



The Flemish research discipline classification: from creation to implementation



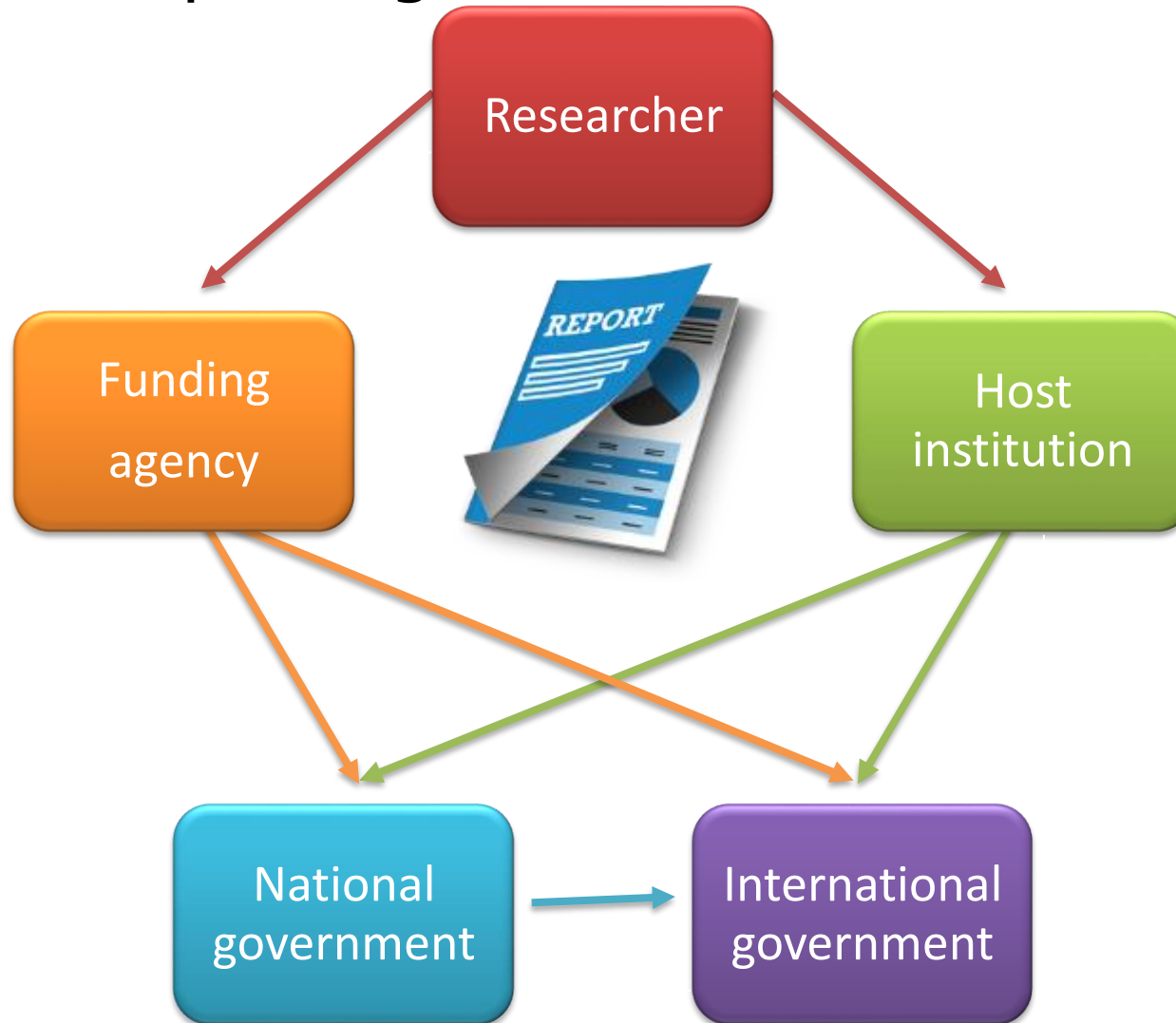
UHASSELT

KNOWLEDGE IN ACTION

Sadia Vancauwenbergh

ECOOM
Expertisecentrum O&O Monitoring

Research reporting



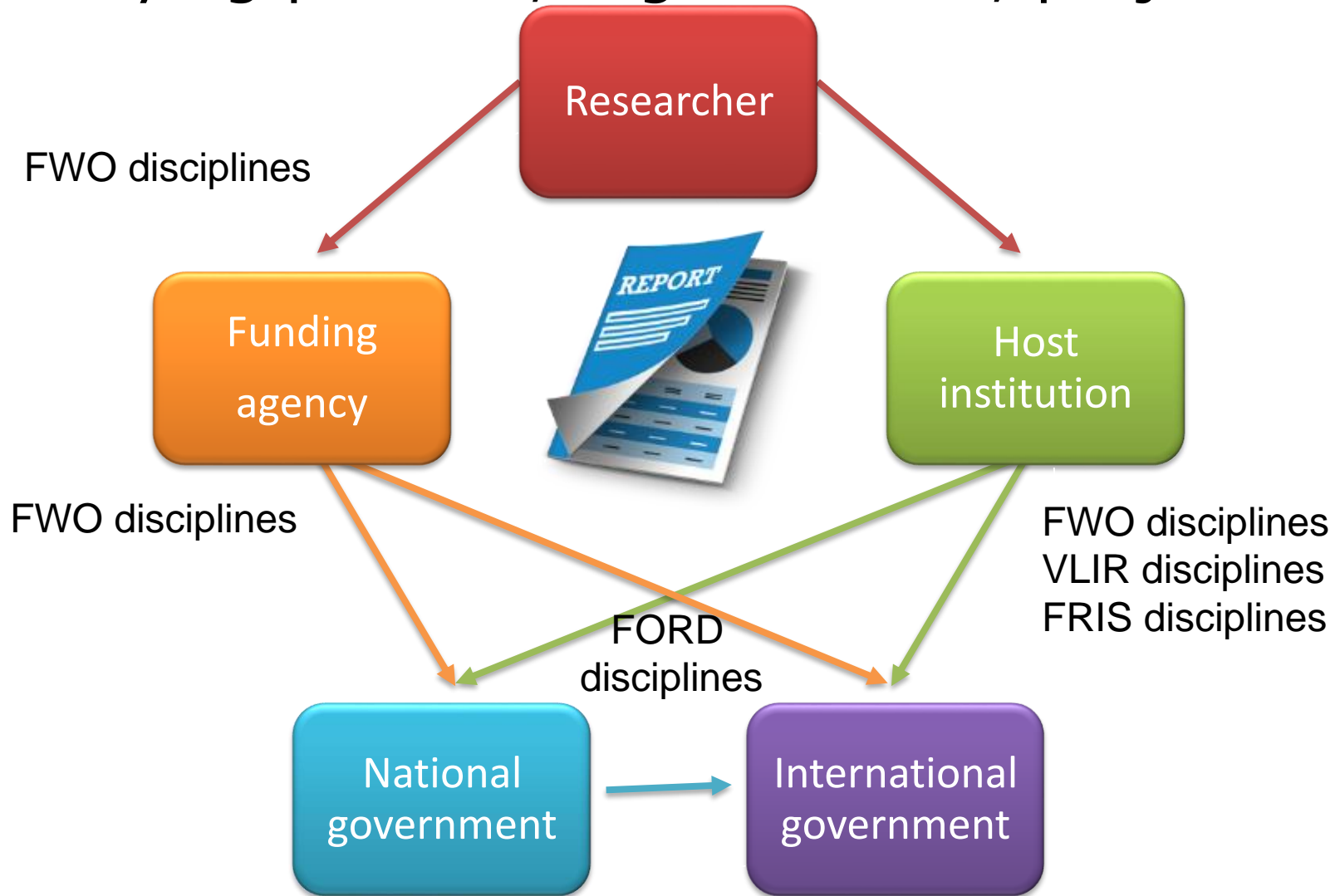
Peters et al. 2011. *De vereenvoudiging van onderzoeksverslaggeving, een analysetraject uitgevoerd door de Vlaamse universiteiten en hogescholen en de VLIR, in opdracht van de Vlaamse Overheid (EWI).*

Multiple discipline codelists



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).*

Classifying persons, organisations, projects



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).*



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](#).

Find research...

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Find expertise

Organisations

DOWNLOAD
RESULT



Knowledge institution

- Botanic Garden Meise (1)
- Erasmushogeschool Brussel (4)
- Flanders Marine Institute (1)
- Ghent University (330)
- Hasselt University (149)

Show more

Status

- active (1659)
- inactive (388)

Disciplines

- ▶ Biomedical Sciences (550)
- ▶ Humanities (278)
- ▶ Physical Sciences (285)
- ▶ Social Sciences (518)
- ▶ Technological Sciences (283)

1 - 10 of 2047 results

Sort by Name / Relevance

10

Items per page

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

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](#)

