



Source: © istock.com/zorazhuang

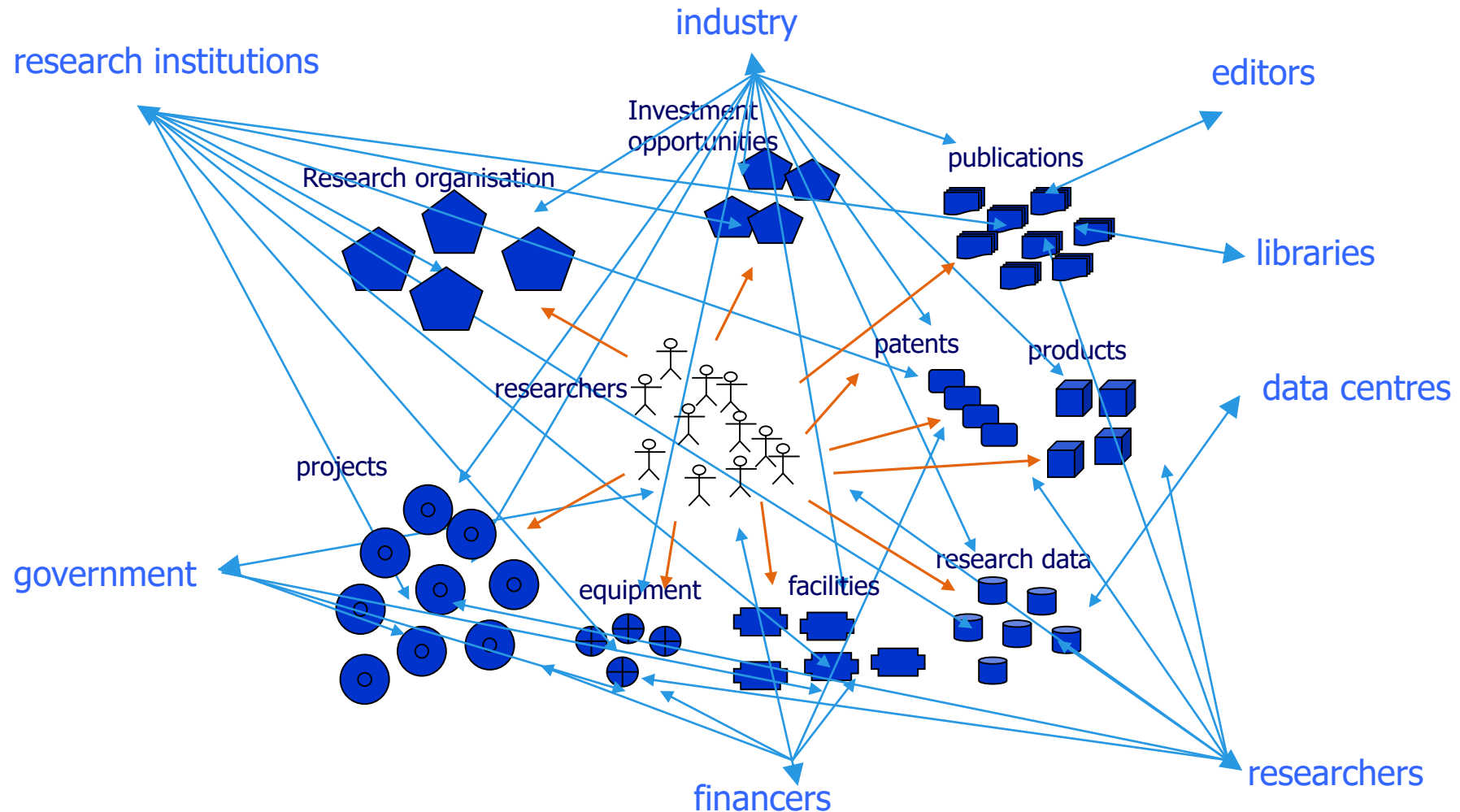
What if...

Research information systems could truly interoperate?

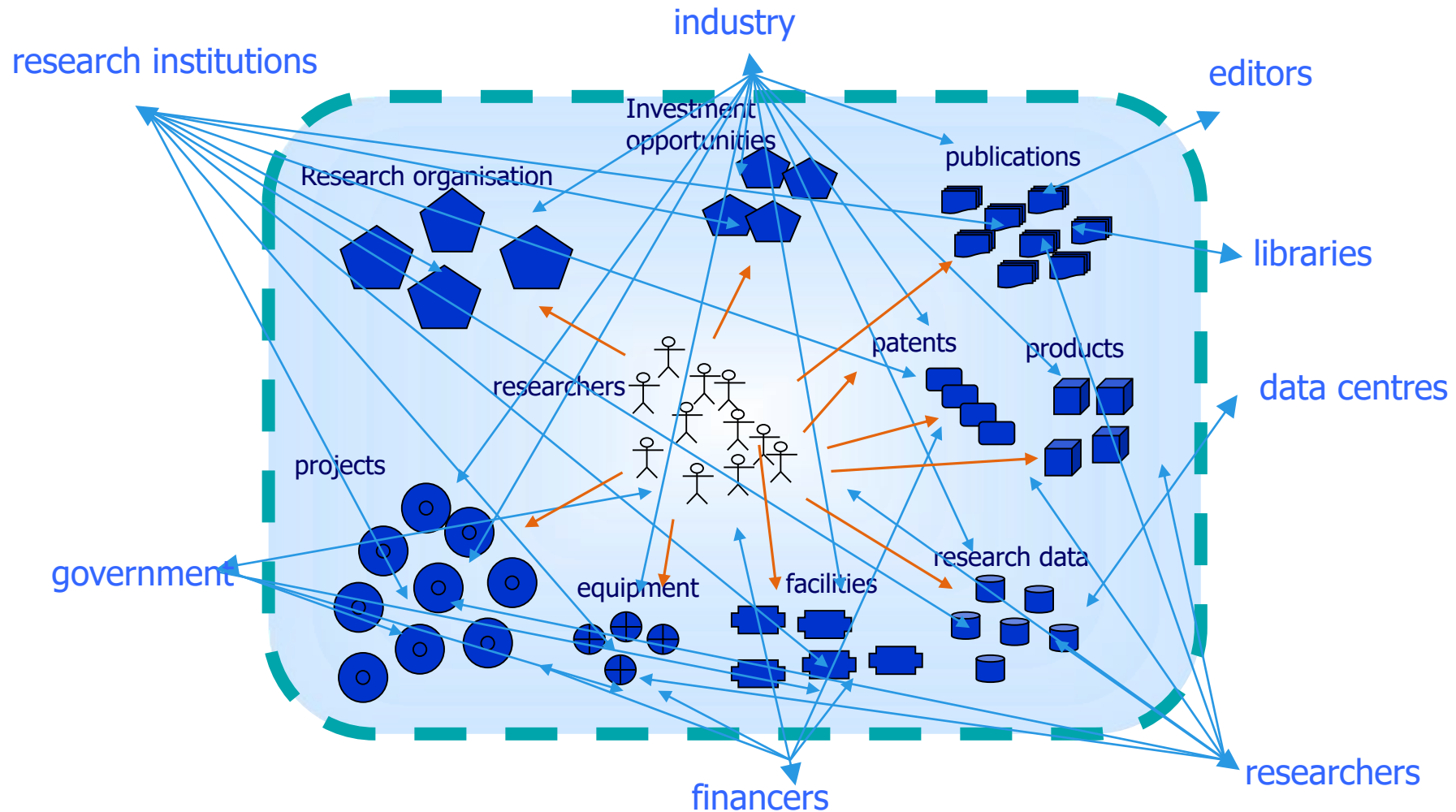
Sadia Vancauwenbergh
Hasselt University, ECOOM, BE
President of euroCRIS
eurocris@eurocris.org

