

CHANGING CLASSIFICATION SCHEMES AND TYPES IN PURE
ROBBY PAUWELS & ANA MARABUTO NEVES



VRIJE
UNIVERSITEIT
BRUSSEL

Eurocris Leuven 14/05/2025

INTRODUCTION

Robby Pauwels – Information Manager

- Teamleader of Pure team (2 admins, 2 analysts)
- Develop, maintain, evaluate, adapt and direct the information management, digital information provision and ICT facilitation of the institution and/or department, appropriate to the information needs of the institution and/or department and technological developments, in order to achieve an effective and efficient provision of information.

Ana Marabuto Neves – Pure Data Analyst / Documentation specialist

- Maintains the accuracy and completeness of research data
- Generates reports and insights to support institutional strategy and compliance.
- Creates documentation for system use.

INTRODUCTION

Current **R**esearch **I**nformation **S**ystem=

Database to store and manage data about research conducted at an institution.

The screenshot shows the 'Pure' dashboard for Vrije Universiteit Brussel. The interface includes a top navigation bar with tabs like 'Editor', 'Master data', 'Reporting', 'Dashboard', 'Award management', 'Administrator', and 'Usage analytics'. A left sidebar lists various categories such as 'Research outputs', 'Activities', 'Prizes', 'Press/Media', 'Applications', 'Awards', 'Projects', 'Ethical reviews', 'Funding opportunities', 'Impacts', 'Datasets', 'Student theses', 'Facilities/Equipment', 'Curricula Vitae', and 'Report definitions'. The main content area is divided into several sections, each with a table of data. The 'Research outputs' section shows a total of 156,760 items, with sub-categories like 'Article (Contribution to journal)' (66,665), 'Chapter' (16,542), 'Meeting abstract (Book)' (15,609), 'Conference paper' (15,477), 'Article (Contribution to specialist/vulgarizing publication)' (5,670), 'Book' (5,136), 'Commissioned report' (3,903), 'PhD Thesis' (3,754), 'Poster' (3,246), and 'Meeting abstract (Journal)' (2,782). The 'Activities' section shows 97,315 items, including 'Participation in workshop, seminar' (17,548), 'Talk or presentation at a conference' (17,383), 'Participation in conference' (15,330), 'Talk or presentation at a workshop/seminar' (11,611), 'Membership of external research organisation' (6,229), 'Research and Teaching at External Organisation' (5,182), 'Membership of peer-review panel or committee' (3,450), 'Participating in or organizing a public lecture/debate' (3,255), 'Talk at a public lecture/debate' (3,249), and 'Consultancy' (2,343). The 'Prizes' section shows 3,389 items, including 'Prize (including medals and awards)' (2,489), 'Fellowship awarded competitively' (540), 'National/international honour' (157), 'Other distinction' (134), 'Appointment' (37), and 'Election to learned society' (32). The 'Press/Media' section shows 12,729 items, including 'Other' (8,282), 'Expert Comment' (3,194), 'Research' (828), and 'Public Engagement Activities' (425). The 'Applications' section shows 3,277 items, including 'Proposal (Other)' (1,708) and 'Proposal (National Industry)' (509). The 'Awards' section shows 22,246 items, including 'Award (Other)' (11,646), 'Award (National Industry)' (2,129), 'Award (National Government)' (2,000), and 'Award (EU/C)' (1,830). On the right side, there are sections for 'Tasks' and 'Notifications'. The 'Tasks' section lists items not synchronized to FRIS, such as '1603 Persons', '340 Research outputs', '31 Projects', and '1 Dataset'. The 'Notifications' section shows a message from 'Lucas De Maessene' received 8 days ago, with a link to 'Help and support'.

CURRENT RESEARCH INFORMATION

There are several Belgian (research) institutions that either:

- Use Pure
- Use Pure multitenant **via WEWIS** (Flemish government – Department of Work, Economy, Science, Innovation & Social Economy)
- Have another CRIS solution

Each Flemish University sends its information to **FRIS-platform**.