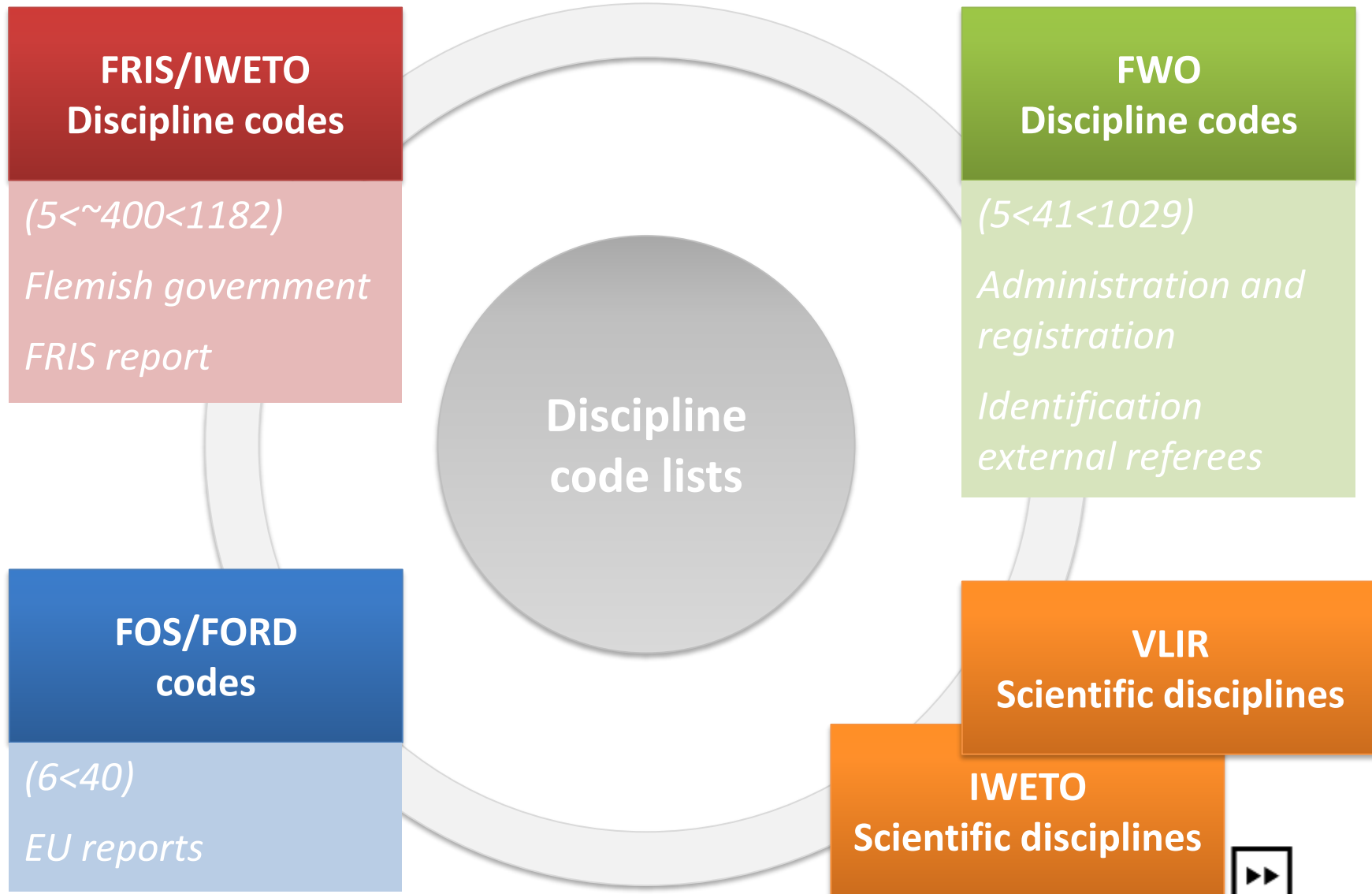
The department's research is organized within four large programmes with significant interactions between them: development of instruments and outcome measurement, educational research, clinical epidemiology and health care organisation research. It focusses on a broad range of clinical situations, with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



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Overview

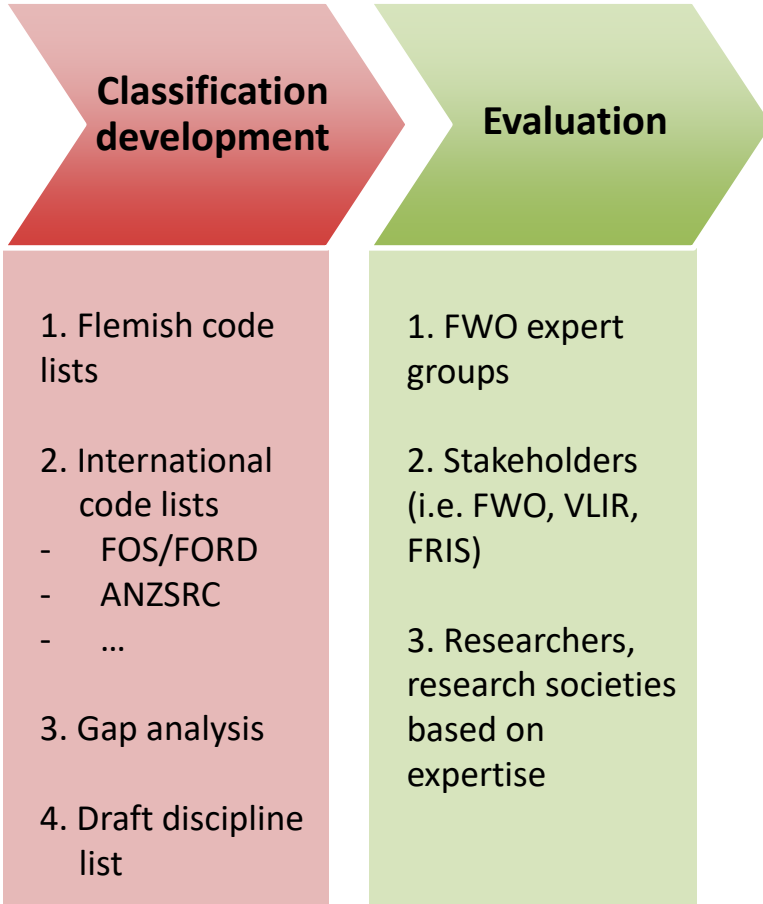


ECOOM-UH: uniformisation discipline code lists

Goals:

