



New avenues for improving research management services through regional research information systems

OSLO **CONFERENCE**
4-6 MAY **2022**



Sadia Vancauwenbergh, Hasselt University - President of euroCRIS

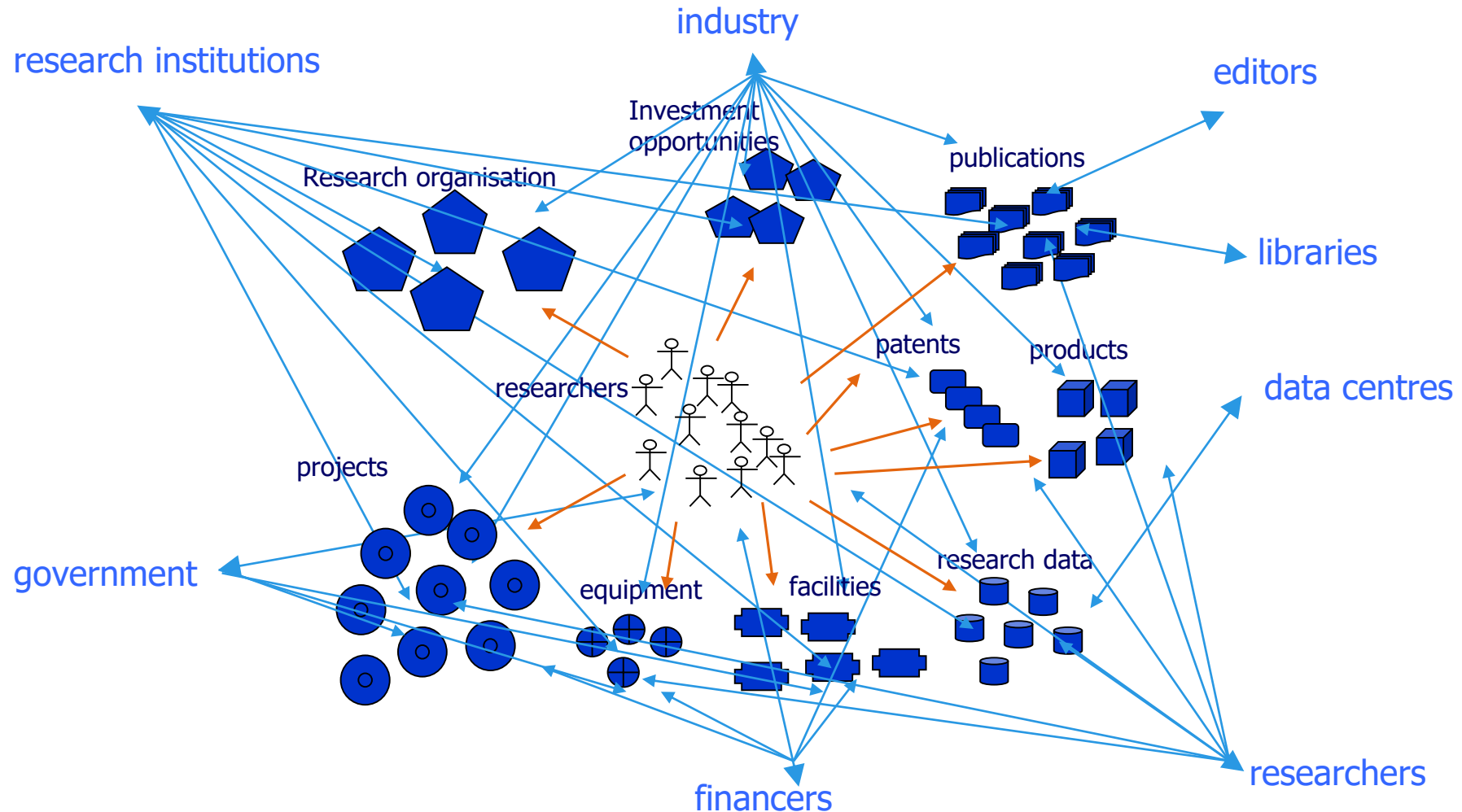
Annelies Stockmans, Hasselt University

Hanne Poelmans, Hasselt University

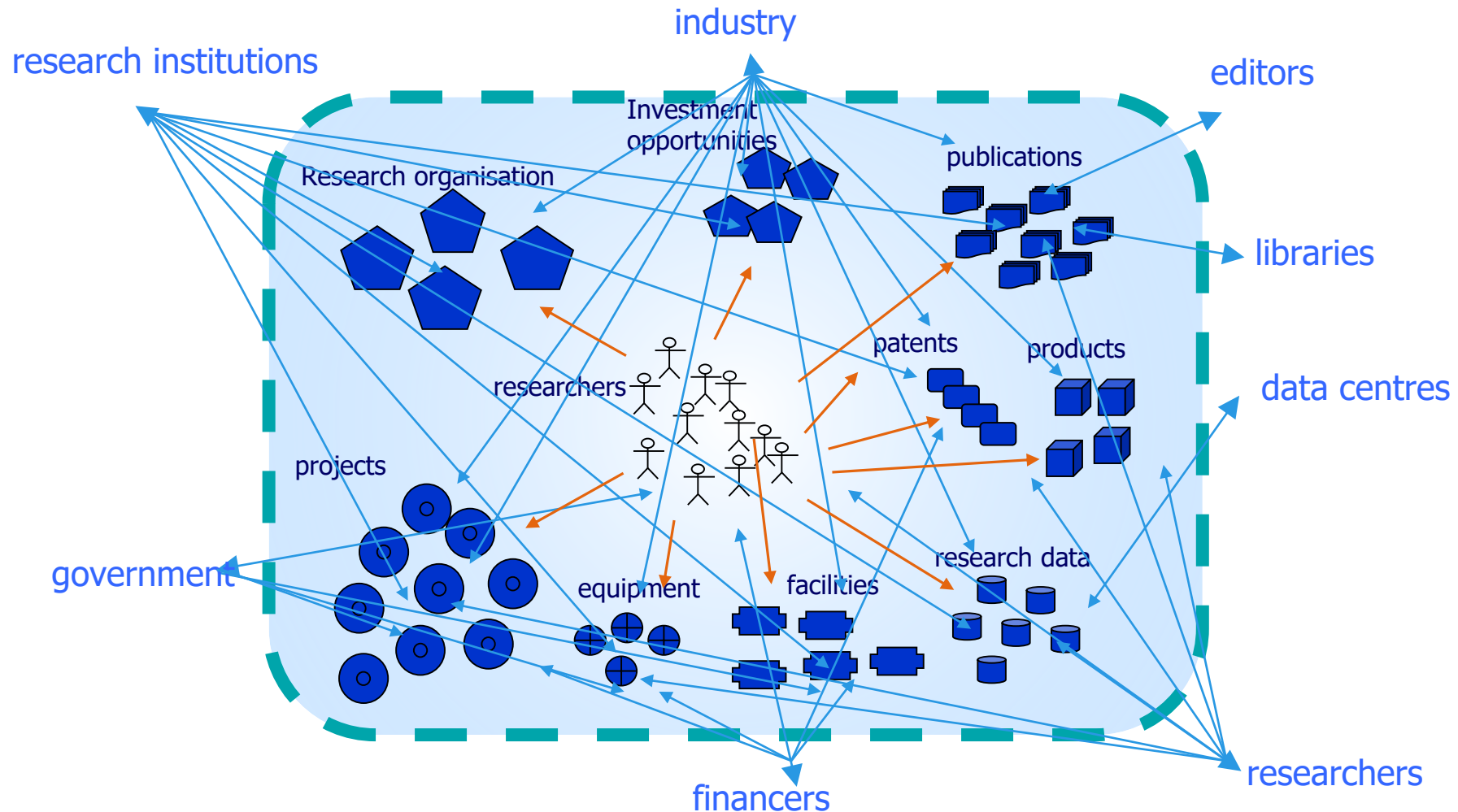


THE INTERNATIONAL ORGANISATION
FOR RESEARCH INFORMATION

Research information



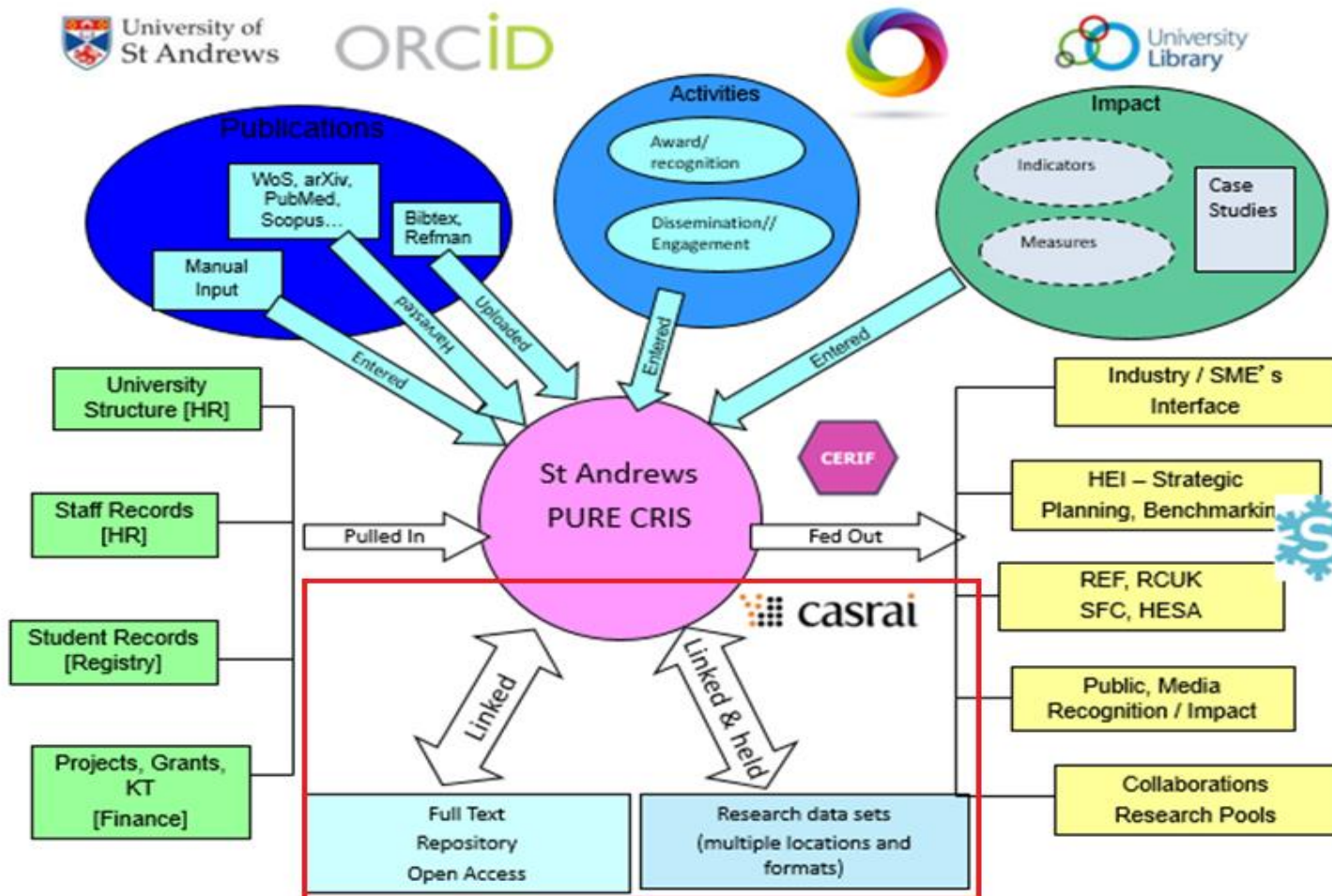
Research information space



Research information space



Example: St. Andrews CRIS

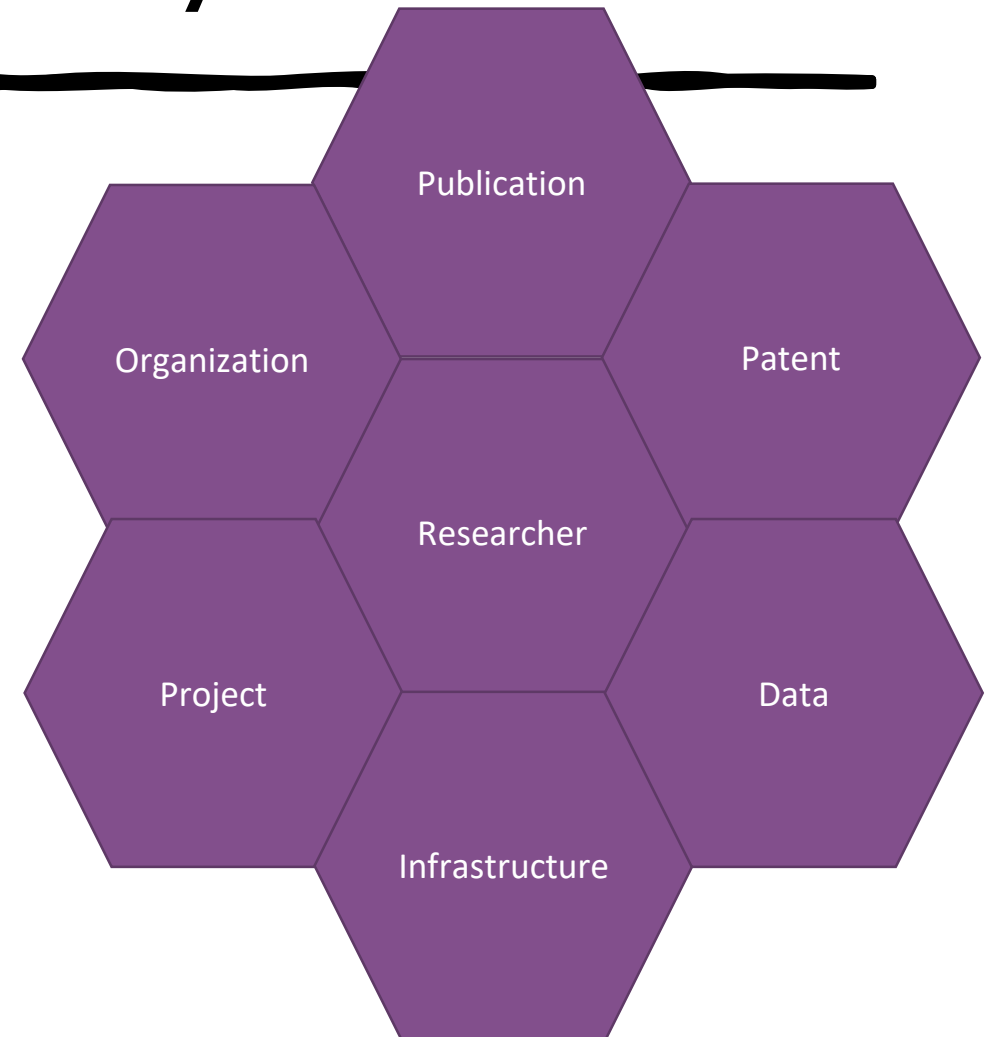


Research information systems

- 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



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

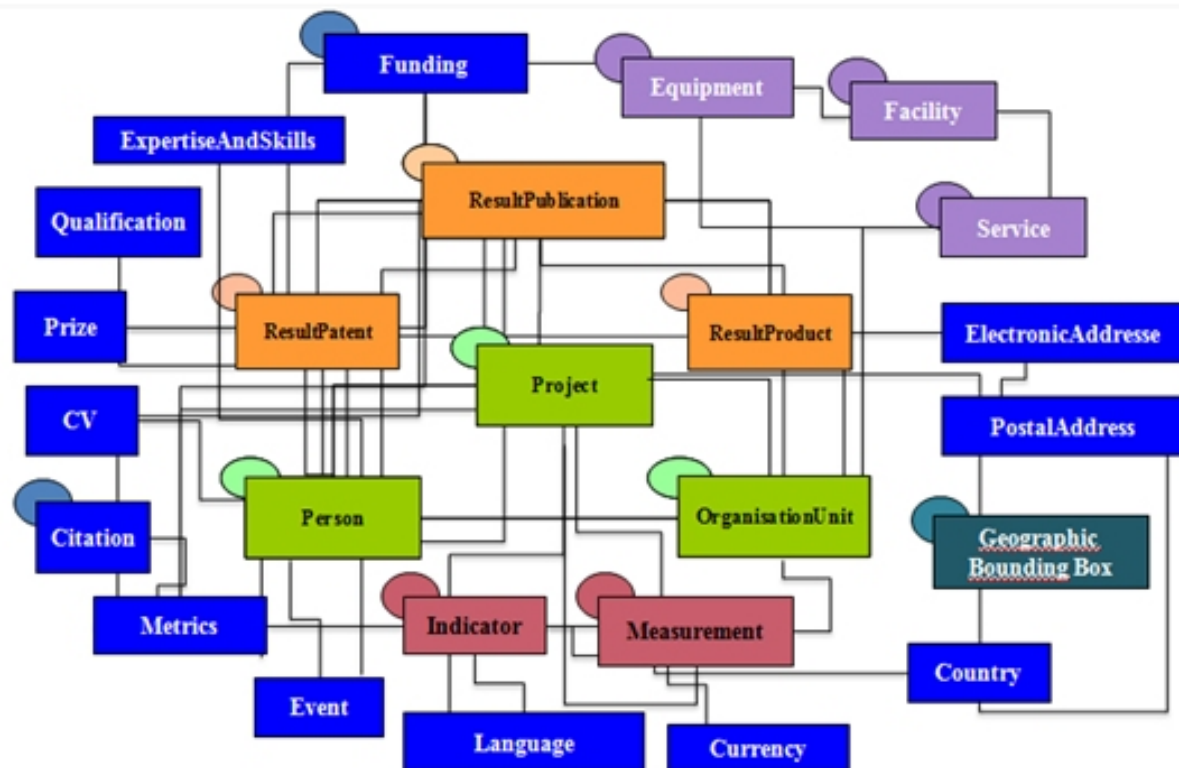
Membership
meetings

Webinars

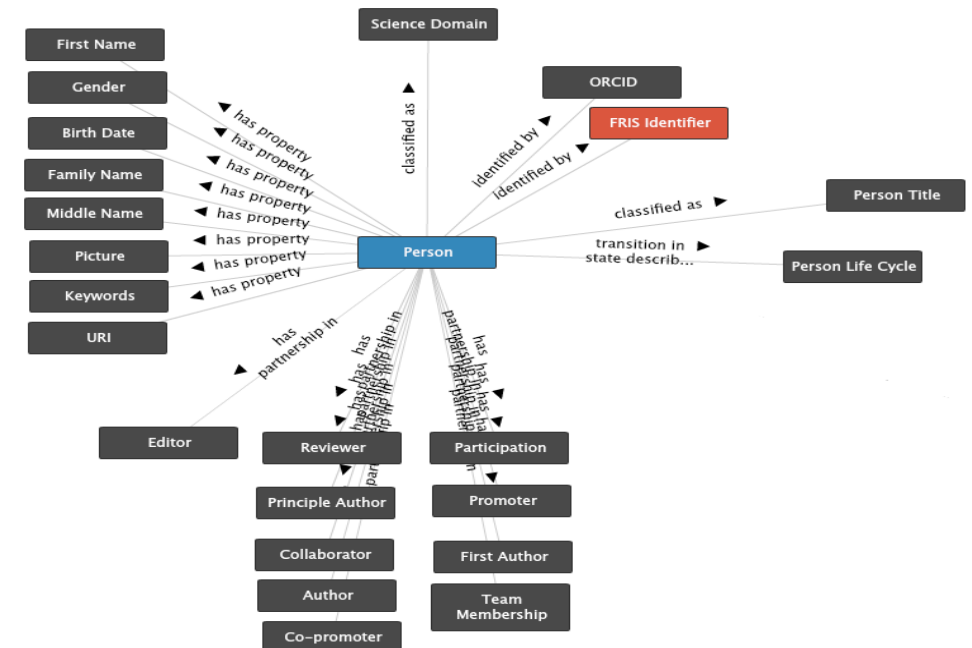
CERIF (<https://www.eurocris.org/services/main-features-cerif>)

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

CERIF model

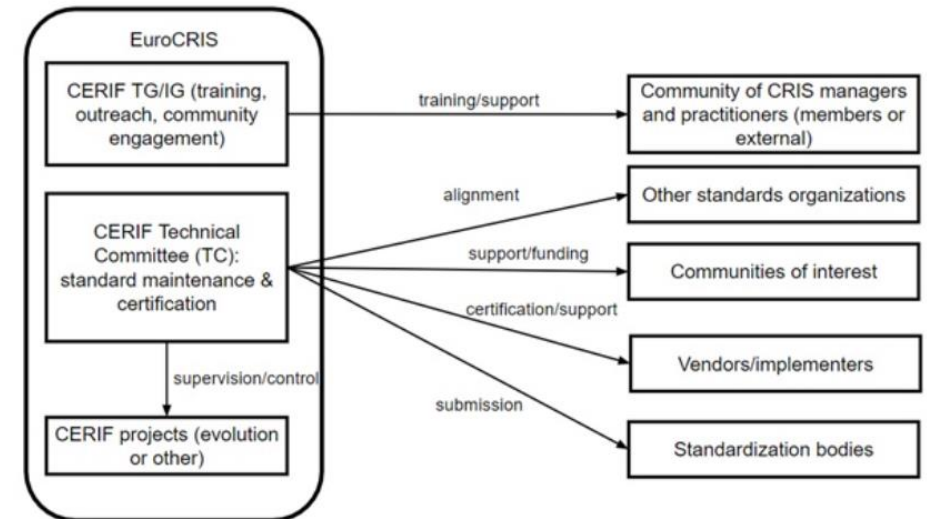


Metadata for a Person



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



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:' dropdown are also present. The main content area welcomes users and provides a brief description of the repository's purpose and the underlying DSpace platform. Below this is a search bar with a dropdown menu showing various categories and their counts. The footer includes sections for 'Most Viewed' and 'Most Downloaded' items, along with a note about slides and session recording for a joint event.

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... All

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

Community
1693
Explore the researcher community

Activities & directories
1837
Explore entities

Research Outputs, articles, reports
Explore o

Most Viewed

Most Downloaded

Slides and session recording for Feb 11th, 2021 joint

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



Situation around Covid-19: an update

LINKING RESEARCH INFORMATION ACROSS DATA SPACES

15th International Conference on Current Research
Information Systems (CRIS2022)

Dubrovnik, Croatia

May 12-14, 2022

<https://cris2022.srce.hr/>

Regional Research Information Systems

Example:

Flanders Research Information Space (FRIS - [Researchportal.be](https://researchportal.be))

→ Virtual space collecting information on public funded research in Flanders

Goal:

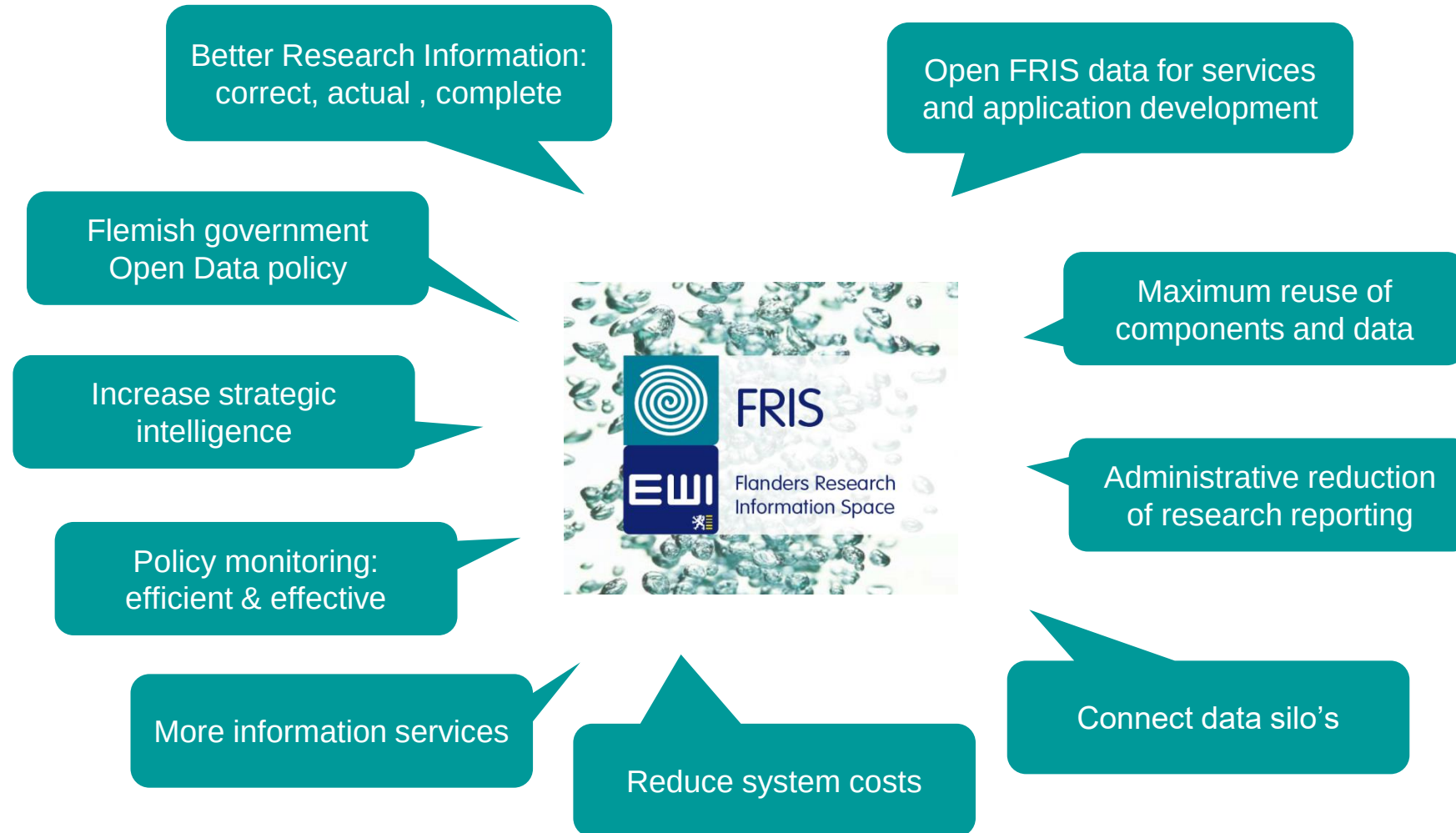
- Simple, transparent, open platform
- Government
- Researchers
- Business
- Citizens

Some history - milestones

Initiative from the Flemish Government, Department Economy, Science and Innovation,
in partnership with the Flemish research universities

- 1995: Inventory of Scientific and Technology research
 - Installation of computers at Flemish Research Coordination Offices,
funded by the Flemish Government
- 2007: Inclusion of a standard, i.e. the 'CERIF' handbook
 - FRIS 1.0

FRIS 1.0 needs & drivers



FRIS 1.0