CLACSO Conference
01.07.2021

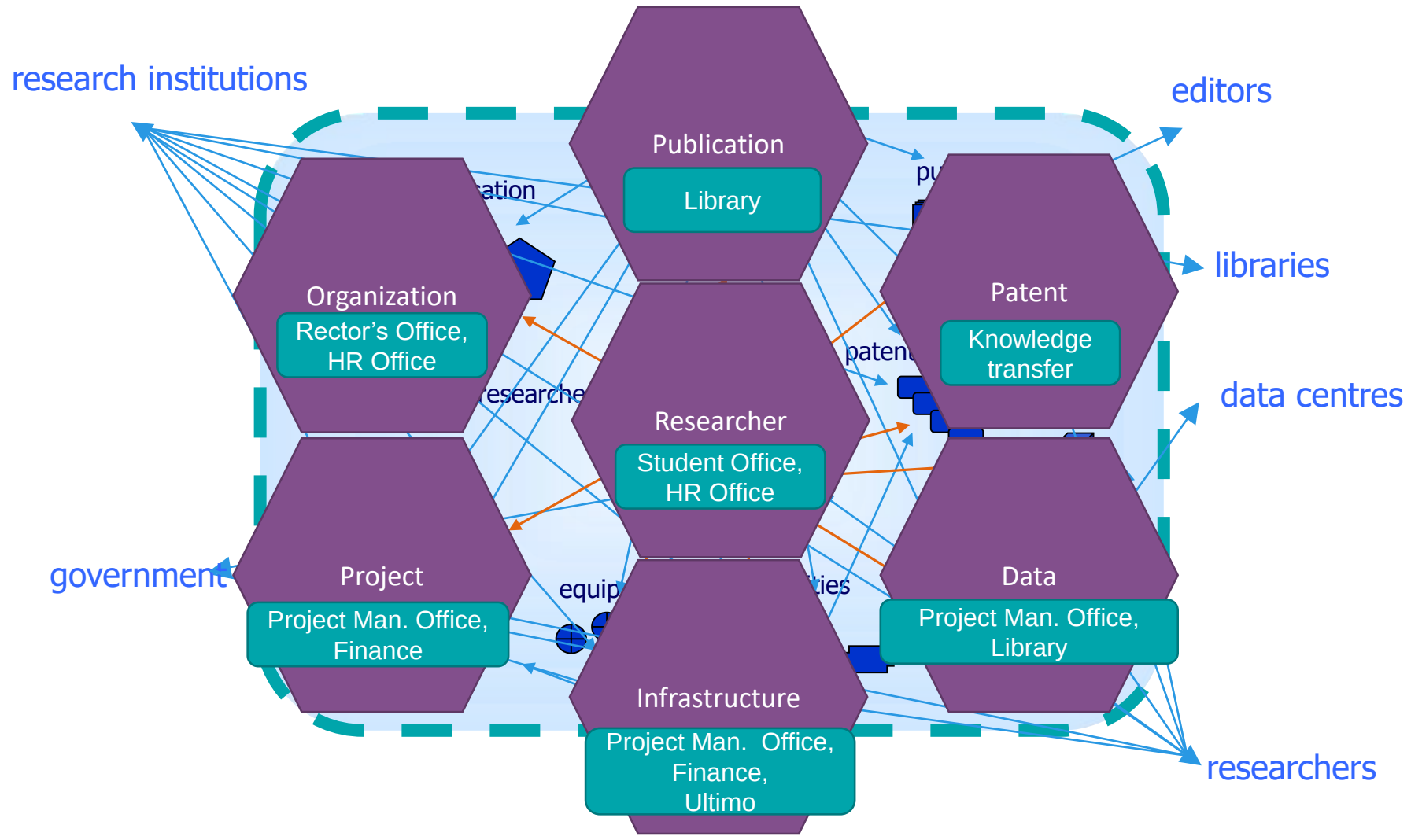
Research information



Research information space

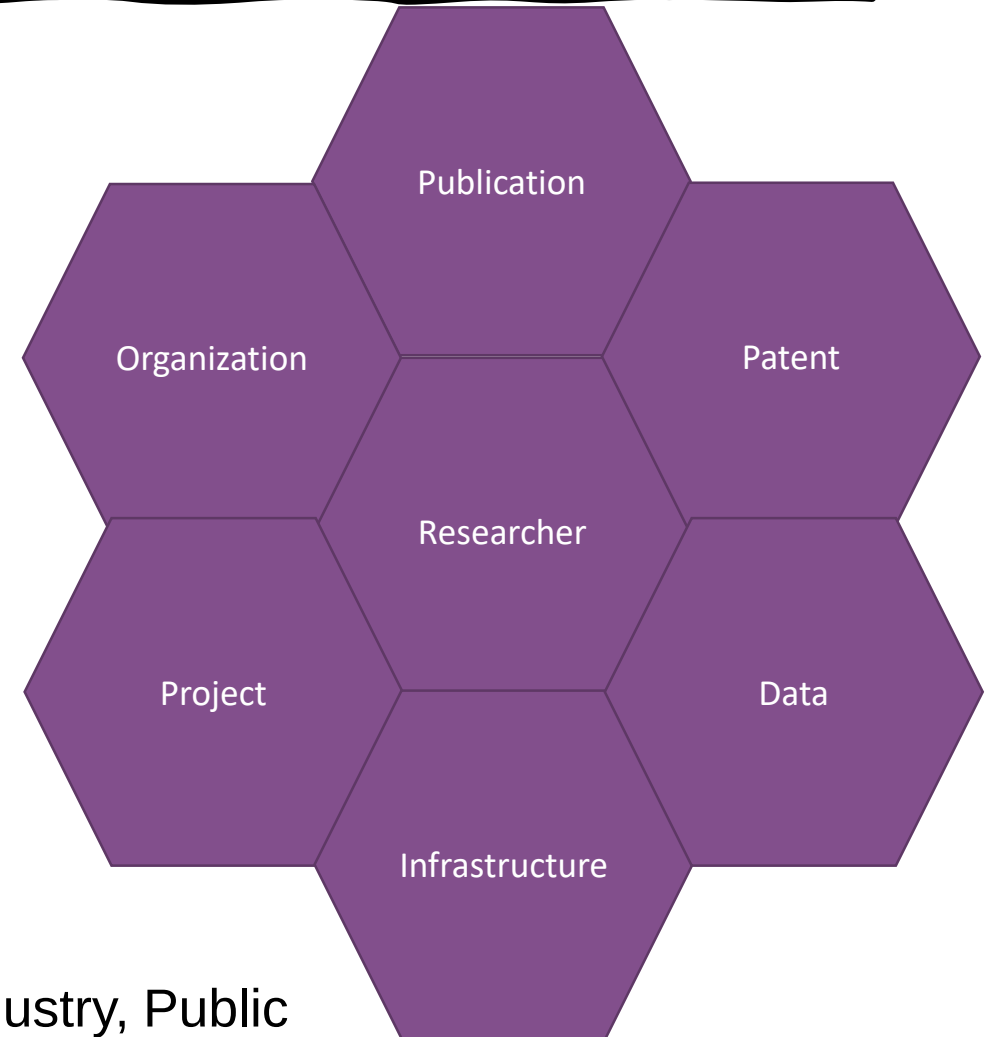


Research information space



Research information systems

- Correct, actual, complete research information
- Connect data silo's
- Maximum reuse of data
- Reduce system costs
- Reduce administrative burden
- Once-only principle