1. Creating a single Flemish classification for research disciplines that:
 1. covers all research in Flanders
 2. provides a semantic definition for all disciplines
 3. provides concordance maps to the most prevailing (inter)national classification systems
2. Implementation of the Flemish research discipline code list by Flemish agencies and stakeholders
3. Classification governance and quality control

Procedure



Flemish research discipline code list v°2018

- Specifications

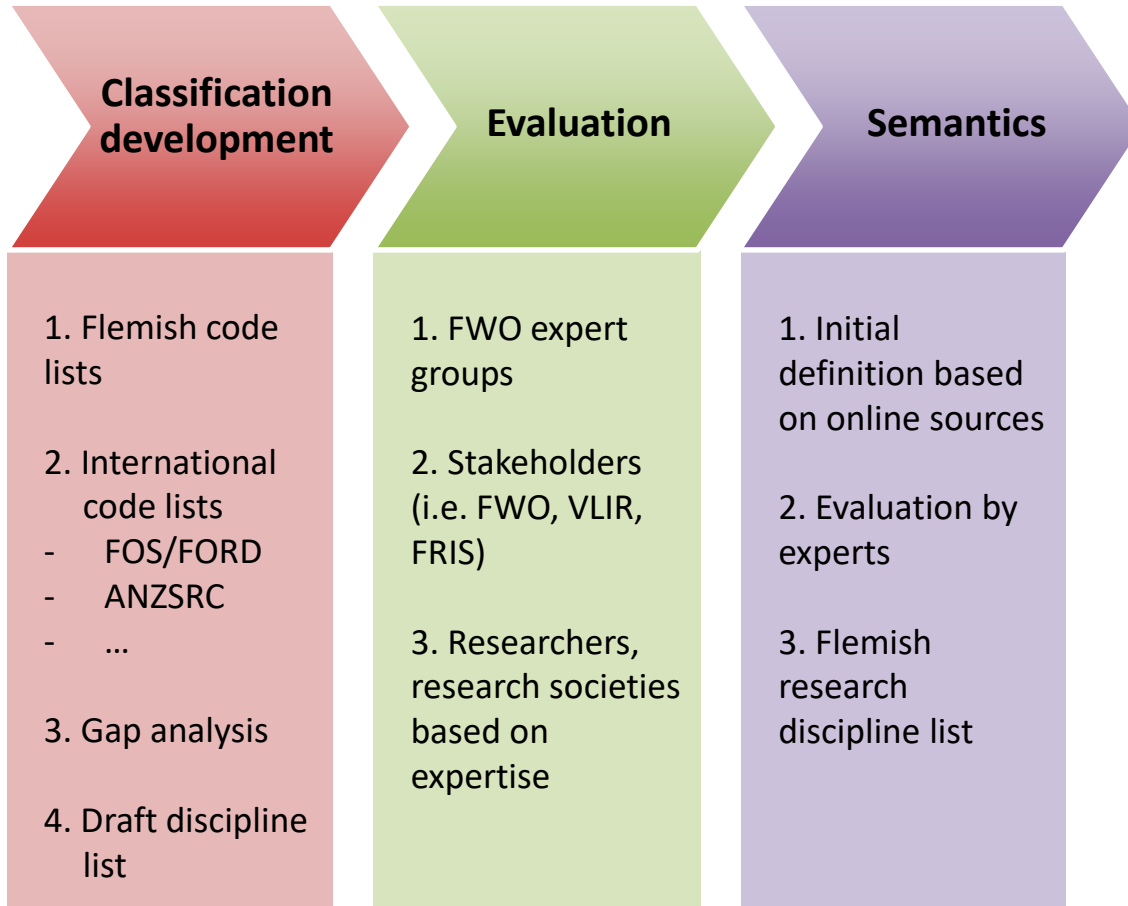
- 4 levels

- Level 1: 7 codes
 - Level 2: 42 codes
 - Level 3: 382 codes
 - Level 4: 2866 codes



| Sector (Level 1) | Disciplinary Field L1 | Disciplinary Subfield L2 | Disciplinary Subfield L3 |
|--------------------------|----------------------------|-------------------------------------|---|
| Interdisciplinary topics | | | |
| Architecture | | | |
| 02 | Engineering and technology | 0201 Civil and building engineering | 020101 Architectural engineering |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02010101 Structural design |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02010102 Structural optimisation |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02010103 Sustainable building |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02010199 Architectural engineering not elsewhere classified |
| 02 | Engineering and technology | 0201 Civil and building engineering | 020111 Urban and regional design, development and planning |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011101 Environmental and sustainable planning |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011102 Housing markets, development, management |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011103 Smart cities |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011104 Urban and regional design |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011105 Urban and regional development |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011106 Urban and regional planning policy, instruments and legislation |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011107 Urbanism and regional planning |
| 02 | Engineering and technology | 0201 Civil and building engineering | 02011199 Urban and regional design, development and planning not elsewhere classified |
| 06 | Humanities and the arts | 0604 Arts | 06040300 Art studies and sciences |
| 06 | Humanities and the arts | 0604 Arts | 06040301 Architectural history and theory |
| 06 | Humanities and the arts | 0604 Arts | 06040304 Architectural design history and theory |
| 06 | Humanities and the arts | 0604 Arts | 06040311 Interior architecture history and theory |
| 06 | Humanities and the arts | 0604 Arts | 06040312 Landscape architecture history and theory |
| 06 | Humanities and the arts | 0604 Arts | 06040399 Art studies and sciences not elsewhere classified |
| 06 | Humanities and the arts | 060401 Architectural design | 06040100 Design innovation |
| 06 | Humanities and the arts | 060401 Architectural design | 06040101 Design management |
| 06 | Humanities and the arts | 060401 Architectural design | 06040102 Design practice |
| 06 | Humanities and the arts | 060401 Architectural design | 06040103 Design research |
| 06 | Humanities and the arts | 060401 Architectural design | 06040105 Digital and interaction design |
| 06 | Humanities and the arts | 060401 Architectural design | 06040106 Inclusive design |
| 06 | Humanities and the arts | 060401 Architectural design | 06040107 Sustainable design |
| 06 | Humanities and the arts | 060401 Architectural design | 06040199 Architectural design not elsewhere classified |

