

Funding organization uses the regional CRIS as source for reporting research: the case of FWO and FRIS

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ECONOMY, SCIENCE & INNOVATION

Flanders
State of the Art

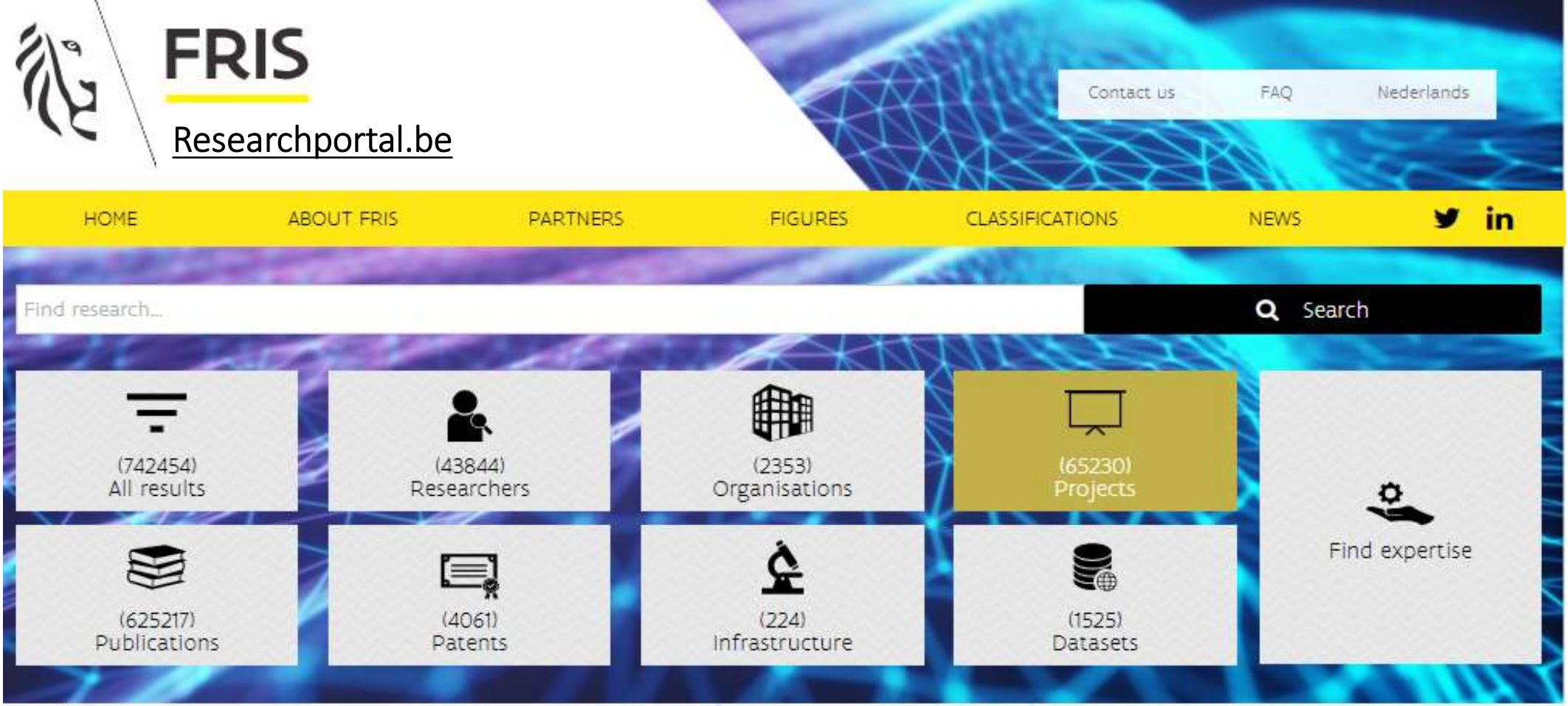


What is FRIS?

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Projects

DOWNLOAD RESULT

Knowledge institution

- Alamire Foundation (17)
- Antwerp Management School (24)
- Antwerp Maritime Academy (AMA) (8)
- AP Hogeschool Antwerpen (189)
- Arteveldehogeschool (45)

