ECOOM: a strategic partner for the Flanders Research Information Space (FRIS)

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KNOWLEDGE IN ACTION

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ECOOM

- Expertise Centre for Research and Development Monitoring in Flanders
- Interuniversity consortium with participation of all universities in Flanders (KU Leuven, UGent, VUB, UAntwerpen and UHasselt), funded by the Flemish Government (dept. EWI)

- Mission:
  - Development of a consistent system of R&D and Innovation (RD&I) indicators for the Flemish government
  - This indicator system has to assist the Flemish government in mapping and monitoring the RD&I efforts in the Flemish region.

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Vlaams Indicatorenboek

Het Vlaams Indicatorenboek bevat beleidsindicatoren die de ontwikkeling van het Vlaams potentieel inzake wetenschap, technologie en innovatie in kaart brengen.

https://www.vlaamsindicatorenboek.be/

Research & expertise domains
- Bibliometrics
- Technometrics
- Innovation studies
- Economic studies
- Researcher's careers
- Non-written research output indicators (e.g. output in the arts)
- Evaluation of societal impact of research
- Semantics and modelling of research information
- Governance of research classifications

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→ **ECOOM-Hasselt**

Flanders Research Information Space (FRIS)

https://researchportal.be

Information on:
- Researchers
- Organisation
- Projects
- Publications
- Patents
- Infrastructure
- Datasets

Information from:
- Universities
- University colleges
- Strategic research centers
- Research institutions
- Funding agencies

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Flanders Research Information Space (FRIS)

https://researchportal.be

FRIS characteristics:

- Flexible & futureproof

- In line with international evolutions & requirements

- Central hub for use and reuse of metadata on publicly funded research

ECOOM as strategic partner for FRIS

Modelling research information

Semantic governance

Creating and governing research classifications

Facilitator between stakeholders
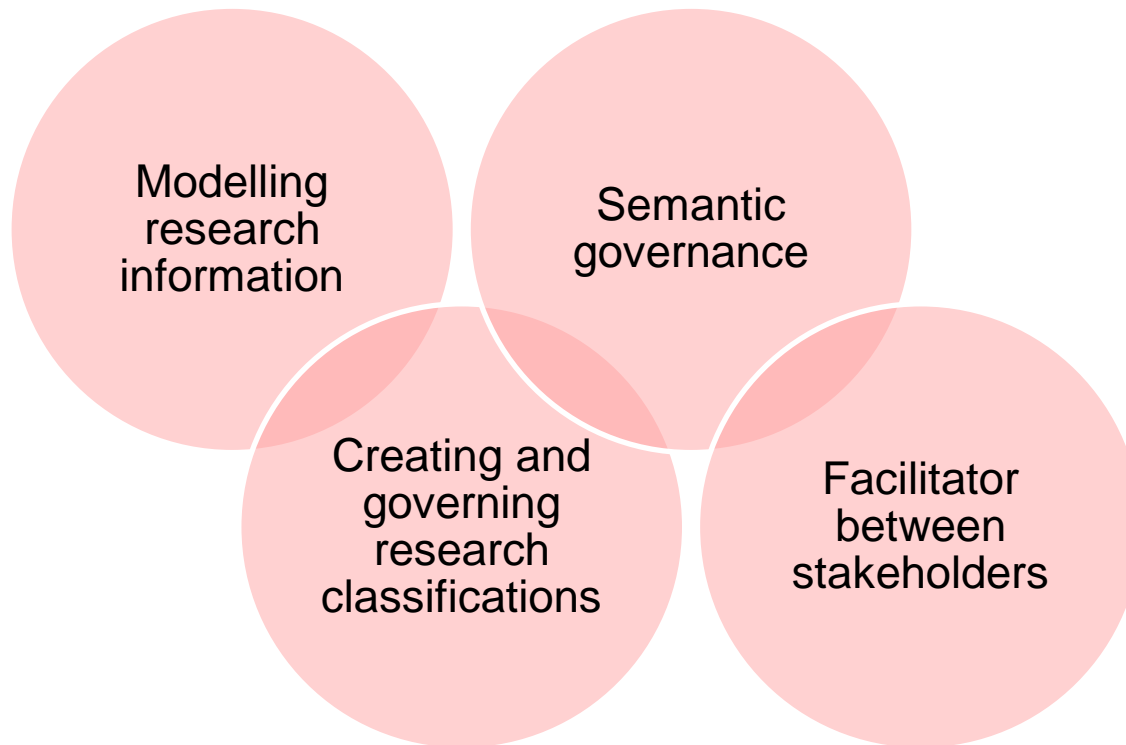
Modelling research information

- Semantically harmonised information models

Example: Metadatamodel for research infrastructure

Characteristics
- 25 metadata fields
- Specification who has to provide which information: e.g. institution/consortium coordinator vs. consortium partner
- Mandatory, Mandatory if applicable, Optional
- Definitions
- Practical examples
- Extra information or value specification

Metadata field	Institution/consortium coordinator	Consortium partner	Definition	Practical example	Extra Info/values
Identifier	M	M	Unique identification number assigned to the infrastructure by the data provider when it is delivered to FRIS.	Institution-specific identifier	Persistente identifier
Name	M	M	Technical name of the *infrastructure* .		Name is always provided in 2 languages (English/Dutch).