FRIS = Flanders Research Information Space

More information about FRIS and the Flemish Government at: <https://researchportal.be/nl>



CURRENT RESEARCH INFORMATION SYSTEM

(Research) institutions using PURE:

- **VUB**: Free University of Brussels
- **INBO**: Institute for Nature and Forest Research
- **ILVO**: Institute of Agriculture, Fisheries and Food Research
- **ITG**: Institute of Tropical Medicine Antwerp
- **SCKEN**: Belgian Nuclear Research Centre
- (UNamur: University of Namur (Wallonia))



CURRENT RESEARCH INFORMATION SYSTEM

(Research) institutions using PURE **through WEWIS** (WEWIS multitenant)



**Plantentuin
Meise**

- **Botanical garden**



- **Royal Museum of Fine
arts Antwerp**

CURRENT RESEARCH INFORMATION SYSTEM

(Research) institutions using PURE **through WEWIS** (WEWIS multitenant)

Use Pure (eg VUB)	WEWIS multitenant (eg Plantentuin Meise)
Greater number of researchers	Fewer researchers
Greater amount of research output	Fewer research outputs
Decentralized entry of publications possible (by researchers themselves)	Central input of research output
More flexibility to configure Pure	Existing configuration must be maintained as there are other users of the same system
Maintenance and follow-up of Pure is at institution itself	Support through WEWIS (and PUC) maintenance at WEWIS

CURRENT RESEARCH INFORMATION SYSTEM

(Research) institutions in Flanders that have other solution:



CURRENT RESEARCH INFORMATION SYSTEM

Research data in Pure:

- Publications
- Projects & funding (=awards)
- Activities
- Equipment/ Infrastructure
- Datasets
- ...

Master data in Pure:

- Internal & external organizations
- Internal & external persons
- Journals & Publishers
- ...