- Policy monitoring & reporting
- Increase strategic intelligence
- More information services
- Researchers, Institutions, Governments, Funders, Industry, Public



Alignment of CRIS systems

But what if one researcher has multiple affiliations...

... what about the only-once principle, efficiency, ...

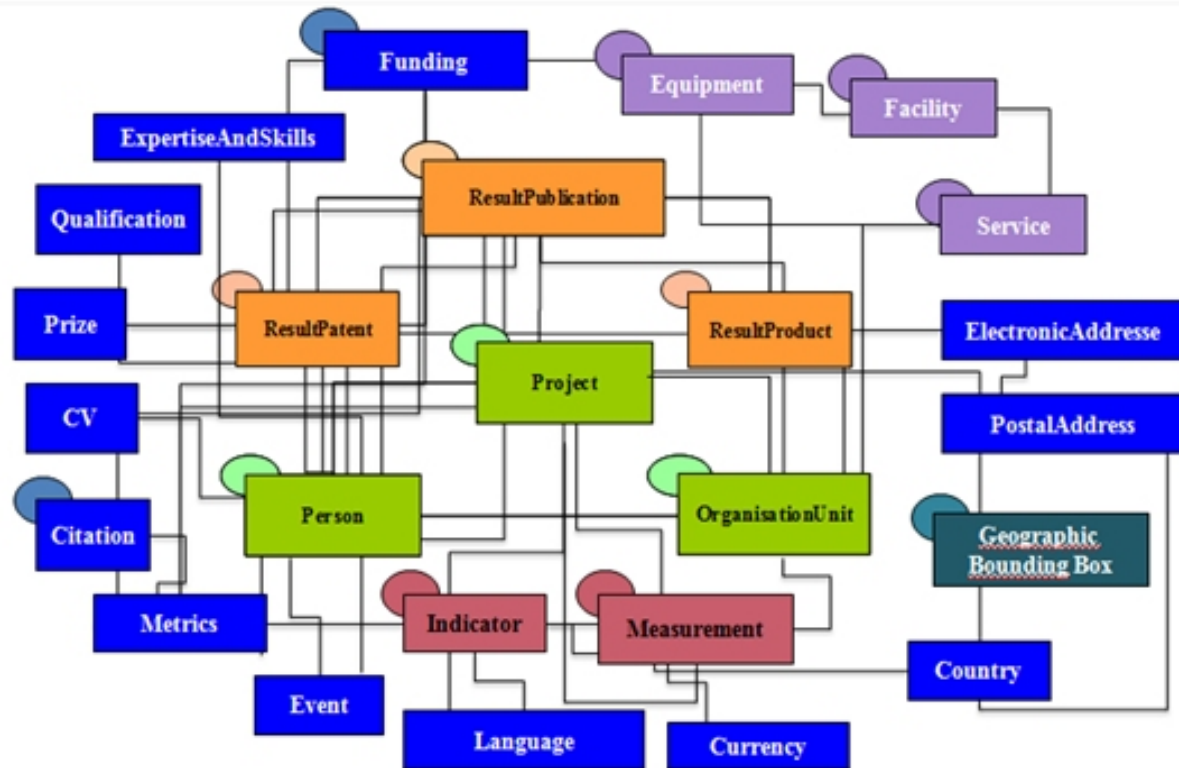
... what about research evaluations ...



