

VII Ogólnopolskie Seminarium użytkowników Uczelnianych Baz Wiedzy

8-10.12 — seminarium ogólne



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Roles and Competencies of CRIS Managers

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Index for today's talk

- Introduction: CRIS systems
- The Directory of Research Information Systems (DRIS)
- The CRIS Manager role as a coordination role across units
- What is CRIS Management? The associated tasks
- Some key areas of expertise
- CRIS management and research administration: adjacent but different fields
- Where can training be achieved for CRIS management?

So what is a CRIS?

en.wikipedia.org/wiki/Current_research_information_system

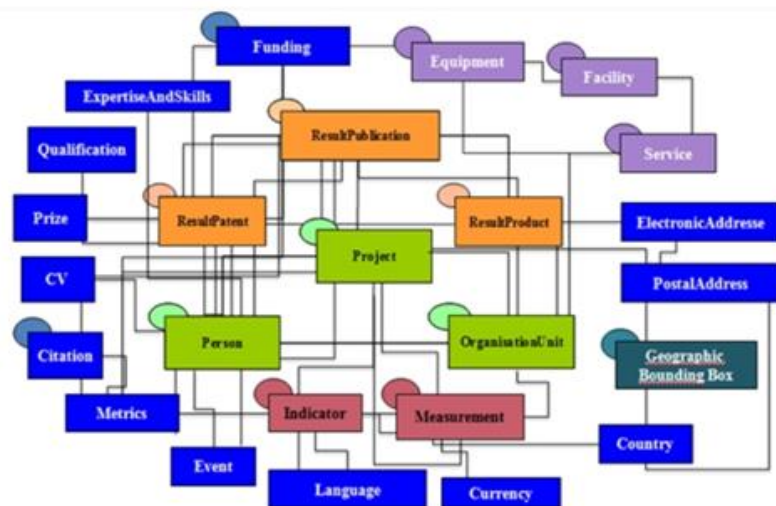


Current research information system

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]}



Features [\[edit \]](#)

The data model underpinning a CRIS relies on a set of basic entities as defined by the Common European Research Information Format (CERIF [\[4\]](#)) 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.

Glossary

- RIM = Research Information Management
- CRIS = Current Research Information System



of current interest or relevance

euroCRIS (www.eurocris.org):