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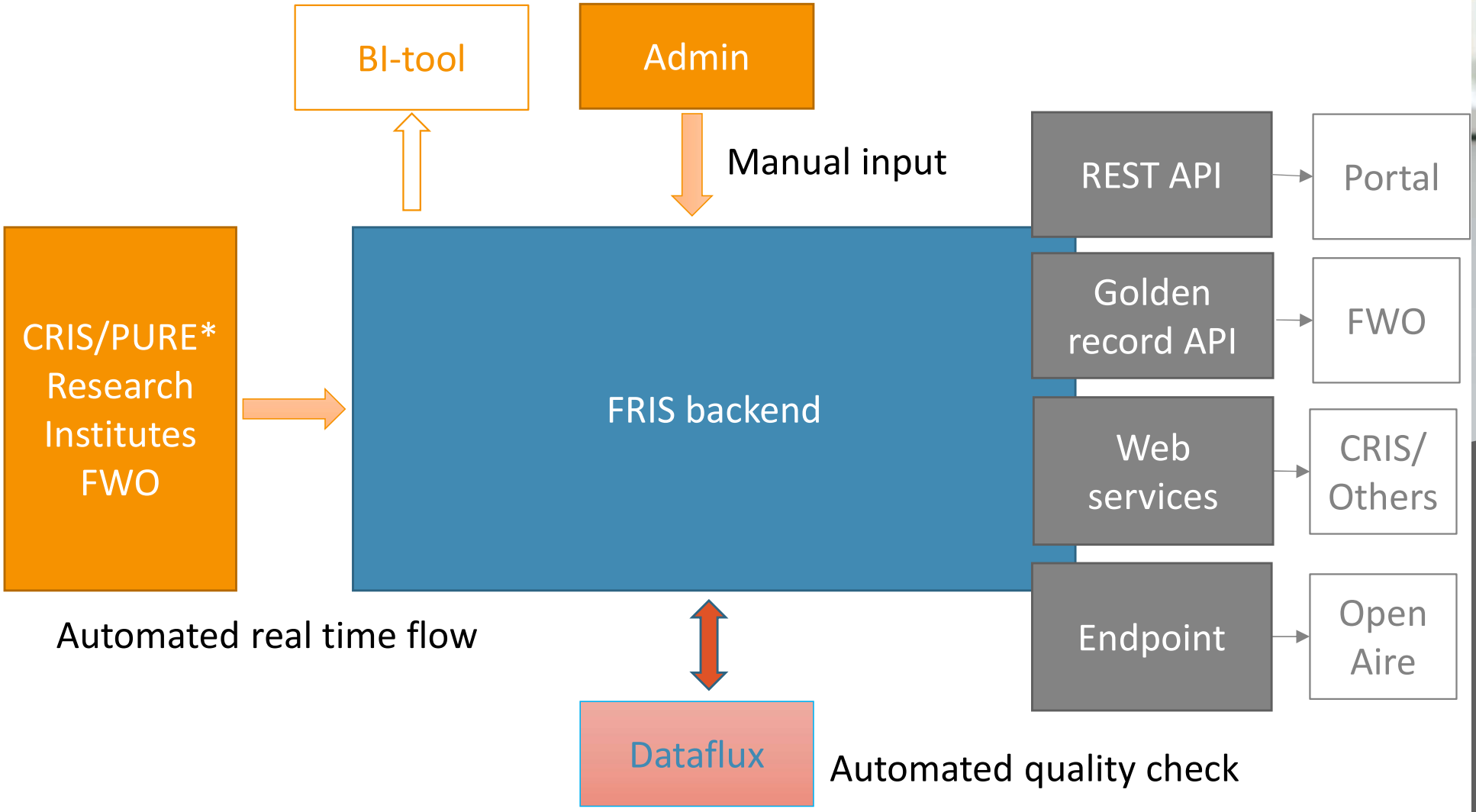
The operation of GUM - Ghent University Museum & Botanical Garden as a nationally classified museum for the policy period 2024-2028 - operating year 2028. Ghent University

FRIS connecting research

- Collection of publicly funded research performed in Flanders
- FRIS: Current research information system (CRIS)
- Connected with institutional CRIS systems (automated flow) | If not: manual input also possible
- Exchange format: CERIF 1.5 + fris-extensions (technical details in the FRIS Integration guide)
- Information available through portal (Researchportal.be) and open API's

**CERIF=Common European Research Information Format (https://eurocris.org/services)*

High level integration



*CRIS:Current Research Information System | PURE: CRIS-system/software by Elsevier

FRIS Objectives



- Accelerate the chain from idea to innovation by ensuring a better information flow between research institutes and innovative organisations



- Simplifying **administration** through webservices
- Obtaining information directly from systems
- Requesting information just once, sharing and reusing it to get the most out of it