PUC-BE

Start: 2012

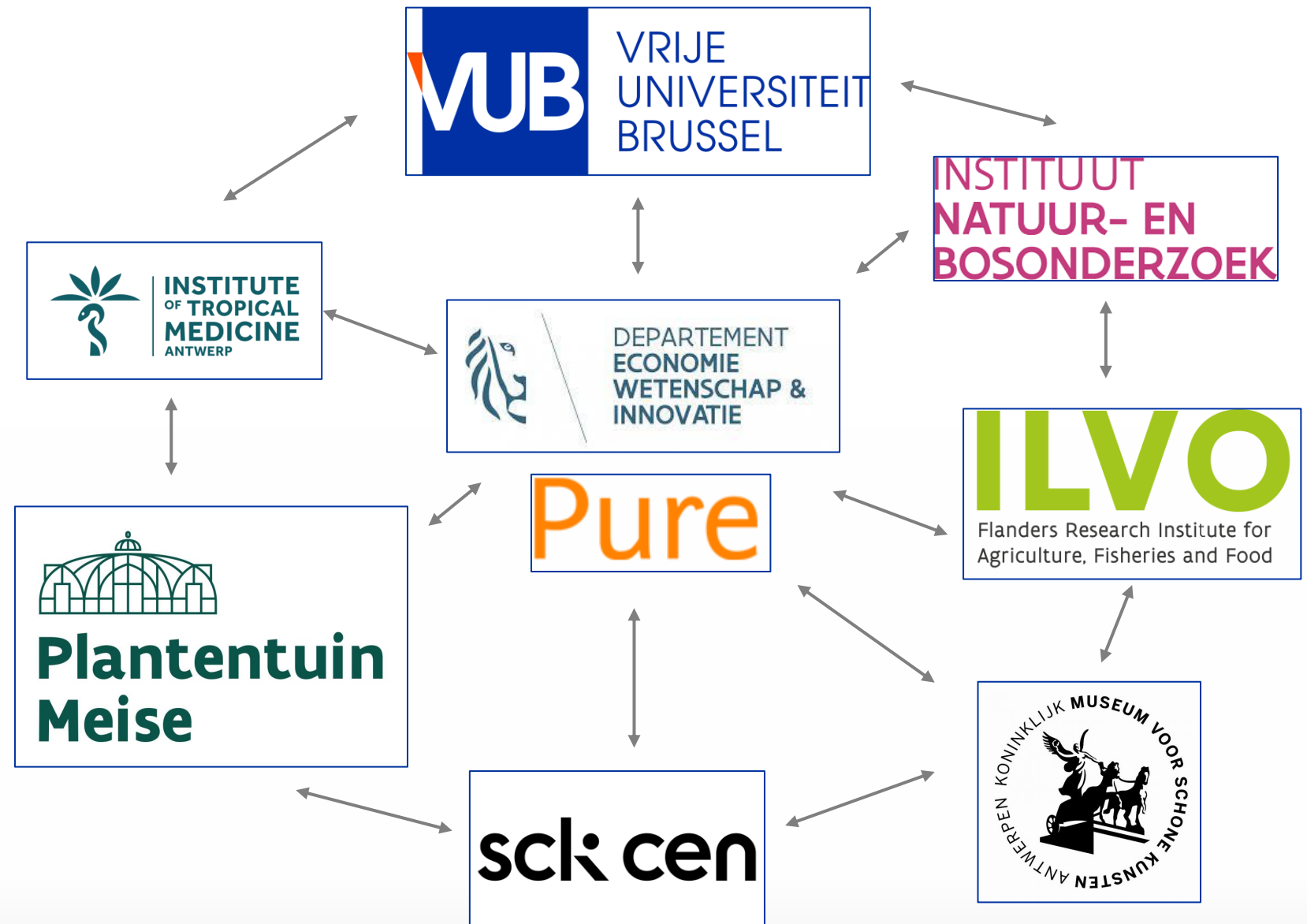
Chair: VUB

- since 2016

2x per year

Elsevier User group

- new platform
- since 2024



ADDING INFORMATION

Pure 4.33.3 - Voeg nieuw item toe - Microsoft Edge

https://www.friscris.be/admin/submission.xhtml

Voeg nieuw item toe

Submission guide

Onderzoeksoutput

Maak aan op basis van een sjabloon

Importeer via een online bron

Importeer via een bestand

Activiteit

Prijs

Pers / media

Aanvraag

Toelage

Project

Dataset

Scriptie/masterproef

Uitrusting/faciliteit

Curriculum Vitae

Bijdrage aan tijdschrift

Hoofdstuk in Boek/Rapport/Congresprocedure

Boek/rapport

Bijdrage aan congres

Niet-tekstuele vorm

Scriptie

Octrooi

Andere bijdrage

Een afgewerkt uniek werk, gepubliceerd in één of meerdere volumes. Meestal met één of meerdere auteurs in één of meerdere vakgebieden. Het kan gericht zijn op een specifiek wetenschappelijk publiek of geschreven zijn voor een breder publiek.

Boek Kies

Anthologie

Rapport

P1: Proceedings in ISI

Opgedragen rapport

ADDING INFORMATION

https://www.friscris.be/admin/editor/dk/atira/pure/api/shared/model/researchoutput/editor/bookanthologyeditor.xhtml?scheme=/dk/atira/pure/researchoutput/researchoutputtypes&type=/dk/atira/pure/researchoutput/researchc

Onderzoeksoutput: Boek/rapport > Boek > Onderzoek Verander van sjabloon

BEWERKEN

Metadata

Metrics

FRIS

Vertaling

OVERZICHT

Relaties

Toon samenvatting

GESCHIEDENIS EN OPMERKINGEN

Geschiedenis en opmerkingen

MEDEDELINGEN

Editors verantwoordelijk om deze inhoud te verwerken: Geen

Opmerking over workflowstapwijziging:

Type

Peer review *
☐ Peer review ☐ Geen peer review

Publicatiestatus ⓘ
Publicatiestatusen en -data *
Gepubliceerd ▼ 2019 Huidige
Publicatiestatus en -datum toevoegen...

Publicatie-informatie ⓘ
Originele taal-2 *
Nederlands ▼
Titel van de bijdrage in de oorspronkelijke taal *

