

DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY
- ICT APPLICATIONS OFFICE

RESEARCH DEPARTMENT – POLICY & QUALITY ENHANCEMENT UNIT

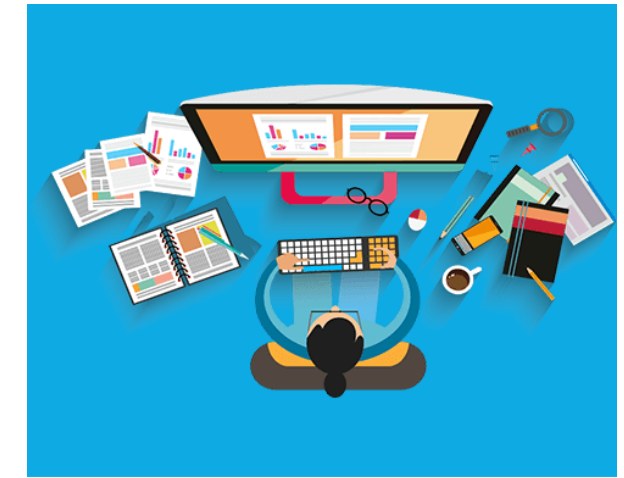


Spring Series of euroCRIS Webinars | 17 May 2021

The long and winding road...

[2011] Strategic plan of Ghent University contains action on presenting scientific expertise, coincides with ideas around institutional research

[2012] Memos and demos at Ghent Uni, EWI considering new research portal

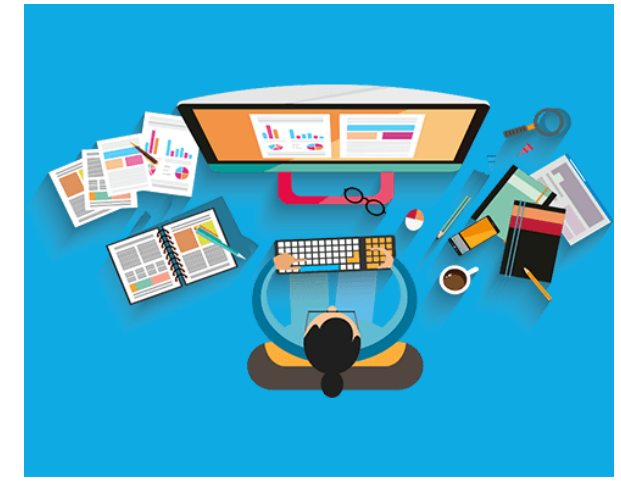


The long and winding road...

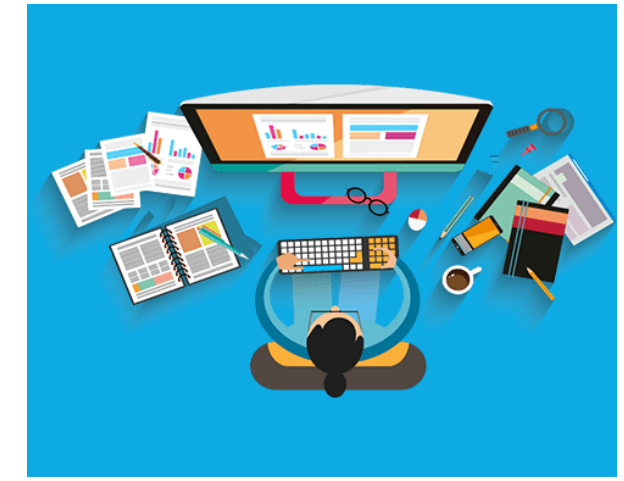
Research information system > GISMO

Purpose:

- (1) Integrated support (= digital workplace) of
 - workflows (both of researchers as admin)
 - information management (collecting, re-using, relating, adapting, making accessible)
- (2) Providing EWI/FRIS with data (legal obligation)



The long and winding road...



[2011] Strategic plan of Ghent University contains action on presenting scientific expertise, coincides with ideas around institutional research

[2012] Memos and demos at Ghent Uni, EWI considering new research portal

[2013] More memos and demos, introduction of GISMO Steering committee, signing of contract with EWI (providing incremental data by 2017)

[2014] Official go-ahead by university leadership

- In-house development
- Phase 1: basic data model and data delivery to EWI/FRIS
- Phase 2: focus on researcher requirements
- Start of the detailed analysis

[2015] Return to university leadership (hybrid model)

The long and winding road...

In-house development to retain maximum flexibility (EWI requirements, interfacing with and unique characteristics of other Ghent Uni systems, need for more functionalities (project application workflow), ...)

More control on cost

Limited choice in commercial products
(incl. ownership)

Existing JAVA expertise

Involving the research community (testing, governance)