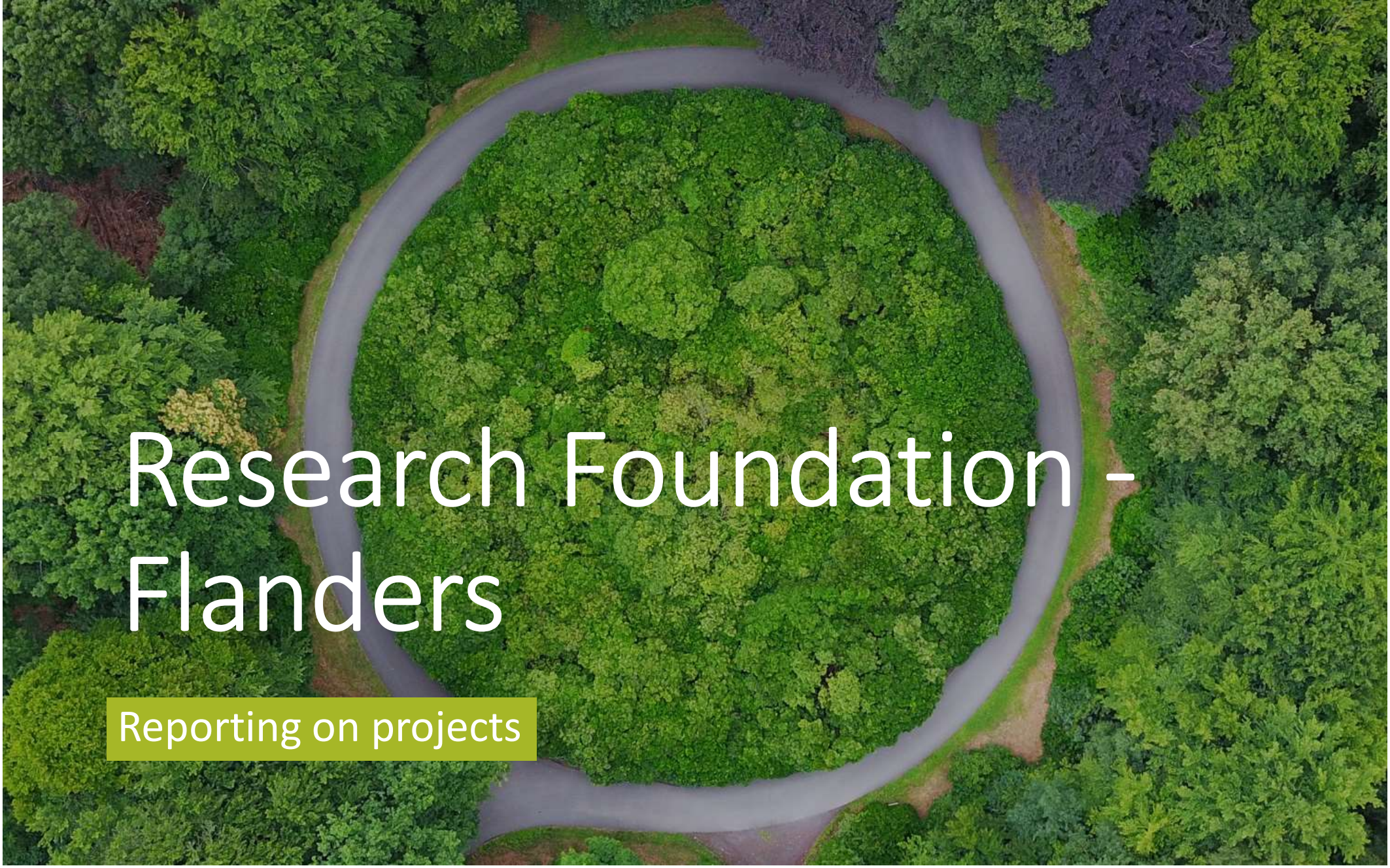
- To make the government, corporate and research **innovation strategy** more effective and efficient



- To make research information **publicly** available so that everyone can use it freely

FRIS-principles

- Data ownership by the research institutes
- Contract with the research institutes, not the individual researcher
- No data manipulation, we do say yes to enrichment with info of referential providers e.g. Research funders, Unpaywall, ROR…
- Working in silo’s (because of ownership)
- Linking of information through system of aliasing by PID’s
- Future: golden record-visualization



Research Foundation - Flanders

Reporting on projects

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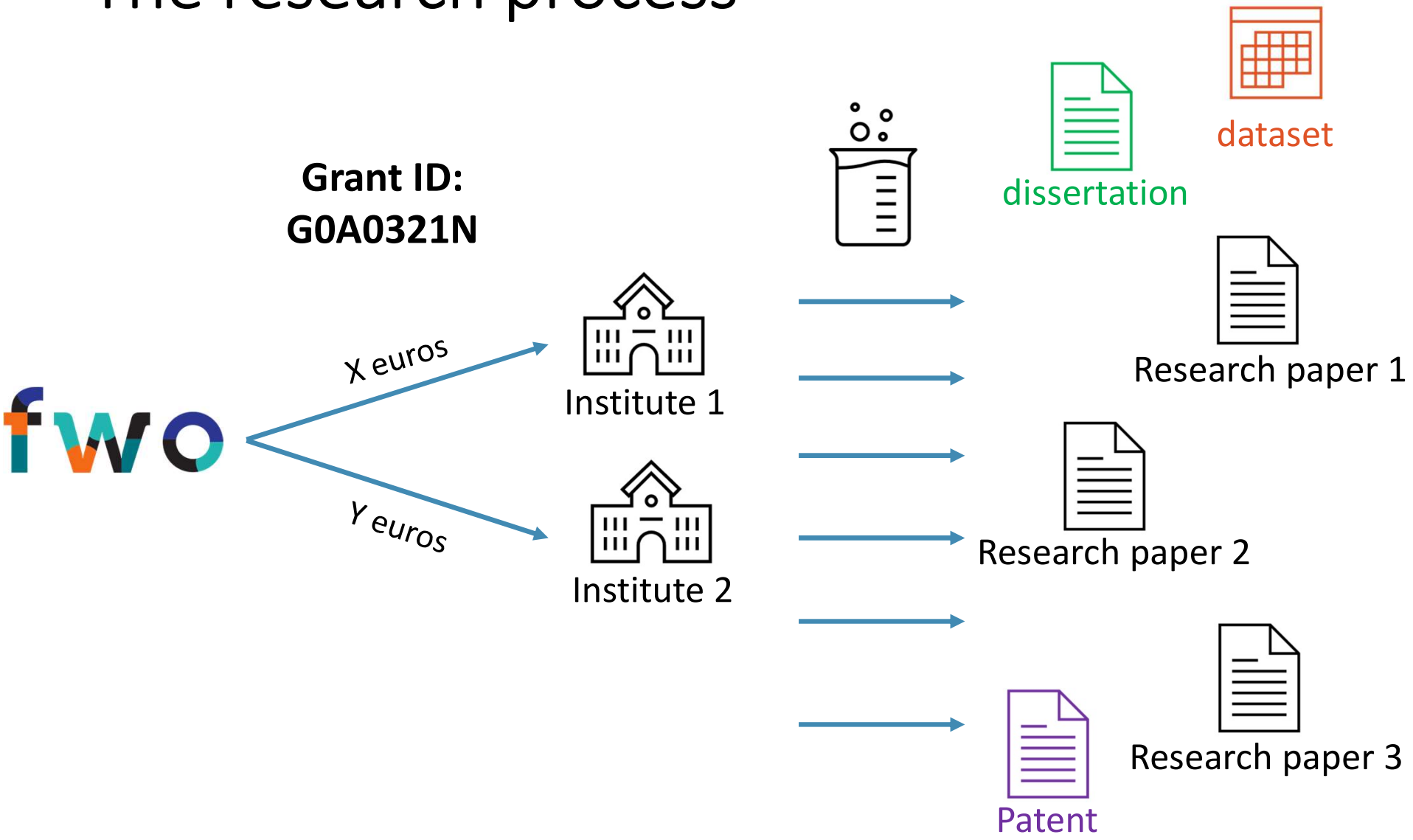
The Research Foundation – Flanders (FWO) stimulates and financially supports:

