



The Flemish Research Discipline Standard

***One Step Towards Harmonised Research
Information in Flanders***



Hanne Poelmans

UHASSELT

KNOWLEDGE IN ACTION

ecoom

ECOOM

Centre for Research & Development Monitoring in Flanders

- Mission: develop 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.**
- Interuniversity consortium
 - ECOOM-Hasselt:
 - Reduction of the administrative burden of research reporting

Research reporting



Flemish Research Information Space (FRIS)

FRIS
Research portal



Flanders
State of the Art

Contact us

FAQ

Nederlands

HOME

ABOUT FRIS

PARTNERS

FIGURES

CLASSIFICATIONS

NEWS



Find research...

Search



(588989)
All results



(40777)
Researchers



(1945)
Organisations



(46613)
Projects



(499654)
Publications



Find expertise

<https://researchportal.be/en>

Flemish Research Information Space (FRIS)

FRIS
Research portal



Flanders
State of the Art

Contact us

FAQ

Nederlands

HOME

ABOUT FRIS

PARTNERS

FIGURES

CLASSIFICATIONS

NEWS



Find research...

Search



(588989)
All results



(40777)
Researchers



(1945)
Organisations



(46613)
Projects



(499654)
Publications



Find expertise

Strategic research centers

Universities

General public

Reports

Press



Governments

Visibility



Websites

Research institutions

Funding agencies

Strategic decisions

Statistics

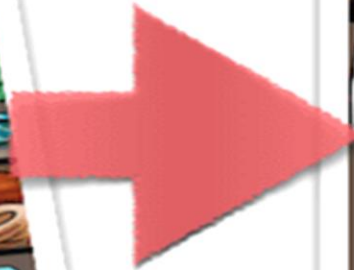
University colleges

Interuniversity Council

Science communication

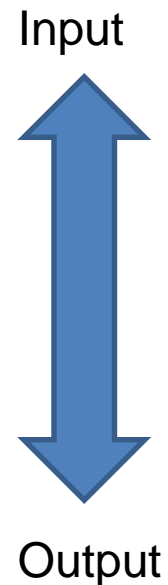
Research classifications

- Classification is a process related to categorisation, the process in which ideas and objects are recognised, differentiated and understood. (*Definition Wikipedia*)

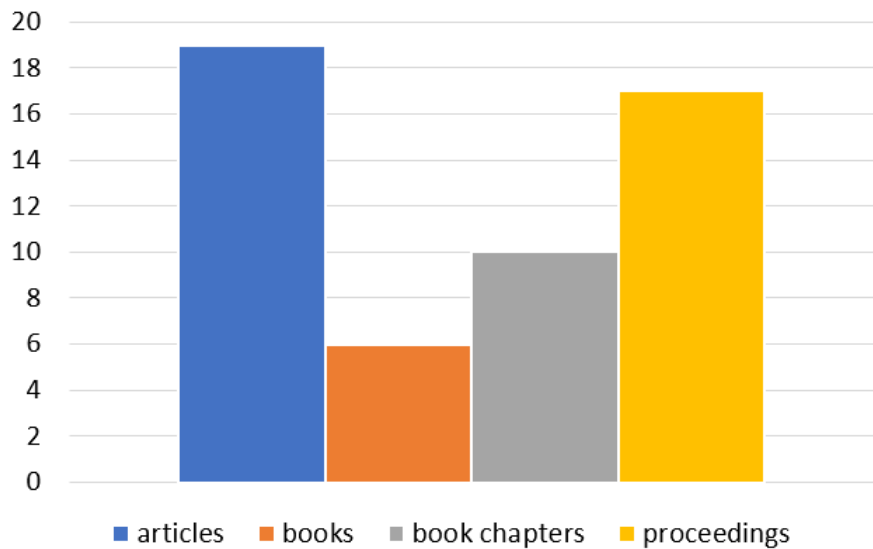
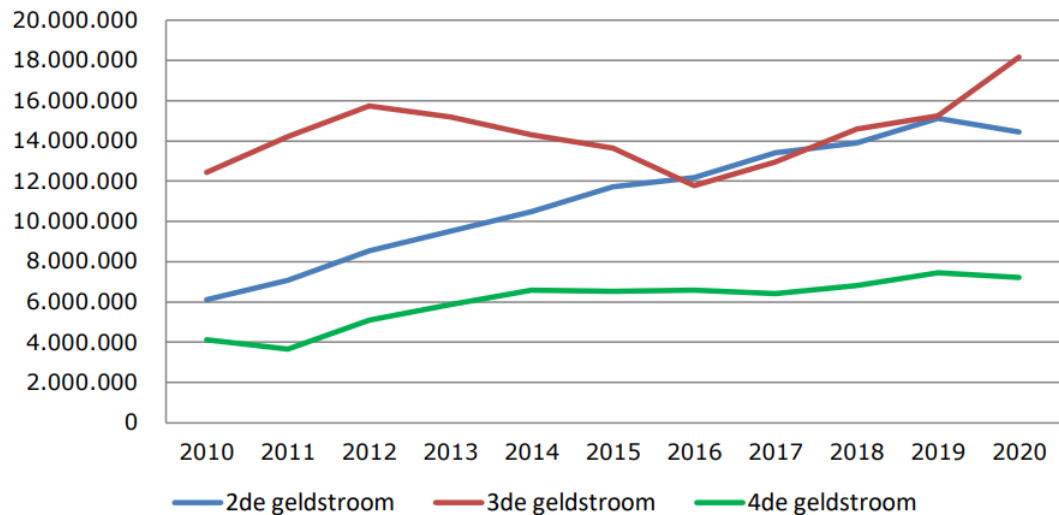


