



Opening new horizons



***How to promote Flemish-Brazilian partnerships in fundamental research?***

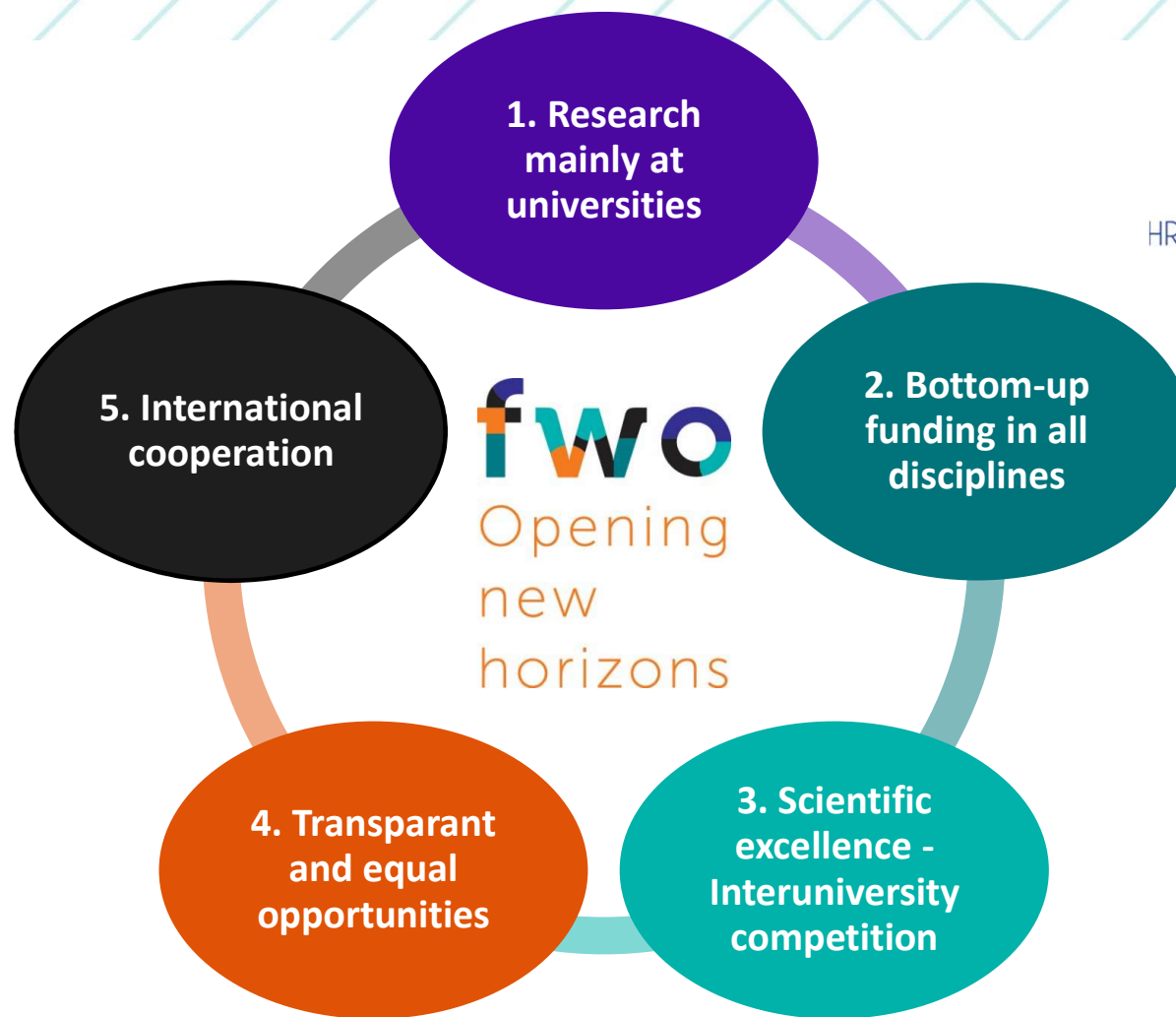
FAPESP Week – 09/10/2018

dr.ir. Isabelle Verbaeys

Head International Affairs FWO

fwo

FWO?