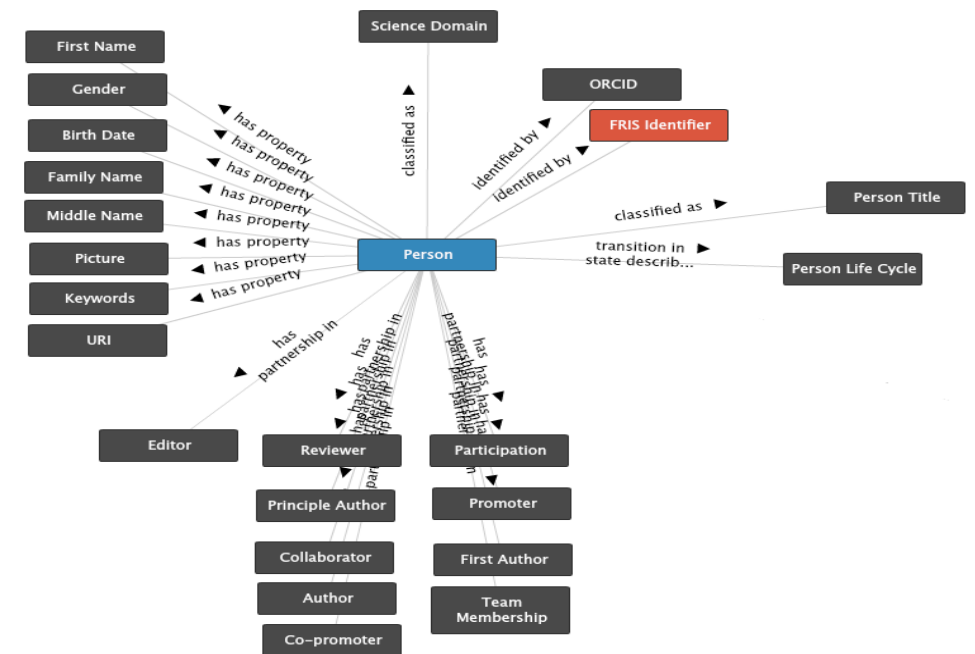
CERIF (<https://www.eurocris.org/services/main-features-cerif>)

Specification (conceptual level), Model (logical level), Database scripts (physical level)