Research classifications

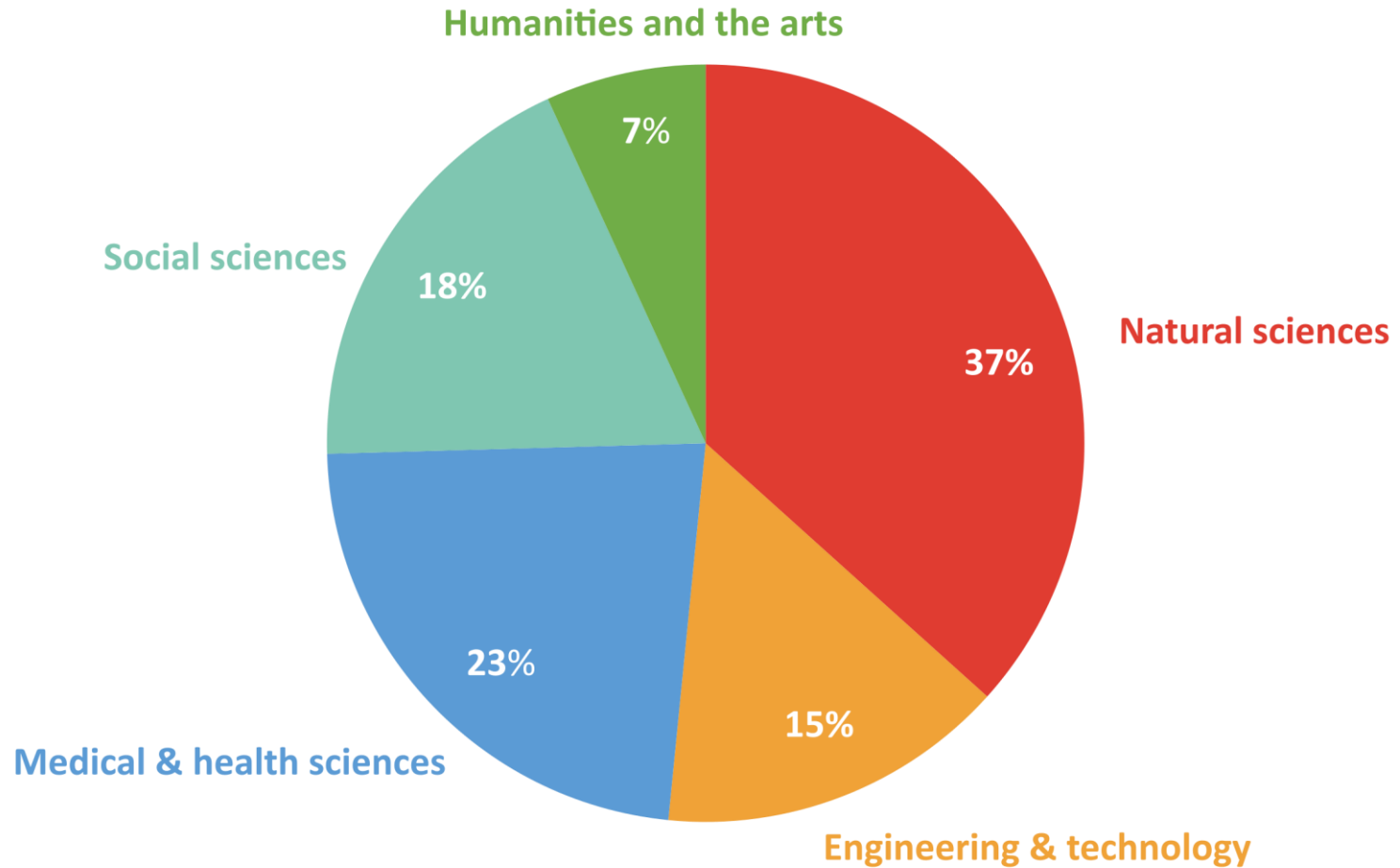
- Classification is a process related to categorization, the process in which ideas and objects are recognized, differentiated, and understood. (*Definition Wikipedia*)
- Research classification
 - Research information objects
 - Organisations
 - Persons
 - Grants/scholarship
 - Projects
 - Data
 - Publications
 - Socio-economic impact (patents, ...)