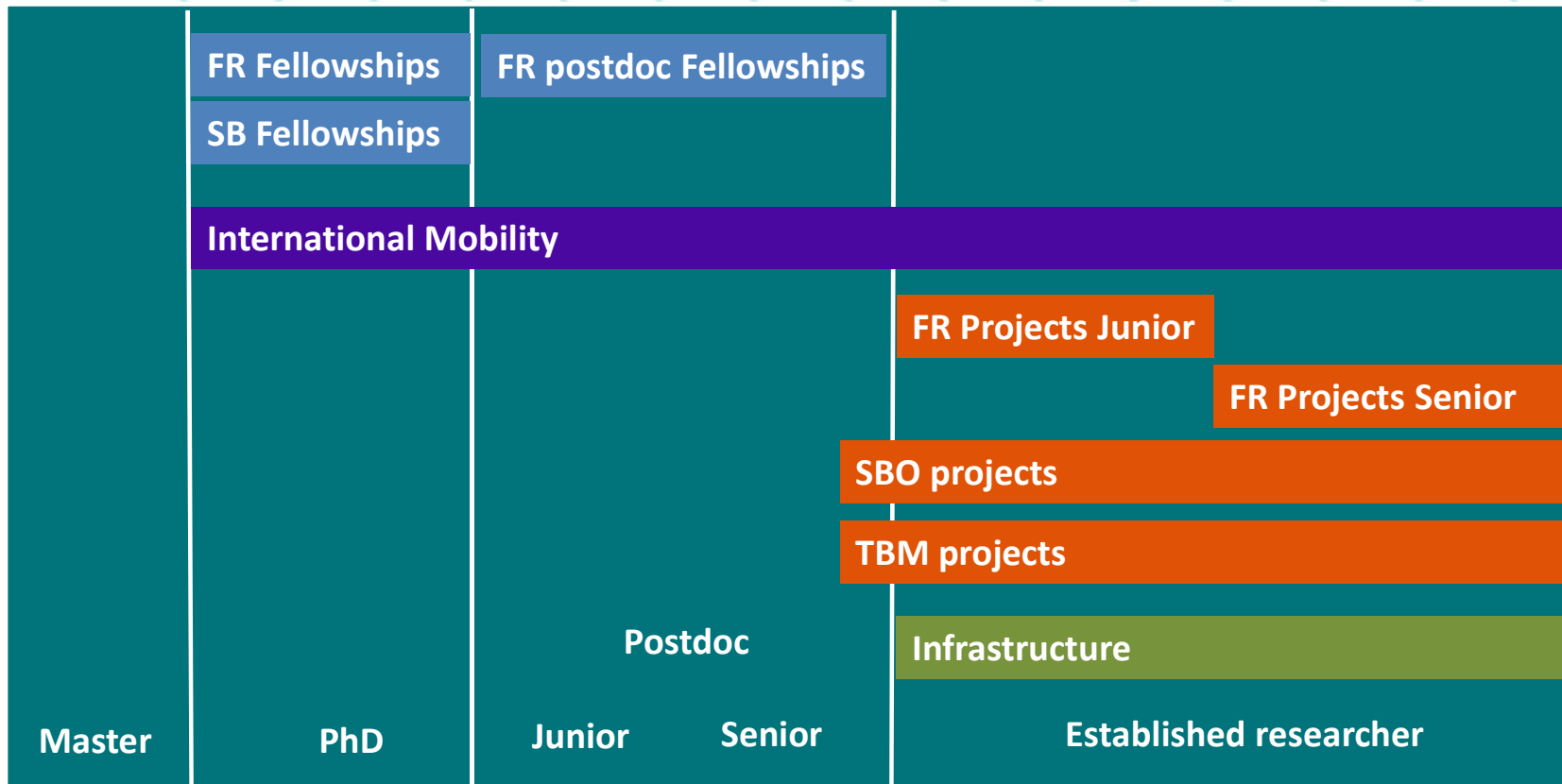


# Research Foundation – Flanders (FWO)

[www.fwo.be](http://www.fwo.be)



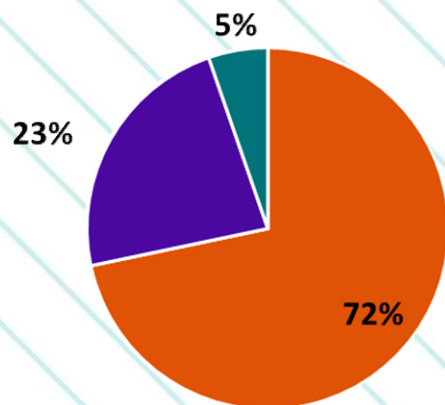
# Main FWO Funding Schemes 2019



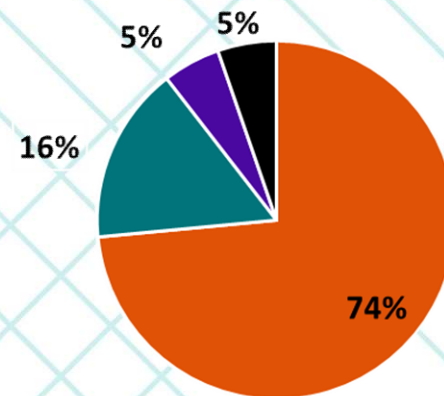
FR: Fundamental research  
SB: Strategic basic research  
TBM: Applied biomedical research