Subtitel van de bijdrage in de oorspronkelijke taal

Uittreksel

Aantal pagina's

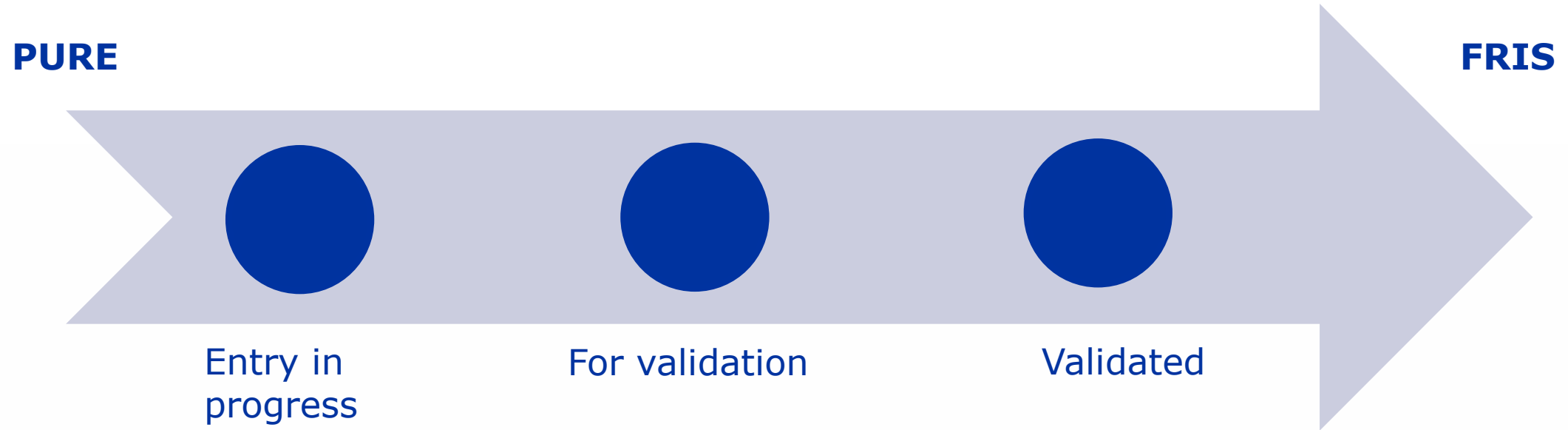
Validatiestatus: Ter goedkeuring ▼ Bewaren

VUB VRIJE
UNIVERSITEIT
BRUSSEL

Titel van de presentatie
22-5-2025 | 12

SENDING TO FRIS

Validation workflow to FRIS:



SENDING TO FRIS

The information must be complete to be validated (! **Mandatory Fields**).

The person doing the input and the person validating are not the same, so a workflow can be set up in which the rights of those two people are different.

► **More quality control (e.g. Research Output, Dataset, Project)**

All validated published papers and projects with a publication date **after 2008** go to FRIS.

FRIS MODULE

CLASSIFICATIONS

**FRIS**
Onderzoeksportaal.be

[Overzicht](#)
[Objecten](#)
[Organisaties](#)
[Personen](#)
[Infrastructuren](#)
[Projecten](#)
[Outputs](#)
[Octrooien](#)
[Tijdschriften](#)
[Datasets](#)
[Documentatie](#)
[Funding codes](#)
Classifications

Selectie exporteren

Items per page: 100 1 - 100 of 101

☐	Beschrijving	Schema ID	Leverancier ID
☐	Applicatiecodes	Application Code	fris (APPLICATION_CODE)
☐	Application type	Application type	fris (APPLICATION_TYPE)
☐	Belspo category	Belspo Category	fris (BELSPO)
☐	Classification relationship	Iso25964-1	fris (CLASSIFICATION_RELATIONSHIP)
☐	Landen codes	ISO 3166-1 alpha 2 Country Code	fris (COUNTRY)
☐	Country to Person Role	Country to Person Role	fris (COUNTRY_TO_PERSON_ROLE)
☐	Creative Commons licenses	Creative Commons License Type	fris (CREATIVE_COMMONS_LICENSE)
☐	DMP Code	DMP Code	fris (DMP_CODE)
☐	Dataleverancier perspectief	Dataprovider Viewpoint Type	fris (ENTITY_MANAGEMENT_TYPE)
☐	Dataset Access Rights	Dataset Access Rights	fris (DATASET_ACCESS_RIGHT)
☐	Dataset Infrastructure Relation Roles	Dataset to Infrastructure Role	fris (DATASET_TO_INFRASTRUCTURE_ROLE)

FRIS MODULE

MAPPING WITH PURE

Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/nontextual/design

FRIS term

Design



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/nontextual/digitalorvisualproducts

FRIS term

Digital



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/nontextual/exhibition

FRIS term

Event



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/nontextual/performance

FRIS term

Event



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/nontextual/software

FRIS term

Digital



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/nontextual/web

FRIS term

Digital



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/othercontribution

FRIS term

Artefact



Pure term

/dk/atira/pure/researchoutput/researchoutputtypes/othercontribution/other

FRIS term

Artefact



Items per page:

10

51 – 60 of 70



FIN-CODES

FIN-CODES

INTRODUCTION

- The list of funding codes (FIN)
- Created in the early 1990s
- for use in the context of the delivery of research information from Flemish universities to the Flemish government.
- The universities also integrated the list into their internal databases.
- Since the first deliveries, the list has been regularly updated and further refined.
- Today, the management of the list is coordinated by the Expertise Center for Research and Development Monitoring (ECOOM).
- In a consultation group with the EWI department and the FRIS suppliers, ECOOM makes agreements about adjustments to the list of funding programs and their proper use.