- fundamental scientific research
- strategic basic research
- clinical scientific research
- the purchase of large-scale and medium-scale research infrastructure
- the management of large computing capacity in Flanders

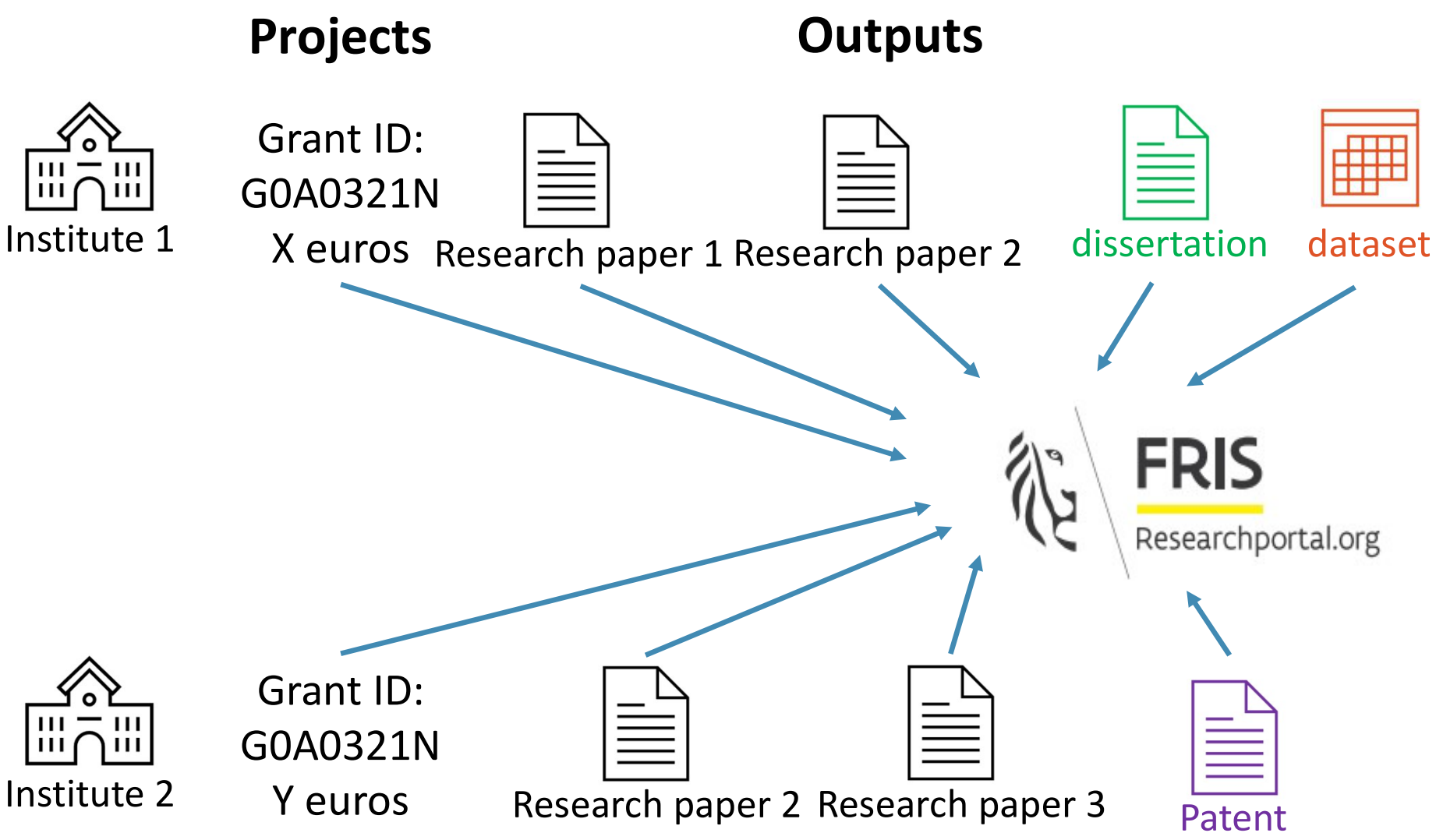
FWO supports fundamental and strategic basic research

in Flanders		and international	
PhD fellowships	Postdoctoral fellowships	International mobility	International contacts
Research projects	Infrastructure	International collaboration	European framework programme