CERIF model

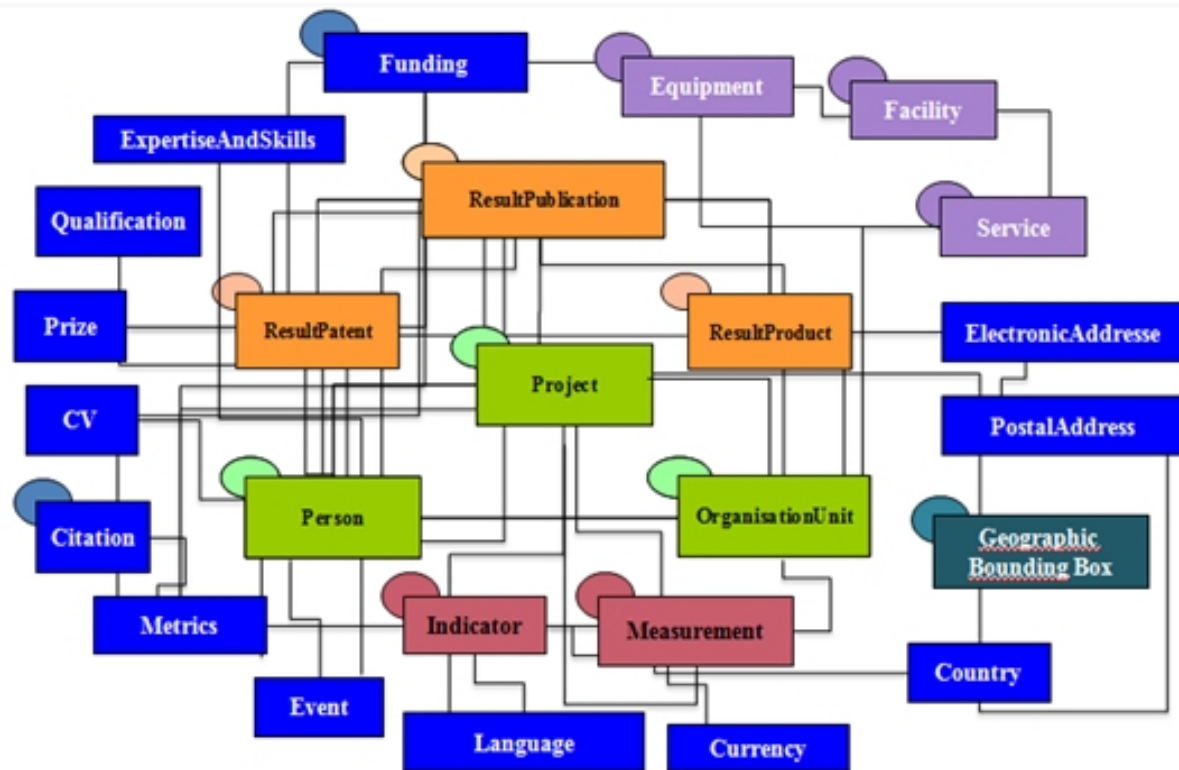


Metadata for a Person

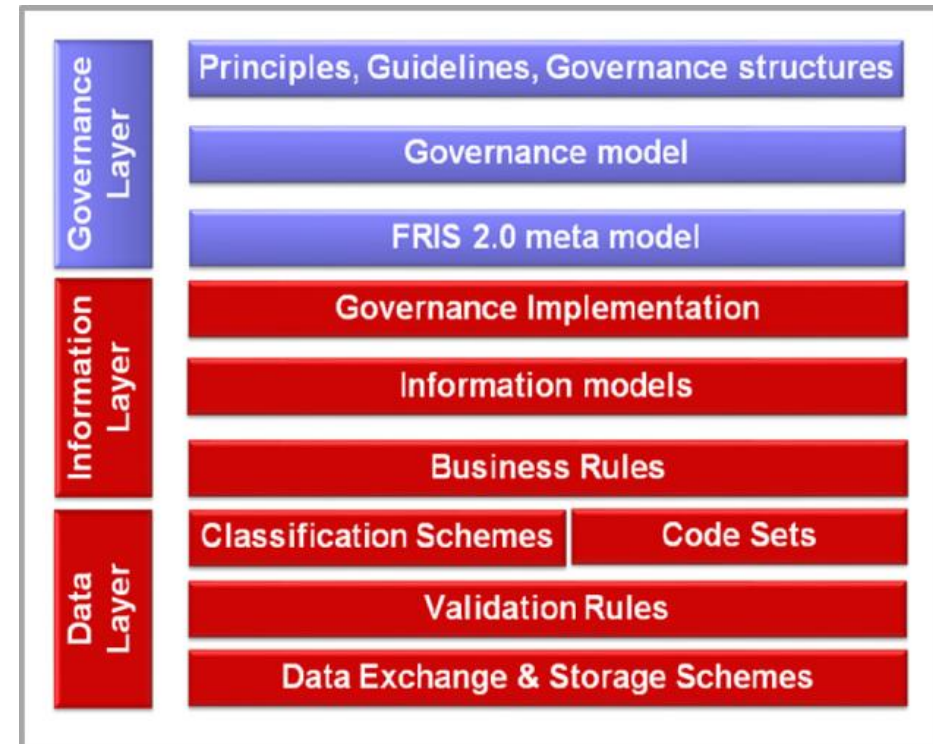


Semantic interoperability

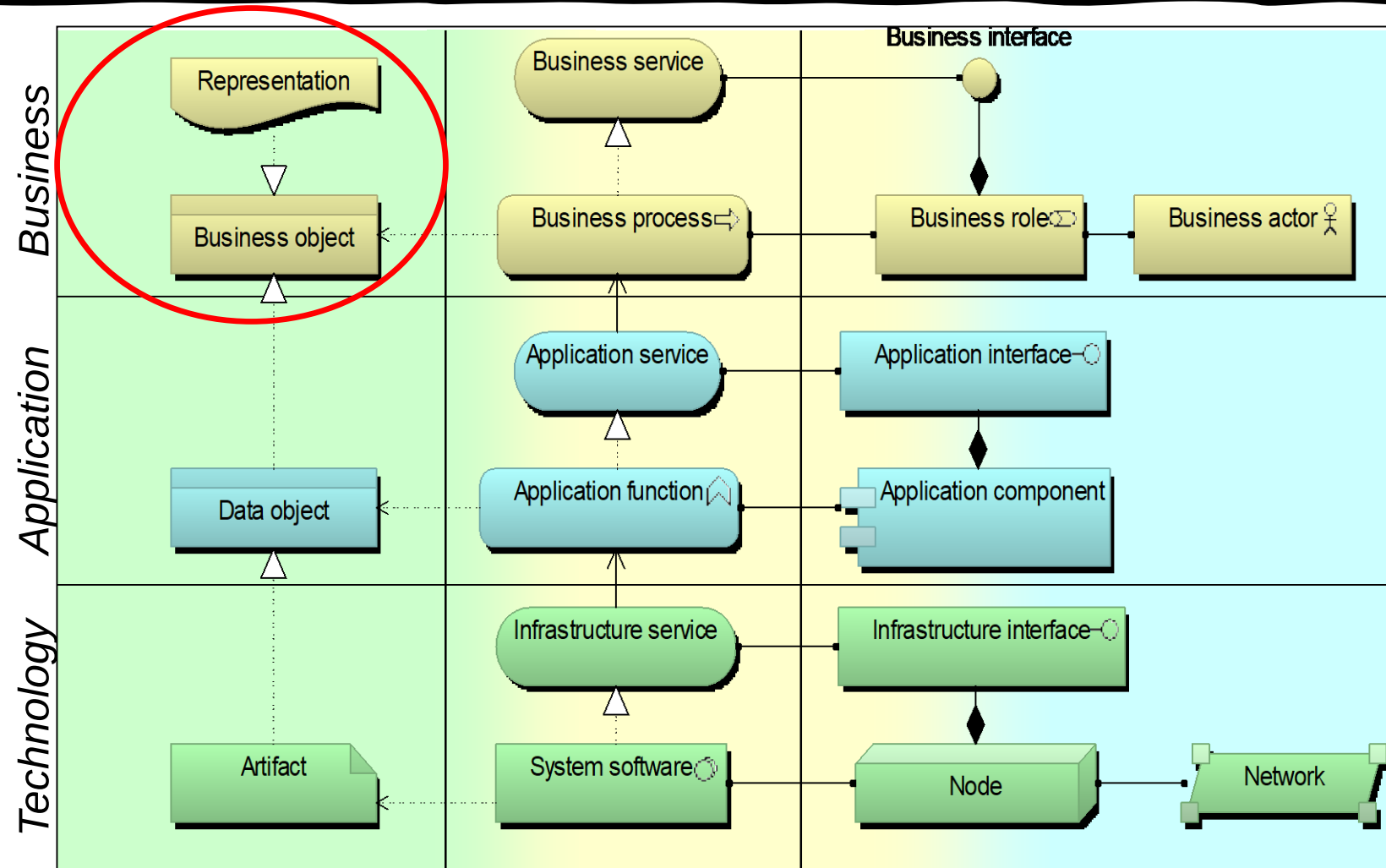
CERIF1.6



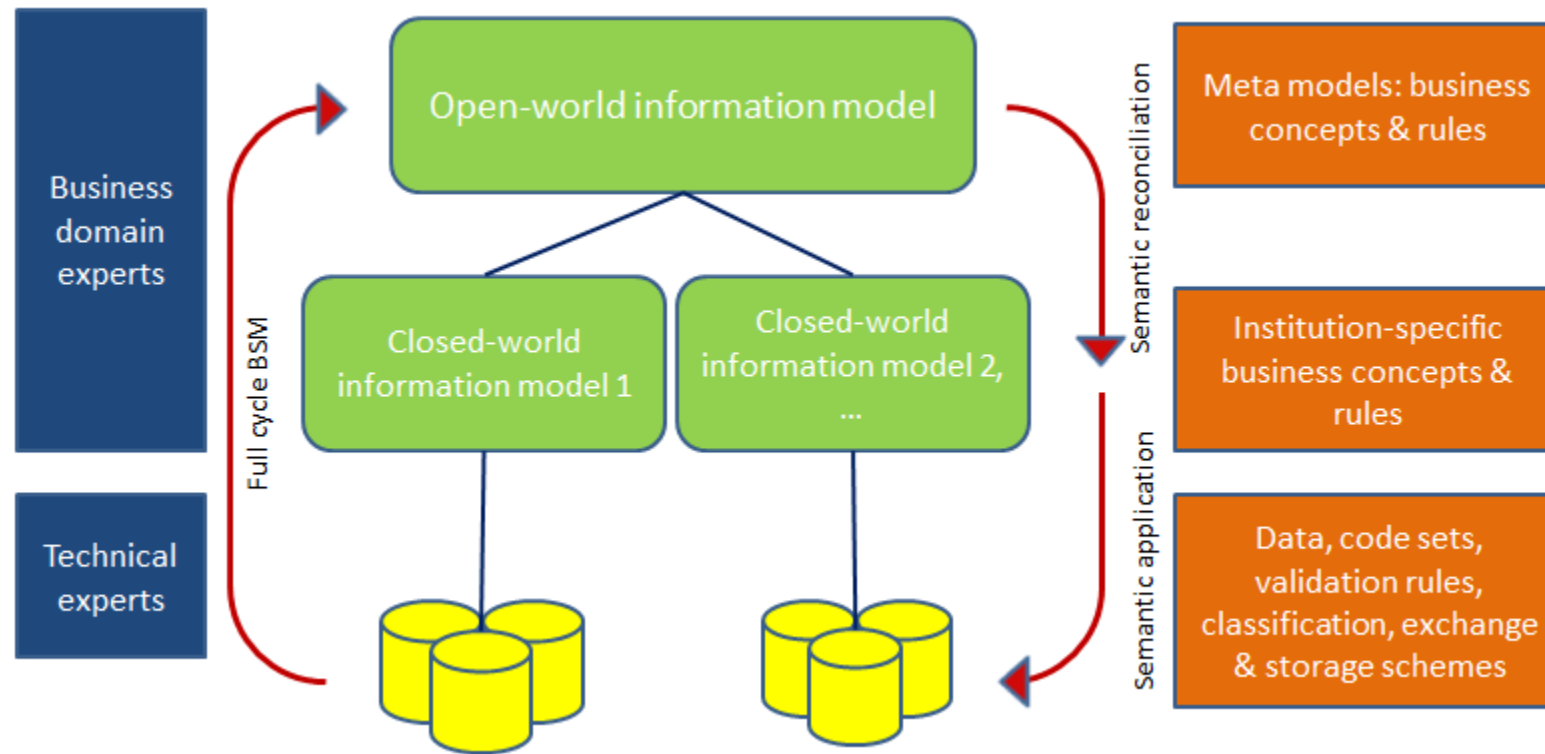
Governance structure



Business layer: Recording of business concepts & meanings by terminological theory



Inter-organizational semantic alignment



- Definition of required business concepts on the meta-level
- Collaborative, machine-readable manner
- *Full-cycle* business semantics management



UH Book

Type: FRIS Business Object

Status: Candidate



Edit



Move



Delete

Simple Approval

Vote

Edit Business Term

Funding Program Onboarding Process



Discover



Collibra

Overview

+ Add

Hierarchy

Fact Types

Responsibilities

Traceability

Comments

+ Add

Activity

Attachments

Definition

A book is a set of written, printed, illustrated, or blank sheets, made of ink, paper, parchment, or other materials, usually fastened together to hinge at one

Descriptive Example

No value has been given yet. Double click or use the edit button.

identified by

Name ▴ 🔍	Definition 🔍	Description 🔍	Domain 🔍
DOI	DOI is an acronym for "digital o... The DOI Handbook: http://www.d		Identifier Glossary
ISBN	An ISBN is an International Stand...	An ISBN is essentially a product...	Identifier Glossary
UH Identifier	UHasselt handle, neemt de volg...		UH Identifier
VABB Identifier	The unique identifier of a re...		Identifier Glossary
WoS ID	The Identifier of Research Outp...	Synonyms found: ISI, ISI Identifi...	Identifier Glossary

has property

Name ▴ 🔍	Definition 🔍	Descriptive Example 🔍	Domain 🔍
Abstract	a short resume		Research Output Glossary
Book Edition	a particular version of a book		Research Output Glossary
Book Series Name	A book series name is the nam...		Research Output Glossary
Book Volume	A volume forming part of a larg...		Research Output Glossary