A not-for-profit association

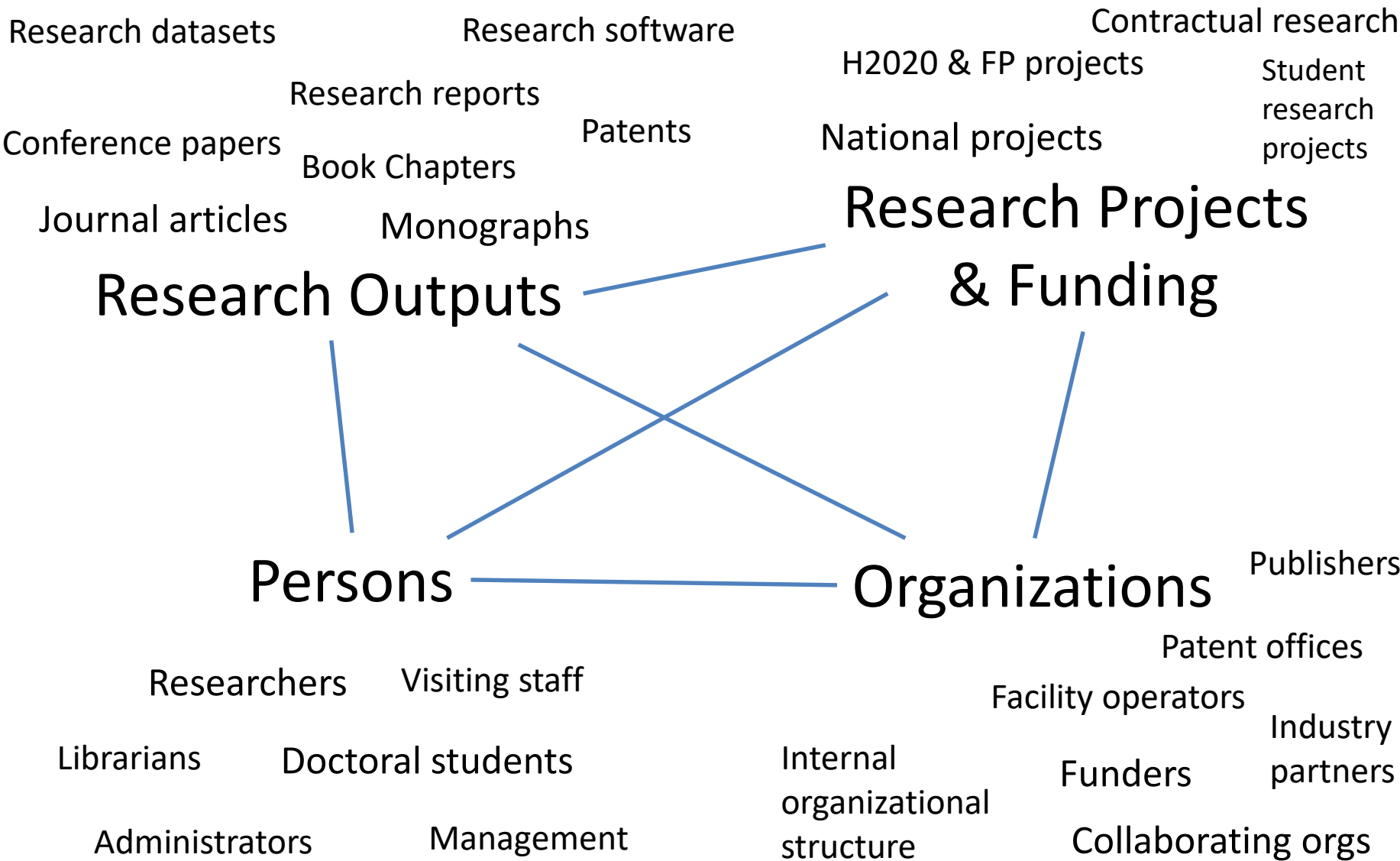
of RIM professionals and CRIS experts.

175 institutional members, ≥340 total

Directory of Research Information Systems (DRIS)

Est. 2002

Current Research Information System

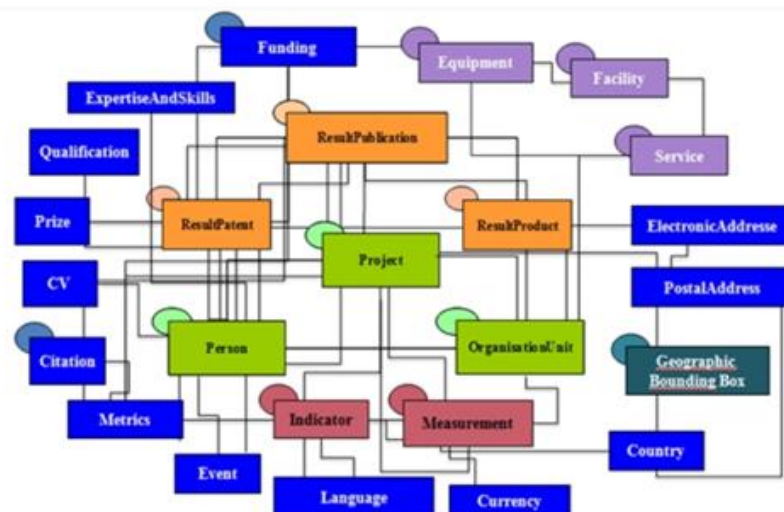


Common European Research Information Format (CERIF)

