



DEPARTMENT OF
ECONOMY
SCIENCE &
INNOVATION

ecoom



Flanders Research Information Space: an indispensable regional CRIS system to efficiently monitor progress in open science



UHASSELT

KNOWLEDGE IN ACTION

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Flanders Research Information Space (researchportal.be)

- Regional CRIS-system & Research discovery platform
 - Information on publicly financed research in Flanders
 - Automated delivery in real-time using CERIF-XML
 - BI-tool: report on the Flemish policy on Science & Innovation
 - ECOOM-Hasselt: Modeling & semantic harmonizing of the information delivery among Flemish information suppliers

The screenshot displays the FRIS Research portal interface. At the top left, the logo for 'FRIS Research portal' and 'Flanders State of the Art' is visible. A navigation bar contains links for 'Contact us', 'FAQ', and 'Nederlands'. Below this is a yellow navigation menu with links for 'HOME', 'ABOUT FRIS', 'PARTNERS', 'FIGURES', 'CLASSIFICATIONS', 'NEWS', and social media icons for Twitter and LinkedIn. A search bar with the placeholder 'Find research...' and a 'Search' button is positioned above a grid of research statistics. The statistics are as follows:

Icon	Count	Category
Horizontal lines	624974	All results
Person with magnifying glass	39539	Researchers
Building	1958	Organisations
Screen with lines	50509	Projects
Stack of books	531408	Publications
Patent symbol	1397	Patents
Microscope	27	Infrastructure
Database cylinder	136	Datasets
Gear and hand icon	-	Find expertise

At the bottom of the page, the 'ecoom' logo (ExpertiseCentrum O&O Monitoring) is on the left, the 'DEPARTMENT OF ECONOMY SCIENCE & INNOVATION' logo is in the center, the hashtag '#CRIS2022' is on the right, and the 'UHASSELT KNOWLEDGE IN ACTION' logo is in the bottom right corner.

Flemish Open Science Policy (2019)

- Align with EOSC: *“as open as possible, as restricted as necessary”*
- Flemish Open Science Board (FOSB)
 - WG Architecture, WG Metadata & Standardisation, WG Research Data Management & Open Science
- Open Science Roadmap: 5 KPIs
 1. ORCID
 2. Data Management Planning
 3. FAIR data
 4. Open Access
 5. Open data
- Monitor progress in KPI's via FRIS-portal

Flemish application profile for research datasets (FOSB WG Metadata & standardisation)

- Based on DataCite Scheme 4.3
 - 21 properties → 15 originating from DataCite
 - Requirements: M, MA, R, O
 - Values
 - Definition & example

Term	DataCite		Mandatory (M), Mandatory if Applicable (MA), Recommended (R), Optional (O)	KPI implications	Value	Definition
Data - Identifier	identifier	https://support.datacite.org/docs/schema-mandatory-properties-v43#1-identifier	M	Mandatory for KPI	value: DOI, handle, ARK, PURL, URN, URL	The Identifier is a persistent resource, i.e. a concept DOI record has a minimum of 1 a version DOI.
Data - Identifier type	identifier: identifierType	https://support.datacite.org/docs/schema-mandatory-properties-v43#1-identifier	M		Controlled list: Identifier: DOI, handle, ARK, PURL, URN, URL	The type of the Identifier.
Data - Alternative identifier	alternateIdentifier	https://support.datacite.org/docs/schema-optional-properties-v43#11-alternateIdentifier	O		Free text field	The alternative identifier is handle, URL or other (ex. Local repository, a local accession number).
Data - Identifier type	identifier: alternateIdentifierType	https://support.datacite.org/docs/schema-mandatory-properties-v43#1-identifier	O		Free text field	The type of the Identifier.

FOSB Metadatamodel_V1.7ter

- ORCID in Creator identifier
- Format Mandatory
- Deduplication:
 - Subject: Research discipline, keywords
 - Rights: Licenses, Access rights
- Extra properties:
 - legitimate opt-out
 - Link-to-project
 - Link-to-publication
 - FAIR data label

Open data KPI

- Opendefinition.org:
- *“Digital research data that are accessible to anyone and can be used, modified and/or shared by anyone for any purpose”*
- Open = Access rights = ‘open’ or ‘embargoed’ + open license
<https://opendefinition.org/licenses/>
⇒ deduplicate DC “Rights” property
- Standardized delivery: <https://spdx.org/licenses/>
- Metadata fields to monitor open data KPI:
 - PID, Access rights, Licenses, Legitimate opt-out, Link to project & Link to publication

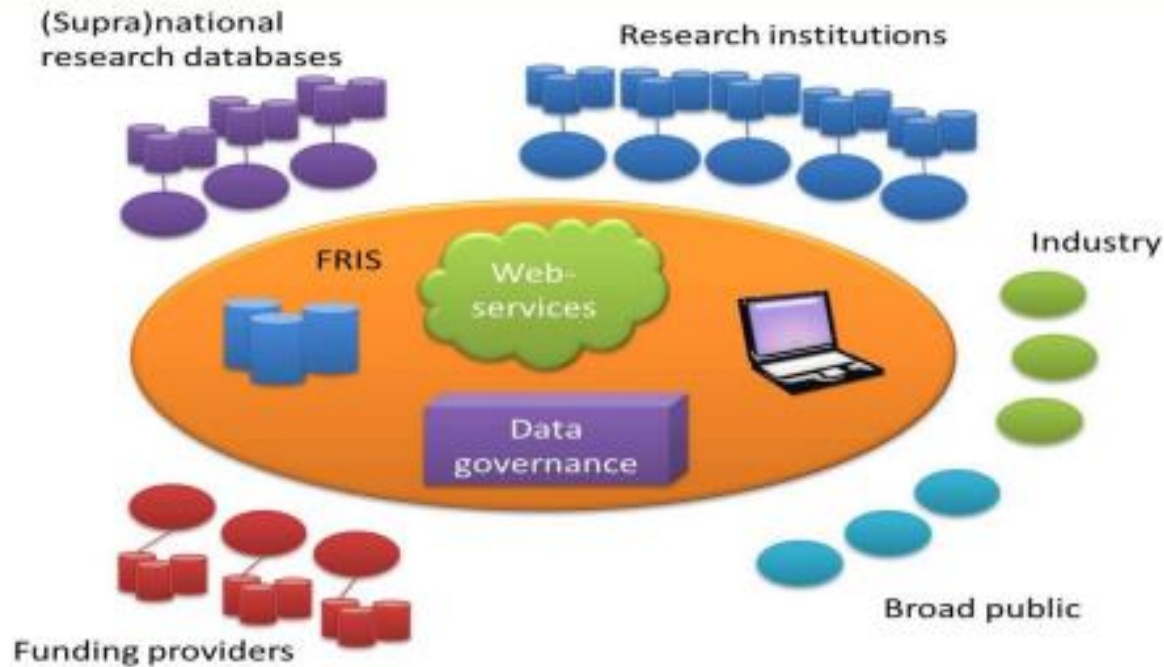
FAIR data KPI

- Metadata property 'FAIR data label': in progress
- Options:
 - a. Minimal metadata provided = FAIR
 - b. F-UJI score
 - c. FAIR self-assessment score

⇒ Align with EOSC: TF FAIR Metrics & Data quality

FRIS-portal as a monitoring tool for Open Science Metrics

- High quality data
- Accurate, reliable, consistent & comparable
- Transparency
- Administrative streamlining



Questions



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