The research process



Information gathering in CRIS and FRIS





Pilot: using FRIS to prefill FWO reports

Pilot 2024

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Pilot: set up

- Start with “peer-reviewed publications”:
  - Journal Article
  - Journal Article Conference Contribution
  - Letter
  - Research note
  - Review article
  - Letter to editor
- Involve stakeholders to agree on definitions, semantics, delineation of the concept
- Technical developments for FRIS and FWO

Pilot: in close collaboration

- Key for success = collaboration
- Collaboration from impacted Research Performing Organisations (RPO's)
- Close collaboration with FWO
- Guided by ECOOM

With special thanks to Evy Neyens (ECOOM Hasselt) and Jan Mertens (FWO)

fwo ecoom FRIS Researchportal.org

Building golden records: step 1: projects

Projects



Institute 1

Grant ID:
G0A0321N
X euros



Institute 2

Grant ID:
G0A0321N
Y euros

Publications



Research paper 1



Research paper 2



Research paper 2

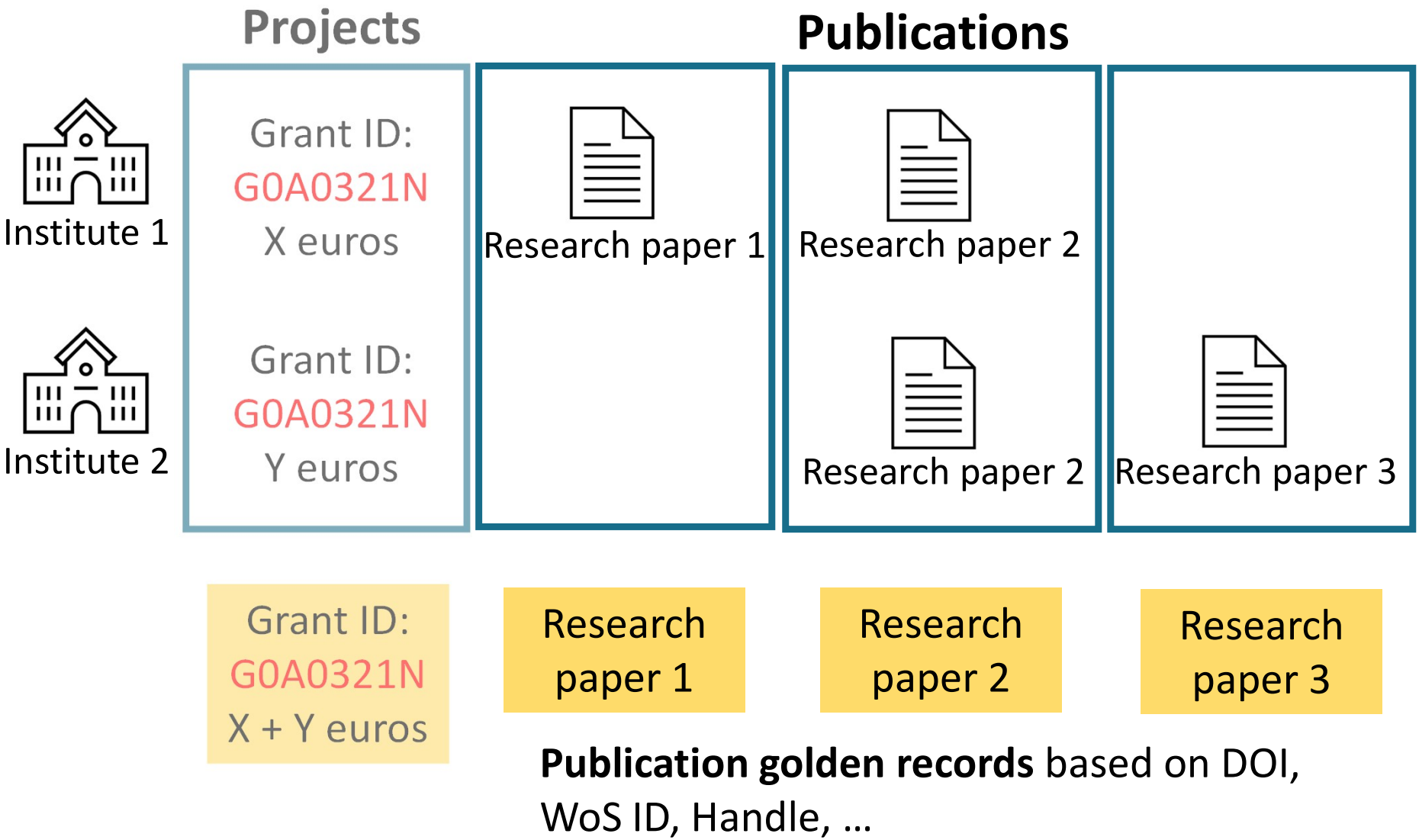


Research paper 3

Grant ID:
G0A0321N
X + Y euros

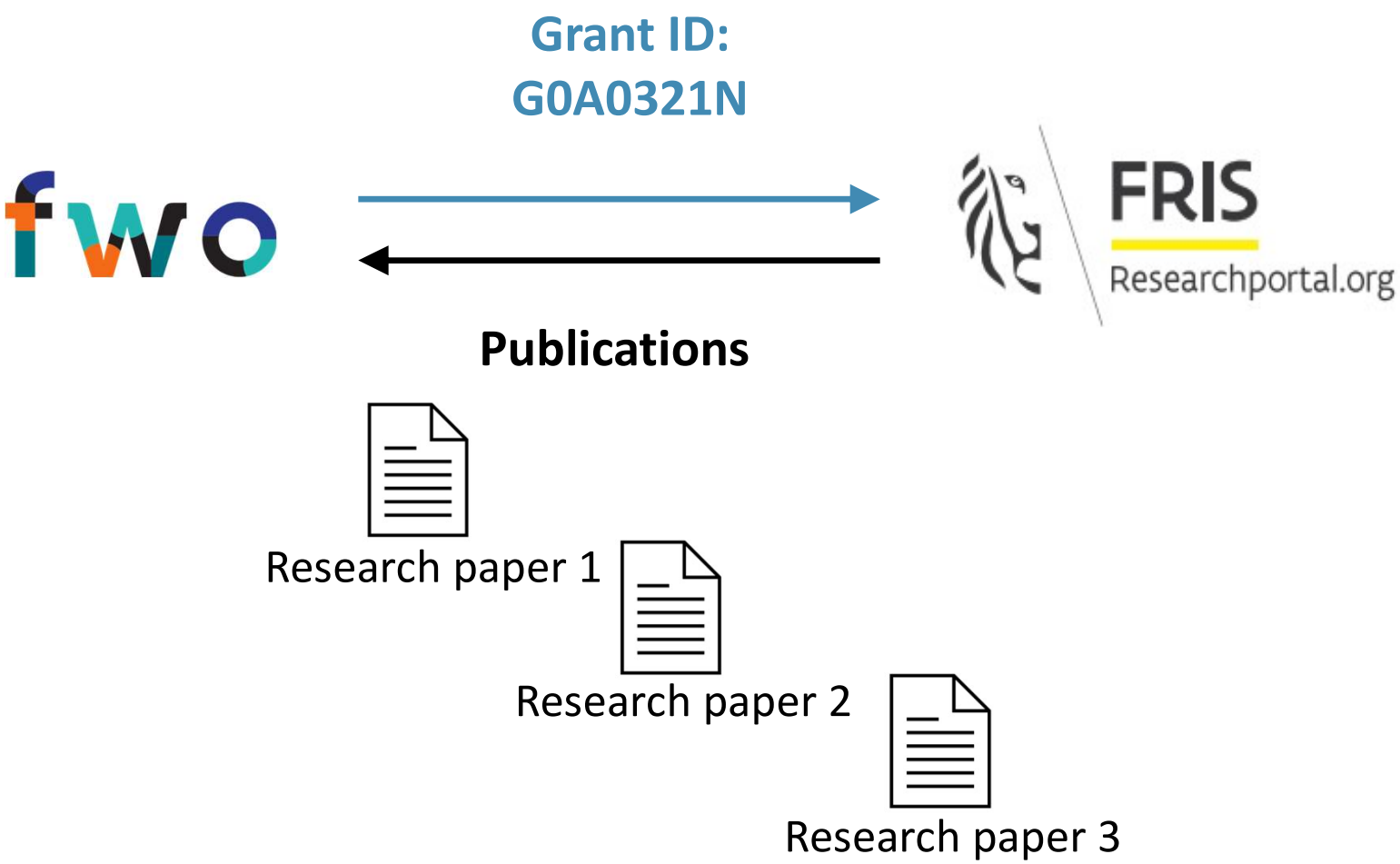
Project golden record based on
Grant ID + Funder Type (FWO)