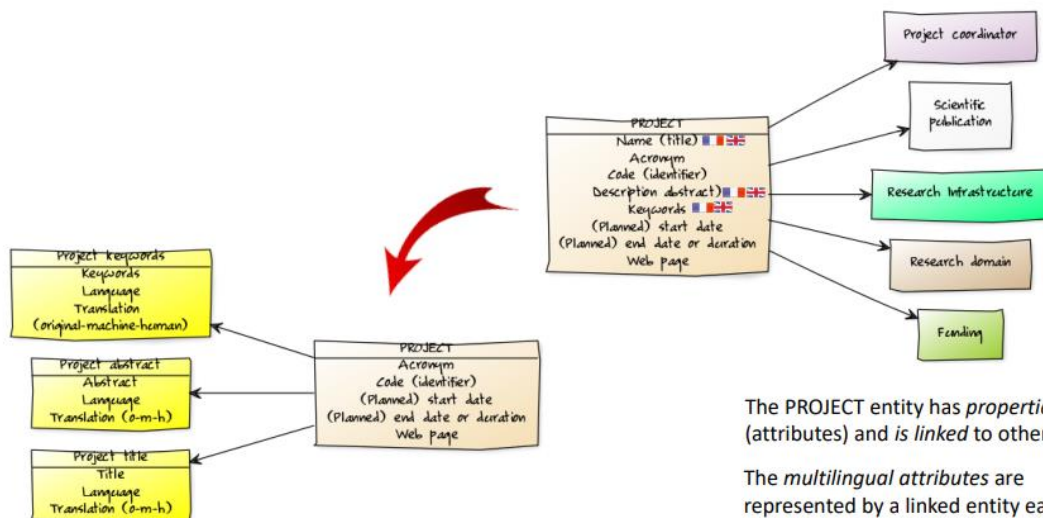
Main features of CERIF

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)