FIN-CODES

INPUT

- On object "Award"
- By multiple secretariats & admins + PUC-BE
- Errors in use
 - Example 1: use FRIS relevant FIN-code on Moneystream 1
 - Example 2: FIN-code deprecated in 2017, on award of 2018

FRIS MODULE

FIN-CODES

Objecten

Organisaties

Personen

Infrastructuren

Projecten

Outputs

Octrooien

Tijdschriften

Datasets

Documentatie

Funding codes

Classifications

Logging

Logging datalevering

Funding Codes

↓ Exporteren

Code	Beschrijving
1	Eigen middelen
1000	Eigen Middelen zoals patrimonium, inschrijvingsgelden, giften,
2	Institutionele werkingstoelagen (v.d. overheid)
2.1	Universiteiten
210	Univ. - Vrij onderzoek (niet-projectmatig)
211	Univ. - Doctoraatsonderzoek mandaatassistenten
212	Univ. - Projectmatig onderzoek
213	Univ. - Teamgebonden financiering (gelden aan onderzoeksgroep toegewezen)
2.2	Hogescholen
2.3	Vlaamse Onderzoeksinstituten (VOI - ongeacht jur. statuut)

FIN-CODES

PUC-BE EXCEL

	A	B	N	O	P	Q	R	
1		Tabel bevat alle FIN codes zoals beschikbaar in Tab "FIN_Allowed" minus codes die niet behoren tot de 2de of 3de geldstroom zoals gedetailleerd in de "Classified as [Business Object						
2	Is encoded	Has translation [Business Asset] > Name	Start Date	End Date	Award Type (Suggestie)	DMP	KPI	Extra Info / VUB Project
3	2.	Institutionele werkingstoelagen (v.d. overheid)			National Government			
11	3.	Internationale middelen			National Government / EU			
104	4.	Publieke financiering door de federale overheid			National Government			
195	5.	Publieke financiering door de gewesten/gemeenschappen			National Government			
196	5.0	Vlaamse impuls- en onderzoeksprogramma's			National Government			
215	5.1	Onderzoek op ministerieel initiatief - Vlaamse Regering			National Government			
229	5.2	Vlaamse Onderzoeksinstituten, universiteiten en hogescholen als externe financiers			National Government			
237	5.3	Vlaamse wetenschappelijke instellingen			National Government			
259	5.4	Vlaamse aanvullende rechtstreekse onderzoeksfinanciering			National Government			
260	5403	Onderzoeksfinanc. in het kader van intern., bilat. en/of culturele akkoorden	1993-01-01	9999-12-31	National Government		KPI	
261	5423	BOF - doctorale mandaten	2019-01-01	9999-12-31	National Government	DMP	KPI	
262	5424	BOF - postdoctorale mandaten	2019-01-01	9999-12-31	National Government	DMP	KPI	
263	5425	BOF - tenure track	2019-01-01	9999-12-31	National Government		KPI	Tenure track BOF
264	5426	BOF - ZAP BOF mandaten	2019-01-01	9999-12-31	National Government		KPI	Senior Research Fellowship
265	5427	BOF - Methusalem	2019-01-01	9999-12-31	National Government		KPI	Methusalem

FLEMISH DISCIPLINE CODES

FLEMISH DISCIPLINE CODES

- (...)
 - 06/03/04 Theology and religious studies
 - 06/03/04/01 History of religions, churches and theology
 - 06/03/04/02 Theories of religions 06/03/04/03 Study of Christianity
 - 06/03/04/04 Study of Islam and quranic studies
 - (...)
- ▶ **The discipline codes should be in PURE and sent to FRIS**
 - ▶ **Codes are reviewed every 5 years**

FLEMISH DISCIPLINE CODES

Mandatory for:

- Projects
- Organizations (if Research Group)
- Persons

FLEMISH DISCIPLINE CODES

CONVERSION TO NEW CLASSIFICATION

Option 1: Complete conversion to a new list + retroactively adjust codes that drop/change due to mappings

- Best option with many structural changes
- Time intensive

Option 2: Start and end dates for disciplines.