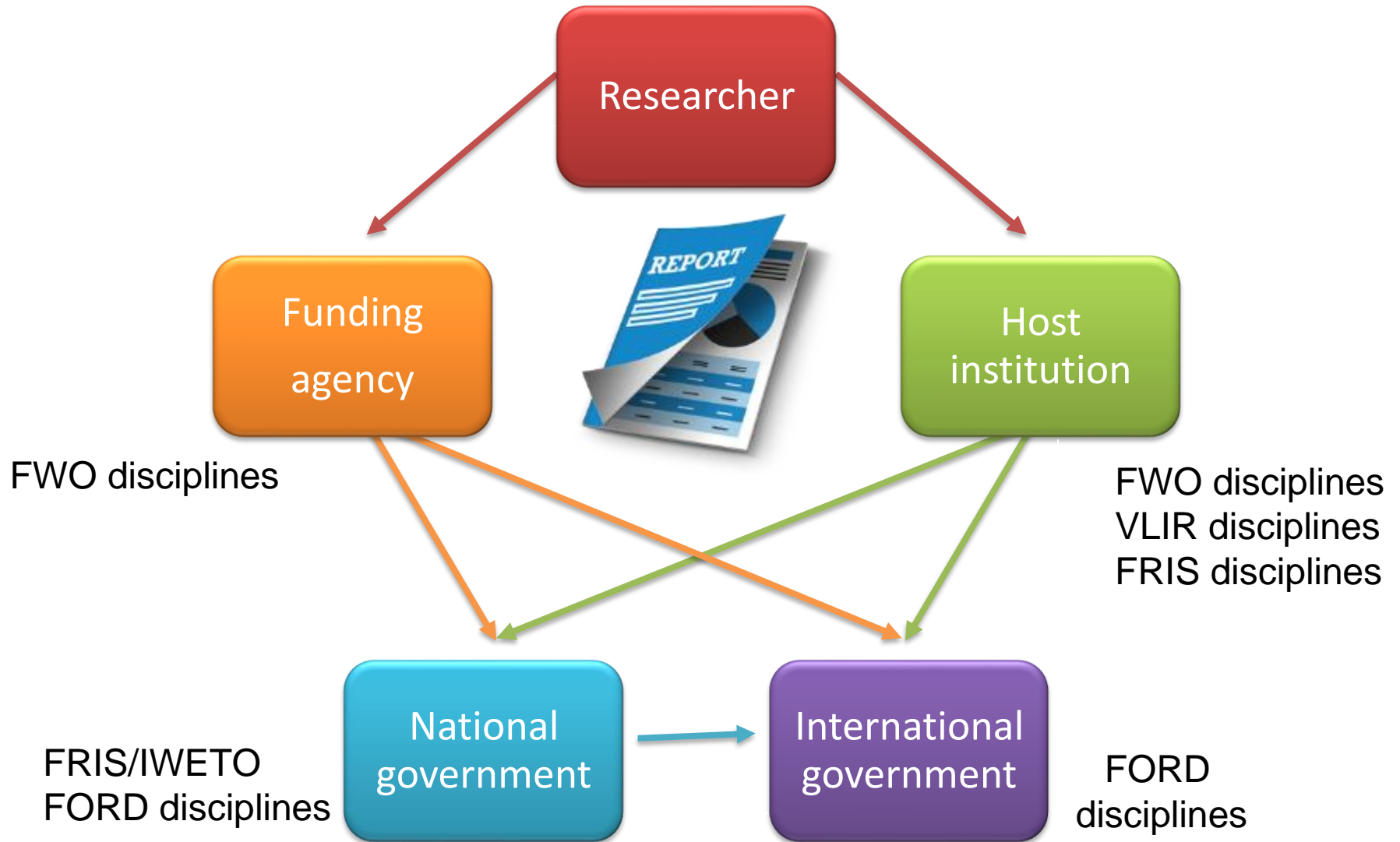
Research classifications



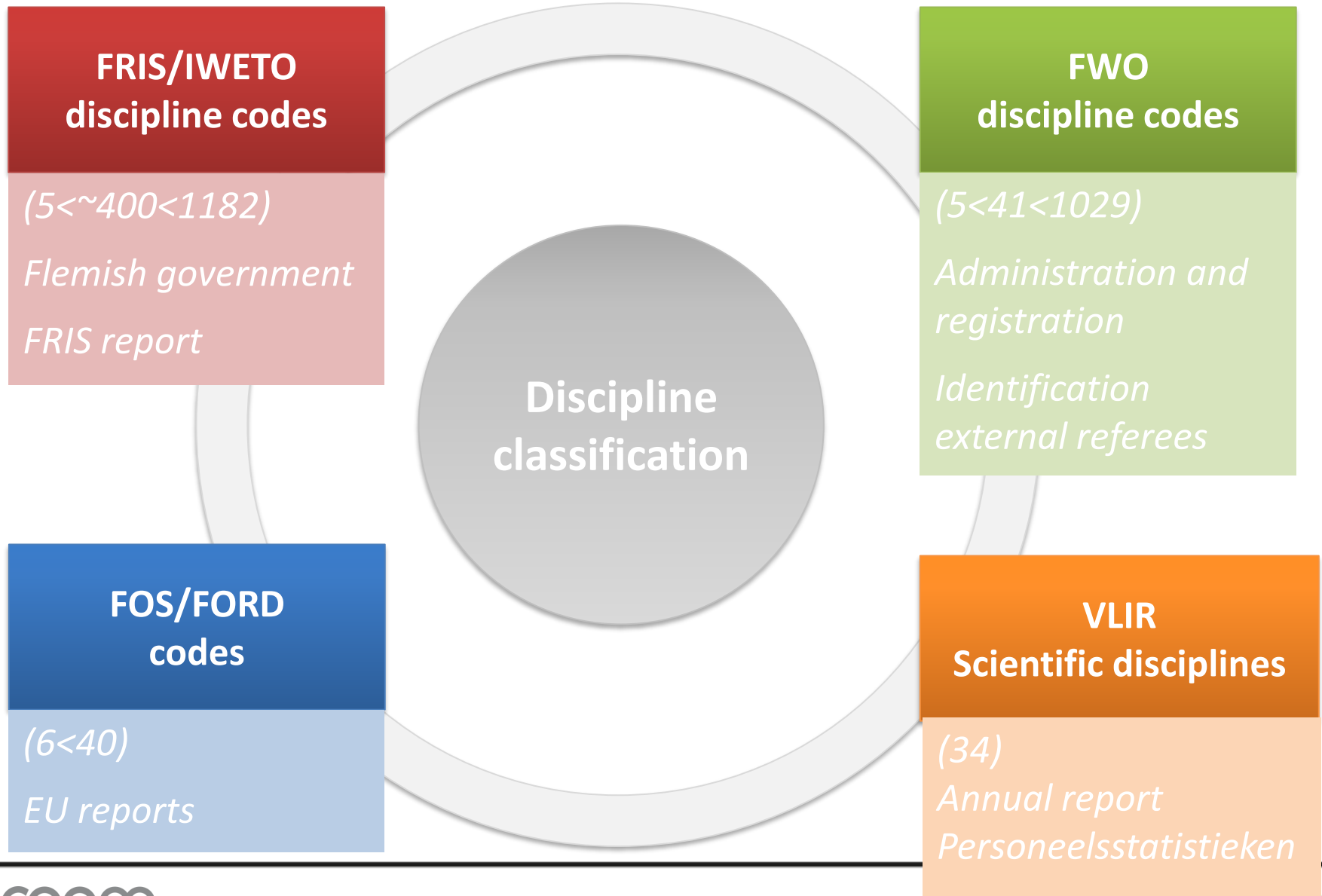
Research classifications



Multiple discipline classification systems



Multiple discipline classification systems



Uniformisation discipline classifications

Flemish Research Discipline Standard (FRDS)