Metadata for a Research Project

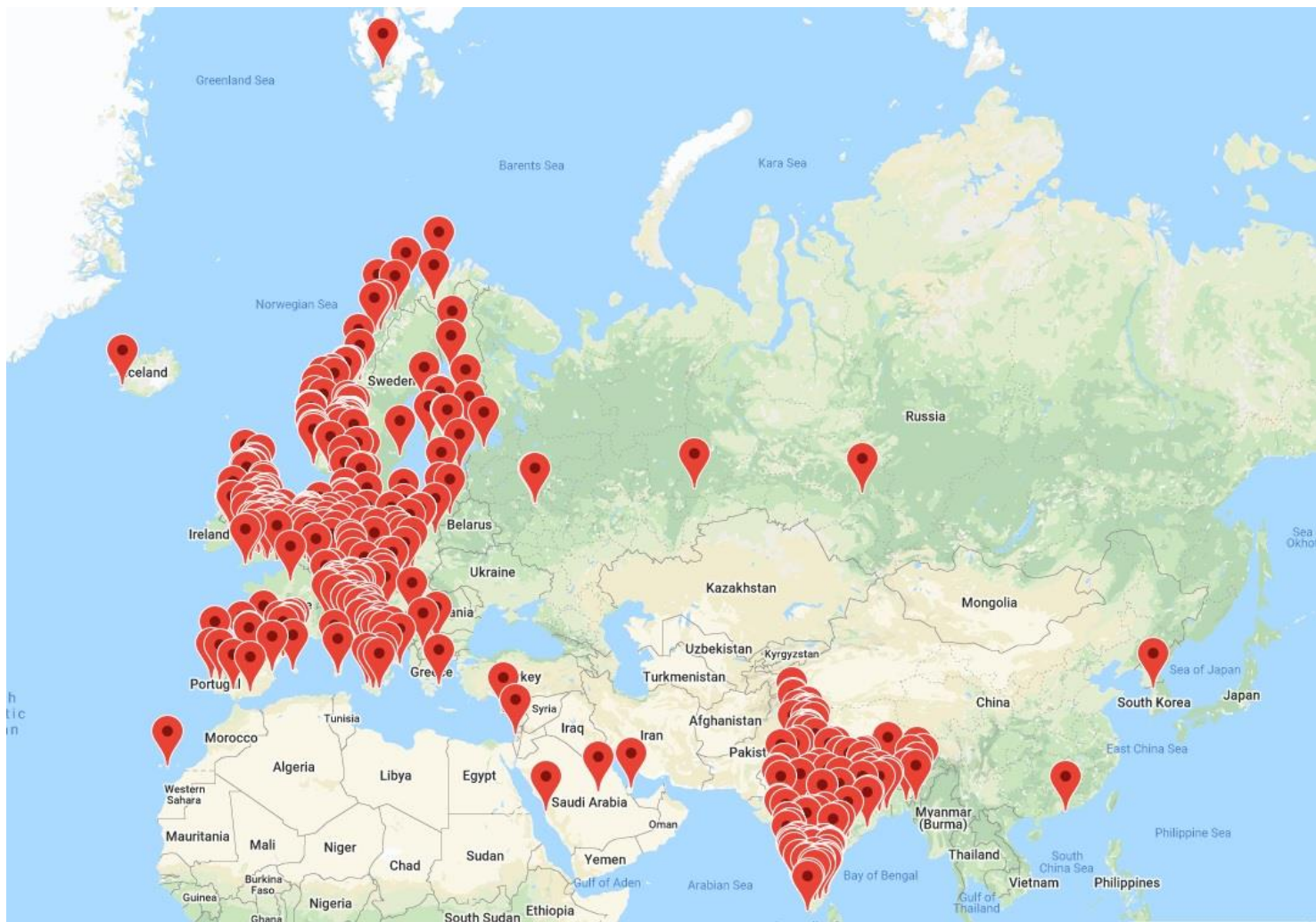


The PROJECT entity has *properties* (attributes) and is *linked* to other entities.

The *multilingual* attributes are represented by a linked entity each.

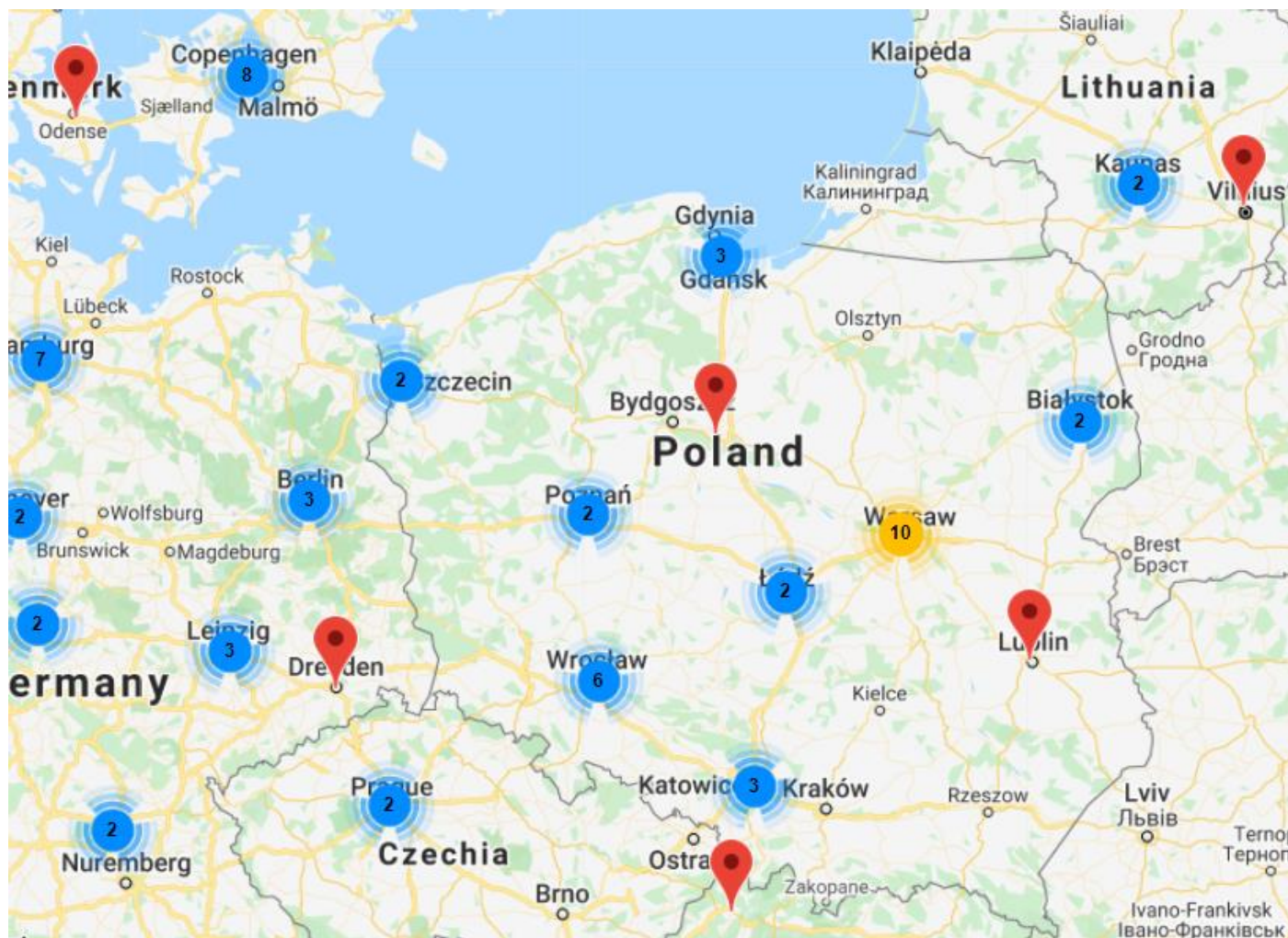
Slide from: Valérie Brasse (2019) "CERIF Tutorial: Spring 2019 euroCRIS membership meeting Helsinki", <http://hdl.handle.net/11366/1001>