HOW TO DRAW a PENGUIN

By OLIVER JEFFERS

1. WE all know how
important it is to draw
from REAL LIFE

so step 1 is:
BORROW a
PENGUIN



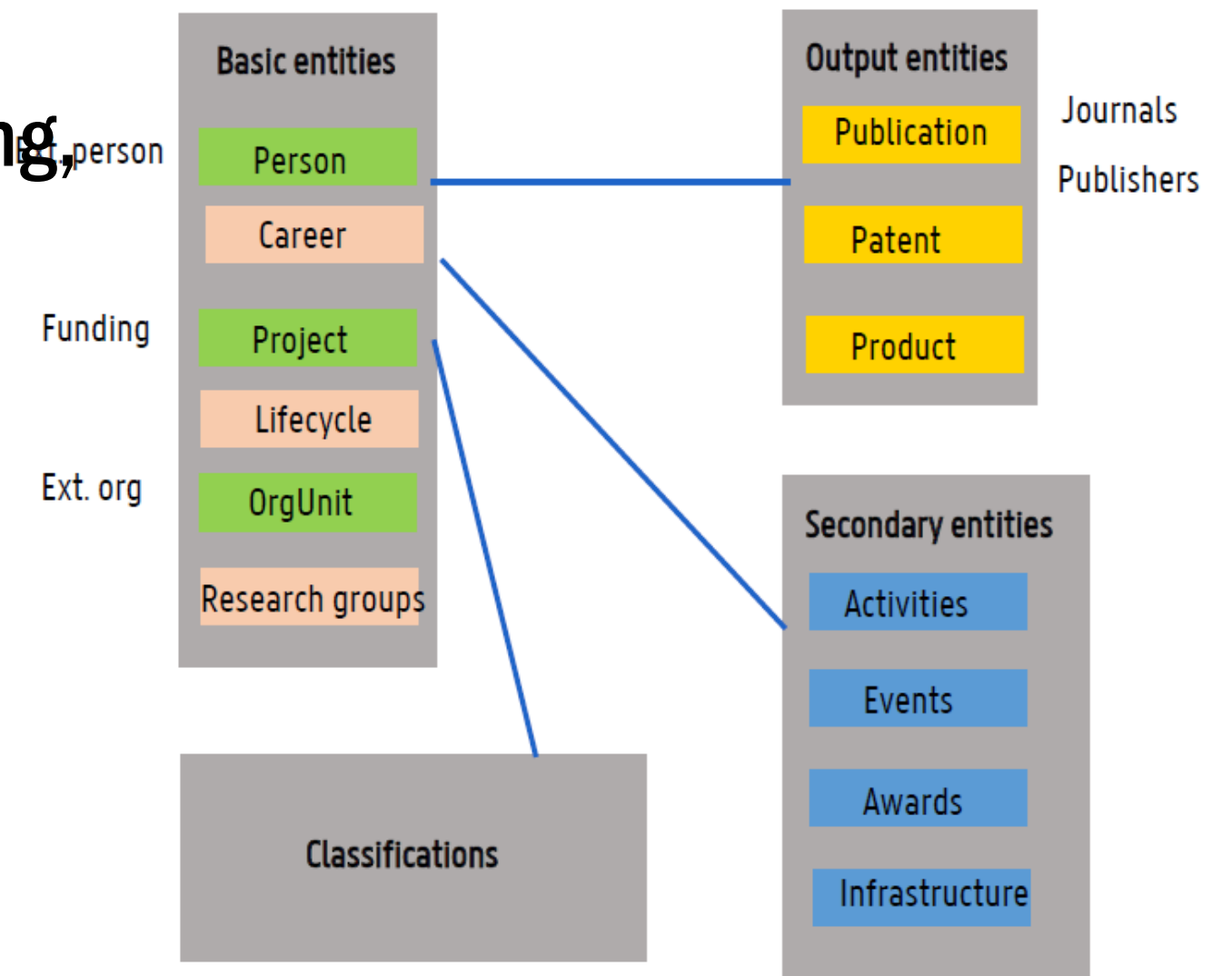
Enter GISMO

Research information system > GISMO

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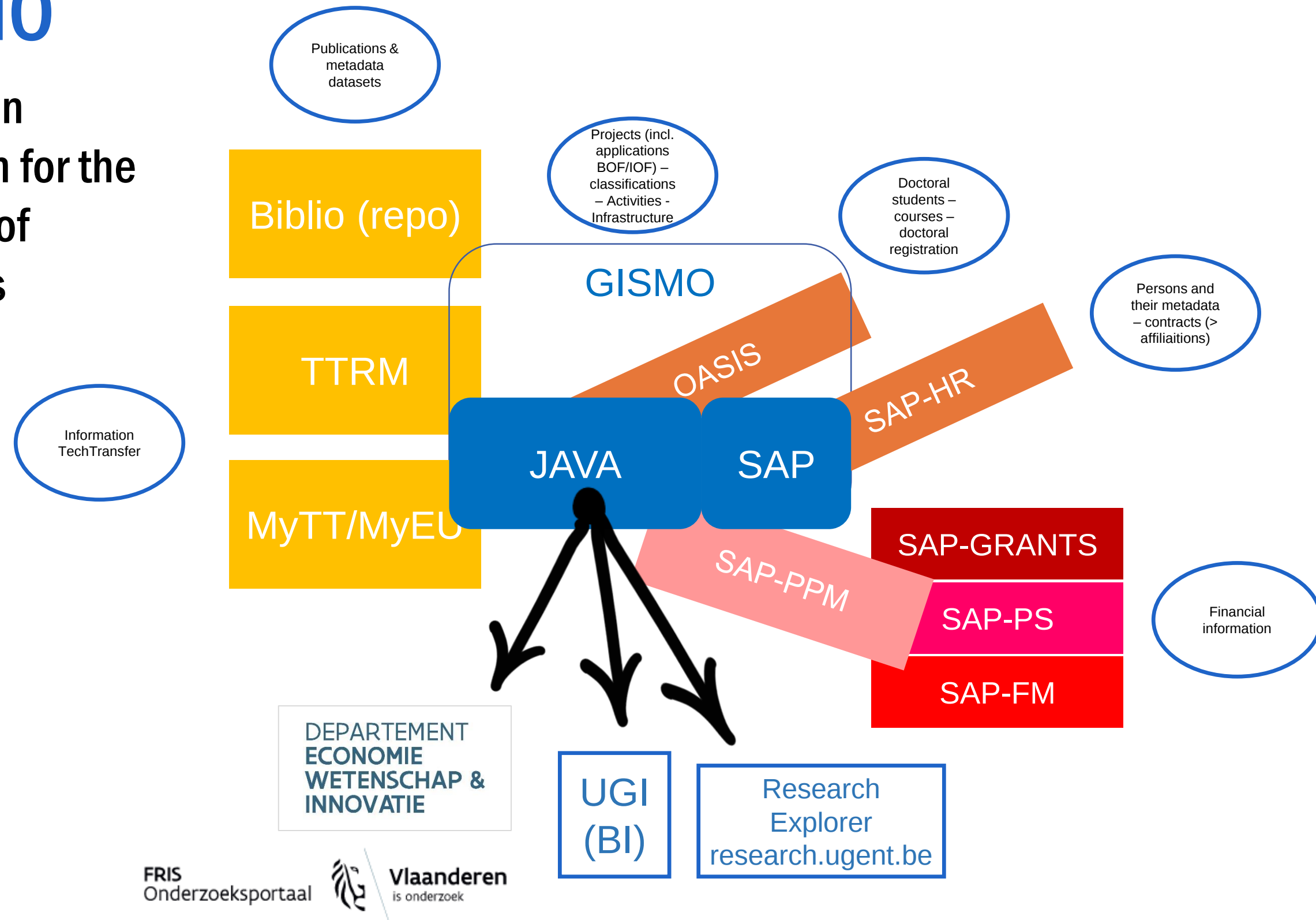
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CERIF based: datamodel and exchange format