The screenshot shows the FRIS Research Portal homepage. At the top, there is a header with the FRIS logo (a stylized 'E' and 'W' inside a circle) and the text 'FRIS Research Portal' with the tagline 'Boosting knowledge, creating prosperity'. To the right of the header are links for 'Nederlands' and 'English', and a search bar with a 'Search' button. Below the header is a navigation bar with four tabs: 'Research projects', 'Publications', 'Organisations', and 'Researchers'. The main content area is divided into three columns. The left column is titled 'Home' and contains a large heading 'In search of research ? The Flemish research portal will be your guide !'. Below this heading is a paragraph of text: 'Who is doing research on Alzheimer's disease in Flanders ? Where can I find experts on nanotechnology ? Which current projects of the Flemish universities are making inquiries about stem cells ?'. Below this paragraph is another paragraph: 'Find the answer to your questions at the FRIS (Flanders Research Information Space) research portal...'. At the bottom of the left column is a paragraph: 'You can browse through the database by using several search options : by research projects, organisations or persons.' The middle column is titled 'News Headlines' and contains two news items. The first item is 'Database about biodiversity in oceans gets international acclaim' dated 'Apr 19, 2017'. Below this item is a paragraph: 'Read more about the [Ocean Biogeographic Information System \(OBIS\)](#) of IOC-UNESCO, which is housed in Ostend (Belgium).' The second item is 'New members Young Academy of Flanders' dated 'Mar 15, 2017'. Below this item is a paragraph: 'The Young Academy of Flanders chose ten new members in 2017: 8 scientists and two artists. The inauguration takes place on March 16, 2017. [Read more](#) (Dutch only)'. The right column contains four search boxes. Each box has a title 'Search and browse in' followed by a count and a category: '29734 Research projects', '3596 Publications', '2357 Organisations', and '29264 Researchers'.

FRIS Research Portal
Boosting knowledge, creating prosperity

[Nederlands](#) [English](#)

[Help](#) [Contact](#) [About the Portal](#) [News](#)

[Search](#)

[Research projects](#) [Publications](#) [Organisations](#) [Researchers](#)

Home

In search of research ? The Flemish research portal will be your guide !

Who is doing research on Alzheimer's disease in Flanders ? Where can I find experts on nanotechnology ? Which current projects of the Flemish universities are making inquiries about stem cells ?

Find the answer to your questions at the FRIS (Flanders Research Information Space) research portal...

You can browse through the database by using several search options : by research projects, organisations or persons.

News Headlines

Database about biodiversity in oceans gets international acclaim *Apr 19, 2017*

Read more about the [Ocean Biogeographic Information System \(OBIS\)](#) of IOC-UNESCO, which is housed in Ostend (Belgium).