ISSN	An International Standard Serial...		Identifier Glossary
Keywords	A keyword is a significant word...		Research Output Glossary
Language	The language expressed in a ce...		FRIS Glossary
Page Count	The total number of pages of a ...		Research Output Glossary



Filter on community or domain...

- > Data Governance Council
- > ECOOM
- ▼ Flanders Research Information Space
 - > FRIS Application Community
 - > FRIS Model Community
 - > FRIS Working Group on Business Rules
- ▼ Information Providers Community
 - > HoGent Research Information Community
 - > KU Leuven Research Information Community
 - > UAntwerpen Research Information Community
 - > UGent Research Information Community
- ▼ UHasselt Research Information Community
 - ▼ UHasselt Business Object Community
 - UH Funding
 - UH Identifier
 - UH Life Cycle
 - UH Location
 - UH Party
 - UH Project
 - UH Research Output
 - > UHasselt Publication Data Assets Community
 - Hasselt Research Information Glossary
 - > VUB Research Information Community
- > Reference Models and Standards Community

UH Model

UH Book

A nonperiodical publication con...

UH Book Section

A major section of a book, com...

> UH Conference Material

Unpublished literature of conferen

▼ UH Journal Contribution

This term is used to collect a se...

..... UH Article

An article reports of research o...

..... UH Book Review

A critical appraisal of a book th...

..... UH Correction

Correction of errors found in ar...

..... UH Correction, Addition J...

Correction of errors found in ar...

..... UH Discussion

An article or paper that discuss...

..... UH Editorial Material

An article that gives the opinion...

MetaModel

Book

Book chapter

Journal Article

Review Article

Journal Article

Journal Article

Journal Article

Journal Editorial

Alignment of CRIS systems

But what if one researcher has multiple affiliations...