Enter GISMO

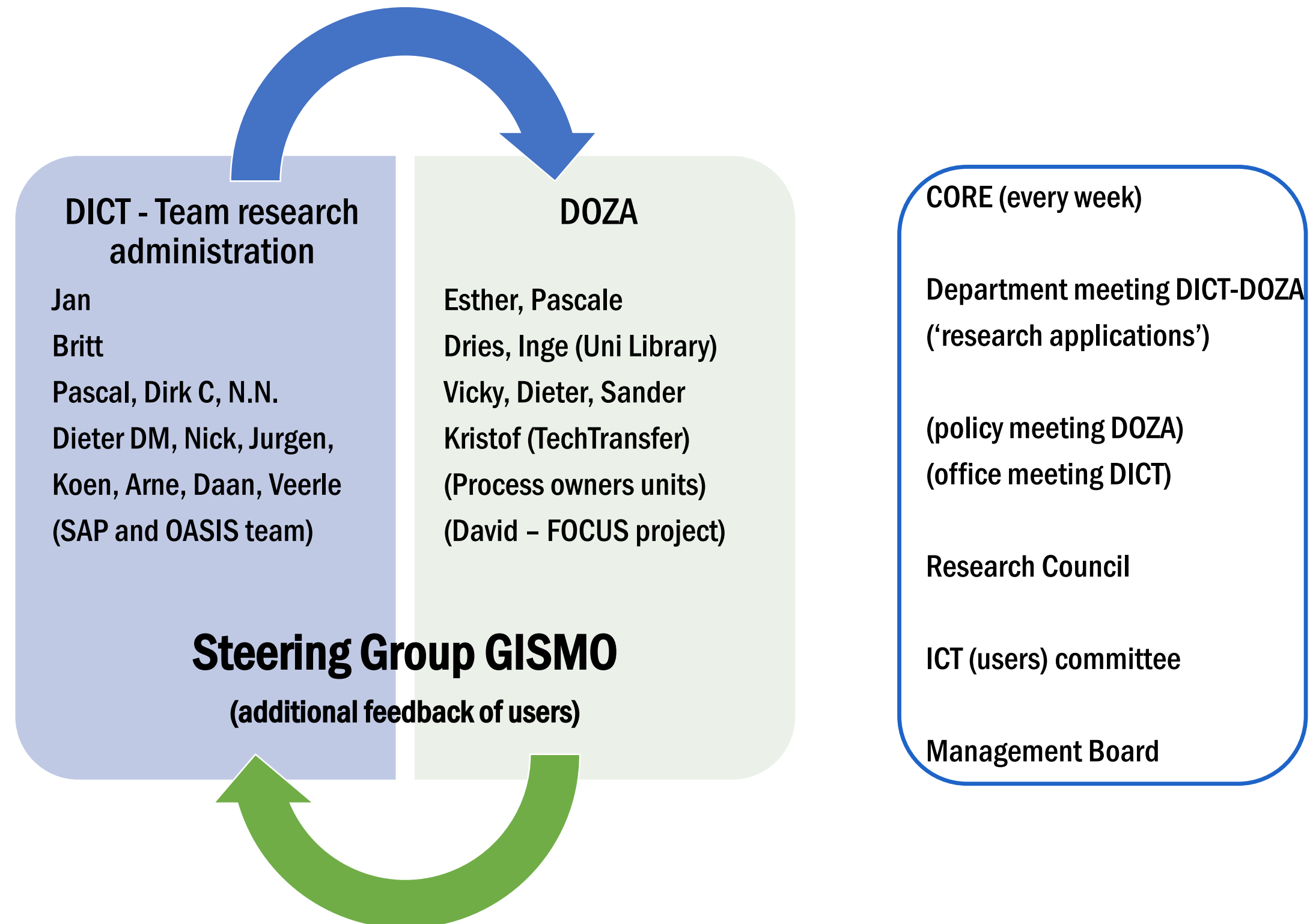
Working towards an integrated solution for the researcher on top of different platforms



Within the domain of Research (incl. service/valorisation)
Plus elements from domain of Education

Enter GISMO

- Collaboration between DOZA & DICT
- Open and agile process but taking into account planning, budgets, priorities and modus operandi

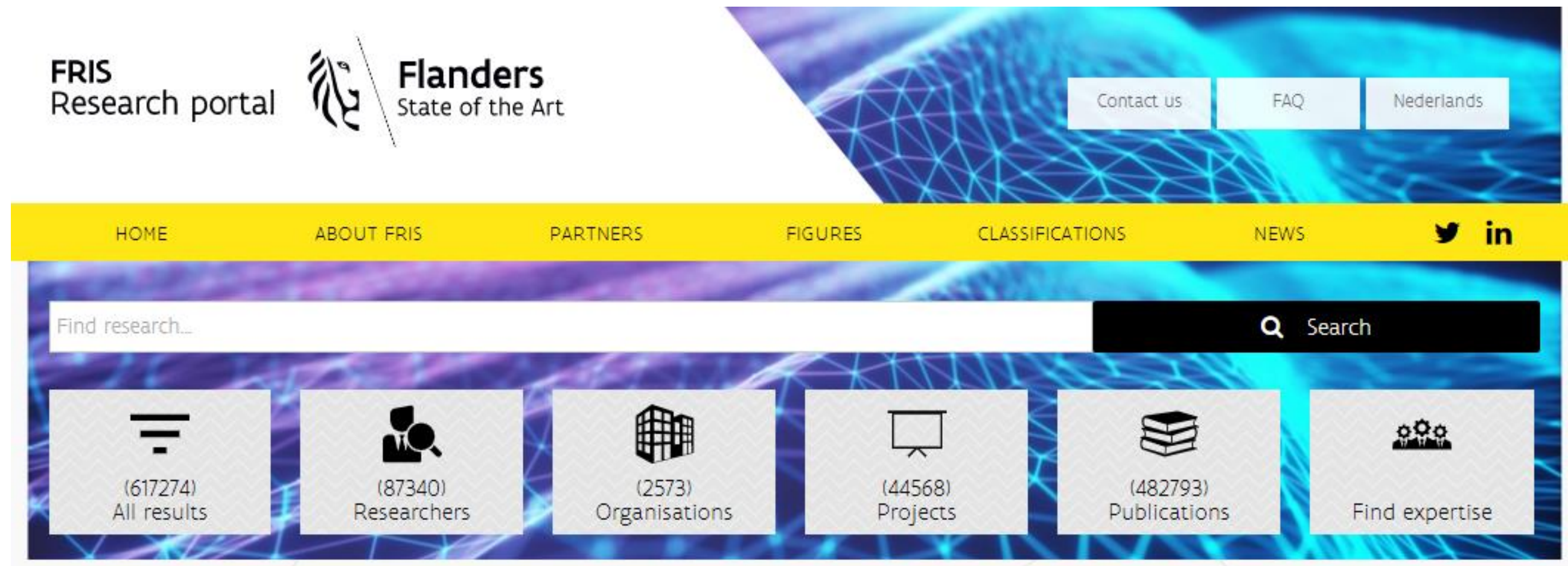


Enter GISMO

[2014-2018] Phase 1

- Data model
- Data migration
- Entities Person (incl. affiliation), Organisation, Project, Publication
- December 2017: launch of FRIS (first visualisation of GISMO data)
- Start of neverending data cleaning





Ghent Uni data valid from 2008:

- 29 350 researchers
- 356 organisations (formal organizational chart)
- 12 500 projects
- 140 000 publications

Big impact on GISMO development and speed (e.g. FOSB)