1. 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

Flemish Research Discipline Standard v2018

Specifications

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

} Research reports

} Expertise

Sector (Level 1)	Disciplinary Field L1	Disciplinary Subfield L2	Disciplinary Subfield L3	Definitions
Interdisciplinary topics				
Architecture				
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010100	Architectural engineering is the discipline concerned with t
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010101 Structural design	Structural design is the discipline concerned with the meth
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010102 Structural optimisation	Structural optimisation is the discipline covering studies o
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010103 Sustainable building	Sustainable building is the research field referring to both a
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010109 Architectural engineering not elsewhere classified	All subdisciplines of 'architectural engineering' that are no
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011100	Urban and regional design, development and planning is th
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011101 Environmental and sustainable planning	Environmental and sustainable planning is the research fie
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011102 Housing markets, development, management	Housing markets, development, management is the research
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011103 Smart cities	Smart cities is the research field studying the urban develo
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011104 Urban and regional design	Urban and regional design is the research field studying th
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011105 Urban and regional development	Urban and regional development is the research field study
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011106 Urban and regional planning policy, instruments and legislation	Urban and regional planning policy, instruments and legis
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011107 Urbanism and regional planning	Urbanism and regional planning is the research field study
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011199 Urban and regional design, development and planning not elsewhere clas	All subdisciplines of 'urban and regional design, developm
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040300	Art studies and sciences is the discipline encompassing the
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040301 Architectural history and theory	Architectural history and theory is the research field study
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040304 Architectural design history and theory	Architectural design history and theory is the research fie
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040311 Interior architecture history and theory	Interior architecture history and theory is the research fie
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040312 Landscape architecture history and theory	Landscape architecture history and theory is the research f
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040399 Art studies and sciences not elsewhere classified	All subdisciplines of 'art studies and sciences' that are not
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040100	Architectural design studies the art and science of designi
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040101 Design innovation	Design innovation is the research field studying how to solv
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040102 Design management	Design management is the research field studying techniqu
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040103 Design practice	Design practice is the research field that studies the practi

Flemish Research Discipline Standard v2018

Specifications

- 4 hierarchical levels
 - Level 1: 7 codes
 - Level 2: 42 codes
 - Level 3: 382 codes
 - Level 4: 2866 codes
- Definition for every discipline

} Research reports

} Expertise

Sector (Level 1)	Disciplinary Field L1	Disciplinary Subfield L2	Disciplinary Subfield L3	Definitions
Interdisciplinary topics				
Architecture				
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010100	Architectural engineering is the discipline concerned with t
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010101 Structural design	Structural design is the discipline concerned with the meth
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010102 Structural optimisation	Structural optimisation is the discipline covering studies o
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010103 Sustainable building	Sustainable building is the research field referring to both a
02 Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010199 Architectural engineering not elsewhere classified	All subdisciplines of 'architectural engineering' that are no
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011100	Urban and regional design, development and planning is th
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011101 Environmental and sustainable planning	Environmental and sustainable planning is the research fie
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011102 Housing markets, development, management	Housing markets, development, management is the research
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011103 Smart cities	Smart cities is the research field studying the urban develo
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011104 Urban and regional design	Urban and regional design is the research field studying th
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011105 Urban and regional development	Urban and regional development is the research field study
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011106 Urban and regional planning policy, instruments and legislation	Urban and regional planning policy, instruments and legis
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011107 Urbanism and regional planning	Urbanism and regional planning is the research field study
02 Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011199 Urban and regional design, development and planning not elsewhere clas	All subdisciplines of 'urban and regional design, developm
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040300	Art studies and sciences is the discipline encompassing the
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040301 Architectural history and theory	Architectural history and theory is the research field study
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040304 Architectural design history and theory	Architectural design history and theory is the research fie
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040311 Interior architecture history and theory	Interior architecture history and theory is the research fie
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040312 Landscape architecture history and theory	Landscape architecture history and theory is the research f
06 Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040399 Art studies and sciences not elsewhere classified	All subdisciplines of 'art studies and sciences' that are not
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040100	Architectural design studies the art and science of designi
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040101 Design innovation	Design innovation is the research field studying how to solv
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040102 Design management	Design management is the research field studying techniqu
06 Humanities and the arts	0604 Arts	060401 Architectural design	06040103 Design practice	Design practice is the research field that studies the practi



Flemish Research Discipline Standard v2018

Specifications

- 4 hierarchical levels
 - Level 1: 7 codes
 - Level 2: 42 codes
 - Level 3: 382 codes
 - Level 4: 2866 codes
- Definition for every discipline
- Monitoring new disciplines: not elsewhere classified