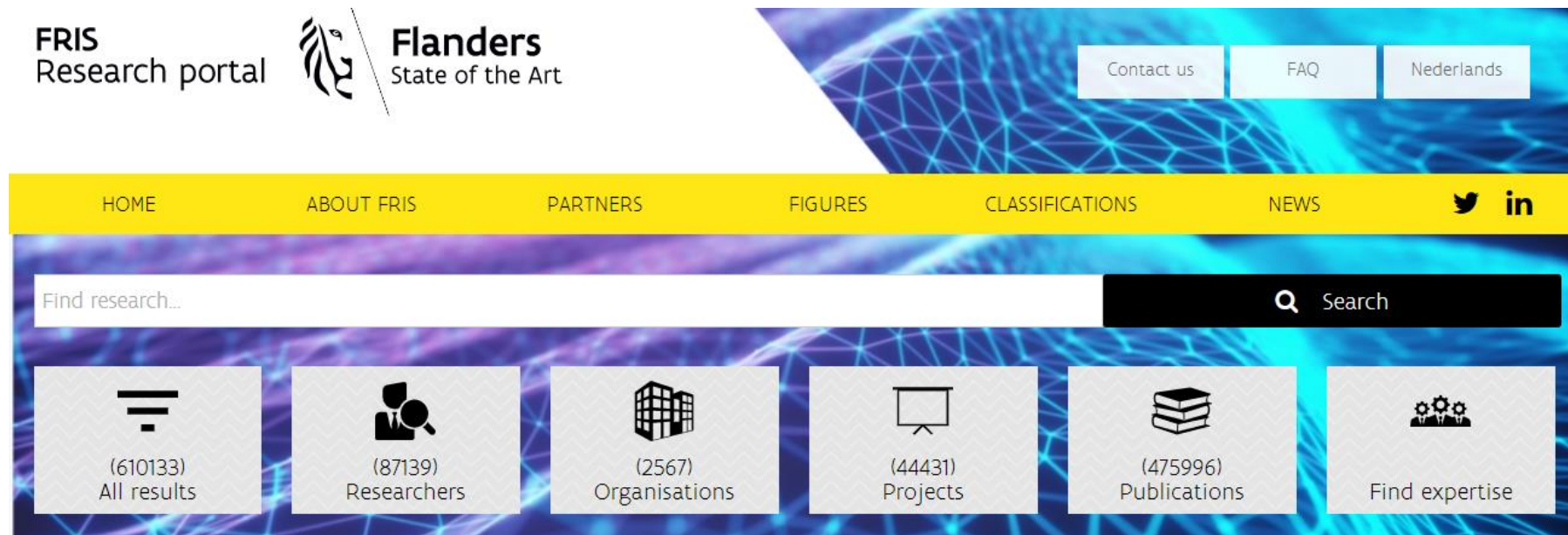
... Information should be entered only-once which is efficient ...

... and research evaluations are based on complete, correct info ...



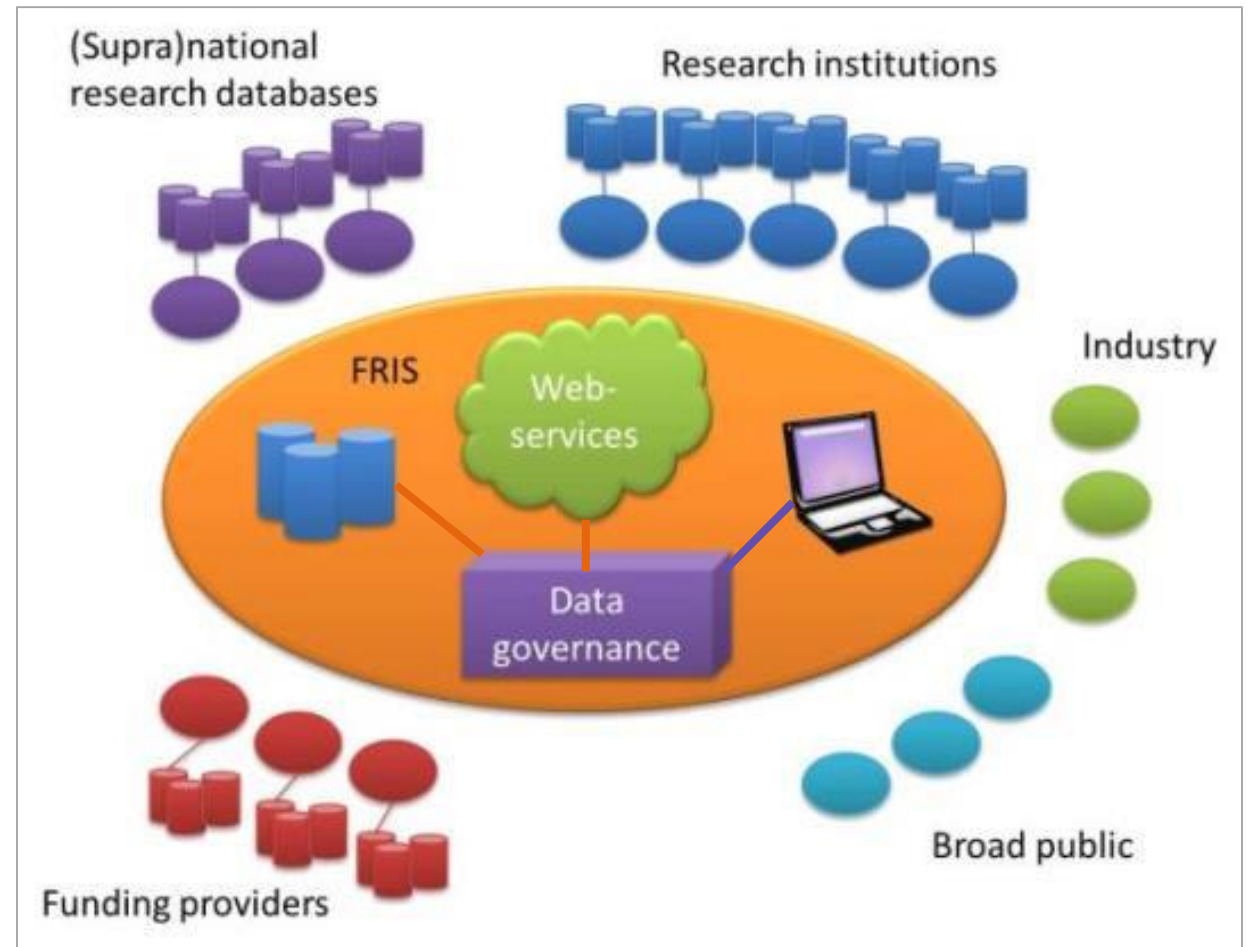
Regional alignment of CRIS systems

- Case: Flemish Research Information Space (FRIS)



Example - data providers landscape

- Universities (5)
- University Colleges (13)
- Strategic Research centres (4)
- Research Institutes (20)
- Funders (2)
- ECOOM



R&D evaluation on a regional scale

- Expertise analysis
- Answering parliamentary questions
- Statistical analysis (projects, disciplines, publications, financial means, ...)
- Financial reporting on Funding (Flemish Government)
- Monitoring of KPIs on Open Science
- Reporting on indicators in R&D monitoring
- Monitoring of interdisciplinarity
- ...