The name and/or abstract must clearly state the exact subject with the brand name if relevant, e.g. what kind of microscope, what it is used for, etc. |

Governance of research classifications

- Research classifications
  - Research disciplines
  - Research funding
  - Technology domains
  - Publication types

Governance of research classifications

- **Research disciplines**
  - Development in 2016-2018
  - Update in 2021-2023
  - Harmonised semantics
  - Harmonising implementation
  - Standard in Flanders

Governance of research classifications

- **Research funding**
  - Continuous updates
  - Collaboration with funders
  - Community reinforcement

Semantic governance

- **Semantic harmonisation** of research terms and concepts related to:
  - Information models in FRIS
  - Research classifications
  - FRIS reports (BOF/IOF/FOSB)
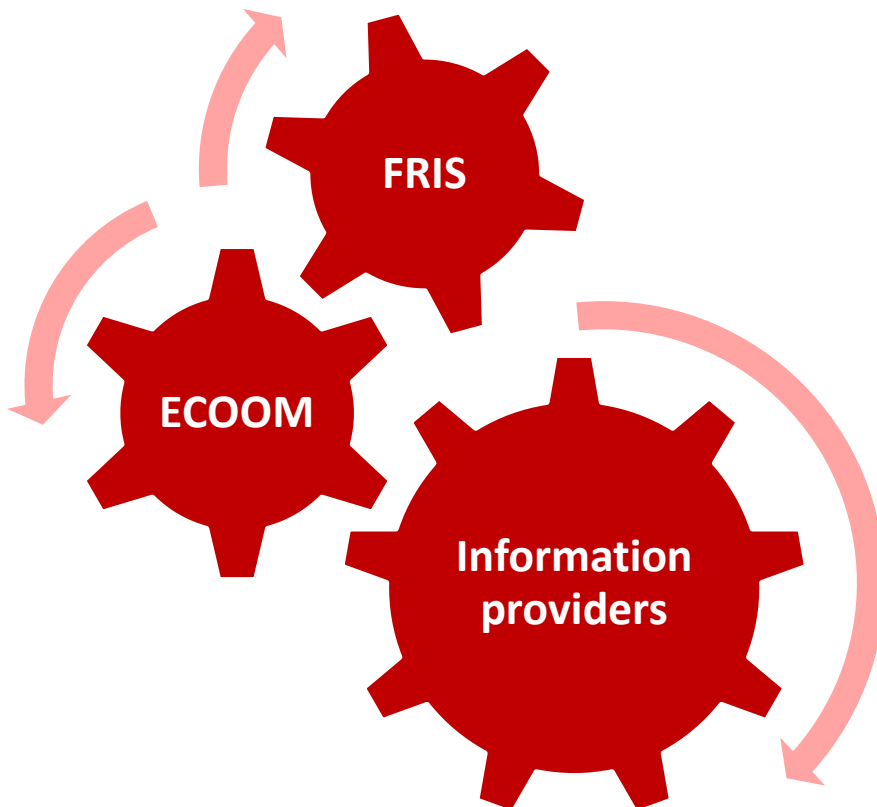 - Research reports (on request, e.g. university rankings)
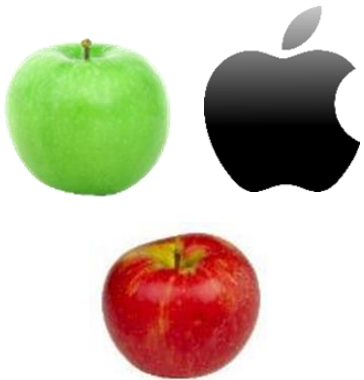
ECOOM as strategic partner for FRIS

Ecosystem to support FRIS:
- A futureproof and flexible platform
- In line with international evolutions and requirements
- A central hub for research information that can be used for multiple purposes:
  - → Visibility
  - → Transparancy
  - → Reporting
  - → Strategic decision making
  - → Stimulating collaboration
  - → Stimulating open science
  - → Accelerating innovation
  - → …

FRIS

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Information providers

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- **ECOOM promotorship & supervision**
  - Prof. Dr. K. Haenen & Dr. Sadia Vancauwenbergh
  - Dr. A. Ali-Eldin
  - Dr. H. Poelmans

- **ECOOM researchers**
  - Dr. A. Ali-Eldin
  - Dr. S. Hoang-Pham
  - Dr. E. Neyens
  - Mrs. T. Araboeli
  - Mrs. D. Vermin

- **More information?**
  - ecoom@uhasselt.be

- **Special thanks to the FRIS team!**
  - Ils de Bal
  - Pascale Dengis

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