New members Young Academy of Flanders *Mar 15, 2017*

The Young Academy of Flanders chose ten new members in 2017: 8 scientists and two artists. The inauguration takes place on March 16, 2017. [Read more](#) (Dutch only)

Search and browse in
29734 Research projects

Search and browse in
3596 Publications

Search and browse in
2357 Organisations

Search and browse in
29264 Researchers



FRIS 1.0

- Data providers:
 - All 5 Flemish Universities
 - Financial stimulus for data delivery in bulk, 2 times/year
 - CERIF-XML
- Data & classifications:
 - Researchers —————> Science Discipline Codes
 - Organisations —————> Science Discipline Codes
 - Research projects —————> Financial Codes
- Simple technical validation rules
 - Example: Use a valid financial code

????????? Historic KU Leuven CATALYTIC CONVERSION OF BIOETHANOL INTO CHEMICAL INTERMEDIATEThe use of renewable raw materials is one of the best ways of making the chemical industry more greener and environmental friendly. In the long term, biomass will be one of the most reliable source of organic carbon based materials, of which bioethanol is the most potential candidate. Hence there has been serious research interest for the conversion of ethanol into hydrocarbons. All the presently known ethanol to hydrocarbon convers... Centre for Surface Chemistry and Catalys (C_Opp_chemie) Johan Martens Sambhu Radhakrishnan	Project	• Agricultural engineering, agricultural machines, farmhouse construction 117 • Agrochemistry 25 • Agronomics 111 • Air transport technology 4 • American languages and literatures 22 • Anaesthesiology, intensive care 67 • Analytical chemistry 503 • Ancient Greek language and literature 44 • Ancient history 88 • Animal anatomy, animal morphology 135 • Animal ecology 381 • Animal ethology and psychology 118 • Animal physiology 176 • Applied and experimental psychology 297
/ KU Leuven No English Abstract Process Engineering for Sustainable Syst (A_ProCESS) Georgios Stefanidis Christos Xiouras	Project	
/ KU Leuven No English Abstract Associated Francky C	Project	

Project IDs

Abdominal Surgical Oncology KU Leuven No English Abstract Associated Francky C Baki Topal	Research unit	
Academic Center for General Practice KU Leuven The department's research is organized within four large program-mes with significant interactions between them: development of instruments and outcome measurement, educational research, clinical e... Bert Aertgeerts	Research unit	
Academic Centre for Practical Theology KU Leuven Didier Pollefeyt	Administrative unit	

Discipline codes within the result

- [Accounting](#) 8
- [Actuarial science](#) 2
- [Administrative law](#) 7
- [Adult education, permanent education](#)
- [Aerial, maritime and space law](#) 1
- [Aesthetics](#) 5
- [African languages and literatures](#) 1
- [Agricultural economics](#) 5
- [Agricultural engineering, agricultural machines, farmhouse construction](#) 3
- [Agrochemistry](#) 3
- [Agronomics](#) 8

Organisation IDs

ORCID
ResearcherID
ScopusID

Mohamed AABI Vrije Universiteit Brussel Computational Modelling (COMO) Informatics and Applied Informatics (DINF)	Researcher	
Manuel Aalbers KU Leuven Division of Geography (A_Geografie)	Researcher	
Manuel AALBERS Vrije Universiteit Brussel Cosmopolis Centre for Urban Research (COSM) Geography (DGGF)	Researcher	

Science domains within the result

- [Applied biological sciences, biotechnology](#) 105
- [Architecture, town and country planning](#) 125
- [Biology](#) 693
- [Biomedical sciences \(incl. biochemistry\)](#) 667
- [Chemical engineering and applied chemistry](#) 55



FRIS 2.0 Needs & drivers

- Correct, actual, complete research information
 - Maximum reuse of research information
 - By connecting data silo's using standards & identifiers
 - Reducing system costs
- CRIS services & applications
 - Administrative reduction of research reporting (Peters et al. 2011)
 - Increased strategic intelligence
 - Efficient & effective policy monitoring
 - More information services



The Data providers landscape

Universities



University Colleges



Strategic Research Centers



Research Institutes



Funders



Others

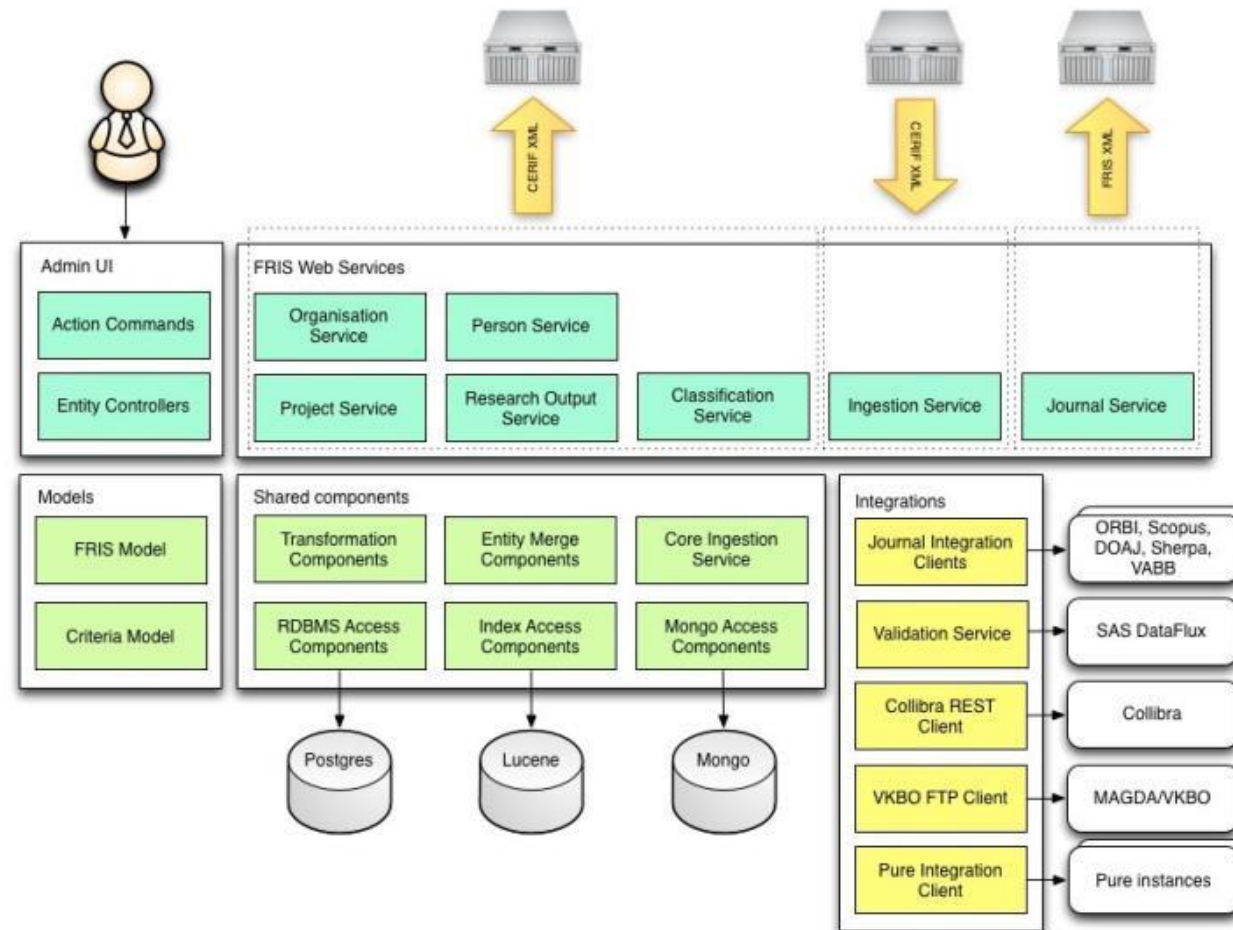


FRIS 2.0

- Real-time data delivery
- Data quality and completeness:
 - Business & technical validation rules
- Open data:
 - 6 SOAP webservices
- Data & classification governance:
 - Researchers → Science Discipline Codes
 - Organisations → Science Discipline Codes
 - Research projects → Financial Codes
 - Publications →



1 SOAP data entry webservice built on CERIF-XML



The importance of semantic interoperability

FRIS 2.0:

Not only architecture,
technology,...

... more stress on quality

Semantics of research
information and classifications
at the intra and
interorganizational level



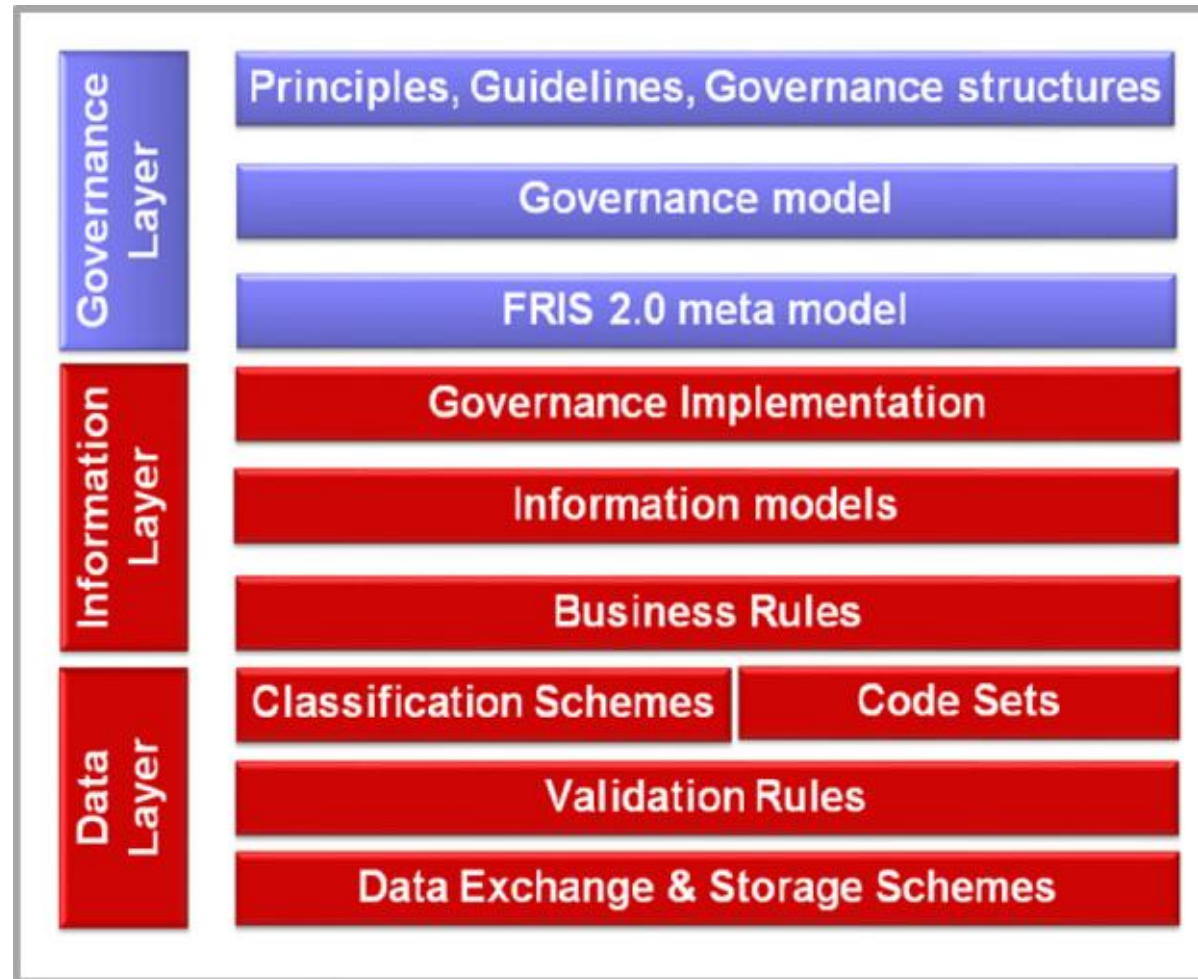
It's not about agreeing that semantics is important, it's about real commitment by everyone to implement semantics

CERIF 1.6

- Almost unlimited flexibility for modelling RI
 - Base, result, infrastructure and 2nd level entities: 293
 - Attributes for metadata and multilinguality: 1814
 - Time-stamped / classification-referenced relations: 665

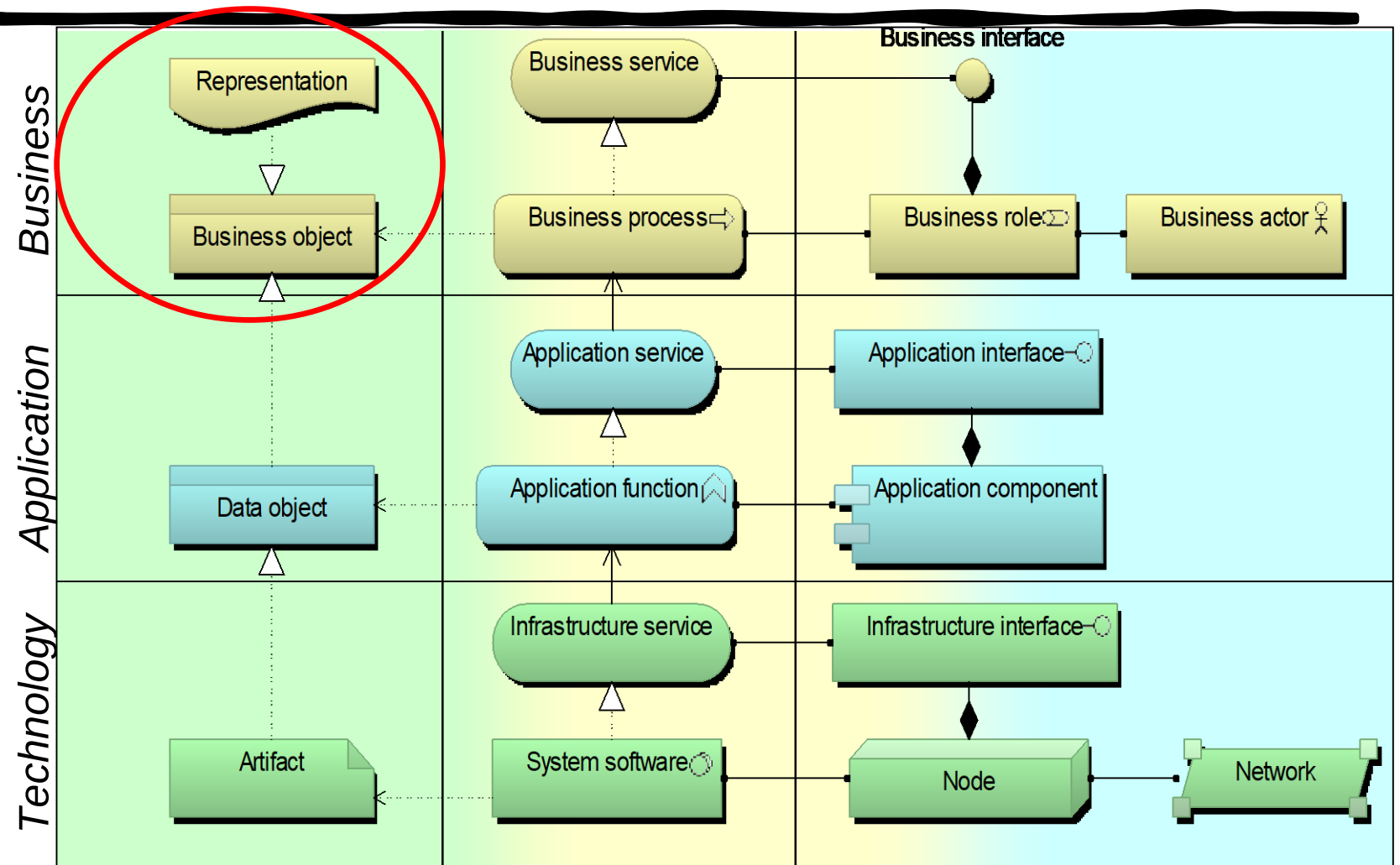


1. Installation of a governance structure: WHO?



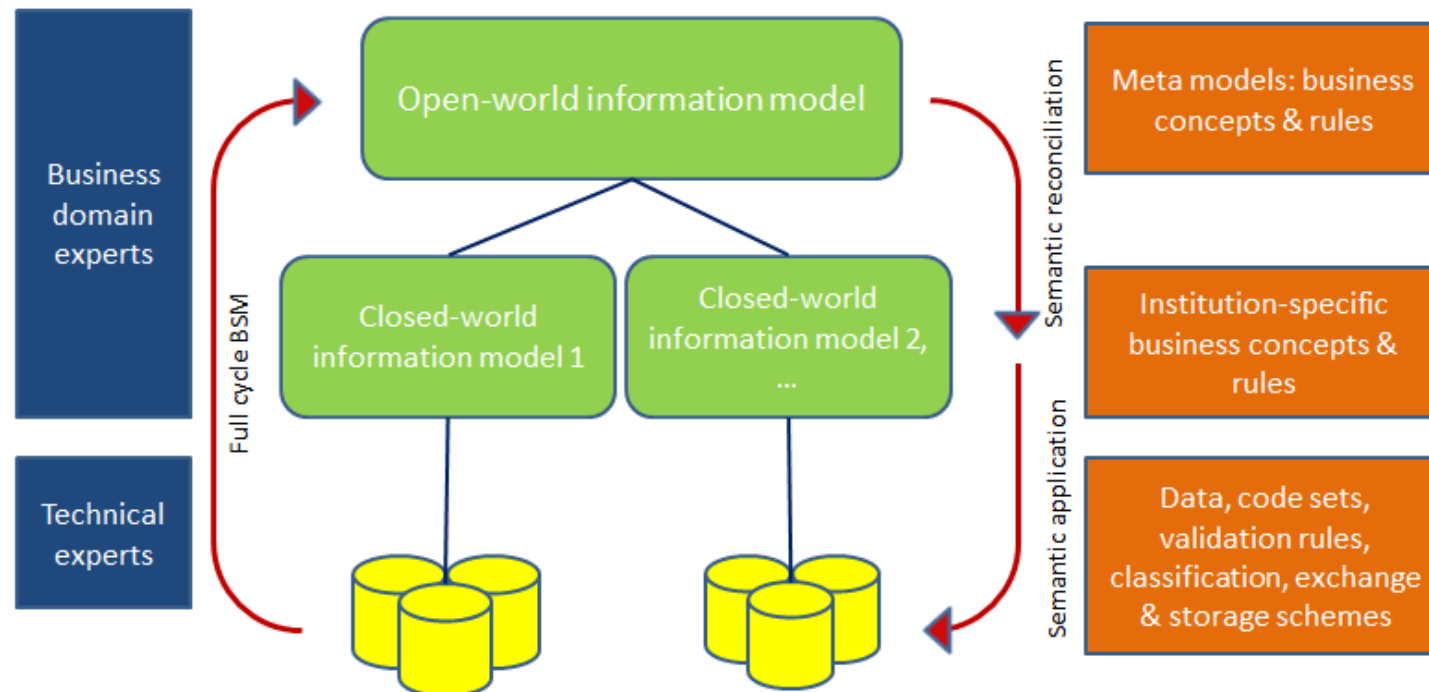
2. Creation of a business layer: WHAT?