- Compiled list (old list only backhand).
- Filter only on new codes
- Old codes are on the sheets with maturities
 - Complex
 - FRIS (Flemish gov) can only hold compiled list temporarily (max. 1-1.5 years)

FLEMISH DISCIPLINE CODES

CONVERSION TO NEW CLASSIFICATION

PUC-BE winner:

Option 1: Complete conversion to a new list + retroactively adjust codes that drop/change due to mappings

FLEMISH DISCIPLINE CODES

IMPACT ANALYSIS

- 1-to-N overview

Oude disciplinecode	Oude discipline	Nieuwe disciplines	Aantal nieuwe disciplines
0504	Sociology and anthropology	0509 - Sociology; 0510 - Anthropology	2
010107	Statistics and numerical methods	010108 - Statistics; 010109 - Numerical methods	2
010399	Other physical sciences	010312 - Biophysics; 010399 - Other physical sciences	2
030299	Other clinical sciences	030237 - Human and medical genetics; 030299 - Other clinical sciences	2
050499	Other sociology and anthropology	050999 - Other sociology; 051099 - Other anthropology	2
01010703	Statistics	01010802 - Statistical theory; 01010803 - Stochastic analysis and modelling ; 01010804 - Statistical data science ; 01010805 - Large and complex data theory ; 01010806 - Time series and spatial modelling ; 01010807 - Computational statistics ; 01010808 - Design of experiments and sampling techniques ; 01010809 - Biostatistics, statistical methodology in epidemiology and public health ; 01010810 - Statistical methodology in social, behavioural and educational sciences ; 01010811 -	13
01010799	Statistics and numerical methods not elsewhere classified	01010802 - Statistical theory; 01010803 - Stochastic analysis and modelling ; 01010804 - Statistical data science ; 01010805 - Large and complex data theory ; 01010806 - Time series and spatial modelling ; 01010807 - Computational statistics ; 01010808 - Design of experiments and sampling techniques ; 01010809 - Biostatistics, statistical methodology in epidemiology and public health ; 01010810 - Statistical methodology in social, behavioural and educational sciences ; 01010811 - Industrial statistics ; 01010812 - Official statistics ; 01010813 - Forensic evaluation, inference and statistics ; 01010899 - Statistics not elsewhere classified; 01010902 -	18
01030199	Astronomy and space sciences not elsewhere classified	01030117 - Detector developments for fundamental physics; 01030199 - Astronomy and space sciences not elsewhere classified	2
01030599	Elementary particle and high energy physics not elsewhere	01030505 - Detector developments for fundamental physics; 01030599 - Elementary particle and high energy physics not elsewhere classified	2
01030899	Nuclear physics not elsewhere classified	01030804 - Detector developments for fundamental physics; 01030899 - Nuclear	2
01039999	Other physical sciences not elsewhere classified	01031201 - Medical biophysics; 01031202 - Molecular biophysics; 01031203 - Physiological biophysics; 01031299 - Biophysics not elsewhere classified; 01039999	5

FLEMISH DISCIPLINE CODES

IMPACT ANALYSIS

- 1-to-N changes
- Collab with UHasselt
- Delivery to FRIS
 - (Flemish gov)
- Object types
 - Persons
 - Organisations
 - Projects

	# geïmpacteerde objecten	# publiek zichtbare projecten in FRIS	%		
projecten	2469	61.181	4%		
personen	7706	100.137	8%		
organisaties	89	2868	3%		

Project Data Provider	# geïmpacteerde Projecten	# lopende projecten	# geïmpacteerde Personen	onderzoekers actief (op 20/3/23)	# geïmpacteerde Organisaties	organisaties actief (op 20/3/23)
AlamireFoundation	1	0				
DOSP_ArtesisPlantijn			1	1		
Hogeschool_Gent	2	1			3	3
Hogeschool_West-Vlaanderen	2	0	1	1	1	1
ILVO			4	4		
INBO			6	6		
Karel_de_Grote_Hogeschool	1	1				
KULeuven	812	265	1208	378	20	19
Orpheus			3	3		
UAntwerpen	702	57	2347	703	22	11
UGent	764	116	3323	853	19	16
UHasselt	98	35	226	151	10	6
VITO	1	1	1	1	1	1
VlerickBusinessSchool	1	0	1	0		
VLIZ	1	1				
VUBrussel	84	26	585	269	13	8
totaal	2469	503	7706	2370	89	65