Challenges of reciprocity and transparency

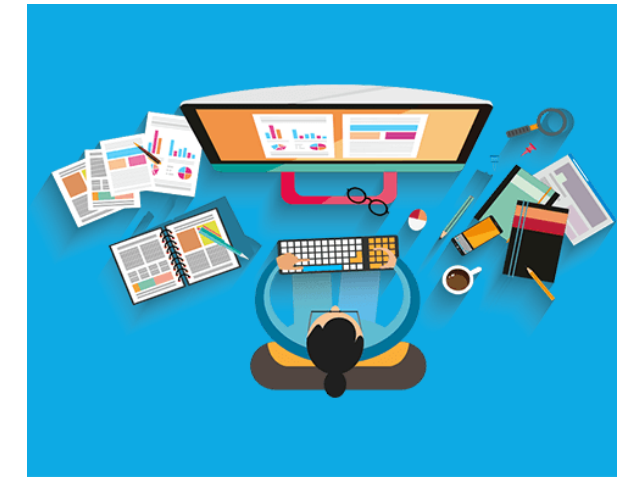
Enter GISMO

[2014-2018] Phase 1

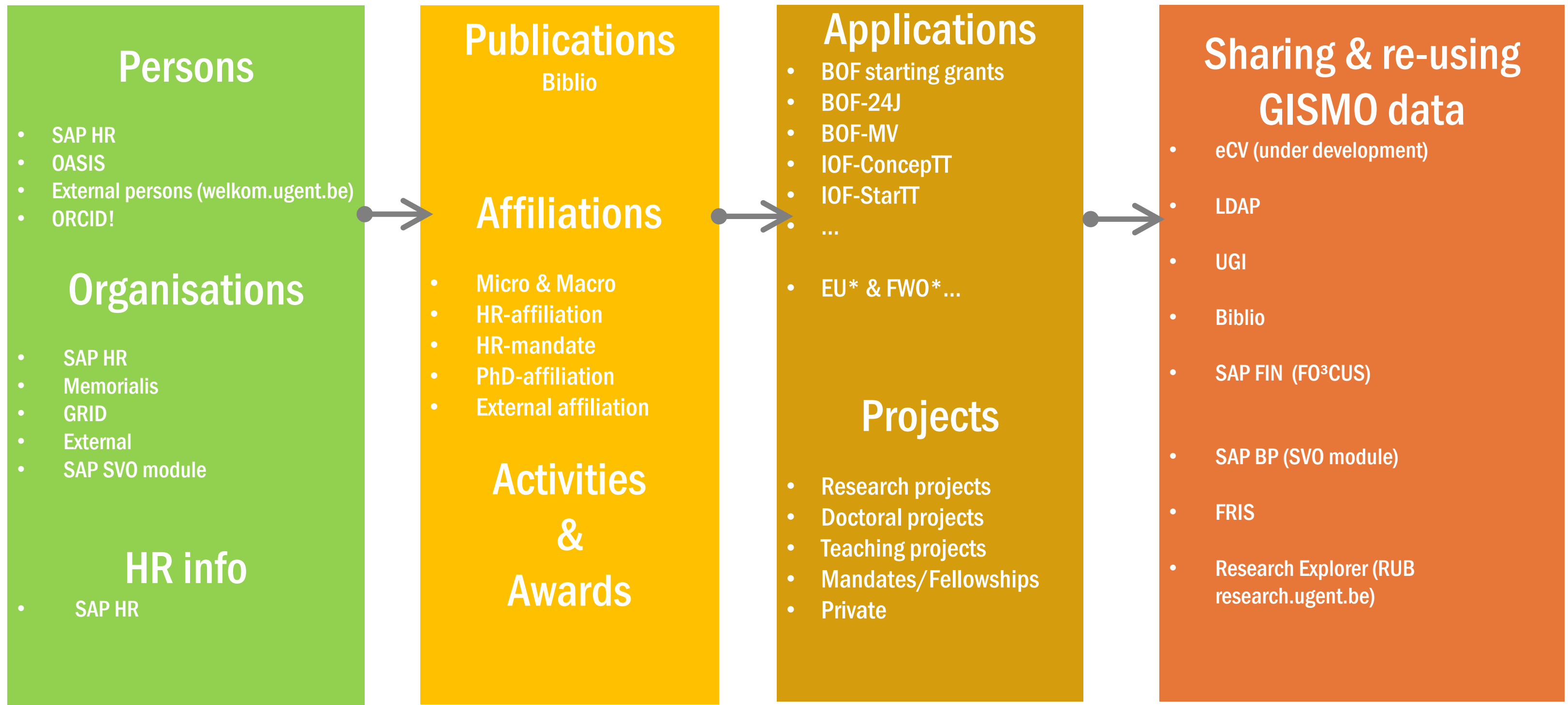
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[2018-2019] Phase 2

- **January 2019: launch of first public GISMO modules (intro of Flemish research disciplines)**
- **April 2019: launch of registration module for research groups (SAP)**
- **Behind the scenes: project application workflow (BOF/IOF)**