Building golden records: step 2: publications

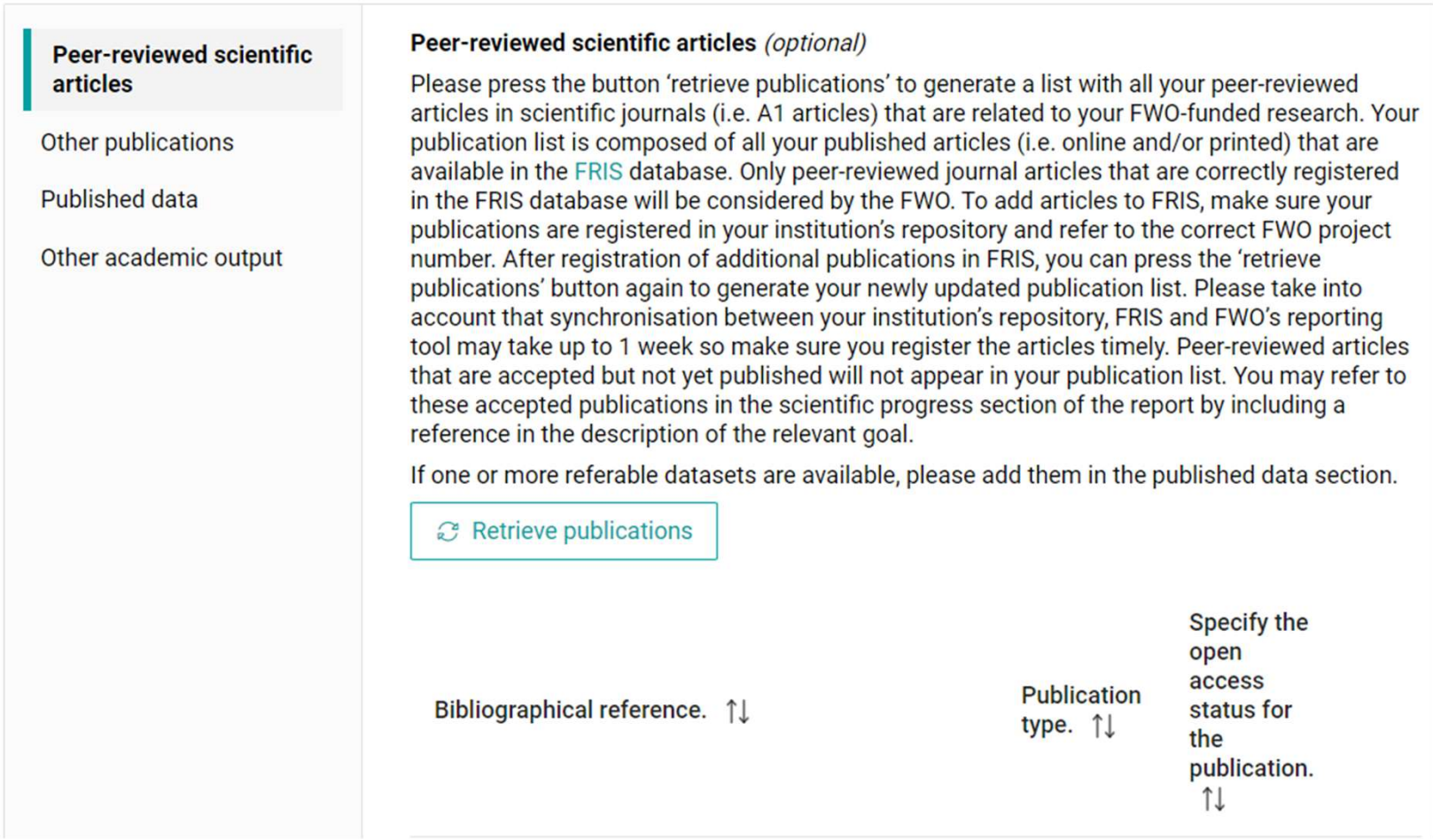


Publication golden records based on DOI, WoS ID, Handle, …

Retrieval from FRIS by FWO



FWO reporting tool – prefilled



Detailed overview in the FWO-reporting tool

- **Peer-reviewed scientific articles**
- Other publications
- Published data
- Other academic output

Peer-reviewed scientific articles *(optional)*

Please press the button 'retrieve publications' to generate a list with all your peer-reviewed articles in scientific journals (i.e. A1 articles) that are related to your FWO-funded research. Your publication list is composed of all your published articles (i.e. online and/or printed) that are available in the FRIS database. Only peer-reviewed journal articles that are correctly registered in the FRIS database will be considered by the FWO. To add articles to FRIS, make sure your publications are registered in your institution's repository and refer to the correct FWO project number. After registration of additional publications in FRIS, you can press the 'retrieve publications' button again to generate your newly updated publication list. Please take into account that synchronisation between your institution's repository, FRIS and FWO's reporting tool may take up to 1 week so make sure you register the articles timely. Peer-reviewed articles that are accepted but not yet published will not appear in your publication list. You may refer to these accepted publications in the scientific progress section of the report by including a reference in the description of the relevant goal.

If one or more referable datasets are available, please add them in the published data section.