3 types of 1-to-N changes

Type 1) Splits where content choice is required

- 0504 Sociology and anthropology
 - 0509 Sociology **OR** 0510 Anthropology
- 010107 Statistics & numerical methods
 - 010108 Statistics **OR** 010109 Numerical methods

3 types of 1-to-N changes

Type 2) New subject codes

01010703 Statistiek

→ 12 new codes (statistical theory, statistical data science, etc.) **AND** Statistics not elsewhere classified (01010899)

VODS-CODES IMPACT ANALYSIS

3 types of 1-to-N changes

Type 3) Other and not elsewhere classified

- XXXX99 Other ...
- XXXXXX99 Not elsewhere classified
- XXXX9999 Other ... not elsewhere classified
- 20 discipline codes

01010799	Statistics and numerical methods not elsewhere classified	01010802 - Statistical theory; 01010803 - Stochastic analysis and modelling ; 01010804 - Statistical data science ; 01010805 - Large and complex data theory ; 01010806 - Time series and spatial modelling ; 01010807 - Computational statistics ; 01010808 - Design of experiments and sampling techniques ; 01010809 - Biostatistics, statistical methodology in epidemiology and public health ; 01010810 - Statistical methodology in social, behavioural and educational sciences ; 01010811 - Industrial statistics ; 01010812 - Official statistics ; 01010813 - Forensic evaluation, inference and statistics ; 01010899 - Statistics not elsewhere classified; 01010902 - Numerical solution of differential and integral equations; 01010903 - Optimisation; 01010904 - Experimental mathematics; 01010905 - Numerical methods in dynamical systems; 01010999 - Numerical methods not elsewhere classified
01030199	Astronomy and space sciences not elsewhere classified	01030117 - Detector developments for fundamental physics; 01030199 - Astronomy and space sciences not elsewhere classified
01030599	Elementary particle and high energy physics not elsewhere classified	01030505 - Detector developments for fundamental physics; 01030599 - Elementary particle and high energy physics not elsewhere classified
01030899	Nuclear physics not elsewhere classified	01030804 - Detector developments for fundamental physics; 01030899 - Nuclear physics not elsewhere classified
01039999	Other physical sciences not elsewhere classified	01031201 - Medical biophysics; 01031202 - Molecular biophysics; 01031203 - Physiological biophysics; 01031299 - Biophysics not elsewhere classified; 01039999 - Other physical sciences not elsewhere classified
02020899	Electrical Power Engineering not elsewhere classified	02020805 - Power electronics; 02020899 - Electrical power engineering not elsewhere classified
03012399	Neurosciences not elsewhere classified	03012307 - Movement neuroscience; 03012308 - Neuroplasticity; 03012399 - Neurosciences not elsewhere classified
03022399	Neurosciences not elsewhere classified	03022307 - Movement neuroscience; 03022308 - Neuroplasticity; 03022399 - Neurosciences not elsewhere classified
03029999	Other clinical sciences not elsewhere classified	03023701 - Clinical genetics; 03023702 - Metabolic/biochemical genetics; 03023703 - Cytogenetics; 03023704 - Molecular genetics; 03023705 - Mitochondrial genetics; 03023706 - Clinical genetics and molecular diagnostics; 03023799 - Human and medical genetics not elsewhere classified; 03029999 - Other clinical sciences not elsewhere classified
03030399	Public health services not elsewhere classified	03030313 - Environmental epidemiology; 03030399 - Public health services not elsewhere classified
03062399	Neurosciences not elsewhere classified	03062307 - Movement neuroscience; 03062308 - Neuroplasticity; 03062399 - Neurosciences not elsewhere classified
04020199	Veterinary medicine not elsewhere classified	04020126 - Animal welfare science; 04020199 - Veterinary medicine not elsewhere classified
05040113	Social and cultural anthropology	05100114 - Media anthropology; 05100115 - Visual anthropology; 05100116 - Economic anthropology; 05100117 - Anthropology of mobility ; 05100118 - Anthropology of leisure and tourism; 05100199 - Social and cultural anthropology not elsewhere classified
05040199	Anthropology not elsewhere classified	05100114 - Media anthropology; 05100115 - Visual anthropology; 05100116 - Economic anthropology; 05100117 - Anthropology of mobility ; 05100118 - Anthropology of leisure and tourism; 05100199 - Social and cultural anthropology not elsewhere classified

QUESTIONS?

Contact Robby Pauwels

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HET
DENKEN
MAG
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THINKING
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