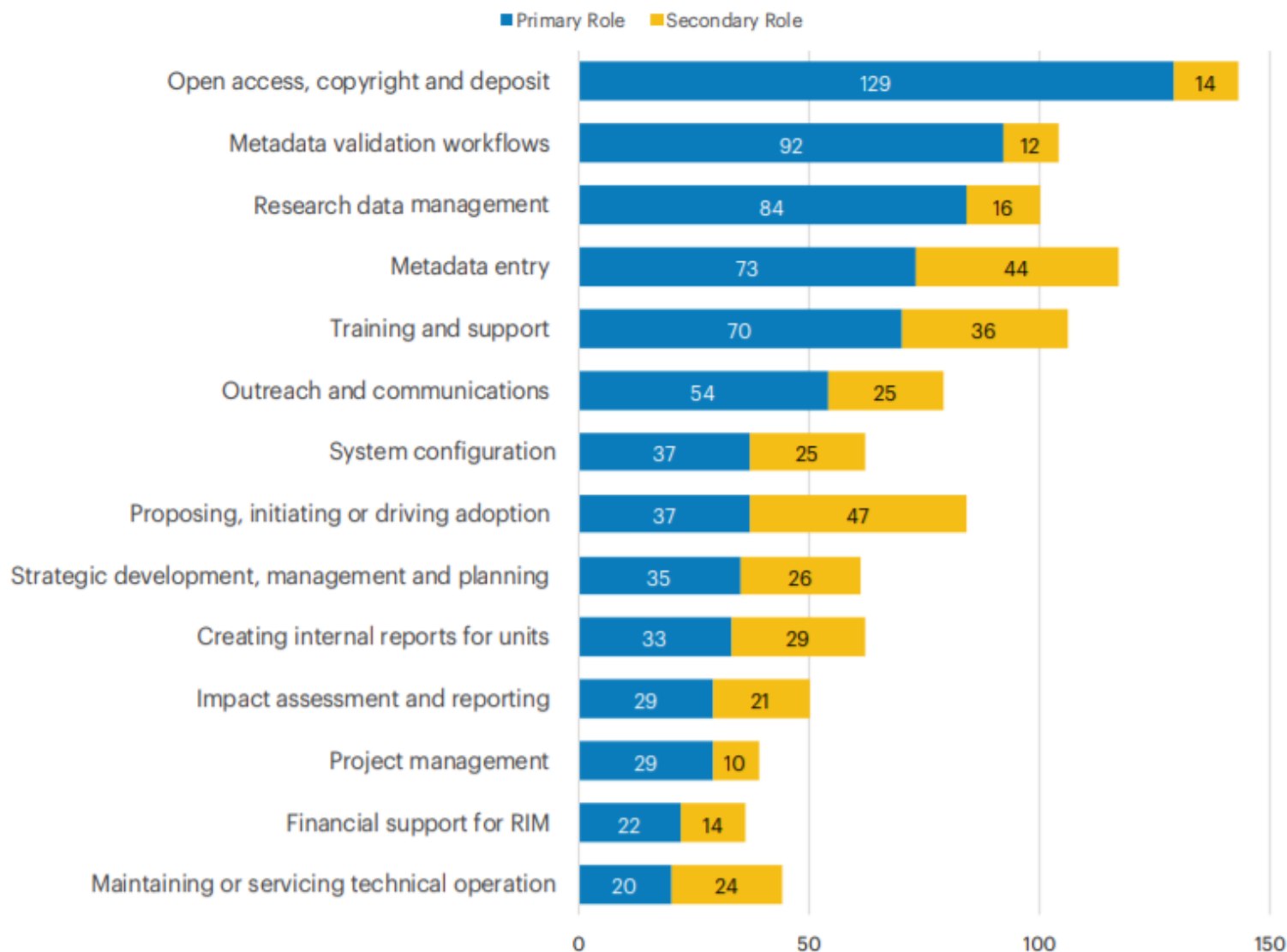


FIGURE 30. Primary stakeholders based on total number of mentions across all responses for all areas of activity, in aggregate. Note that multiple primary stakeholders could be selected per area of activity.