From 2019 onwards: project-based

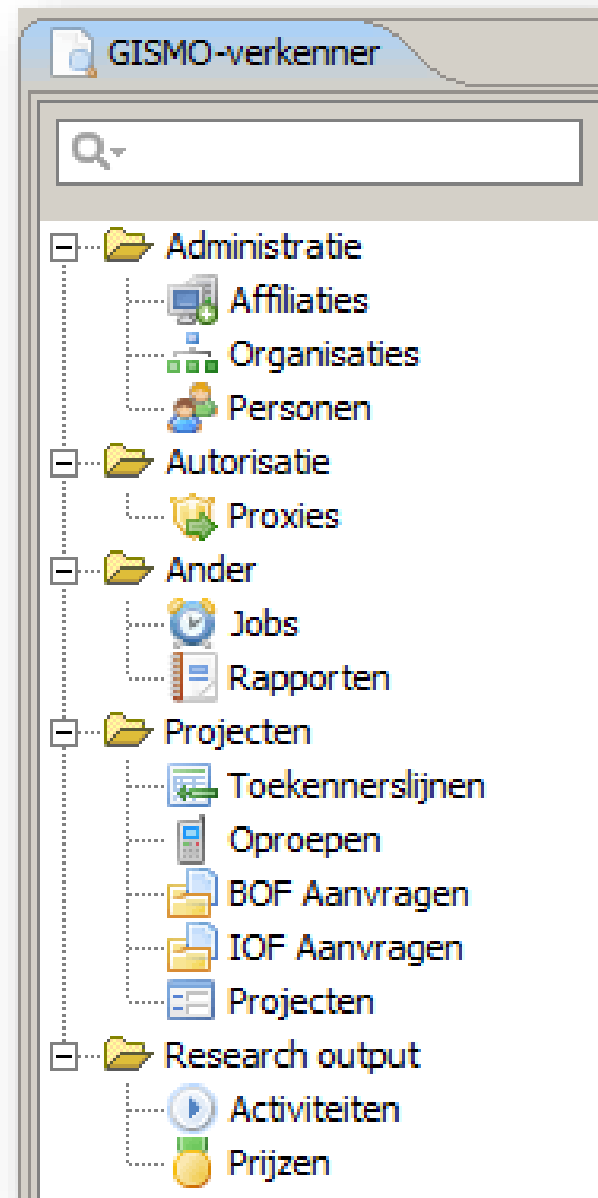


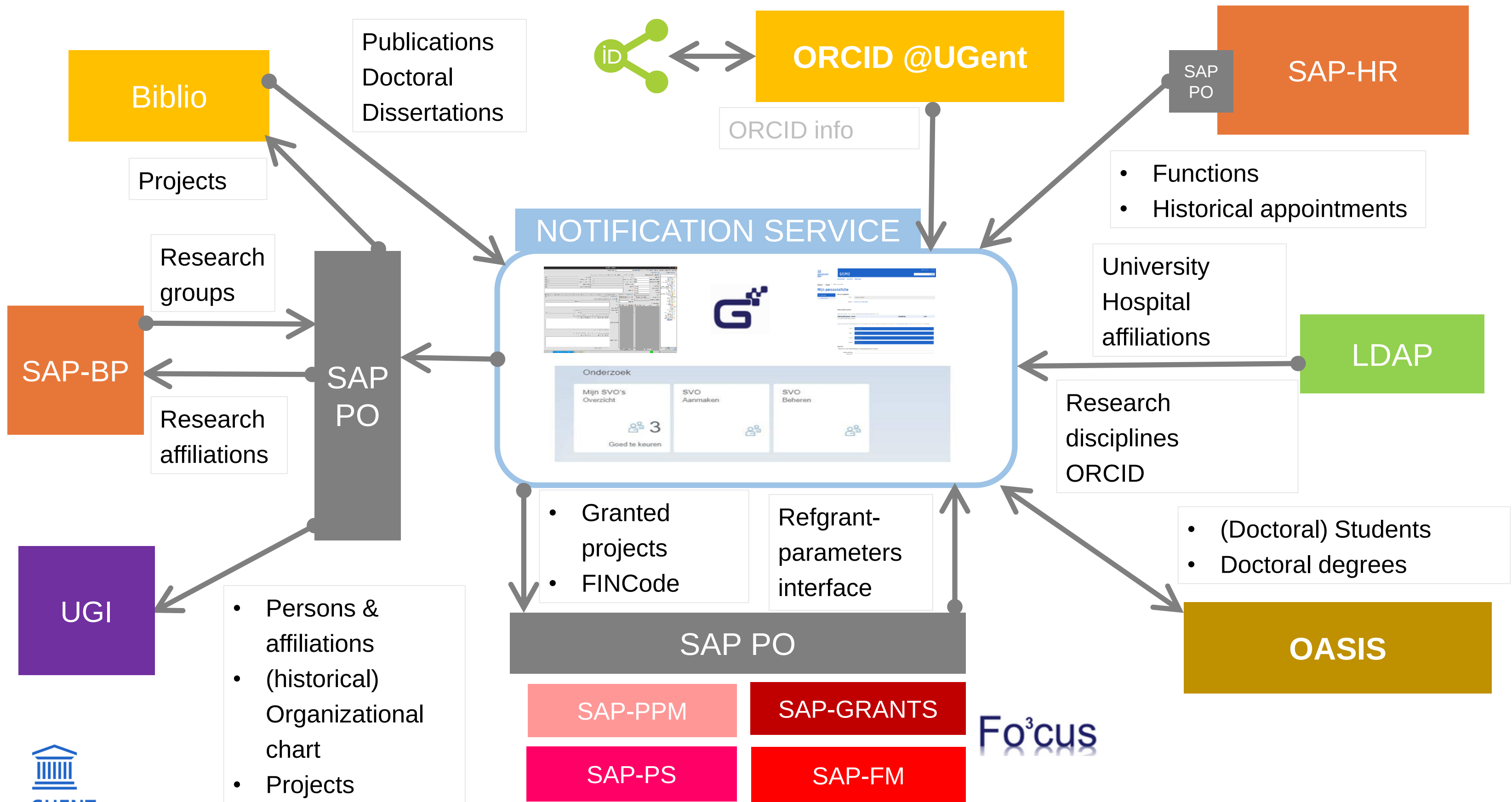
GISMO – anno 2021

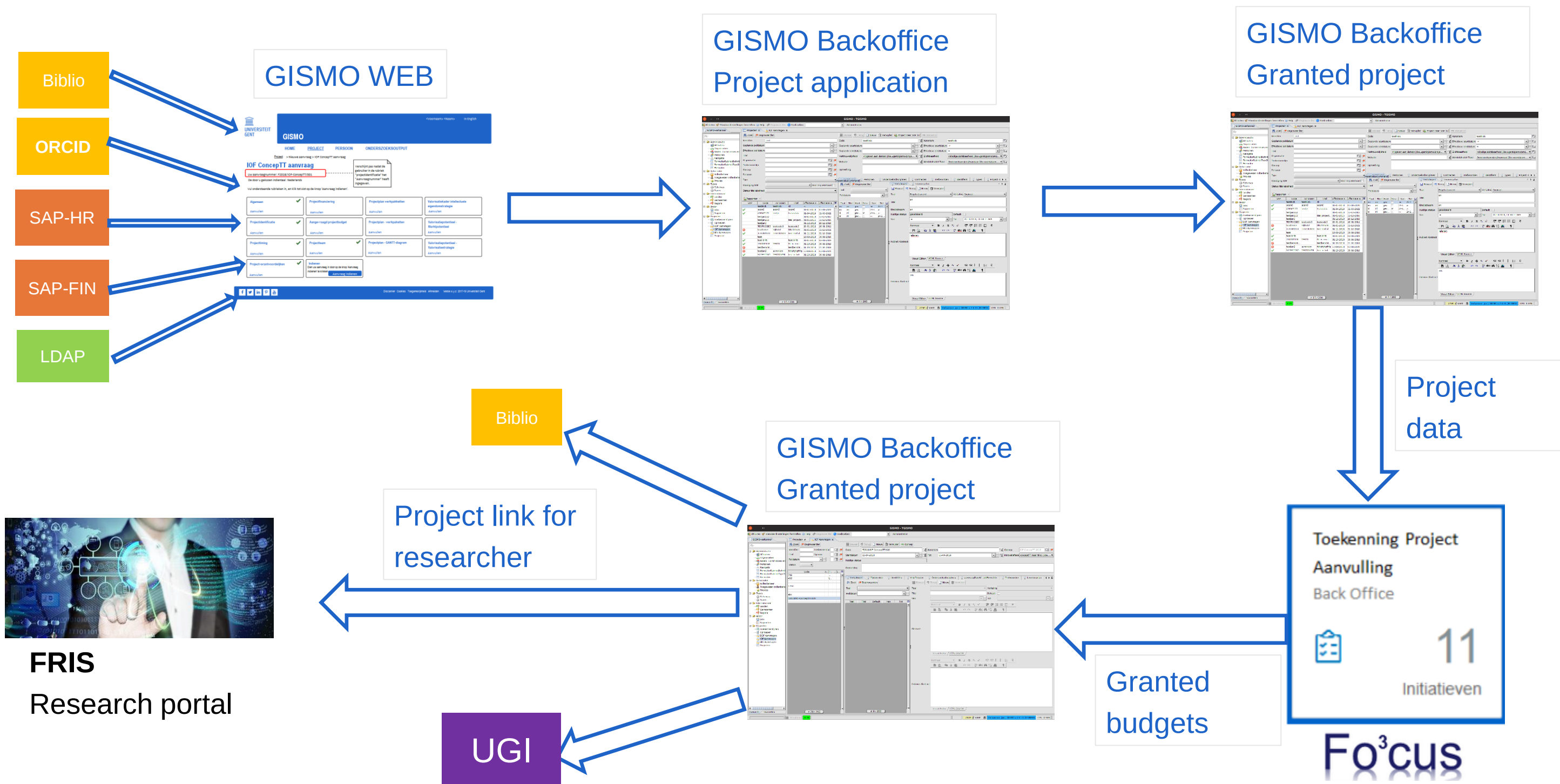


GISMO

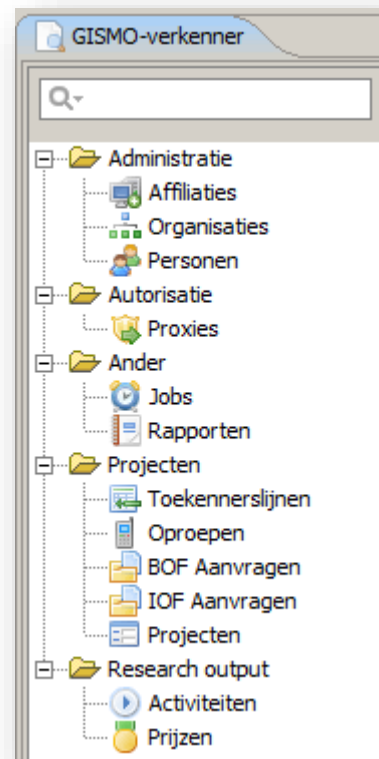
(1) Back-office ('swing'): admin environment







GISMO – anno 2021

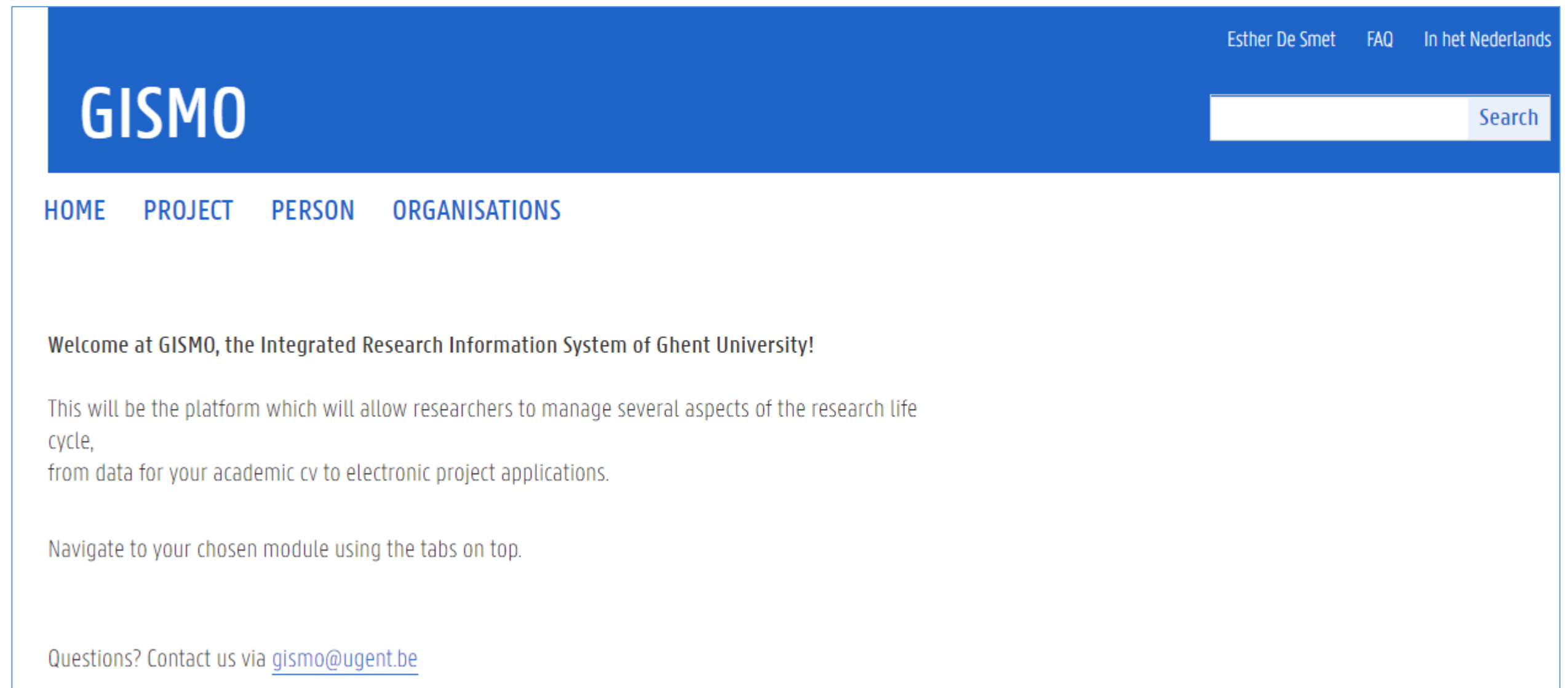


(1) Back-office ('swing'): admin environment

(2) Front-office ('webinterface'): researchers' environment

> gismo.ugent.be

> Also in English



PERSON