Directory of Research Information Systems (DRIS)



Country	
India	219
Norway	132
Italy	76
United Kingdom	71
United States	42
Germany	32
Poland	31
Spain	23
Netherlands	18
Finland	15
Australia	12
China	11
Denmark	11

euroCRIS DRIS: Poland



- 31 CRIS systems
- Not all of them Omega-PSIR:
POL-on
- System interoperability
a key aspect

euroCRIS DRIS: Poland

Polish Platform of Medical Research of Pomeranian Medical University in Szczecin

PPM-PUM

The Polish Platform of Medical Research (PPM) of the Pomeranian Medical University in Szczecin is a digital platform presenting the scientific achievements and research potential of the Pomeranian Medical University in Szczecin. It incorporates the features of a Current Research Information System and an institutional repository and uses OMEGA-PSIR software. It provides open access to full texts of publications, doctoral theses, research data and other documents. PPM showcases research profiles of the academic staff at the Pomeranian Medical University in Szczecin, provides access to a database of experts from various medical fields and enables generating reports and analyses based on the data stored in the repository. PPM also provides information on the research potential of the University – patents, projects, infrastructure and laboratories. PPM is accessible for any Internet user, however, certain features are only available for registered staff at the Pomeranian Medical University in Szczecin.

Status Operational

URI <https://ppm.pum.edu.pl>

Country Poland

The background map shows a portion of Poland, with a red pin marking Szczecin. Other visible locations include Gdynia, Sopot, Bydgoszcz, and various smaller towns and parks like Kaszubski Park Krajobrazowy.

euroCRIS DRIS: Poland

DRIS Entries			
Acronym	Name	Scope	Organisation
WUT Base of Knowledge	WUT Base of Knowledge	University	Warsaw University of Technology 
	Omega-PSIR UMK	Institutional	The Nicolaus Copernicus University in Toruń 
WIR UE	WIR UE	Institutional	Wrocław University of Economics 
	GUT Research	Institutional	Gdańsk University of Technology 
POL-on	POL-on	National	Polish National Information Processing Institute (OPI) 
Baza Wiedzy PO	Baza Wiedzy PO	Institutional	Opole University of Technology 
Baza Wiedzy APS	Baza Wiedzy APS	Institutional	The Maria Grzegorzewska University in Warsaw 
	SGGW Knowledge Base	Institutional	Warsaw University of Life Sciences - SGGW 
	Omega-PSIR INTIBS	Institutional	Institute of Low Temperature and Structural Research Wrocław 
	UKSW Knowledge Base	Institutional	Cardinal Stefan Wyszyński University in Warsaw 