Recording of business concepts & meanings by term. theory



3. 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





Browser

Flanders Research Information Space > In



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...

FRIS MetaModel

Book
Book chapter
Journal Article
Review Article
Journal Article
Journal Article
Journal Article
Journal Article
Journal Editorial



Research classifications

Research classification types	Code schemes
• Organizations • Persons • Grants/scholarship • Projects • Data • Publications • Socio-economic impact • Patents • ...	- Discipline, accounting - Discipline, financial - Financial, accounting - Financial, discipline, accounting - Data type - Publication type - Socio-economic - Technology



Research classifications

- Use purposes:
 - Structured information retrieval
 - Reports
 - Statistics
 - Strategic decisions
 - Visibility
 - Websites

Both at the aggregated level as on the level of an individual



Find research...

 Search(426764)
All results(75262)
Researchers(2047)
Organisations(29635)
Projects(319820)
Publications

Find expertise

FRIS Research portal



Your window to research in Flanders

This preview version of the FRIS (Flanders Research Information Space) Research portal lets you try and test our first release and provide feedback to help us make it even better.

The FRIS Research portal brings a host of new features and changes, including a new search functionality that can be triggered from each page on our web-site, and an [expertfinder](#) where you can browse through a list of classifications to find an expert in your domain.

All information that you'll find was gathered through a direct integration with the systems of the [scientific institutions](#) in Flanders and we are proud to present their information on not only researchers, research groups and publicly funded projects, but also publications from 2008 onwards.

For a comprehensive look at our new search functionality so far, you may want to check out the [search requirements](#).

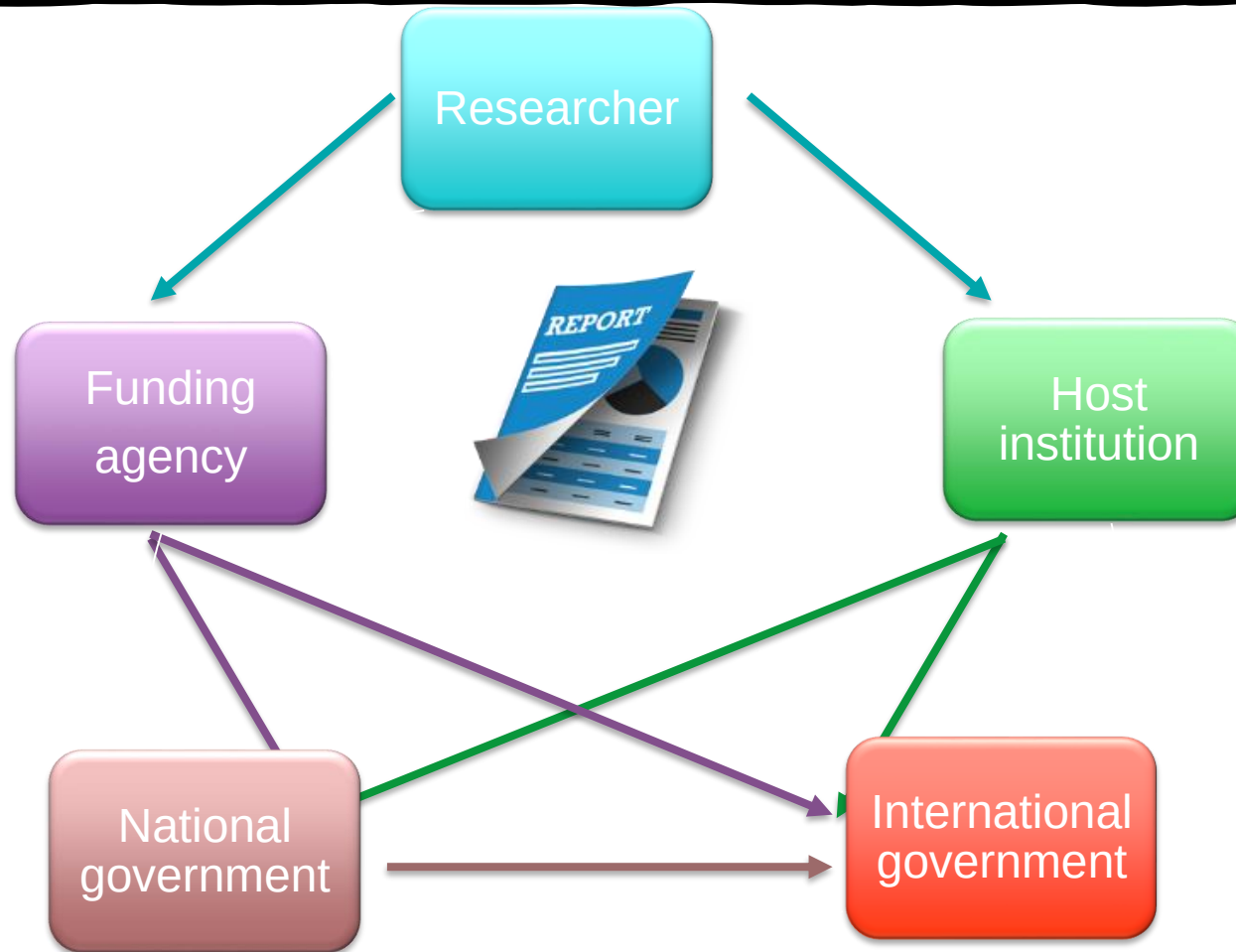
As a researcher at one of our Flemish institutions you can take part in shaping the portal by test-driving this release version and letting us know what you find. If and when you encounter an issue with regards to your projects or publications that needs addressing, report it to your institution directly by using our [form](#).

FRIS 3.0

- Reporting on public research funding
 - Legal framework
 - BOF (art.68) - approved on May 3, 2019
 - IOF (art. 20/1) - approved on May 24, 2019
 - Information objects/metadata to be included in FRIS
 - Reporting on public research funding
 - Indicators & conditions
 - Deadline: December 31, 2021
 - Cave: Data should comply as of January 1, 2019



Administrative reduction of research reporting



Peters et al. 2011. De vereenvoudiging van onderzoeksverslaggeving, een analysetraject uitgevoerd door de Vlaamse universiteiten en hogescholen en de VLIR, in opdracht van de Vlaamse Overheid (EWI).

FRIS 3.0



- Metadata: linking and extending existing objects
- New research information objects

FRIS 3.0

- Data providers:
 - All 5 Flemish Universities
 - No financial stimulus of the Flemish government
 - Legal obligation to report via FRIS on BOF and IOF funds
 - Some smaller research institutes
 - PURE platform offered via continuous governmental funding
 - By 2024 all 4 strategic research centres
 - As stated in Agreement between Government and strategic research centres
 - By 2021 all university colleges
 - Using a common platform (not yet defined) via governmental funding program



FRIS 3.0

Starting from legal obligations...

... assessing current quality of FRIS-information

... improvement roadmaps

... individual trajects, yet working together

... to ensure semantic interoperability

... uniform research reports



FRIS 3.0

2a. BESTEDINGEN in jaar t (in EUR)	bedrag
Onderzoeksprogramma's:	
1 BOF-opvangbeurzen voor doctorandi	
2 BOF-doctorale mandaten	
3 BOF-beurzen voor dubbeldoctoraten	
4 BOF-opvangbeurzen voor postdocs	
5 BOF-postdoctorale mandaten	
6 BOF-startkrediet ZAP	
7 BOF-tenure track	
8 BOF-ZAP BOF mandaten	
9 BOF-Methusalem	
10 BOF-nieuwe initiatieven	
11 BOF- projecten	
12 BOF-interuniversitair samenwerkingsprogramma - type 3	
13 BOF-onderzoeksexcellentiecentra	
14 BOF-Internationale wetenschappelijke samenwerkingsprojecten	
15 BOF-wetenschappelijk apparatuurprogramma	
16 BOF-kort verblijf buitenland	
17 BOF-lang verblijf buitenland	
18 BOF-sabbatical leave	
19 Totaal toegekend voor onderzoeksprogramma's (som van 17 t.e.m. 34)	berekend
20 Andere bestedingen (prijzen etc.)	
21 Overhead	

2b. BESTEDINGEN van de toekenningen in jaar t (in EUR)	toek	begrotingsjaar t	jaar t+1	jaar t+2	jaar t+3	jaar t+4	jaar t+5	jaar t+6	jaar t+7	besteding jaar t+8	besteding jaar t+9	besteding jaar t+10
Onderzoeksprogramma's:												
1 BOF-opvangbeurzen voor doctorandi	uit tab 1c											
2 BOF-doctorale mandaten	uit tab 1c											
3 BOF-beurzen voor dubbeldoctoraten	uit tab 1c											
4 BOF-opvangbeurzen voor postdocs	uit tab 1c											
5 BOF-postdoctorale mandaten	uit tab 1c											
6 BOF-startkrediet ZAP	uit tab 1c											
7 BOF-tenure track	uit tab 1c											
8 BOF-ZAP BOF mandaten	uit tab 1c											
9 BOF-Methusalem	uit tab 1c		0%	0%	22%	48%	64%	88%	95%	98%		
10 BOF-nieuwe initiatieven	uit tab 1c											
11 BOF- overige projecten	uit tab 1c											
12 BOF-interuniversitair samenwerkingsprogramma - type 3	uit tab 1c											
13 BOF-onderzoeksexcellentiecentra	uit tab 1c											
14 BOF-Internationale wetenschappelijke samenwerkingsprojecten	uit tab 1c											
15 BOF-wetenschappelijk apparatuurprogramma	uit tab 1c											
16 BOF-kort verblijf buitenland	uit tab 1c											
17 BOF-lang verblijf buitenland	uit tab 1c											
18 BOF-sabbatical leave	uit tab 1c											
19 Totaal besteed in onderzoeksprogramma's (som van 1 t.e.m. 18)	berekend	berekend	berekend	berekend	berekend	berekend	berekend	berekend	berekend	berekend	berekend	berekend

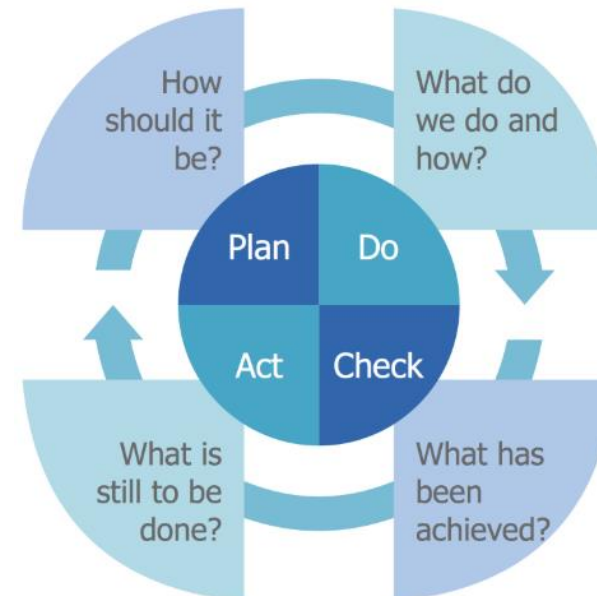


Research classification as tool

- Implementation by all stakeholders
 - Data governance center
 - FRIS SOAP-services: CERIF-XML, change services
- Reporting by aggregating existing information in CRIS
 - Ex.: expenditure international scientific cooperation in biological sciences
- Revision of existing information objects:
 - Projects: funding codes
 - Researcher: nationality? MSc certificate?
 - Organization: legal address? Physical partner address?
 - Associated publications, data, patents, research infrastructure

Research classification as tool

- Reporting via FRIS
 - Year: grant start year, budget year, year of approval?
 - Budget: awarded, budgeted (which procedure), spent (which end date)
- Further improvements:
 - Information model
 - Data governance
- Quality assurance





(623359)
All results



(41310)
Researchers



(1956)
Organisations



(50388)
Projects



(528146)
Publications



(1397)
Patents



(27)
Infrastructure



(135)
Datasets



Find expertise

New at FRIS: patents, infrastructure and datasets

As you can see above, the FRIS Research portal has been expanded with additional information about patents, infrastructure and datasets. Beside information about almost 1400 patents, you can also find limited information about infrastructure and datasets. The amount of information will of course grow systematically in the future, so that this will offer a more complete view of the Flemish research landscape. We wish you a good surfing experience!



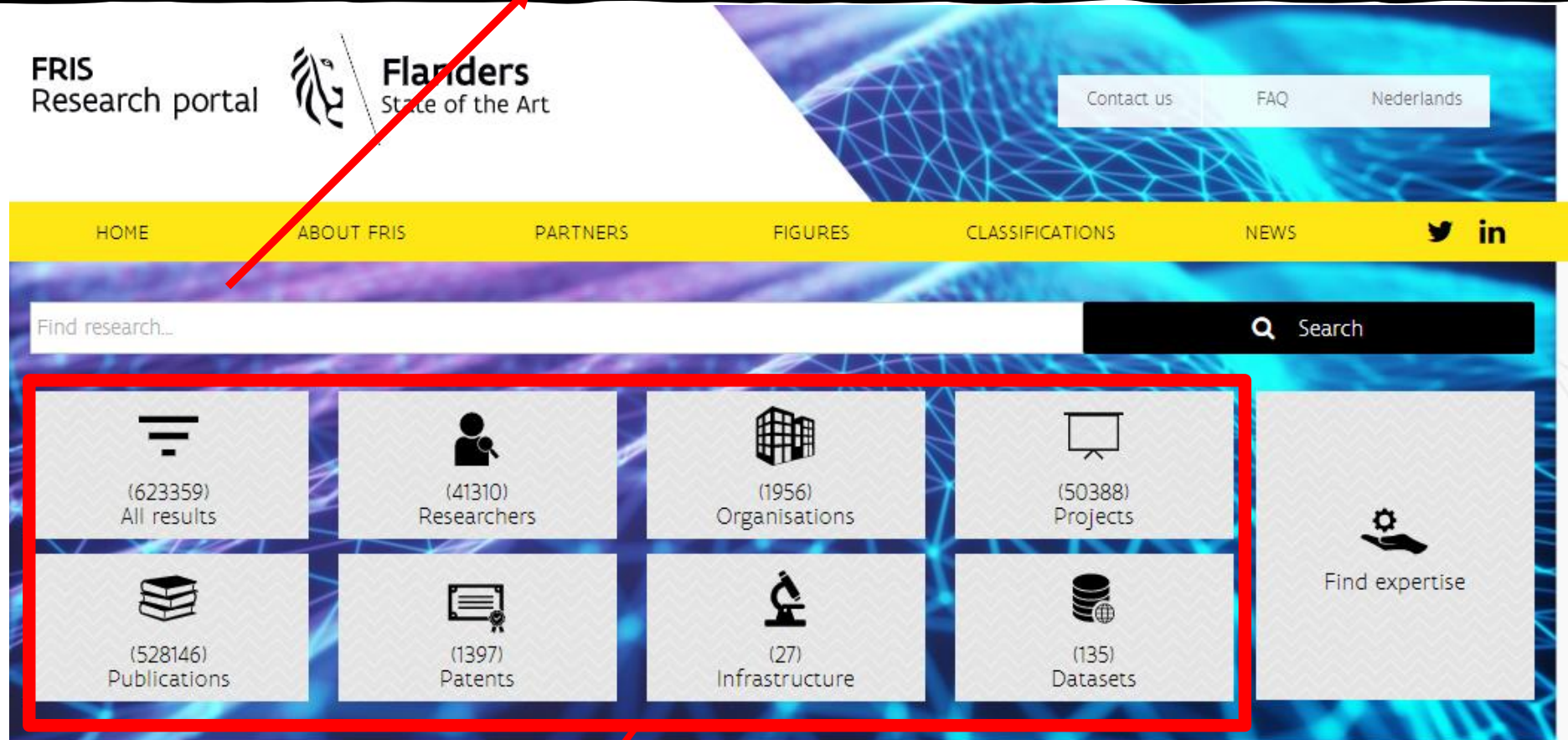
FRIS research portal: a tool to help researchers...