[My Profile](#)

[My activities](#)

[My awards & distinctions](#)

PROJECT

[Project applications](#)

[Overview of my grant applications](#)

[Create new application](#)

[Projects](#)

[Overview of my projects](#)

ORGANISATIONS

Research

My SVOs
Overview

 0

SVO Own
Membership
Manage



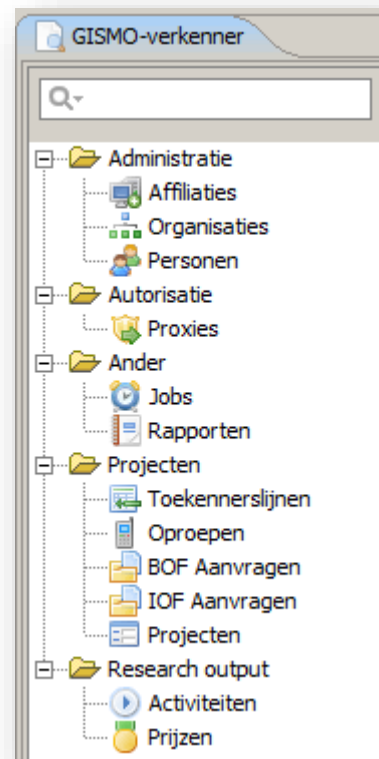
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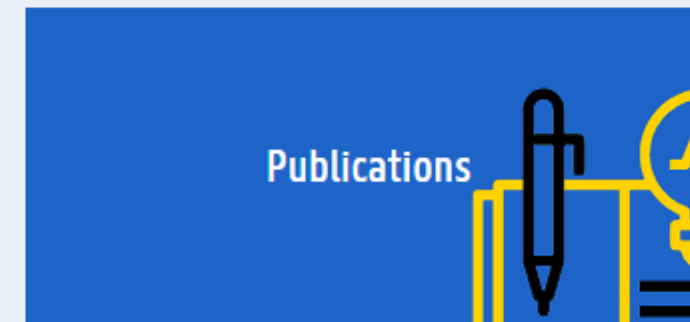
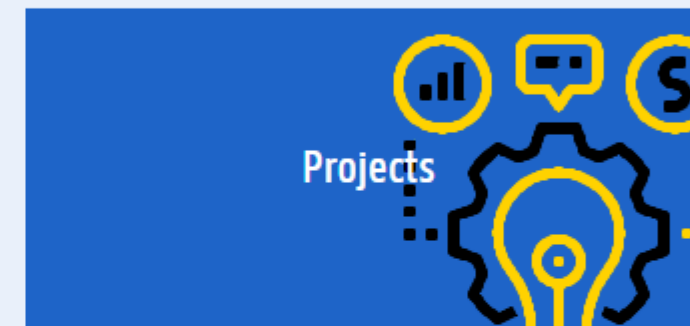
> Also in English