RIM Activities for which the Library Plays a Role (n=172)



The Role of Current Research Information Systems (CRIS) in Supporting Open Science Implementation: the Case of Strathclyde

Pablo de Castro



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



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Open Access



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Research Data Management



Funding Gold Open Access



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REF Measurement



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Trajectory of #university
#dropout : investigating
the cumulative effect of
#academic #vulnerability
& proximity to #family
support
strathprints.strath.ac.uk/6
6982/ #education
#students #openaccess
@emsosu @HaSSPEI



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UK Open Access policy (Strathclyde)

Research funder	OA flavour	Brief policy description
Higher Education Funding Council for England (HEFCE)	Green	In operation since 01/04/2016 (implemented since 2014 at Strathclyde). Mandatory deposit of full-text accepted author manuscript no longer than three months since manuscript acceptance. Linked to the UK Research Excellence Framework (REF2021)
Research Councils UK (UK Research and Innovation since 01/04/2018)	Green & Gold	Mandatory OA availability of funded outputs via either the Green or the Gold OA routes. Block grants delivered to research-intensive HEIs to fund Open Access fees for eligible publications (those that acknowledge RCUK-funded projects)
Charity Open Access Fund (COAF): coalition of UK charities led by the Wellcome Trust	Green & Gold	Mandatory OA availability of funded outputs via either the Green or the Gold OA routes. Block grants delivered to research-intensive HEIs to fund Open Access fees for eligible publications (those that acknowledge RCUK-funded projects). Green OA publications need to be deposited in EuropePMC
European Commission – FP7 programme	Green & Gold	Mandatory deposit of full-text accepted author manuscript for projects under Clause 39. Gold Open Access funding available for finished FP7 projects under the OpenAIRE FP7 Post-Grant OA Pilot
European Commission – H2020 programme	Green & Gold	Mandatory deposit of full-text accepted author manuscript for all H2020 projects (plus associated datasets). Gold Open Access funding may be claimed from project grant

Table 1.— Main Open Access policies by research funders at the University of Strathclyde

Snapshot on funding sources at Strathclyde

Editorial overview

Research outputs

Activities

Prizes

Applications

Awards

Projects

Reportable 15364

Editable 0

My projects 0

Impacts

Datasets

Student theses

Facilities/Equipment

Curricula Vitae

Report definitions

UKIERI

+

×

My content

→

7 results

Sort by:

▶ UKIERI Big data for sustainable cities – Developing Proof of Concept for Leveraging Big Data Analytics for Sustainable Smart Cities

Bellingham, R. & Higham, D.

UK India Education and Research Initiative UKIERI

Project: Research

▶ UKIERI Compact THz source for Human Health and Diagnostics

Cross, A. & Phelps, A.

UK India Education and Research Initiative UKIERI

Project: Research

▶ UKIERI Research Award 2008 – Ultrafine grained Ti-6Al-4V for low temperature / high strain rate superplastic forming of aerospace components

Rosochowski, A. & Rosochowska, M.

UK-India Education and Research Initiative UKIERI

Project: Research

▶ An advanced integrated process for the treatment of sewage plant effluent using bio-based antimicrobial metal biosorbents and photocatalytic materials

Lau, K. H. A. & Ivaturi, A.