- ... get to know the output of the research topics they plan to pursue
- ...identify funding opportunities
- ...find an expert (identify collaborators & competition)
- ..identify resources (infrastructure & datasets)



How to search in FRIS?

1) Via search term in the search bar



2) Search all results or a specific type of information

Refine search results
via filters

Researchers

DOWNLOAD RESULT

Chosen filters: current

1 - 10 of 41310 results
Sorteren op: Name / Relevance
10 Items per page

1 2 3 4 5 ... Next › Last »

Bendik Hellem Aaby KU Leuven
Centre for Logic and Philosophy of Science

Tania Love Aaes Ghent University
Department of Biomedical molecular biology

Manuel Aalbers Vrije Universiteit Brussel
Geography

Manuel Aalbers KU Leuven
Geography and Tourism

Chris Aalberts University of Antwerp
Political Communication Research Unit

Jeffrey Aalders Ghent University
Department of Human Structure and Repair

Aaltje Berendina Aaten KU Leuven
Architecture Sint-Lucas Brussels and Ghent Campuses

Yasmina Abakkouy KU Leuven
Laboratory for Complex Genetics

Artem Abakumov University of Antwerp
Electron microscopy for materials research (EMAT)

Sergey Abakumov KU Leuven
Molecular Imaging and Photonics

1 2 3 4 5 ... Next › Last »

State

☒ current (41310)
☐ former (48255)

Knowledge institution

☐ Alamyre Foundation (6)
☐ Antwerp Management School (16)
☐ Antwerp Maritime Academy (2)
☐ AP University of Applied Sciences and Arts (15)
☐ Artevelde University of Applied Sciences (24)
Show more

Funding

☐ Activities of International Cooperation (9)
☐ Activity supporting strategical priorities (4) of the federal government
☐ Activity to stimulate the use of and co-operation with The Belgian Co-ordinated Collections of Micro-organisms (BCCM) (6)
Show more

Number of publications

☐ 1 - 5 (10861)
☐ 6 - 10 (4067)
☐ 11 - 20 (3612)
Show more

Disciplines

Filter disciplines...

☐ Agricultural, veterinary and food sciences (2405)
☐ Engineering and technology (8787)
☐ General and logistic services (707)
☐ Humanities and the arts (4667)
☐ Medical and health sciences (10817)
☐ Natural sciences (11998)



Filters vary depending on type of information

Organisations

State

☒ active (1956)
☐ inactive (631)

Knowledge institution

☐ Alamire Foundation (2)
☐ Antwerp Management School (2)
☐ Antwerp Maritime Academy (2)
☐ AP University of Applied Sciences and Arts (3)
☐ Artevelde University of Applied Sciences (3)

Show more

Number of projects

☐ 1 - 5 (418)
☐ 6 - 10 (114)
☐ 11 - 20 (154)

Show more

Type

☐ Administrative office (192)
☐ Department (378)
☐ Division (260)

Show more

Disciplines

Filter disciplines...

☐ Agricultural, veterinary and food (89) ⓘ sciences

☐ Engineering and technology (318) ⓘ

☐ General and logistic services (6) ⓘ

☐ Humanities and the arts (262) ⓘ

☐ Medical and health sciences (474) ⓘ

☐ Natural sciences (401) ⓘ

☐ Social sciences (530) ⓘ

DOWNLOAD RESULT

Chosen filters: active

1 - 10 of 1956 results
Sorteren op **Name** / Relevance 10 items per page

1 2 3 4 5 ... Next Last

360° Care and Well-being University College Ghent

to be added

3if.eu - Industry4.0, Industrial IoT & Industrial Internet in Flanders LSEC - Leaders In Security

Responsible: **Ulrich Seldeslachts**

Industrial Internet of Thing (IIoT), Industry4.0, big data, data analytics, machine learning, vertical & horizontal integration, robotics, agile manufacturing, lot size one, industrial cybersecurity, robotics

Abdominal Surgical Oncology KU Leuven

Responsible: **Baki Topal**

Abdominal Surgical Oncology

- Diagnostic and therapeutic animal models of liver metastasis and peritoneal carcinomatosis from colorectal cancer
- Detection of circulating cancer cells in colorectal, liver, and pancreatic cancer
- Gene-expression profiling and proteomic studies in pancreatic, liver, and biliary cancer
- Innovations in minimally invasive surgery for colorectal, liver, pancreas, and biliary cancer

Academic Center for General Practice KU Leuven

Responsible: **Bert Aertgeerts**

The department's research is organized within four large programmes with significant interactions between them: development of instruments and outcome measurement, educational research, clinical epidemiology and health care organisation research. It focusses on a broad range of clinical situations, with care for the elderly and diagnostics as its corner-stones. 1. Instrument development and outcome research Together with 11 other institutes ...

Academic Centre for Nursing and Midwifery KU Leuven

Responsible: **Koen Milisen**

- Health Care Financing - Medical technology - Nursing activities (acute care, psychiatric care) and financing
- Clinical nursing - Preference patterns for the aged - Case management in psycho-geriatric patients - Quality improvement - Economic evaluation of cancer treatment (mainly radiotherapy). - Health Care financing systems.

Academic Director of Internationalization Ghent University

Responsible: **Guido Van Huylenbroeck**



Get to know the output

The screenshot displays the EARMACON interface with the search term "diagnosing cancer". The "Publications" filter is selected, showing 1955 results. The interface includes a sidebar for "Disciplines", a main grid of filters, and a right sidebar for "Knowledge institution".

Search Results Summary:

Category	Count
All results	2805
Publications	1955
Researchers	326
Organisations	71
Projects	446
Patents	7
Infrastructure	0
Datasets	0

Disciplines:

- ☐ Agriculture & Environment (5)
 - ☐ Environmental science & technology (3)
 - ☐ Food & animal science & technology (2)
- ☐ Biology (Organismic & Supraorganismic Level) (34)
 - ☐ Microbiology (29)
 - ☐ Veterinary sciences (5)
- ☐ Biomedical Research (103)
 - ☐ Anatomy & pathology (27)
 - ☐ Biomaterials & bioengineering (7)
 - ☐ Experimental/laboratory medicine (41)
 - ☐ Pharmacology & toxicology (34)
 - ☐ Physiology (4)
- ☐ Biosciences (General, Cellular & Subcellular Biology; Genetics) (153)
 - ☐ Biochemistry/biophysics/molecular biology (44)
 - ☐ Cell biology (29)
 - ☐ Genetics & developmental biology (83)
 - ☐ Multidisciplinary biology (16)
- ☐ Chemistry (22)
 - ☐ Analytical, inorganic & nuclear chemistry (4)
 - ☐ Applied chemistry & chemical engineering (1)
 - ☐ Materials science (3)
 - ☐ Multidisciplinary chemistry (13)
 - ☐ Organic & medicinal chemistry (4)
- ☐ Clinical and Experimental Medicine (1958) (General & Internal Medicine)
 - ☐ Cardiovascular & respiratory medicine (77)
 - ☐ Endocrinology & metabolism (30)
 - ☐ General & internal medicine (178)
 - ☐ Hematology & oncology (696)
 - ☐ Immunology (28)

Type:

- ☐ Book Contribution Type (76)
 - ☐ Book Abstract Conference Contribution (26)
 - ☐ Book Chapter Conference Contribution (19)
 - ☐ Chapter (31)
- ☐ Book Type (82)
 - ☐ Book (6)
 - ☐ Dissertation (74)
 - ☐ Report (2)
- ☐ Journal Contribution Type (1797)
 - ☐ e-publication (23)
 - ☐ Journal Abstract Conference Contribution (5)
 - ☐ Journal Article (1658)
 - ☐ Journal Article Conference Contribution (26)
 - ☐ Journal Editorial (6)
 - ☐ Letter (1)
 - ☐ Review Article (78)

Year:

- ☐ 2022 (31)
- ☐ 2021 (215)
- ☐ 2020 (209)
- ☐ 2019 (223)
- ☐ 2018 (156)

[Show more](#)

Knowledge institution:

- ☐ Ghent University (386)
- ☐ Hasselt University (40)
- ☐ Institute of Tropical Medicine (21)
- ☐ KU Leuven (1144)
- ☐ University of Antwerp (320)
- ☐ UZBrussel (4)
- ☐ Vrije Universiteit Brussel (293)

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Knowledge institution

- ☐ Ghent University (386)
- ☐ Hasselt University (40)
- ☐ Institute of Tropical Medicine (21)
- ☐ KU Leuven (1144)
- ☐ University of Antwerp (320)
- ☐ UZBrussel (4)
- ☐ Vrije Universiteit Brussel (293)

Show less ^

Type

- ☐ ☒ Book Contribution Type (76)
 - ☐ Book Abstract Conference Contribution (26)
 - ☐ Book Chapter Conference Contribution (19)
 - ☐ Chapter (31)
- ☐ ☒ Book Type (82)
 - ☐ Book (6)
 - ☐ Dissertation (74)
 - ☐ Report (2)
- ☐ ☒ Journal Contribution Type (1797)
 - ☐ e-publication (23)
 - ☐ Journal Abstract Conference Contribution (5)

Chosen filters: diagnosing cancer

1 - 10 of 1955 results

Sorteren op **Publication date** / **Relevance** ▼

10 ▼

Items per page

1 2 3 4 5 ... Next > Last »

The Treasury of Images: exploring the opportunities for diagnosing and treating prostate cancer **KU Leuven**Cédric Draulans

External beam radiotherapy (EBRT) is often used to treat prostate cancer (PCa). Technological developments in radiation delivery techniques allowed increasing the dose to the entire prostate gland thereby improving treatment outcome. Unfortunately these positive results come often at the cost of increased toxicity and local recurrences are still observed, mostly at the site of the primary tumor. New strategies to further enhance local control ...

White light, autofluorescence and narrow-band imaging bronchoscopy for diagnosing airway pre-cancerous and early cancer lesions: a systematic review and meta-analysis **KU Leuven**Lieven Degypere Jun Huang

We aimed to summarize the diagnostic accuracy of white light bronchoscopy (WLB) and advanced techniques for airway pre-cancerous lesions and early cancer, such as autofluorescence bronchoscopy (AFB). AFB combined with WLB (AFB + WLB) and narrow-band imaging (NBI) bronchoscopy.

IOTA strategies for assessment of adnexal findings. Improving strategies for di-

White light, autofluorescence and narrow-band imaging bronchoscopy for diagnosing airway pre-cancerous and early cancer lesions: a systematic review and meta-analysis

KU LEUVEN

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UNPAYWALL INFORMATIE



ZOEK GELIIKAARDIGE PUBLICATIES

Q of same authors
Q about Cardiovascular & respiratory medicine

Journal Contribution - Journal Article

We aimed to summarize the diagnostic accuracy of white light bronchoscopy (WLB) and advanced techniques for airway pre-cancerous lesions and early cancer, such as autofluorescence bronchoscopy (AFB). AFB combined with WLB (AFB + WLB) and narrow-band imaging (NBI) bronchoscopy.

Journal: Journal of Thoracic Disease

ISSN: 2072-1439

Issue: 11

Volume: 8

Pages: 3205 - 3216

Publication year: 2016

Keywords: Cardiovascular & respiratory medicine

Wos Id: 000391174100077

PubMed Id: 28066600

DOI: <https://doi.org/10.21037/jtd.2016.11.61>

VABB Id: cvabb:425457

Institutional Repository URL: <https://lirias.kuleuven.be/349706>

ArticleNumber: 10.21037/jtd.2016.11.61

BOF-keylabel: yes

IOF-keylabel: yes

BOF-publication weight: 1

CSS-citation score: 1

Authors: International

Authors from: Higher Education

Accessibility: Closed

AUTHORS/PUBLISHER

- (First author)
- (Author)
- [Lieven Degrygere](#) (Author)
- [Jun Huang](#) (Author)
- (Last author)

RESEARCH UNITS

- [Laboratory of Respiratory Diseases and Thoracic Surgery \(BREATHE\)](#)
[KU Leuven](#)
- [Department of Management, Strategy and Innovation, Brussels Campus](#)
[KU Leuven](#)



Get to know the output





Knowledge institution

- ☐ Hasselt University (1)
- ☐ KU Leuven (6)

Status

- ☐ Assigned (4)
- ☐ Requested (3)

Year

- ☐ 2020 (1)
- ☐ 2019 (1)
- ☐ 2018 (1)
- ☐ 2016 (2)
- ☐ 2014 (1)

Show more ▼

Technology domains

- ☐ Analysis of biological materials (4)
- ☐ Biotechnology (3)
- ☐ Measurement (1)

Chosen filters: diagnosing cancer

1 - 7 of 7 results

Sorteren op Publication date / Relevance ▼

10 ▼

Items per page

METABOLIC MARKERS FOR DIAGNOSING OF CANCER

Hasselt University

Peter ADRIAENSENS, Kurt BAETEN, Piet STINISSEN

The present invention relates to a panel of metabolites in a body fluid sample that can be used for the diagnosis of breast, lung, colon and prostate cancer. More specifically, the invention relates to the NMR analysis of a urine or blood sample, whereby the simultaneous determination of the concentration of a panel of metabolites allows the diagnosis of breast, lung, colon or prostate cancer with a high sensitivity and specificity. In particular, the panel of metabolites comprises methyl histidine and proline.

Methods for diagnosing ovarian cancer

KU Leuven

Thaïs Baert, Jolien Ceusters, An Coosemans, Dirk Timmerman, Ben Van Calster, Ignace Vergote

The invention relates to in vitro methods of distinguishing, in a patient diagnosed with an ovarian tumour, between a benign ovarian cyst and malignant ovarian cancer, based on determining in a blood sample the amount of at least NK cells, total myeloid cells, myeloid-derived suppressor cells (MDSC), monocytic myeloid derived suppressor cells (mMDSC), and PDL1 positive monocytic myeloid derived suppressor cells (mMDSC-PDL1). The invention further relates to kits comprising reagents for the detection of NK cells, myeloid-derived suppressor cells (MDSC), monocytic myeloid derived suppressor ...

Cancer phospholipidome

KU Leuven

Muralidhararao Bagadi, Jelle Machiels, Eyra Marien, Johan Swinnen

In general, the present invention relates to identification of lipidome biomarkers for cancer analysis and it provides prognostic and predictive methods and kits for cancer diagnosis and subtyping and for diagnosing and/or predicting the evolution of a tumor and its response to lipid metabolism-targeted or other types of therapy in a subject, by making use of phospholipid (PL) profiling, wherein changes in the combined acyl chain length of intact body fluid-derived or tumor-derived phospholipid species is indicative of an elongation phenotype.



Patent

METABOLIC MARKERS FOR DIAGNOSING OF CANCER



The present invention relates to a panel of metabolites in a body fluid sample that can be used for the diagnosis of breast, lung, colon and prostate cancer. More specifically, the invention relates to the NMR analysis of a urine or blood sample, whereby the simultaneous determination of the concentration of a panel of metabolites allows the diagnosis of breast, lung, colon or prostate cancer with a high sensitivity and specificity. In particular, the panel of metabolites comprises methyl histidine and proline.