Procedure



Semantics

Interpretation variability

- Linguistic, thematic, situational context

Imagine an apple, a big apple

Semantics

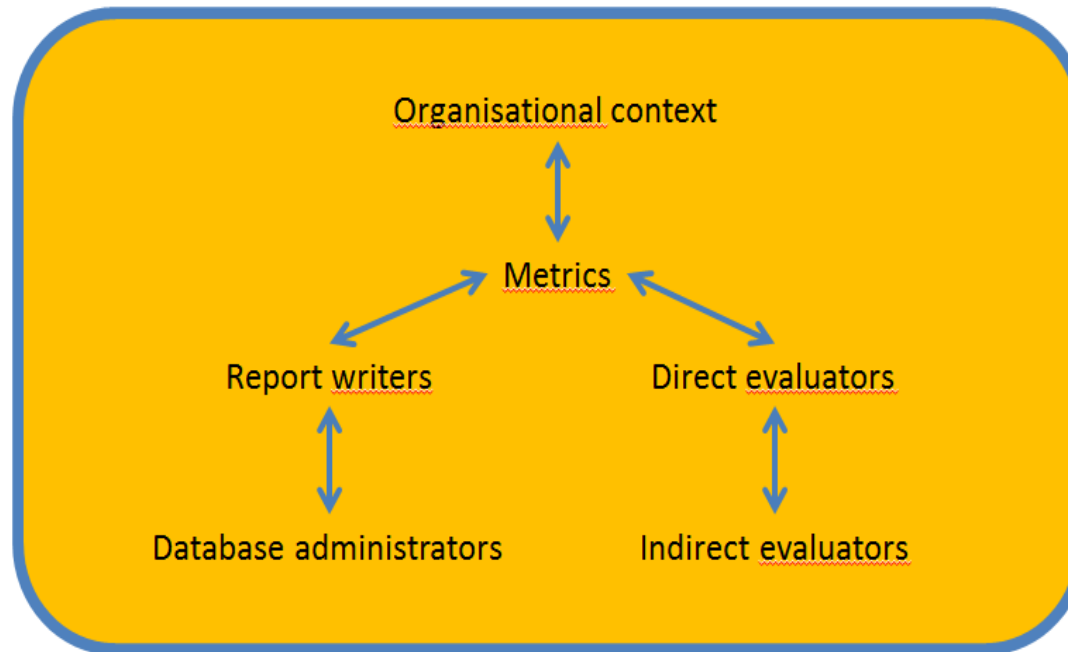