(3) **Research Explorer: 'external' environment**

> research.ugent.be

RESEARCH EXPLORER

[HOME](#) [RESEARCHERS](#) [PROJECTS](#) [ORGANISATIONS](#) [PUBLICATIONS](#) [HELP?](#)



GISMO - on the agenda of 2021 (and so on)

- Research output: datasets & patents (obligation by FRIS)**
- Research infrastructure (obligation by FRIS)**
- Doctoral projects & DMP support**
- Ethics wizard**
- My Affiliations & eCV**
- BOF & IOF application workflow**
- Contract registration portal**

GISMO – user support

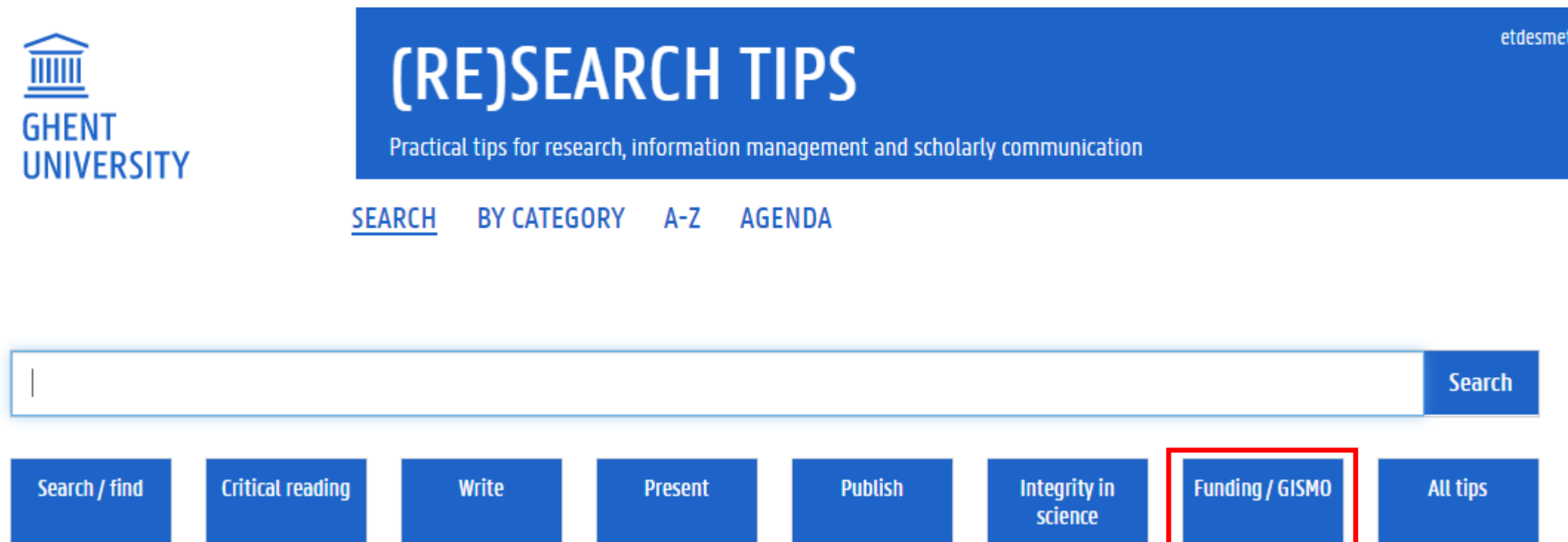
HELPDESK

- Researchers' questions/feedback: gismo@ugent.be

Q's about SVO (incl. proxy), missing projects, faulty roles, reports ...

Only office hours! Only email (for now).

WEB INFO



The screenshot shows the (RE)SEARCH TIPS website. At the top left is the Ghent University logo. The main header is a blue bar with the text "(RE)SEARCH TIPS" and "etdesmet" on the right. Below this is a subtitle: "Practical tips for research, information management and scholarly communication". There are four navigation links: "SEARCH", "BY CATEGORY", "A-Z", and "AGENDA". Below these is a search bar with a "Search" button. At the bottom, there is a row of blue buttons: "Search / find", "Critical reading", "Write", "Present", "Publish", "Integrity in science", "Funding / GISMO" (highlighted with a red box), and "All tips".



The screenshot shows the GISMO website header. It features the "GISMO" logo in large white letters on a blue background. Below the logo are four navigation links: "OVERZICHT", "PROJECT", "PERSOON", and "ORGANISATIES". On the right side, there is a user profile section with the name "Lieve Van Hoof", a red box around the "FAO" link, and the text "In English". Below this is a search bar with the label "Zoek".



The screenshot shows the GISMO - Integrated Information System for Research page. At the top left is the Ghent University logo. To the right is a blue box with the text "FOR FACULTY AND STAFF". Below the logo is a breadcrumb trail: "Home > Research > Research and project administration > GISMO - Integrated Information System for Research". The main heading is "GISMO - Integrated Information System for Research" with a star icon. Below this is a section titled "On this page" with a list of links: "→ Aim of the project", "→ Approach", "→ Elements of the development", and "→ Contact".

The experience so far (from business point of view)