Patent Publication Number: WO2011128256

Source: WIPO

Year filing: 2011

Year approval: 2012

Year publication: 2011

Status: Requested

URI: [link to Espacenet](#)

Technology domains: Measurement, Analysis of biological materials

Validated for IOF-key: Yes

Attributed to: Association University - Colleges Limburg

INVENTORS/APPLICANTS

1 - 6 of 6

- [Hasselt University](#) (applicant)
- [Peter ADRIAENSENS](#) (inventor)
- [Kurt BAETEN](#) (inventor)
- [Kurt BAETEN](#) (inventor)
- [Pieter STINISSEN](#) (inventor)
- [Kurt BAETEN](#) (inventor)

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CONTACT

Tech Transfer Office

Universiteit Hasselt
Martelarenlaan 42
3500 Hasselt
Belgium

FIND SIMILAR PATENTS

[Q](#)about Measurement
[Q](#)about Analysis of biological
materials



Identify funding opportunities





Knowledge institution

- ☐ Ghent University (7)
- ☐ Hasselt University (20)
- ☐ KU Leuven (27)
- ☐ University of Antwerp (5)
- ☐ VIL - Flanders Innovation Cluster for Logistics (1)

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Funder

- ☐ European Commission (10)
- ☐ Flanders Innovation & Entrepreneurship (15)
- ☐ Flemish Government (18)

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Funding

Show less ▾

- ☐ Baekeland (2)
- ☐ BOF - Bilateral scientific cooperation (2)
- ☐ BOF - doctoral mandates (4)
- ☐ BOF - Doctoral projects (4)
- ☐ BOF - projects (3)
- ☐ BOF - various (3)
- ☐ Brussels Capital Region (1)
- ☐ FWO EOS (1)
- ☐ FWO fellowships (5)
- ☐ FWO research project (2)
- ☐ FWO senior postdoctoral fellowship (1)
- ☐ FWO Strategic Basic Research (SBO) (1)
- ☐ FWO Strategic Basic Research Grant (7)
- ☐ H2020 - Climate action, resource efficiency and raw materials (1)
- ☐ H2020 - European Institute of Innovation and Technology (1)

Chosen filters: Lithium batteries 🗑

1 - 10 of 70 results

Sorteren op [Start date](#) / [Relevance](#) ▾

10 ▾

Items per page

1 2 3 4 5 ... Next > Last »

Synthesis of onion structured core-multishell particles for improved lithium sulfur batteries [Hasselt University](#)[An HARDY](#)[Materials Chemistry](#), [Laboratory of Inorganic and Physical Chemistry](#)

Lithium sulfur batteries can store high amounts of energy, around 10 times as much as current commercial lithium ion batteries. However, lithium sulfur batteries suffer from a very short cycle life. This is mainly due to polysulfide intermediates which are formed at the cathode, shuttle towards the anode, leading to loss of active material. In order to prevent this, core-single shell particles of sulfur wrapped in oxide, polymer, carbon etc. ...

Solid-State lithium ion batteries for macro-and micro battery applications[Ghent University](#)[Christophe Detavernier](#)[Department of Solid State Sciences](#)

The overall objective of the Project is to build a functional 3D thin film micro battery with a solid electrolyte, which inherently represent an improvement on the current Li-ion batteries with liquid electrolytes (in terms of safety and battery performance). Additionally, new roepassingen and makes it possible concepts battery (electric vehicles, micro-systems on chip, ...). To this end, have to be developed electrolyte materials, both ...

Electrodeposition of Anode and Cathode Materials for Lithium Batteries[KU Leuven](#)[Jan Fransaer](#)[Surface and Interface Engineered Materials](#), [Molecular Design and Synthesis](#), [Centre for Surface Chemistry and Catalysis](#)

Rechargeable lithium-based batteries are mainly used in portable devices, due to their high specific energy. In the future they will also play an important role for grid-scale storage and the electrification of vehicles. In this PhD thesis, three types of batteries were investigated in the frame of three research projects. Each type of battery has certain improved properties compared to current lithium-ion batteries. In a first project, ...





Knowledge institution

- ☐ Hasselt University (2)
- ☐ KU Leuven (1)
- ☐ Vrije Universiteit Brussel (2)

Funder

- ☐ Research Foundation Flanders (5)

Funding

Show less

- ☒ Baekeland (2)
- ☐ BOF - bilateral scientific cooperation (2)
- ☐ BOF - doctoral mandates (4)
- ☐ BOF - Doctoral projects (4)
- ☐ BOF - projects (3)
- ☐ BOF - various (3)
- ☐ Brussels Capital Region (1)
- ☐ FWO EOS (1)
- ☐ FWO research project (2)
- ☐ FWO senior postdoctoral fellowship (1)
- ☐ FWO Strategic Basic Research (SBO) (1)
- ☐ FWO Strategic Basic Research Grant (7)
- ☐ H2020 - Climate action, resource efficiency and raw materials (1)
- ☐ H2020 - European Institute of Innovation and Technology (1)
- ☐ H2020 - Frontier Research (ERC) (1)
- ☐ H2020 - Leadership in enabling and industrial technologies (LEIT) (1)
- ☐ H2020 - Secure, clean and efficient energy (1)
- ☐ H2020 - Smart, green and integrated transport (3)
- ☐ Industrial enterprises (1)
- ☐ Information & Communication technologies (1)
- ☐ IOF - Industrial Research Fund (1)
- ☐ IOF - technology validation in lab (1)
- ☐ IWT - TBM (Applied Biomedical Research) (1)
- ☐ IWT - VLAIO - TETRA fund (3)
- ☐ IWT / VLAIO - VIL (Flemish Institute for

Chosen filters: [Lithium batteries](#) [FWO fellowships](#) [Remove all filters](#)

1 - 5 of 5 results

Sorteren op [Start date](#) / [Relevance](#)

10

items per page

Study of the interfacial mechanical degradation in all-solid-state lithium batteries [Vrije Universiteit Brussel](#)[Annick Hubin](#)[Materials and Chemistry](#)

Lithium-ion batteries have become a key technology in our everyday lives, and great interest has grown during the past decade towards new materials and new configurations of the cells. Solid state lithium batteries (SSBs) allow having higher energy density without compromising power and capacity, while assuring high safety at variable temperatures and good cycle stability. However during the charge and discharge of these batteries, there are ...

Enhancing lithium stripping from the solvent extraction system of tributyl phosphate and FeCl₃ using amines [KU Leuven](#)[Koen Binnemans](#)[Molecular Design and Synthesis](#)

Lithium is an essential element in lithium-ion-batteries (LIBs) for electric vehicles and portable devices. Currently, the majority of global Li₂CO₃ is produced from salt lake brines, which contain over 70% of the exploitable lithium reserves. The existing hydrometallurgical processes for the separation of lithium from the associated magnesium in brines suffer from low recovery rate and create a heavy environmental burden. The synergistic ...

Toward the understanding of solid-state electrolyte/cathode interfaces of all-solid-state lithium-ion batteries through multiscale modelling[Vrije Universiteit Brussel](#)[Mesfin Haile Mamme](#)[Materials and Chemistry](#)

The smooth societal transition towards zero carbon emission technologies, from fossil fuel to renewable energy sources only, including transition from combustion engine-power cars to electrical vehicles, requires efficient and safe energy storage technologies. Among the various battery technologies being available today, all-solid-state lithium-ion batteries (LIASSBs) have attracted considerable attention, because of their several ...

Chemical synthesis of inorganic composite solid electrolytes with enhanced ionic conductivity by interfacial Li⁺ ion diffusion [Hasselt University](#)[An HARDY](#)[Laboratory of Inorganic and Physical Chemistry](#)

The topic of the proposal at hand is the challenging chemical synthesis and understanding of solid state Li⁺ electrolytes with a high ionic conductivity, enabling the creation of full solid state electrochemical devices such as lithium ion batteries (LIB). Instead of traditional single phase Li⁺ conductors, here the focus is on inorganic composites. Preliminary literature demonstrates higher conductivity in such composite conductors than in ...



Project

Chemical synthesis of inorganic composite solid electrolytes with enhanced ionic conductivity by interfacial Li⁺ ion diffusion. (R-6406)

[→ UNHASSELT](#)

The topic of the proposal at hand is the challenging chemical synthesis and understanding of solid state Li⁺ electrolytes with a high ionic conductivity, enabling the creation of full solid state electrochemical devices such as lithium ion batteries (LIB). Instead of traditional single phase Li⁺ conductors, here the focus is on inorganic composites. Preliminary literature demonstrates higher conductivity in such composite conductors than in certain pure materials. However, there is a lack in systematic investigations, and a full fundamental understanding of how the improvement in the conductivity comes about is missing. The project will contribute to filling this knowledge gap by developing new synthesis routes for these advanced composites, studying the solid state diffusion of Li⁺ therein, and deriving guidelines for the design of composites with optimal Li⁺ conductivity. The project at hand clearly goes beyond the mainstream research of single phase solid electrolytes, which by themselves already are a hot topic at the forefront of the field. In contrast to commercially available thin film microbatteries, which apply pure inorganic thin films as electrolytes, here focus is on mostly unexplored composite bulk electrolytes. Ultimately, solid state batteries containing these new composites could replace the current wet LIB as they promise improved safety, lifetime and lower cost, which are important factors in applications such as residential storage of renewable energy.

Date: 1 Oct 2015 → 30 Sep 2017

Keywords: INORGANIC NANOMATERIALS

Disciplines: Inorganic chemistry

RESEARCHERS

- [An HARDY](#) (Promoter)
[Laboratory of Inorganic and Physical Chemistry](#)
Duration: 1 Oct 2015 → 30 Sep 2017
- [Marlies VAN BAELE](#) (Co-promoter)
[Laboratory of Inorganic and Physical Chemistry](#)
Duration: 1 Oct 2015 → 30 Sep 2017

PROJECT PARTNERS

- [Laboratory of Inorganic and Physical Chemistry](#)
Contractor
From 1 Oct 2015 → 30 Sep 2017
[Hasselt University](#)

FUNDING

1 - 1 of 1 results

- **Funding:** FWO fellowships (Principal funding)
Funding party: Research Foundation Flanders
Policy level funding: Flemish

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ZOEK GELIJKAARDIGE PROJECTEN

[Q](#)about INORGANIC NANOMATERIALS

[Q](#)about Inorganic chemistry

[Q](#)about INORGANIC NANOMATERIALS with funder Research Foundation Flanders

[Q](#)about Inorganic chemistry with funder Research Foundation Flanders



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All results

(2302)
Researchers

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(2521)
Projects

Find expertise

(16173)
Publications

(64)
Patents

(0)
Infrastructure

(14)
Datasets

Knowledge institution

Show less ▾

- ☒ Hasselt University (105)
- ☐ Alamire Foundation (2)
- ☐ Antwerp Management School (2)
- ☐ Antwerp Maritime Academy (2)
- ☐ AP University of Applied Sciences and (3)

Type

- ☒ Research group (1)
- ☐ Faculty (1)
- ☐ University (1)

Disciplines

Filter disciplines...

- ☐ Engineering and technology (15) [i](#)
- ☐ Humanities and the arts (3) [i](#)
- ☐ Medical and health sciences (13) [i](#)
- ☒ Natural sciences (20) [i](#)
 - ☐ Biological sciences (4) [i](#)
 - ☒ Chemical sciences (1) [i](#)
 - ☐ Analytical chemistry (1) [i](#)
 - ☒ Inorganic chemistry (1) [i](#)
 - ☐ Macromolecular and materials chemistry (1) [i](#)
 - ☐ Organic chemistry (1) [i](#)
 - ☐ Sustainable chemistry (1) [i](#)
 - ☐ Earth sciences (1) [i](#)
 - ☐ Environmental sciences (3) [i](#)
 - ☐ Information and computing sciences (9) [i](#)
 - ☐ Mathematical sciences (5) [i](#)
 - ☐ Physical sciences (4) [i](#)
 - ☐ Social sciences (16) [i](#)



Chosen filters:

Inorganic chemistry 

Hasselt University 

Research group 

active 

Remove all filters

1 - 1 of 1 result

Sorteren op **Name** / **Relevance** ▼

10 ▼

Items per page

Materials Chemistry Hasselt University

Responsible: Peter ADRIAENSENS

The research group "Materials Chemistry" (MATCHEM) focuses on the synthesis, characterization and application of advanced functional materials. The group encompasses several expertise groups with specific and complementary expertise, closely collaborating and operating within the spearhead research domains of the Institute for Materials Research (IMO) of Hasselt University. The group is also linked to the IMEC associated laboratory 'IMOMECE'. ...



Research Group

Main organisation: [Chemistry](#)

Lifecycle: 1 Jan 2020 → Today

Organisation profile:

The research group "Materials Chemistry" (MATCHEM) focuses on the synthesis, characterization and application of advanced functional materials. The group encompasses several expertise groups with specific and complementary expertise, closely collaborating and operating within the spearhead research domains of the Institute for Materials Research (IMO) of Hasselt University. The group is also linked to the IMEC associated laboratory "IMOMEC". Main activities focus on

1. new materials for energy generation and energy storage;
2. life sciences materials;
3. materials obtained from waste recycling.

CURRENT RESEARCHERS

- [Peter ADRIAENSENS](#) (Responsible)
- [Peter ADRIAENSENS](#) (Member)
- [Mariana ARREGUIN CAMPOS](#) (Member)
- [Omar BECKERS](#) (Member)
- [Naomi BILLIET](#) (Member)
- [Dries BLEUS](#) (Member)
- [Raheed BOLIA](#) (Member)
- [Sonny BREBELS](#) (Member)
- [Daria BUROVA](#) (Member)
- [Pascal BUSKENS](#) (Member)

PROJECTS

1 - 10 of 99

- [The role of algal organic matter in microalgae biomass harvesting: a multi-scale study](#)
From 1 Jan 2022 → Today
Funding: Other resources managed by FWO
- [Understanding Electronic – Ionic Interactions for High-Performance and Stable Organic Electrochemical Transistors](#)
From 1 Jan 2022 → Today
Funding: Other resources managed by FWO
- [Mastering metal-PHOSphonate properties in PORE-size engineered catalysts for bio-refinery processes](#)
From 1 Jan 2022 → Today
Funding: FWO EOS
- [REVERSIGEL: REVERSibly crosslinked hydroGELS for effective cardiac stem cell delivery](#)
From 1 Nov 2021 → Today
Funding: FWO Strategic Basic Research Grant

PUBLICATIONS

1 - 10 of 135

- [Synthesis and Characterization of Perovskite Materials with Self-Organizing Organic Cations for Stable Optoelectronic Applications](#). (2022)
Authors: [Martijn MERTENS](#), [Dirk VANDERZANDE](#)
Number of pages: 249
- [Characterisation of Two Wood-Waste and Coffee Bean Husk Biochars for the Removal of Micropollutants from Water](#). (2022)
Authors: [Thessa VAN LIMBERGEN](#), [Inez Roegiers](#), [Robin BONNE](#), [Federica Mare](#), [Tom HAELDERMANS](#), [Bjorn JOOS](#), [Olivier NOUWEN](#), [Jean MANCA](#), [Jaak VANGRONSVELD](#), [Sofie THIJS](#)
- [Introducing functionality in 2D hybrid perovskites: Structure formation, optoelectronic properties, and stability](#). (2022)
Authors: [Paul-Henry DENIS](#), [Dirk VANDERZANDE](#)
Number of pages: 244
- [Comparing the Performance of Supported Ru Nanocatalysts Prepared by Chemical Reduction of RuCl₃ and Thermal Decomposition of Ru₃\(CO\)₁₂ in the Sunlight-Powered Sabatier Reaction](#). (2022)

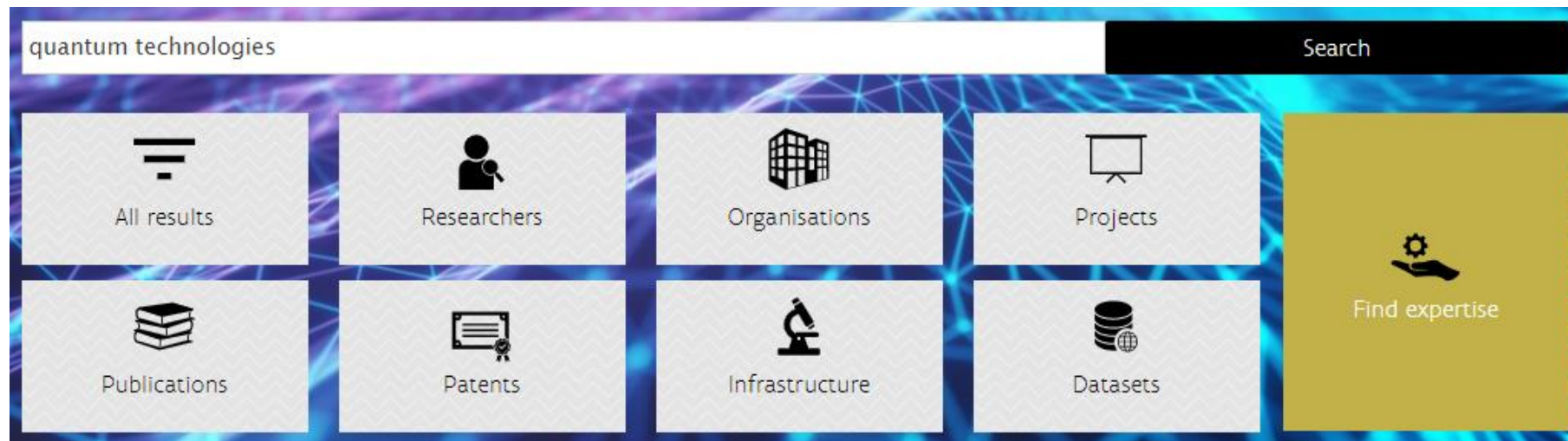
[energy storage](#)

Identify experts (collaborators & competition)



Search for researchers
OR organisation

Search for researcher
AND organisation



Identify experts (collaborators & competition)

Find expertise

I'm looking for ...