Interpretation variability

- Linguistic, thematic, situational context

Imagine

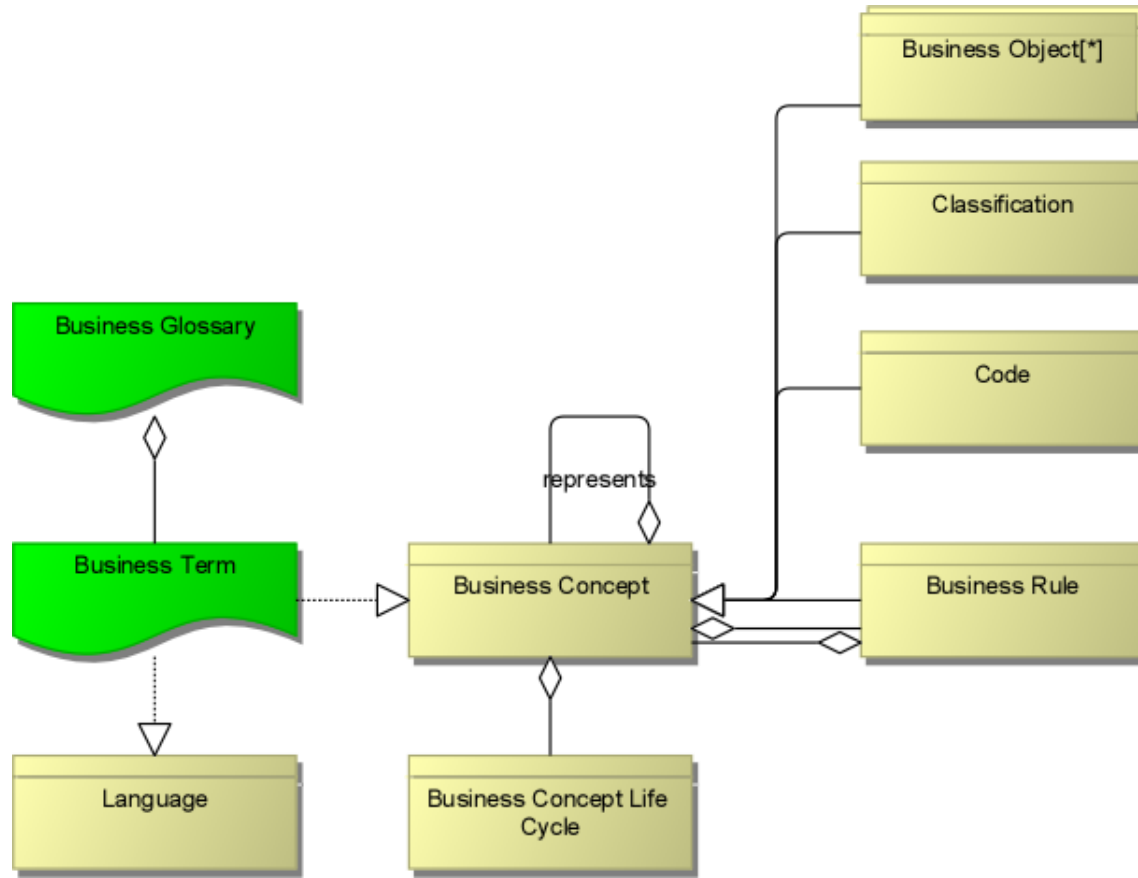


Semantic (mis)interpretation space