Software	
Omega-PSIR	29
In-house-built	2

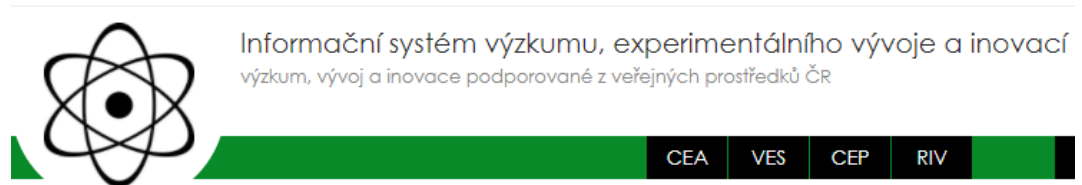
Status	
Operational	26
Under Construction ...	5

CRIS Goals

- Manage research
 - Throughout its all phases
- Keep record
- Assess and improve
 - Impact of the research
- Demonstrate
 - Relevance of the institution or funding agency

Types of CRIS

- **Institutional**
- **Funder**
- **Regional/National (Government)**
- **International**



Nordic Research Information System (NordRIS)

- Integrated data and analysis on publications to support responsible research evaluation, statistics and science policy in the Nordic countries

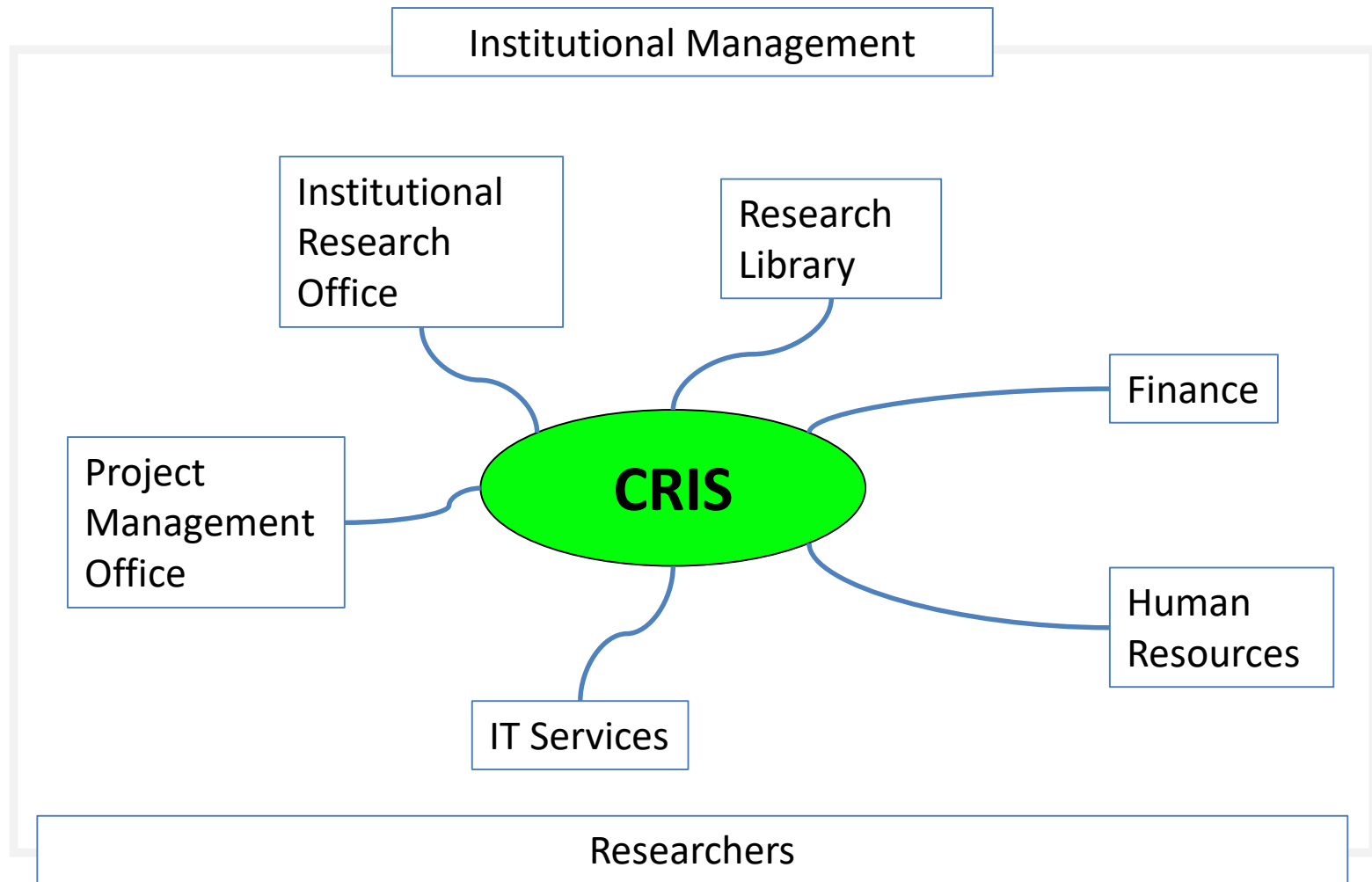


It's frequent to see snapshots for
the comprehensive institutional
research information flows
CRIS systems handle...

Research Information Flows at the University of Strathclyde



It's not that frequent however
to see the picture of the *institutional services*
that need to team up in order for
these comprehensive research information
flows to run smoothly

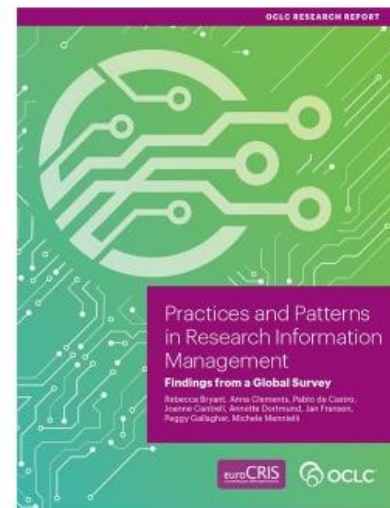


Surveys such as the one run
by OCLC and euroCRIS in 2018
show that **the ‘CRIS Manager’ role**
can be affiliated with
any of these institutional units –
but *it’s mostly a coordination role* across them all

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

In order to examine how research institutions worldwide are applying research information management (RIM) practices, OCLC Research partnered with [euroCRIS](#) to conduct a web-based survey that was administered from October 2017 through February 2018, yielding 381 responses from 44 countries, demonstrating the global nature of research information management activities.

<http://oclc/rim>



So what *is* CRIS management?

- Defining what to track + permissions
- Training
- User support
 - Mainly researchers
 - But in practice all kinds of users
- CRIS data curation
 - Bulk imports
 - Ensuring completeness