UK India Education and Research Initiative UKIERI

1/04/18 → 31/03/20

Project: Research

▶ Leveraging Knowledge Networks for Enabling Innovations in Higher Education and Research Institutes in India and UK

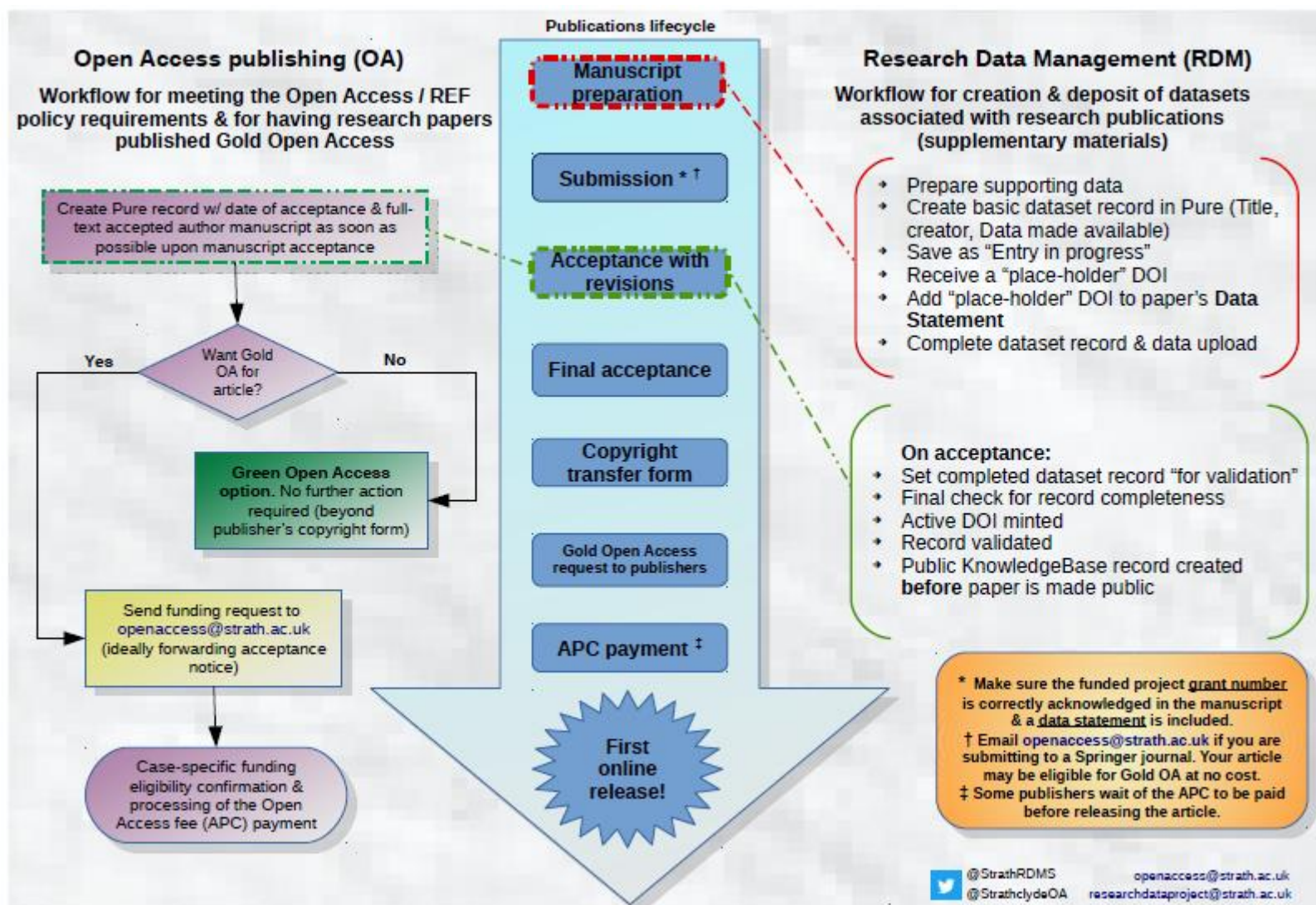
Whalley, J.