} Research reports

} Expertise

Sector (Level 1)	Disciplinary Field L1	Disciplinary Subfield L2	Disciplinary Subfield L3	Definitions	
Interdisciplinary topics					
Architecture					
02	Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010100 Architectural engineering is the discipline concerned with t	
02	Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010101 Structural design	Structural design is the discipline concerned with the metho
02	Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010102 Structural optimisation	Structural optimisation is the discipline covering studies of
02	Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010103 sustainable building	Sustainable building is the research field referring to both a
02	Engineering and technology	0201 Civil and building engineering	020101 Architectural engineering	02010199 Architectural engineering not elsewhere classified	All subdisciplines of 'architectural engineering' that are no
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011100 Urban and regional design, development and planning	Urban and regional design, development and planning is th
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011101 Environmental and sustainable planning	Environmental and sustainable planning is the research fie
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011102 Housing markets, development, management	Housing markets, development, management is the research
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011103 Smart cities	Smart cities is the research field studying the urban develop
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011104 Urban and regional design	Urban and regional design is the research field studying the
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011105 Urban and regional development	Urban and regional development is the research field study
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011106 Urban and regional planning policy, instruments and legislation	Urban and regional planning policy, instruments and legisla
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011107 Urbanism and regional planning	Urbanism and regional planning is the research field study
02	Engineering and technology	0201 Civil and building engineering	020111 Urban and regional design, development and plann	02011199 Urban and regional design, development and planning not elsewhere clas	All subdisciplines of 'urban and regional design, developm
06	Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040300 Art studies and sciences	Art studies and sciences is the discipline encompassing the
06	Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040301 Architectural history and theory	Architectural history and theory is the research field studyi
06	Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040304 Architectural design history and theory	Architectural design history and theory is the research fiel
06	Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040311 Interior architecture history and theory	Interior architecture history and theory is the research fiel
06	Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040312 Landscape architecture history and theory	Landscape architecture history and theory is the research fi
06	Humanities and the arts	0604 Arts	060403 Art studies and sciences	06040399 Art studies and sciences not elsewhere classified	All subdisciplines of 'art studies and sciences' that are not
06	Humanities and the arts	0604 Arts	060401 Architectural design	06040100 Architectural design	Architectural design studies the art and science of designin
06	Humanities and the arts	0604 Arts	060401 Architectural design	06040101 Design innovation	Design innovation is the research field studying how to solv
06	Humanities and the arts	0604 Arts	060401 Architectural design	06040102 Design management	Design management is the research field studying techniqu
06	Humanities and the arts	0604 Arts	060401 Architectural design	06040103 Design practice	Design practice is the research field that studies the practi

Flemish Research Discipline Standard v2018

- Specifications
 - 4 hierarchical levels
 - Level 1: 7 codes
 - Level 2: 42 codes
 - Level 3: 382 codes
 - Level 4: 2866 codes
- Definition for every discipline
- Monitoring new disciplines: not elsewhere classified
- 3 “interdisciplinary topics”
 - Visibility
 - Architecture, mobility, nanotechnology

} Research reports

} Expertise

Flemish Research Discipline Standard v2018

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

} Research reports

} Expertise
 - Definition for every discipline
 - Monitoring new disciplines: not elsewhere classified
 - 3 “interdisciplinary topics”
 - Visibility
 - Architecture, mobility, nanotechnology
 - Concordance tables (!)
 - 1 FRDS code → n codes
 - N codes → 1 FRDS code

Flemish Research Discipline Standard: users

- FRIS
 - Visualisation portal (level 4)
 - Researchers
 - Organisations
 - Projects
 - From 2022 on: infrastructure, datasets
 - Financial reports (level 2): expenditure per discipline
- Annual reports of universities
 - Expenditure per discipline (level 2)

Flemish Research Discipline Standard: users

- Funding agencies (e.g. FWO)
 - Labelling of project disciplines (level 4)
 - Labelling expertise researchers (level 4)
- VLIR report on staff statistics
 - Report staff (level 2)
- Human Resources in Research Flanders (HRRF)
 - Monitoring researcher careers (level 4)
- Ad hoc: labelling of research expertise in Flanders
 - e.g. Sciensano



More information



ECOOM@uhasselt.be

ECOOM-Hasselt team (FRDS):

- Sadia Vancauwenbergh (project leader)
- Hanne Poelmans (researcher)
- Jana Cuyvers (researcher)

Funded by:

- Department of Economy, Sciences and Innovation of the Flemish Government