☐ Organisation (36)

☐ Researcher (207)

Disciplines

Filter disciplines...

- ☐ ☒ Agricultural, veterinary and food sciences (6)
- ☐ ☒ Agriculture, forestry, fisheries and allied sciences (6)
- ☐ Agricultural animal production (3)
- ☐ Agriculture, land and farm management (3)
- ☐ ☒ Biotechnology for agriculture, forestry, fisheries and allied sciences (4)
- ☐ Biotechnology for agricultural, forestry, fisheries and allied sciences not elsewhere classified (1)
- ☐ Fisheries sciences (3)
- ☐ ☒ Food sciences and (bio)technology (5)
- ☐ Food sensory sciences (1)
- ☐ ☒ Other agricultural, veterinary and food sciences (1)
- ☐ ☒ Other agricultural, veterinary and food sciences (1)
- ☐ Agricultural, veterinary and food sciences not elsewhere classified (1)
- ☐ ☒ Engineering and technology (168)
- ☐ ☒ (Bio)chemical engineering (14)
- ☐ ☒ Catalysis and reacting systems engineering (6)
- ☐ Heterogeneous catalysis (5)
- ☐ Homogeneous catalysis (1)
- ☐ Reacting systems (1)

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Chosen filters: quantum technologies

1 - 10 of 243 results

Sort by Name / Relevance

10 Items per page

1 2 3 4 5 ... Next >> Last >>

Department of Analytical Chemistry, Applied Chemometrics and Molecular Modelling

Vrije Universiteit Brussel

he department of Analytical Chemistry, Applied Chemometrics and Molecular Modelling (FABI) is part of the Pharmaceutical Institute of the Faculty of Medicine and Pharmacy of the Vrije Universiteit Brussel. It is located in building G, ground floor of the Brussels Health Campus (campus Jette (see location)) of the university.

The main research topics are situated in separation science, chemometrics and molecular modelling.

...

Marian Deblonde **University of Antwerp**

Frieda Steurs **KU Leuven**

Quantitative Lexicology and Variational Linguistics (QLVL), Antwerp Campus

Isabel Taverniers

Research Institute for Agriculture, Fisheries and Food

Technology and Food Science



Identify resources (infrastructure & datasets)



Datasets

DOWNLOAD
RESULT



Knowledge institution

☐ Hasselt University (2)

Accessibility

☐ Open Access (2)

Year

☐ 2021 (1)

☐ 2020 (1)

Chosen filters: COVID-19

1 - 2 of 2 results

Sorteren op **Relevance** ▼ / **Publication year**

10 ▼

Items per page

Synthetic population data for Belgium for STRIDE Hasselt University

Lander WILLEM, Pieter LIBIN

This repository contains population files with 11 million individuals for Belgium we used to explore the impact of contact tracing and household bubbles on Belgian deconfinement strategies after the COVID-19 related lockdown in 2020 (Willem et al 2021) and universal testing strategies for COVID-19 mitigation (Libin et al 2021). We created census-based synthetic populations for Belgium consisting of individuals that are part of "contact pools", representing a household, school-class, workplace, or community. References: Willem L, Abrams S, Libin JK P, Petrof O, Coletti P, Kuylen E, Møgelmoose ...

CoMix social contact data (Belgium) Hasselt University

Pietro COLETTI, James WAMBUA, Lander WILLEM, Sarah VERCRUYSSSE, Niel HENS

CoMix social contact data for Belgium, collected within the EpiPose project.



FRIS & research reporting

- Financial reporting: Special research fund/Industrial research fund
 - FRIS included in W&I decree
 - Reporting semi-automatically via information in FRIS
 - Financial information only back-end in FRIS
 - Harmonisation between data providers

- Open Science: policy formation & monitoring
 - Open Science Roadmap: 5 KPI's measured by FRIS
 - ORCID
 - Open Access
 - Open Data
 - DMP
 - *(FAIR data)*

→ Administrative simplification of reporting!



FRIS & strategic data analytics

- Open and reusable data: FRIS web services



- Classifications & labelling
 - Research disciplines (Flemish Research Discipline Standard)
 - Funding programmes
 - Funder
 - Technology domains
 - ...

FRIS: researchers in Flanders

FRIS Research portal  Flanders State of the Art

Contact us FAQ Nederlands

HOME ABOUT FRIS PARTNERS FIGURES CLASSIFICATIONS NEWS  

Find research...  Search

(623359) All results (41310) Researchers (1956) Organisations (50388) Projects (528146) Publications (1397) Patents (27) Infrastructure (135) Datasets Find expertise

Researchers  

State

☒ current (41310) ☐ former (48255)

Knowledge institution

☐ Alamire Foundation (6) ☐ Antwerp Management School (16) ☐ Antwerp Maritime Academy (2) ☐ AP University of Applied Sciences and Arts (5) ☐ Artevelde University of Applied Sciences (24) [Show more](#)

Chosen filters: 

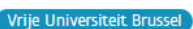
1 - 10 of 41310 results

Sorteren op Name / Relevance 10 Items per page

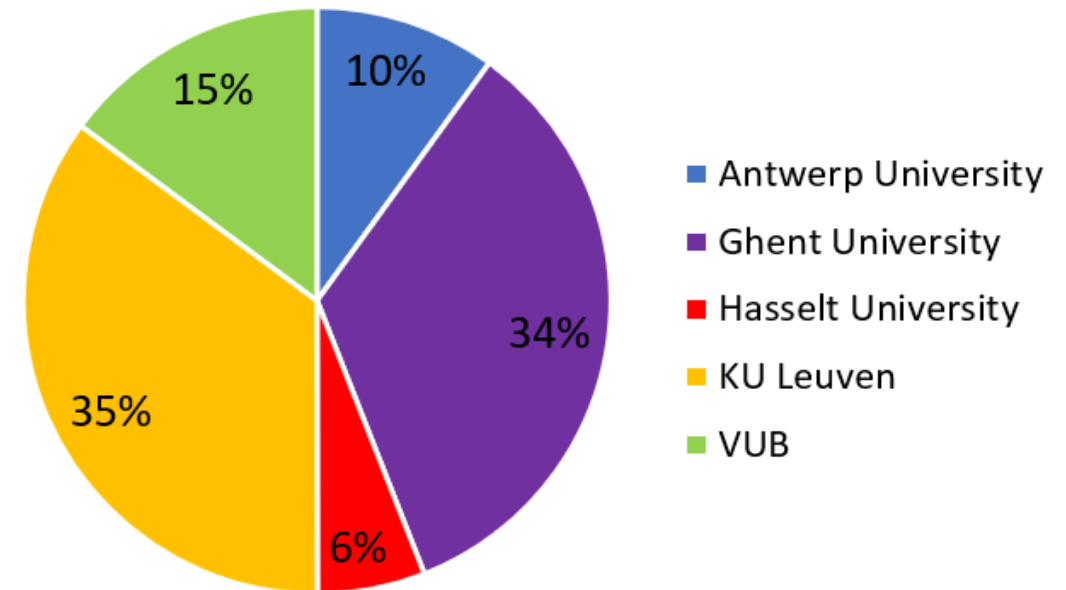
1 2 3 4 5 ... Next > Last >>

Bendik Hellem Aaby 
Centre for Logic and Philosophy of Science

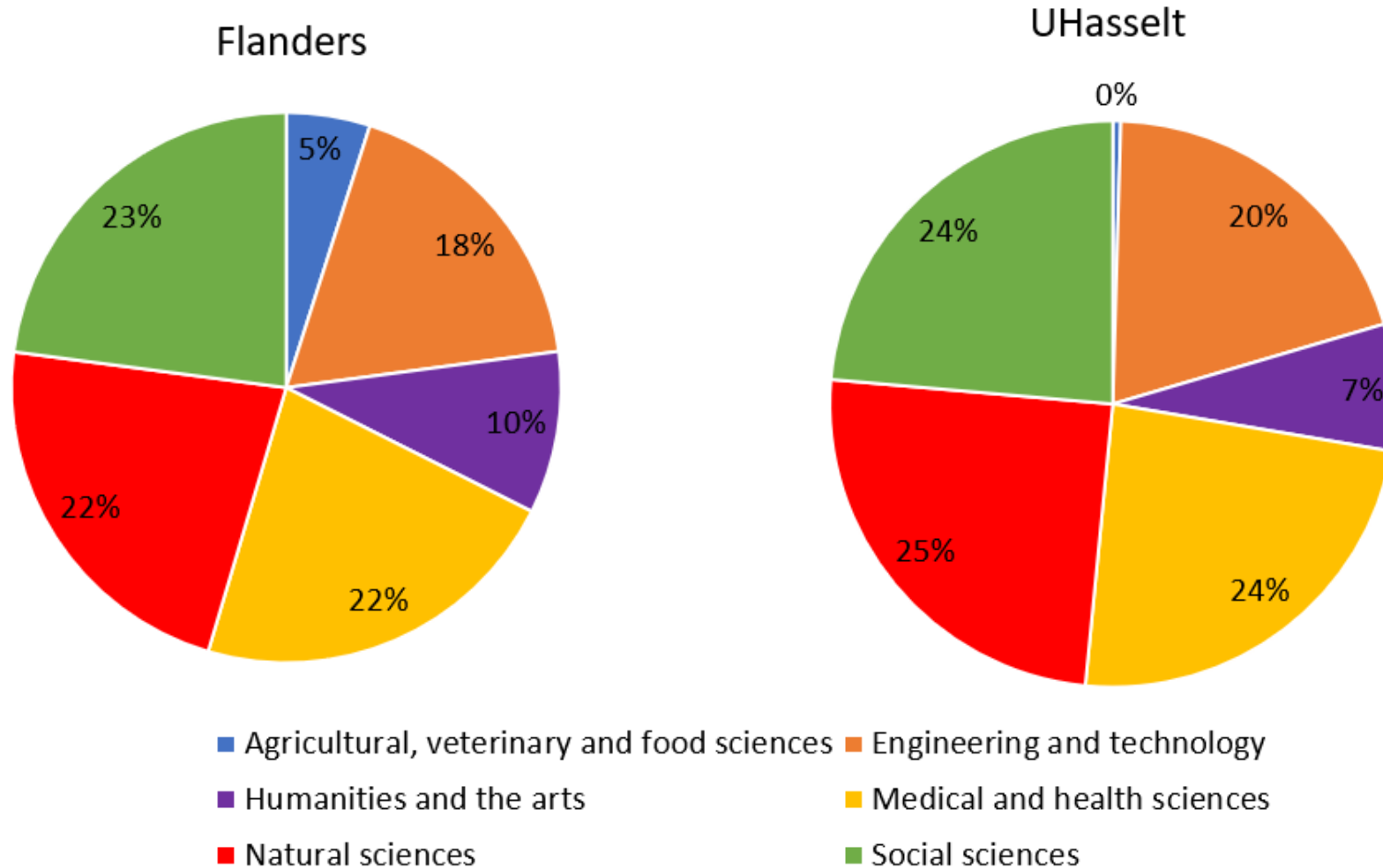
Tania Love Aaes 
Department of Biomedical molecular biology

Manuel Aalbers 

Researchers per university



FRIS: researchers benchmark



FRIS: publications in Flanders

FRIS Research portal | Flanders State of the Art

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Find research... Search

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(1956) Organisations
(50388) Projects
(528146) Publications
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(135) Datasets
Find expertise

Publications

DOWNLOAD RESULT

10 of 528146 results
Sorteren op: Publication date / Relevance

1 2 3 4 5 ... Next > Last >>

Dialect lexicography Ghent University
Jacques Van Keymeulen

The persuasive potential of metaphor when framing Mexican migrants and migration : a comparative study of the US written press Ghent University
Laurence De Backer Renata Engbels

Gillaume de Saint-Thierry. Sur L'observance Bénédictine Ghent University
Steven Vanderputten Laurence Mellerin Patrick Demouy Johan Bellen

Biographies of Rsabha and the rise of Satrunjaya Ghent University
Rita De Maessene

Knowledge institution

- ☐ Alchimie Foundation (132)
- ☐ Antwerp Management School (15)
- ☐ Centre for Applied Research and Extension in Potatoes (1)
- ☐ Departement of spatial development, environment, energy, climate, green economy, animal welfare (576)
- ☐ Department of Economy, Science and Innovation (1)

Show more

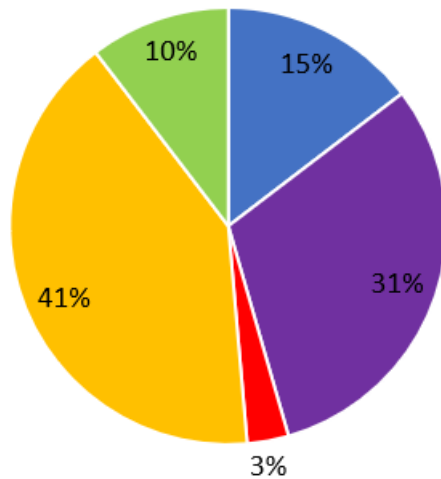
Type

- ☐ Book Contribution Type (135688)
- ☐ Book Type (45073)
- ☐ Journal Contribution Type (347274)