UK India Education and Research Initiative UKIERI

1/03/12 → 30/06/13

Project: Research

UK Open Access policy implementation



Some areas where the Strathclyde Research Library plays a relevant role

- Scholarly Communications
 - Open Access implementation
 - Research Data Management
- Monitoring compliance with Open Science policies
- Providing advice on evolution of publishing landscape (Plan S, subscriptions)
- Training (researchers, PhD students)
- Institutional publishing
- Assessing impact via alternative metrics



Robert Kiley
@robertkiley

Follow

Big news. India joins cOAlition S [#Plan_S](#). This is great news -- and demonstrates the growing global support for [#openaccess](#) and [#Plan_S](#)



Principal Scientific Adviser, Govt. of India @PrinSciAdvGoI
1/2 India joining cOAlition S: Journal subscriptions, publishing charges block access to publicly funded knowledge. Access, dissemination, use of knowledge should be free; allowing all to build on research funded by the Indian government, other...

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Snapshot on collaborations with Industry

Pure University of Strathclyde (v5.13.1-1)

Editor Master data REF2021 Dashboard

Editorial overview
Research outputs
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Awards
Projects
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Editable
My projects
Impacts
Datasets
Student theses
Facilities/Equipment
Curricula Vitae
Report definitions

Reporting

GSK

41 results Sort by:

- ▶ **IMPLEMENTING PAT FOR SUCCESSFUL DEVELOPMENT OF BIOPHARMACEUTICALS IN THE UK**
McNeil, B. & Harvey, L.
DTI
11/08/06 – 31/08/09
- ▶ **GlaxoSmithKline MChem Project Initiative**
Watson, A. & Redmond, J.
1/10/11 – ...
Project: Non-funded project
- ▶ **GSK Secondment**
Littlejohn, D.
GlaxoSmithKline Research & Development Ltd
1/11/11 – 31/10/12
Project: Research
- ▶ **CMAC : Manufacturing Operations and Supply Chain Management Challenges in Continuous Manufacturing**
Bititci, U., Ates, A. & Talati, R.
1/01/12 – 31/03/13
Project: Research
- ▶ **GSK Industry PhD Program (Attracting and Developing New Chemistry Talent in the UK) / S115664-102**
Percy, J.
Glaxo Smithkline (UK)
1/07/12 – 31/03/24
Project: Research Studentship – Internally Allocated > Research Studentship (Internally Allocated)

REPORT : First Indian delegation at the congress of the International Network of Research Management Societies (INORMS 2018)

29 Jul 2018

<https://www.indiaalliance.org/news/246>



By Dr. **Savita Ayyar**, Research Management Consultant, Jaquaranda Tree

*Lead, **India Research Management Initiative (IRMI)***

Seven Indian research managers from Delhi, Pune, Hyderabad, Vellore and Bangalore packed their bags and boarded long-haul flights on June 2, heading out to an international conference of research managers and administrators. Amidst a flurry of WhatsApp messages, the small Indian group finally met in Edinburgh, all set for INORMS 2018.

The 2018 edition of the biennial congress of the **International Network of Research Management Societies (INORMS 2018)** was hosted by the **Association of Research Managers and Administrators UK (ARMA)**, and was attended by nearly 1100 delegates from 45 countries. For the team from India, this was a special occasion: the first opportunity for research managers from diverse Indian research institutions to come together as a country-wide team and to connect with and learn from research managers from across the world.

Research management is essential for the optimal delivery of research output at institutions and includes activities such as support with identifying funding opportunities, facilitating grant funding, managing awarded programs, public engagement, research impact analysis, ethics and others. Research management

India Research Management Initiative (IRMI)

02 Feb 2018

The India Alliance is pleased to launch the

India Research Management Initiative (IRMI)

Strengthening research ecosystems in India

The Wellcome Trust/ DBT India Alliance announces the launch of IRMI, a new Research Management programme for India, which aims to strengthen institutional ecosystems.

IRMI, or India Research Management Initiative, will provide a mechanism for enabling research management at institutions in India. Effective research management helps institutions navigate the high demands for funding, outreach and governance of research. It spans activities that support research, such as national and international funding opportunities, science communication, policy and regulatory matters and intellectual property.

<https://www.indiaalliance.org/news/203>

Take-home message: things are moving in this area
and there's a role for research libraries to play in it!



Thanks!

Questions?