 - Detecting & resolving duplicities
- Reporting
 - Internal & external
- Technical maintenance & upgrading

Many of the CERIF entities:

Persons

Organisations

- Depts & Schools

- Funders

- ...

Projects

Research outputs

Facilities

Research impact

And the links!!!

A CRIS manager should oversee all these areas including tasks like:

- **Coordination of the different units** involved in the CRIS' operation
(IT, researchers, departments, library, research office, impact officers)
- **System interoperability w/ internal & external systems/data flows**
(incl. optimisation of information exchange workflows
with external stakeholders such as research funders or assessment bodies)
- **System administration**
- **Procuring/developing the system**
- **Testing & implementation** of version upgrades
- **Training** for all kinds of system users
- **Reporting** both internally and to external bodies
- **Discussion on current practice and potential improvements**
 - within the institution
 - the user group for the product (if there is one)

CRIS managers in conversation with each other



THE INTERNATIONAL ORGANISATION
FOR RESEARCH INFORMATION

Membership | News and Events | Services | Repository | About |

First euroCRIS series of webinars

A first series of webinars will be held by euroCRIS during the week of Nov 23-27, 2020 to mark our *virtual* Autumn Membership Meeting 2020. The programme for this series of webinars detailed below includes an update on ongoing projects and initiatives around Research Information Management and CRIS Systems. Among other topics, talks in this series will deal with the development of a national-level CRIS infrastructure in different countries, with the ever increasing degree of CERIF-XML-enabled system interoperability and its implications or with the extension of the default CRIS data model to cover additional areas such as social and economic impact of research.