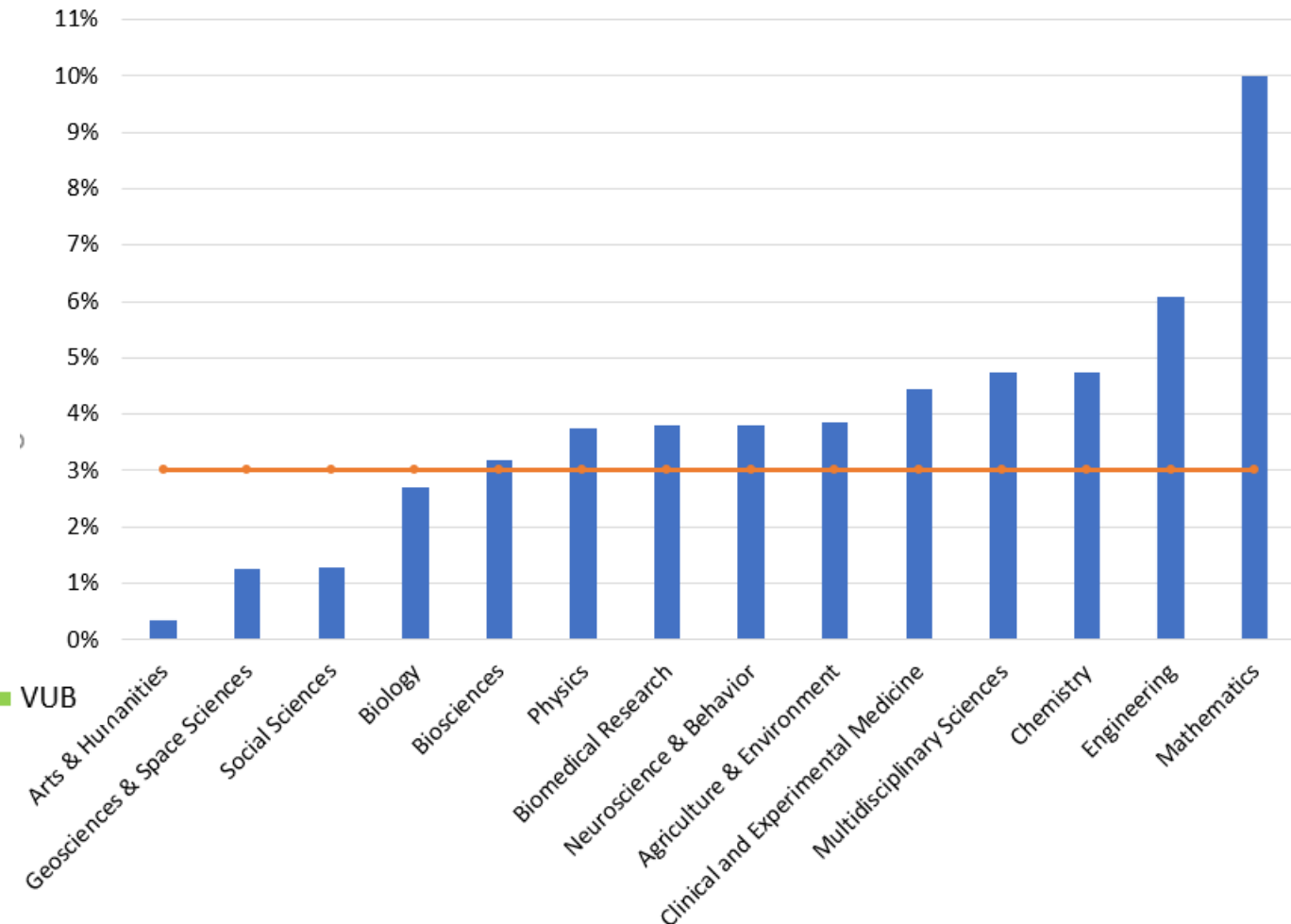
FRIS: publications benchmark

Publications per university

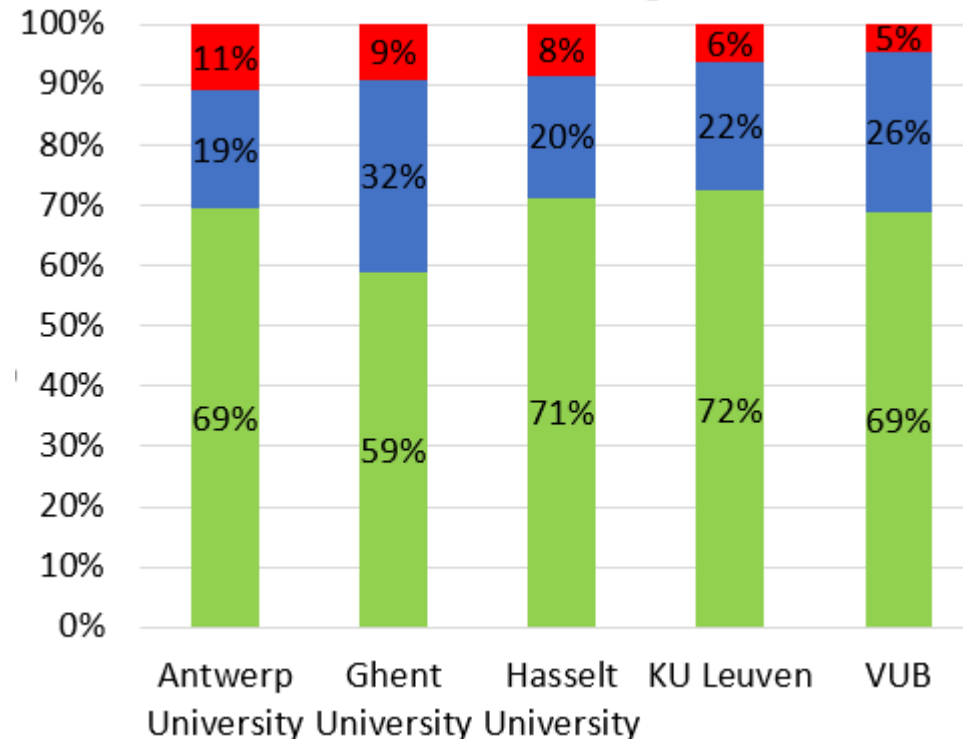
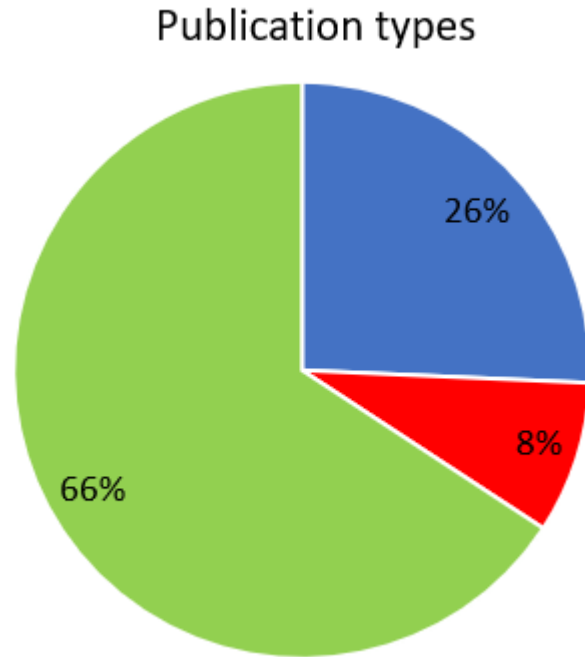


■ Antwerp University ■ Ghent University ■ Hasselt University ■ KU Leuven ■ VUB

Publications per discipline - Hasselt University



FRIS: publications benchmark



■ Journal article ■ Book chapter ■ Book

FRIS: projects

Find research... Search

(623359) All results (41310) Researchers (1956) Organisations (50388) Projects (528146) Publications (1397) Patents (27) Infrastructure (135) Datasets Find expertise

Projects DOWNLOAD RESULT 1 - 10 of 50388 results Sorteren op: Start date / Relevance 10 Items per page

Knowledge institution

- ☐ Alamire Foundation (17)
- ☐ Antwerp Management School (18)
- ☐ Antwerp Maritime Academy (1)
- ☐ AP University of Applied Sciences and Arts (1)
- ☐ Artevelde University of Applied Sciences (9)

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Funder

- ☐ European Commission (3101)
- ☐ Federal Government (1608)
- ☐ Flanders Innovation & Entrepreneurship (3487)

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Funding

- ☐ Activities of International Cooperation (17)
- ☐ Activity supporting strategic priorities (9) of the federal government
- ☐ Activity to stimulate the use of and co- (21) operation with The Belgian Co-ordinated Collections of Micro-organisms (BCCM)

1 2 3 4 5 ... Next > Last >>

BOF 2021 incentive funding: H2020 MSCA ITN project SAPIENS: Sustainability And Procurement in International, European, and National Systems

Hasselt University
Steven VAN GARSE
Centre for Government and Law

With this programme, UHasselt BOF wants to enable promoters, who have been granted external funding within the EU framework programme to finance 3 years of PhD fellowship; to finance a full PhD fellowship of 4years, providing cofinancing of 50% vfor the 4 year.

BOF 2021 Incentive funding: H2020 MSCA ITN project SAPIENS: Sustainability And Procurement in International, European, and National Systems

Hasselt University
Sebastien LIZIN
Environmental Economics

With this programme, UHasselt BOF wants to enable promoters, who have been granted external funding within the EU framework programme to finance 3 years of PhD fellowship; to finance a full PhD fellowship of 4years, providing cofinancing of 50% vfor the 4 year.

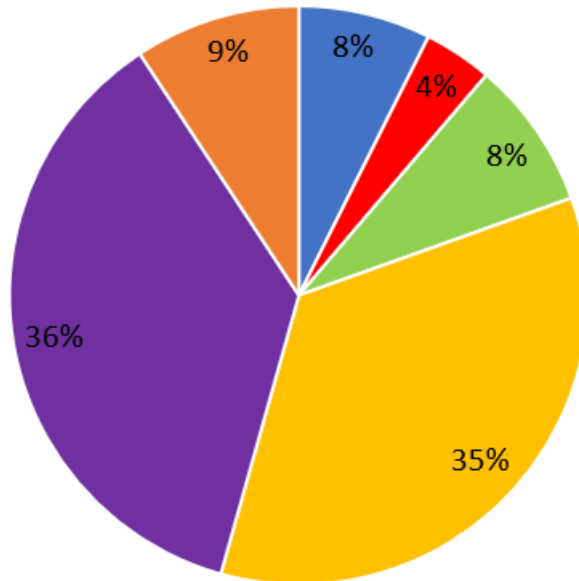
Self-healing in lime based mortars Ghent University
Nico Boon
Department of Biotechnology

Providing lime mortars with an early strength is usually done through expensive and/or toxic chemicals.



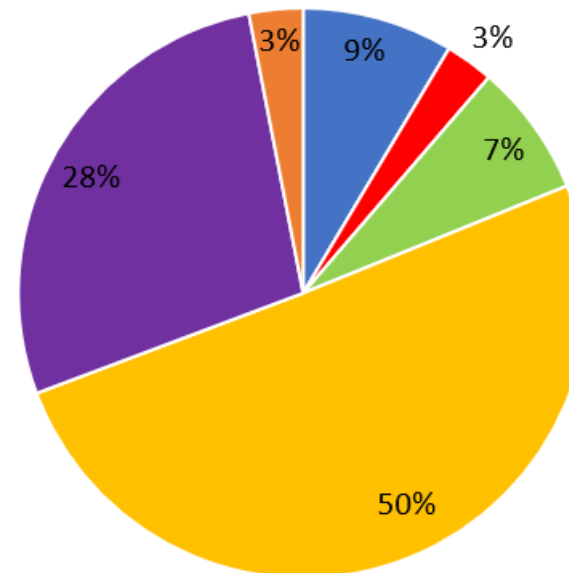
FRIS: projects benchmark

Project funder - Flanders



- European Commission
- Flanders Innovation & Entrepreneurship
- Research Foundation Flanders

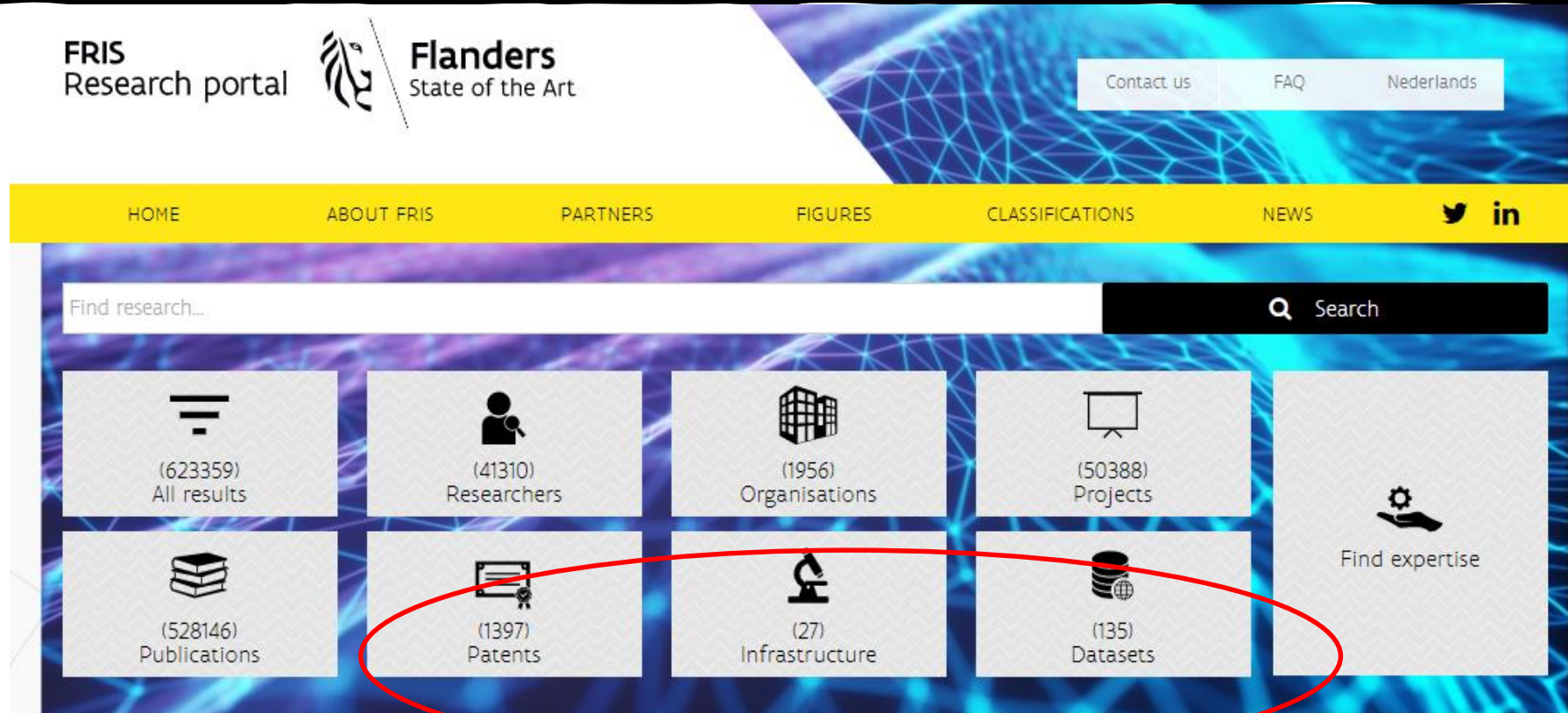
Project funder - UHasselt



- Federal gov.
- Flemish gov.
- Universities



FRIS: patents, infrastructure, datasets



New at FRIS: patents, infrastructure and datasets

As you can see above, the FRIS Research portal has been expanded with additional information about patents, infrastructure and datasets. Beside information about almost 1400 patents, you can also find limited information about infrastructure and datasets. The amount of information will of course grow systematically in the future, so that this will offer a more complete view of the Flemish research landscape. We wish you a good surfing experience!

Potential of regional CRIS for the RMA community

- 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
-
- Alignment with processes is crucial!





Source: © istock.com/zorazhuang

Contacts:

euroCRIS (International organisation for Research Information):

Sadia Vancauwenbergh, President

eurocris@eurocris.org

FRIS (FRIS architecture and implementation):

Ils De Bal, Pascale Dengis, Namik Akyel

FRIS@vlaanderen.be

ECOOM (semantics & information models):

Hanne Poelmans, Evy Neyens, Sadia Vancauwenbergh

ECOOM@uhasselt.be

UHasselt (Directorate Research, Library and Internationalisation):

Annelies Stockmans, Hanne Poelmans, Sadia Vancauwenbergh

Situation around Covid-19: an update

LINKING RESEARCH INFORMATION ACROSS DATA SPACES

15th International Conference on Current Research
Information Systems (CRIS2022)

Dubrovnik, Croatia

May 12-14, 2022

<https://cris2022.srce.hr/>



THANK YOU