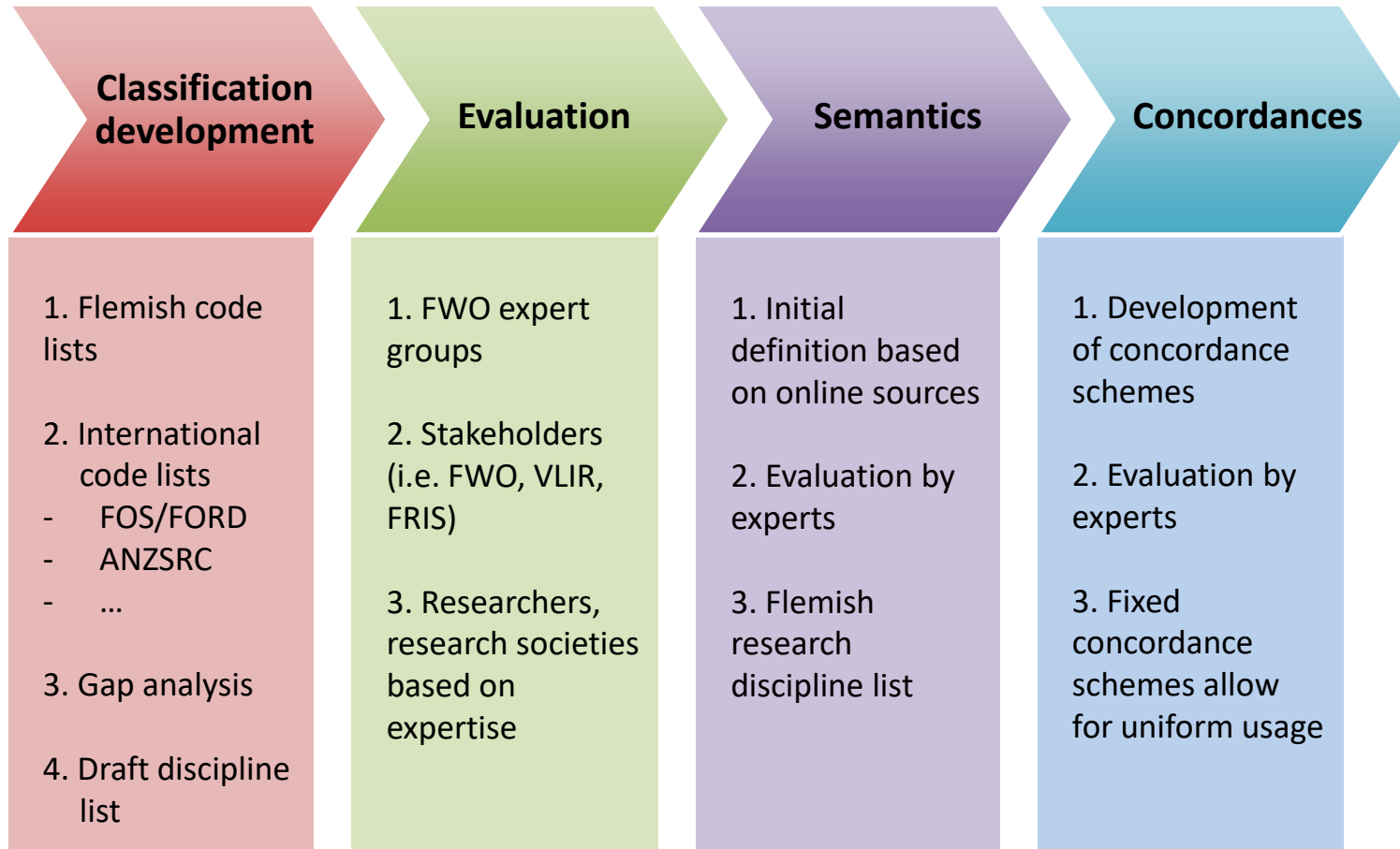


Methodology

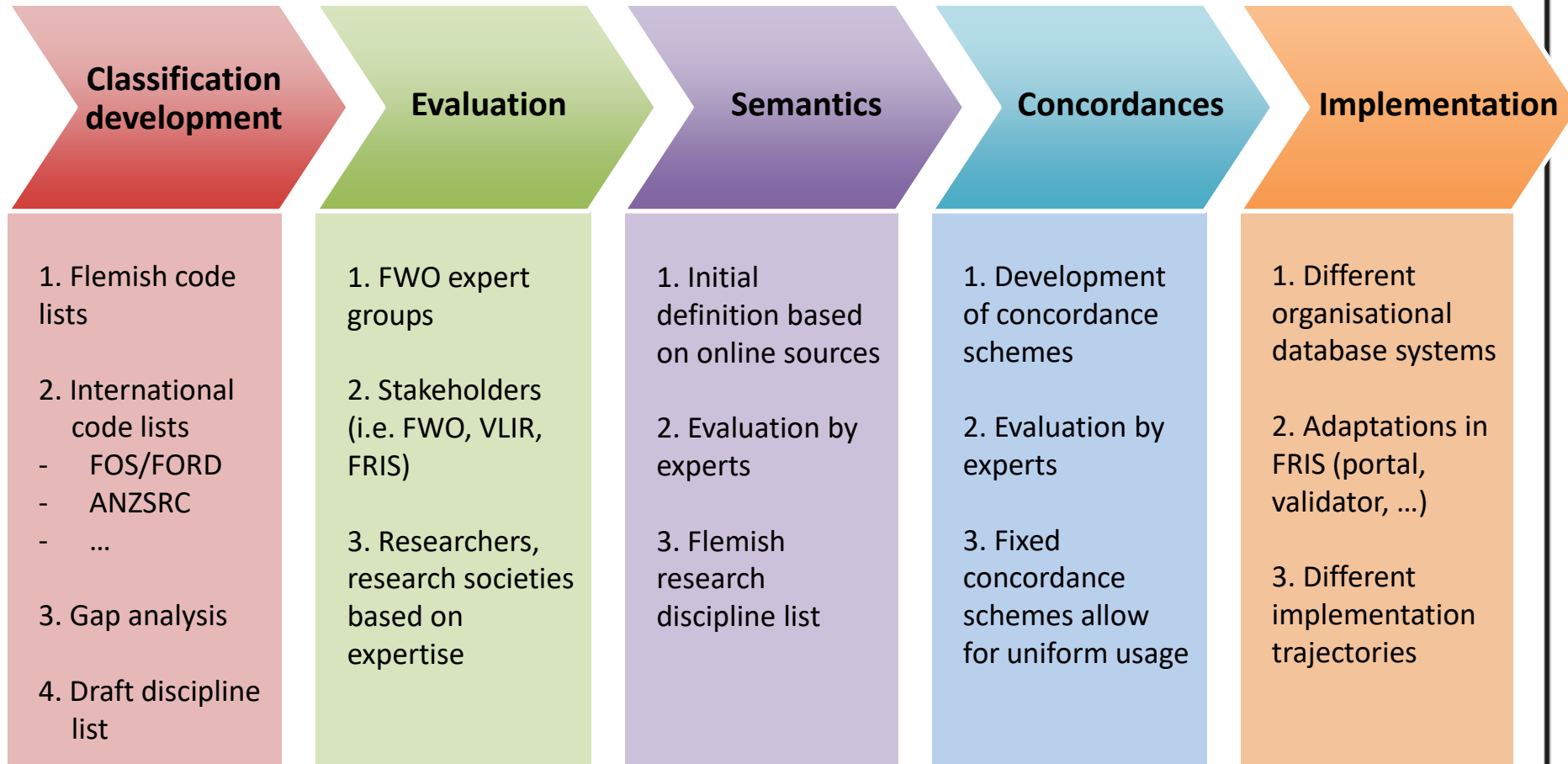
From concept → term → definition → review → iterative cycles