Draft programme for the Nov 23-27, 2020 euroCRIS series of webinars

Mon Nov 23rd, 4pm CET, 10am SA PST *"The PeruCRIS project"*

Presenters: César Olivares (CONCYTEC), Susanna Mornati (4Science), Alfonso Maza (Semicrol)

Chair: Pablo de Castro, U Strathclyde and euroCRIS Technical Secretary

[Session recording](#)

[Slides](#)

- Aimed to replace the Autumn 2020 membership meeting
- National CRIS and system interoperability two big topics
- To be followed-up by standalone webinars held once or twice a month
- If you have suggestions for suitable topics, drop us a line at eurocris@eurocris.org

<https://eurocris.org/first-eurocris-series-webinars>

Because CRIS management is usually distributed across a wide institutional team, tasks like responding to surveys or keeping entries in directories like the euroCRIS DRIS *may become quite demanding*

In order to make the addition of new entries as simple as possible, a *minimally sufficient metadata set* had been adopted for their description in the DRIS. This also aims to keep the maintenance effort as low as possible by avoiding fields prone to frequent changes such as contact person or number of records kept in the CRIS. This basic description contains just six fields:

System interoperability

The screenshot shows the OpenAIRE EXPLORE search results page. At the top left, there is a yellow 'BETA' banner. The OpenAIRE EXPLORE logo is in the top center. The page is divided into a left sidebar with filters and a main content area. The filters include 'CRIS System' (selected), 'Type (1)' (Clear), 'Compatibility Level (1)' (OpenAIRE CRIS v1.1 (16)), and 'Country (6)' (IT (4), NL (4), FI (2), PL (2), RS (2), DE (1)). The main content area shows 'Results per page: 10' and '16 CONTENT PROVIDERS, PAGE 1 OF 2'. Two results are displayed: 'WUT Base of Knowledge' and 'VTT Research Information System'. Both results show 'OPENAIRE CRIS V1.1', a website URL, and an OAI-PMH URL.

Filters

Results per page: 10

Type (1) Clear

✓ CRIS System (16)

Compatibility Level (1)

☐ OpenAIRE CRIS v1.1 (16)

Country (6)

☐ IT (4)

☐ NL (4)

☐ FI (2)

☐ PL (2)

☐ RS (2)

☐ DE (1)

CRIS System
WUT Base of Knowledge
OPENAIRE CRIS V1.1
Website URL: <https://www.pw.edu.pl/engpw>
OAI-PMH URL: <https://repo.pw.edu.pl/oaicerif/OAIHandler>

CRIS System
VTT Research Information System
OPENAIRE CRIS V1.1
Website URL: <https://cris.vtt.fi>
OAI-PMH URL: <https://cris.vtt.fi/ws/oai>

<https://beta.explore.openaire.eu/search/find/dataproviders?f0=q&fv0=&page=2&sortBy=&datasourcetypeuiname=%22CRIS%2520System%22>

Some key areas of expertise

- IT
 - emphasis on system administration and system interoperability
 - also internal product management and research reporting
- Internal organisational structure
- Institutional research workflows
- National research evaluation framework, the relevant actors and workflows therein
- National and international RIM landscape and trends
- ...

CRIS management and the Research Library



Figure from: 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.

<https://doi.org/10.25333/C3NK88>. CC BY 4.0.

CRIS management and Research Administration: Adjacent but different areas

CRIS management	Research Administration
Involves making sure the system is ready to be used in RIM tasks	Uses the system to work in areas like project proposals or project management
The same systems are often used for research information management and research administration	
Mostly visible from the outside	Mostly internal

Where can CRIS Management training be achieved?

- No one-stop shop currently
 - Mostly learning by doing
 - Listen to other colleagues both internally and externally
- Research administration has good training schemes:
 - ARMA at an UK-level
 - EARMA at an EU-level

Not that much information systems-oriented
- euroCRIS: considering the possibility of launching a more holistic and system-oriented training activity

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Thanks!

Questions?

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(Tentative) euroCRIS Spring Membership Meeting

April 28–30, 2021 @ Limassol, Cyprus