Retrieve publications

Bibliographical reference. ↑↓	Publication type. ↑↓	Specify the open access status for the publication. ↑↓
Jessica Alber, Femke Bouwman, Jurre den Haan, Robert A Rissman, Lies De Groef, Maya Koronyo-Hamaoui, Imre Lengyel, Dietmar Rudolf Thal. (2024). Retina pathology as a target for biomarkers for Alzheimer's disease: Current status, ophthalmopathological background, challenges, and future directions. Alzheimers & Dementia. 20(1). https://doi.org/10.1002/alz.13529.	A1	Open
Sandra Oliveira Tomé, Grigoria Tsaka, Alicja Ronisz, Simona Ospitalieri, Klara Gawor, Luis Aragao Gomes, Markus Otto, Christine AF von Arnim, Philip Van Damme, Ludo Van Den Bosch, Estifanos Ghebremedhin, Celeste Laureyssen, Kristel Sleegers, Rik Vandenberghe, Frederic Rousseau, Joost Schymkowitz, Dietmar Rudolf Thal. (2023). TDP-43 pathology is associated with increased tau burdens and seeding. Molecular neurodegeneration. 18(1). https://doi.org/10.1186/s13024-023-00653-0.	A1	Open
Jimmy Beckers, Arun Kumar Tharkeshwar, Laura Fumagalli, Matilde Contardo, Evelien Van Schoor, Raheem Fazal, Dietmar Rudolf Thal, Siddharthan Chandran, Renzo Mancuso, Ludo Van Den Bosch, Philip Van Damme. (2023). A toxic gain-of-function mechanism in C9orf72 ALS impairs the autophagy-lysosome pathway in neurons. Acta neuropathologica communications. 11(1). https://doi.org/10.1186/s40478-023-01648-0.	A1	Open
Sriram Balusu, Katrien Horre, Nicola Thrupp, Katleen Craessaerts, An Snellinx, Lutgarde Serneels, Dries T'Syen, Iordana Chrysidou, Amaia M Arranz, Susanne Rianneke Sierksma, Joel Simren, Thomas K Karikari, Henrik Zetterberg, Wei-Ting Chen, Dietmar Rudolf Thal, Evgenia Salta, Mark Fiers, Bart De Strooper. (2023). MEG3 activates necroptosis in human neuron xenografts modeling Alzheimer's disease. Science (New York, N.Y.). 381(6663): 1176 - +. https://doi.org/10.1126/science.abp9556.	A1	Closed
Matei Bolborea, Pauline Vercruysse, Tselmen Daria et al. (2023). Loss of hypothalamic MCH decreases food intake in amyotrophic lateral sclerosis. Acta Neuropathologica. 145(6): 773 - 791. https://doi.org/10.1007/s00401-023-02569-x.	A1	Open
Jolien Schaeverbeke, Sandra O Tome, Alicja Ronisz, Simona Ospitalieri, Christine AF von Arnim, Markus Otto, Rik Vandenberghe, Dietmar Rudolf Thal. (2023). Neuronal loss of the nucleus basalis of Meynert in primary progressive aphasia is associated with Alzheimer's disease neuropathological changes. Alzheimers & Dementia. 19(4): 1440 - 1451. https://doi.org/10.1002/alz.12794.	A1	Open
Peter T Nelson, Edward B Lee, Matthew D Cykowski et al. (2023). LATE-NC staging in routine neuropathologic diagnosis: an update. Acta Neuropathologica. 145(2). https://doi.org/10.1007/s00401-022-02524-2.	A1	Open
Sebastiaan Moonen, Marta Koper, Evelien Van Schoor, Jolien Schaeverbeke, Rik Vandenberghe, Christine AF von Arnim, Thomas Tousseyn, Bart De Strooper, Dietmar Rudolf Thal. (2023). Pyroptosis in Alzheimer's disease: cell type-specific activation in microglia, astrocytes and neurons. Acta neuropathologica. 145(2): 175 - 195. https://doi.org/10.1007/s00401-022-02528-y.	A1	Open
Dietmar Rudolf Thal, Klara Gawor. (2023). Cerebral amyloid angiopathy: Neuropathological diagnosis, link to Alzheimer's disease and impact on clinics. Clinical Neuropathology. 42(5). https://doi.org/10.5414/np301564.	A1	Under embargo
NURIA SUELVES, SHIRINE SALEKI, TASHA IBRAHIM, DEBORA PALOMARES, Sebastiaan Moonen, Marta Koper, Céline Vrancx, DEVKEE VADUKUL, NICOLAS PAPADOPOULOS, NIKENZA VICECONTE, ELOISE CLAUDE, RIK VANDENBERGHE, ARNIM CHRISTINE A VON, STEFAN CONSTANTINESCU, DIETMAR RUDOLF THAL, ANABELLE DECOTTIGNIES, PASCAL KIENLEN-CAMPARD. (2023). Senescence-related impairment of autophagy induces toxic intraneuronal amyloid-ß accumulation in a mouse model of amyloid pathology.. Acta neuropathologica communications. 11: 82.	A1	Open

Benefits/lessons learned

- Benefits for different stakeholders like researchers, RPO's, funder, FRIS:
  - Less administrative burden (enter once in institution repository and use as often as possible)
  - Better quality as info is used for reporting
  - More uniformity in data across institutions

- Lessons learned:
  - Less flexibility in terms of:
    - **Time (need to calculate time for the information flow from institute to FRIS to FWO)**
    - **Not be able to adjust info freely as a free text (correcting information needs to be done at the source)**
  - Not yet a reflex to link research output with projects, and therefore seems to be more time consuming
  - further finetuning

Future steps

- Peer-reviewed publications: operational for a set of projects
- Future: extend to other objects like:
  - Non peer-reviewed publications
  - Dissertations
  - Patents
  - Datasets
- Same method:
  - Consultation of the stakeholders
  - Semantics
  - Developments

Question to the public

- Is there an easier way to link research output to projects? Suggestions?





Questions?

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