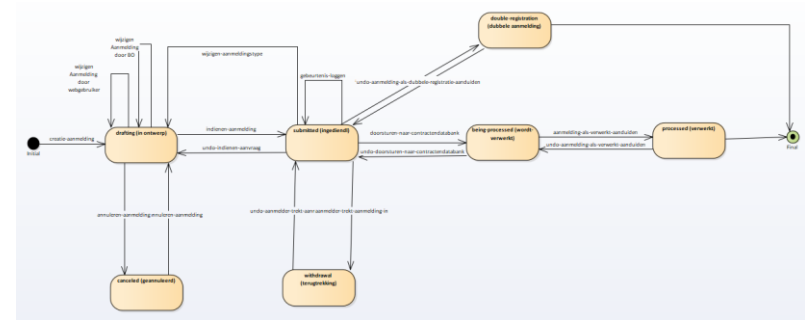
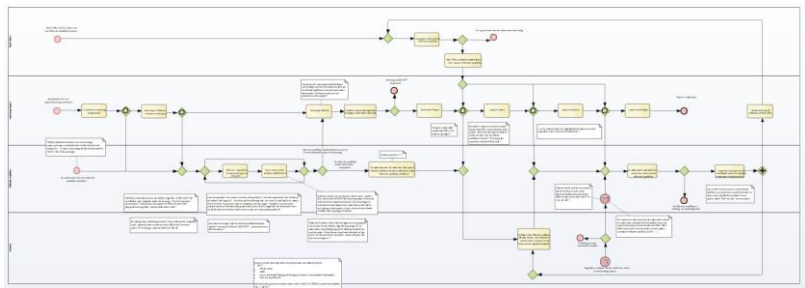
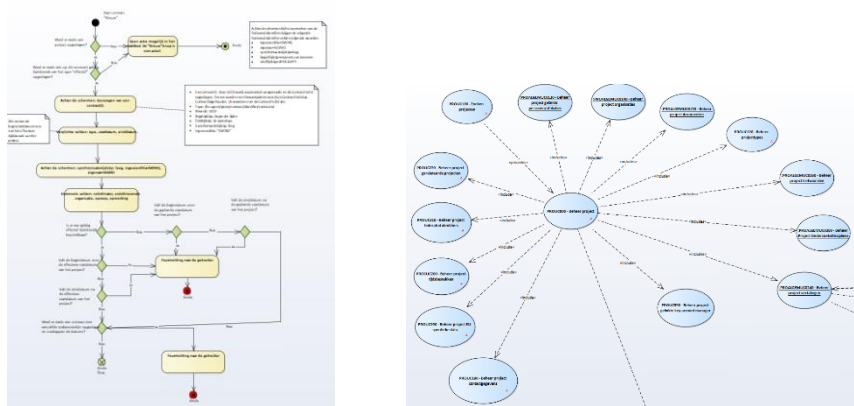
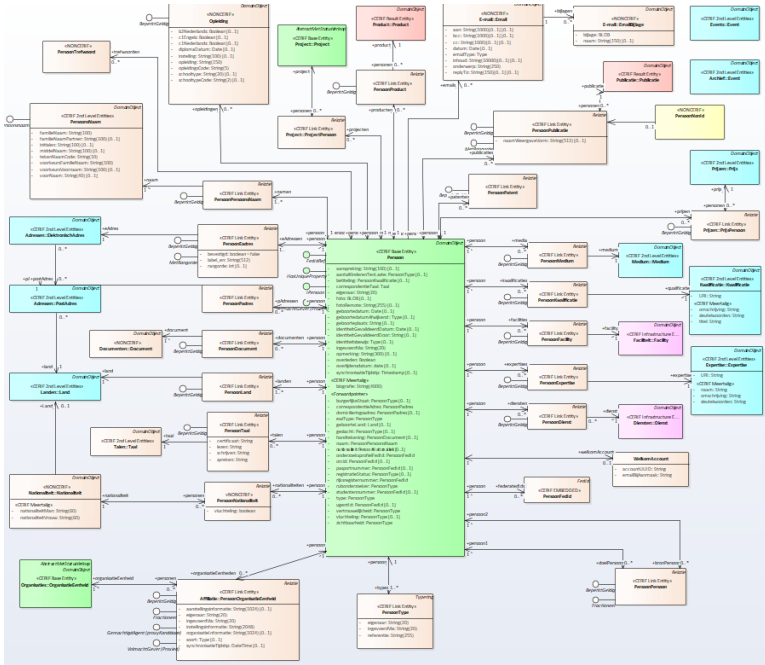
- Find a good team
- Find powerful sponsors
- You cannot control everything or everyone
- You cannot implement everything at the same time
- You cannot please everyone
- Things are complex

Technical approach

Agile methodology

- Daily standups
- Monthly sprints
- 4 major releases per year

We heavily rely on UML



UNIVERSITEIT GENT

GISMO

OVERZICHTPROJECTPERSOONORGANISATIESCONTRACT

Overzicht van mijn aanmeldingen

Hier vindt u een overzicht van alle aanmeldingen waarbij u betrokken bent. Naast de titel en de code van de aanmelding, toont dit overzicht u ook welke uw rol(en) is (zijn), de voornaamste betrokkenen en status. Klik op de titel van een aanmelding voor meer details.

Nieuwe aanmelding creëren

Zoek

Vul hier uw zoekcriteria in...

Zoek op ...

AllesStatusTypeRol

Exporteer naar Excel

- Alle aanmeldingen

(3)

Dit is de aanmeldingstitel. Deze titel kan wel eens lang worden daarom deze lange tekst.

Type: Juridisch adviesAangemaakt op 01-03-2021Aanmelder

GISMO nr: 2021/Juridisch-Advies/001In ontwerp

VoornaamNaam(Budgethouder),VoornaamNaam(I/O Business Developer),...

Dit is de aanmeldingstitel. Deze titel kan wel eens lang worden daarom deze lange tekst.

Type: Nieuw contractAangemaakt op 01-03-2021Aanmelder, Budgethouder

GISMO nr: 2021/Nieuw-Contract/003Aangemeld op 21-03-2021Aangemeld

Voornaam Naam (budgethouder), Voornaam Naam (I/O BD), ...

Dit is de aanmeldingstitel. Deze titel kan wel eens lang worden daarom deze lange tekst.

Type: Revisie nieuw contractAangemaakt op 01-03-2021Key Account Manager

GISMO nr: 2021/Revisie-Contract/002Aangemeld op 21-03-2021

Connect nr: A21/TT/0003Geregistreerd op 30-03-2021Verwerkt

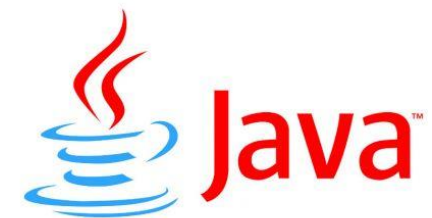
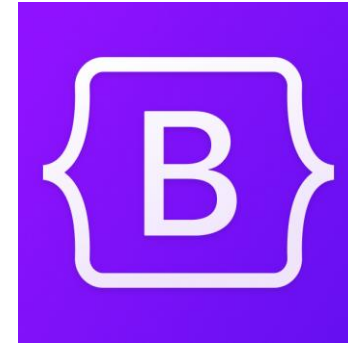
VoornaamNaam(Budgethouder),VoornaamNaam(I/O Business Developer),...

<< Contract

f t i n p e

Staat: Gesloten | Toegankelijk: Alleen | Versie: 1.1 | 2020-03-01

Technical approach



What does CERIF mean to GISMO?

“With great power,
comes great
responsibility.”

-- Uncle Ben, Spiderman

What does CERIF mean to GISMO?

CERIF's flexibility:

- Multilingual support
- Semantic layer -> management of controlled vocabularies
- Relationships are also entities
- Nearly everything has a timestamp (start date/end date)
- Use of the federated identifier entity opens up boundaries to external systems
- CERIF XML Exchange Format

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GISMO's complexity:

- Support business process and operations: extensive entity lifecycle management
- Non-CERIF entities, for example “Assignment” or “Contract”
- Nearly everything has a timestamp (start date/end date) -> Forward pointer
- Uses extensively the semantic layer for mapping and even to control the application
- Flavors of CERIF XML Exchange Format (Internal vs FRIS format)
- Federated identifiers: ORCID, GRID, Handle, DOI, ISO, UN M.49
- Responsibility: visibility and confidentiality of data, i.e. GDPR



Thank you for listening!

www.ugent.be/gismo

gismo@ugent.be