Procedure



Procedure



Implementation



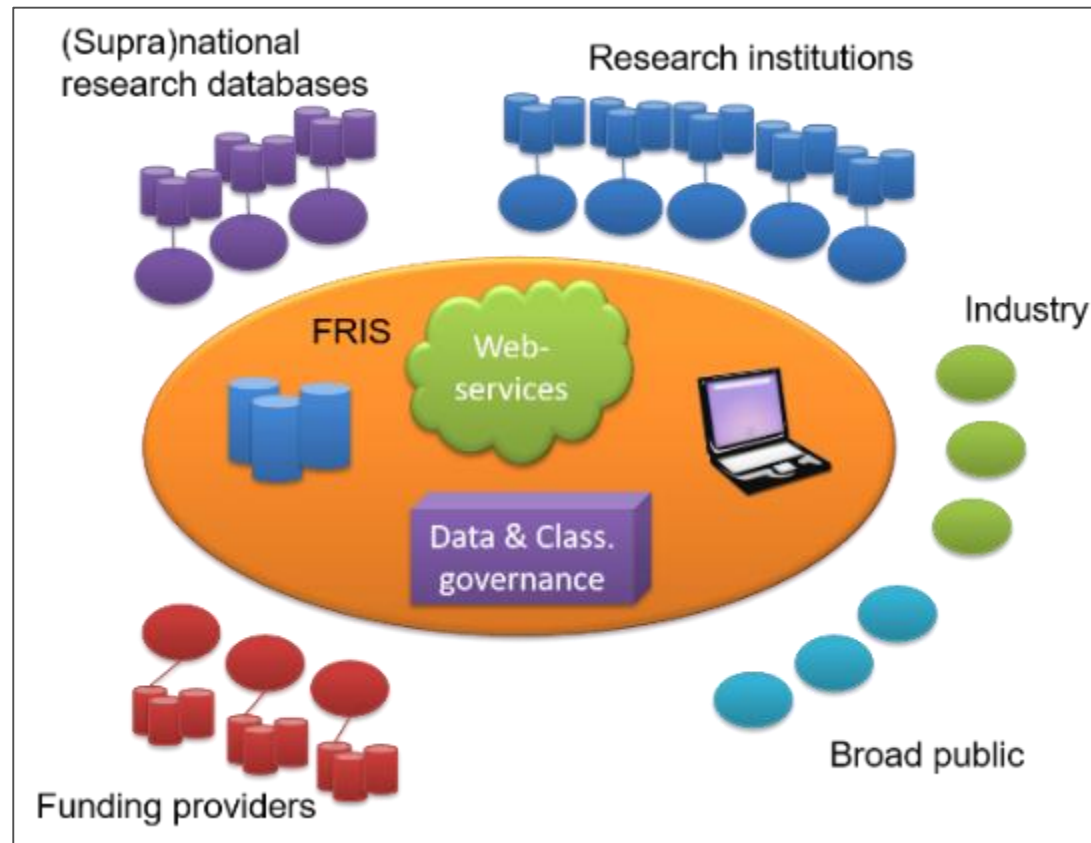
Implementation

- Business-related issues
 - Define the granularity level
 - Persons
 - Projects
 - Organizations
 - Drafting business rules
 - Revision and/or optimization of business processes
 - Concordance schemes
 - 1-n mapping
 - Revision of research reporting obligations (and legislation)

- Technical-related issues:
 - Integration in webportals (filters/search applications) & data-systems
 - Receiving updates via SOAP-services
 - Concordance schemes
 - Automated mapping (1-1)
 - Drafting validation rules

Steering group meetings

- Universities, higher education institutions, research institutions, strategic research centres, funders, Flemish government, ...



Funding agency ex. FWO

The screenshot shows a web browser window with the URL `localhost:51474/Personalia/ Disciplines.aspx`. The page features the FWO logo with the tagline "Opening new horizons". On the left, a navigation menu includes "Personalia", "Familliale gegevens", "Diploma's / Huidige studies", "Functies / loopbaan", "Disciplines", "Publicaties", "Contactgegevens", "Wachtwoord wijzigen", and "Download PDF van alle gegevens". The main content area is titled "Disciplines" and contains a search bar with "Zoeken" and "Alles tonen" buttons. Below the search bar, a tree view shows the following structure:

- Engineering and technology
 - Mechanical and manufacturing engineering
 - Thermodynamics
 - Thermodynamic processes
 - Heat transfer
 - Thermodynamic processes
 - Automotive engineering
 - Aerospace engineering
 - Marine engineering
 - Mechatronics and robotics
 - Design theories and methods
 - Other mechanical and manufacturing engineering
 - Mechanics
 - Manufacturing engineering
 - Energy generation, conversion and storage engineering
 - Materials engineering

A callout box with a black border and rounded corners is positioned over the "Thermodynamic processes" item. It contains the following text:

Thermodynamic processes is the research field studying the energetic evolution of a thermodynamic system proceeding from an initial state to a final state in the context of mechanical and manufacturing processes and technologies.

Implementation roadmap

- 2018-2019:
 - FRIS-portal

| | Projecten | Personen | Organisaties |
|-------------------------|-------------------------|-------------------------|--------------|
| Nieuw vanaf 01/01/2019 | Niv 4 | Niv 4 | Min. niv 3 |
| Einddatum na 01/01/2018 | Min. niv 3, graag niv 4 | Min. niv 3, graag niv 4 | Min. niv 3 |
| Eindigend op 31/12/2017 | | Min. niv 2 | Min. niv 2 |
| Einddatum na 01/01/2016 | Min. niv 3 | | |
| Afgelopen op 31/12/2015 | Min. niv 2 | | |

- 2019-2020
 - VLIR-reports on research staff, 01/02/2020

ECOOM@uhasselt.be



ECOOM-Hasselt team:

Sadia Vancauwenbergh (project leader)

Hanne Poelmans (researcher)

Hanne Vlietinck (administration)

Funded by:

Department of Economy, Sciences and
Innovation of the Flemish Government