What if...

Research information systems could truly interoperate?



euroCRIS community (eurocris.org)

Mission

Promote **cooperation** within and **share knowledge** among the research information community and interoperability of research information through **CERIF**, the Common European Research Information Format

CERIF

Projects

DRIS

Publication
Repository

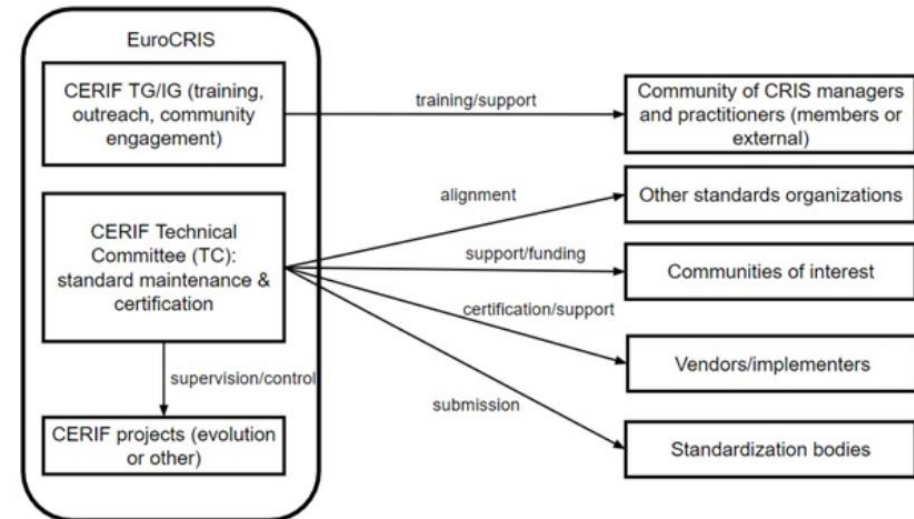
Conferences

Membership
meetings

Webinars

Projects (<https://www.eurocris.org/ongoing-projects>)

- Ongoing projects:
 - CERIF refactoring project
 - Refactor the CERIF structure in terms of
 - Modularity
 - Extensibility
 - In line with current research practices
- Finished projects:
 - DRIS+, METIS2OpenAire, Pasteur4OA, VRE4EIC, Jisc Research Data Shared Service, ENGAGE, HOLACLOUD



DRIS (<https://www.eurocris.org/services/dris>)

- Directory of Research Information Systems (DRIS)
 - (Minimally sufficient) information on > 850 systems worldwide
 - <https://eurocris.org/dris/dris-form>



DRIS (eurocris@eurocris.org RDM+ badge)

EuroCRIS

DRIS record METIS Research Information System

 View Statistics

 Email Alert

 RSS Feed

 Information

DRIS Details

Name of the CRIS METIS Research Information System **Acronym** METIS Radboud

Description METIS is the CRIS of Radboud University It was implemented already in 1994 and as such is one of the oldest fully fledged CRIS's in Europe.

Status Operational

Scope Institutional

Date of establishment 01-04-1993

URI <https://www.ru.nl/research-information-services/manuals/ris-explained/> **Number of users** 750

Institution/organization Radboud University Nijmegen

Department Central Management

Contact person Simons, Eduard

CRIS data supply Faculties

CRIS data validation Central Administration

CRIS data output Central Management

Country Netherlands

Coverage Dataset

Software Metis

OpenAIRE



Repository (https://dspacecris.eurocris.org/)

The screenshot shows the homepage of the euroCRIS DSpace CRIS digital repository. The header features the euroCRIS logo and the tagline 'The International Organisation for Research Information'. A navigation bar includes links to Repository, Digital Collections, Research Outputs, People, Organizations, DRIS, and Help. A search bar and a 'Sign on to:' link are also present. The main content area welcomes users to the digital repository and describes its purpose. Below this, there are three main sections: Community (1693), Activities & directories (1837), and Research Outputs, art report (787). Each section has an icon and a button to explore. A dropdown menu for Research Outputs is open, showing a list of categories and their counts. At the bottom, there are sections for 'Most Viewed' and 'Most Downloaded' items.

euroCRIS
Current Research Information Systems

The International Organisation for Research Information

Repository Digital Collections Research Outputs People Organizations DRIS Help

Search Sign on to:

EuroCRIS

Welcome to the euroCRIS DSpace CRIS digital repository

The euroCRIS DSpace CRIS is the digital portal where outputs from all euroCRIS discussion and dissemination activities are stored and offered in free access form. These include among others euroCRIS: membership meetings, strategic seminars and CRIS Conferences, together with the outputs of different euroCRIS Task Group activities.

The underlying open source DSpace CRIS platform combines the agile open access content management provided by DSpace with additional CERIF-compliant CRIS features (CRIS:Current Research Information System) built on top.

Search term... **Q** All

Community 1693
Explore the researcher community

Activities & directories 1837
Explore entities

Research Outputs, art report 787
Explore o

- Research Outputs 787
- Organizations 1008
- People 685
- Projects 8
- DRIS 856
- Events 71
- CERIF Semantics 652
- Others 250

Most Viewed <>

Most Downloaded <>

Slides and session recording for Feb 11th, 2021 joint

Upcoming events

- Series of euroCRIS webinars
- Series of monthly webinars:
 - **July 6th, 2021 webinar** on the **CERIF Refactoring Project** by Jan Dvořák and Dragan Ivanović
 - A [new monthly euroCRIS webinar](#) on Tue Jul 6th will address the ongoing [CERIF Refactoring pilot project](#) led by Jan Dvořák and Dragan Ivanović from the euroCRIS CERIF Task Group. This internal euroCRIS project started at the beginning of 2021 with the aim to upgrade the modeling paradigm of CERIF, the Common European Research Information Format, which lies at the core of many Current Research Information Systems. The current monolithic model will be divided into modules for easier adaptation and a more agile development process.
 - The webinar will be delivered by project leads Jan Dvořák (Czech Technical University in Prague) and Dragan Ivanović (University of Novi Sad, Serbia). The session will be chaired by euroCRIS Board member Anna Guillaumet, who also sits in the euroCRIS Technical Committee for Interoperability and Standards ([TCIS](#)), the internal committee that oversees the project.
- Conferences:
 - Dubrovnik, Croatia, May 12-14, 2022



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