# Key Facts on FWO (2017)

Budget:  
350 million EUR  
(incl. EOS)



Research projects Fellowships Infrastructure



Fundamental Research Strategic Basic Research  
Clinical Research Infrastructure



854 Predocs (basic)  
400 Predocs (strategic basic)  
791 Postdocs  
1220 Projects



82% Predocs 18%  
62% Postdocs 38%



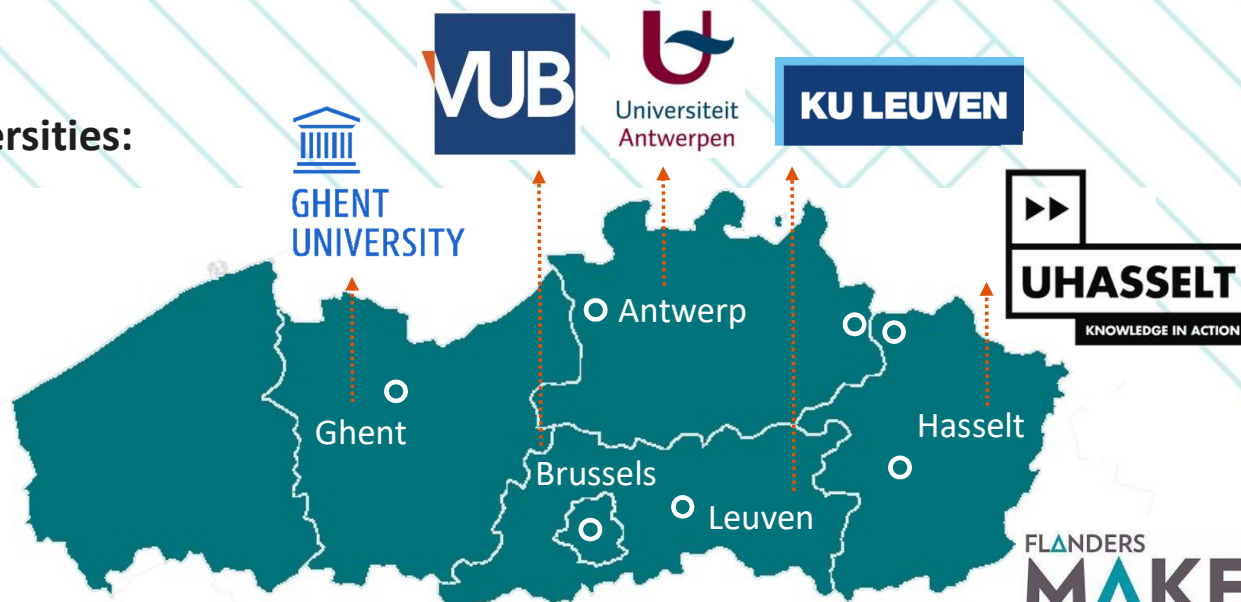
51% Predocs 49%  
42% Postdocs 58%



21,3% Predocs (basic)  
29,3% Predocs (strategic basic)  
27,4% Postdocs  
20,5% Projects

# Research Performing Centers

World-Class Universities:



Leading (Strategic) Research Centers:



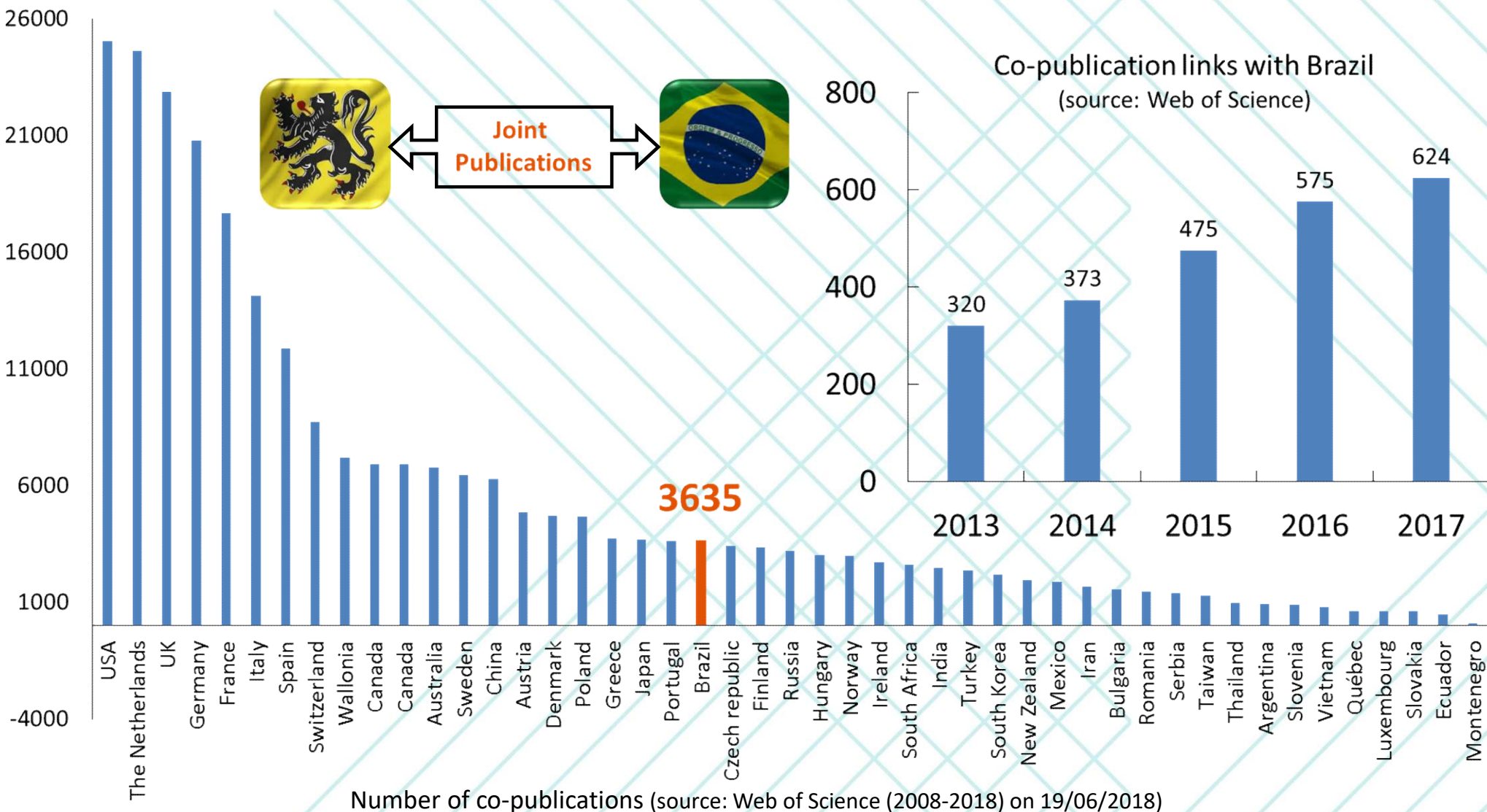
FLANDERS  
**MAKE**  
MANUFACTURING INNOVATION NETWORK

# Collaborations?



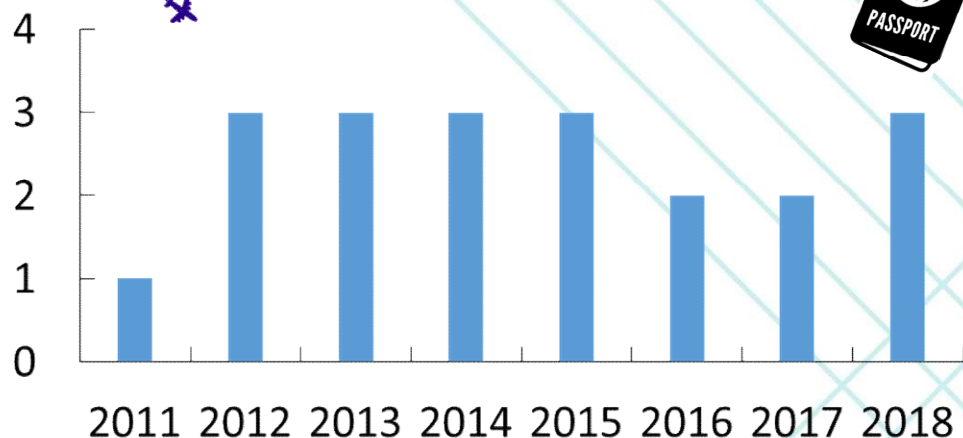


# Co-publication links between Flanders and Brazil

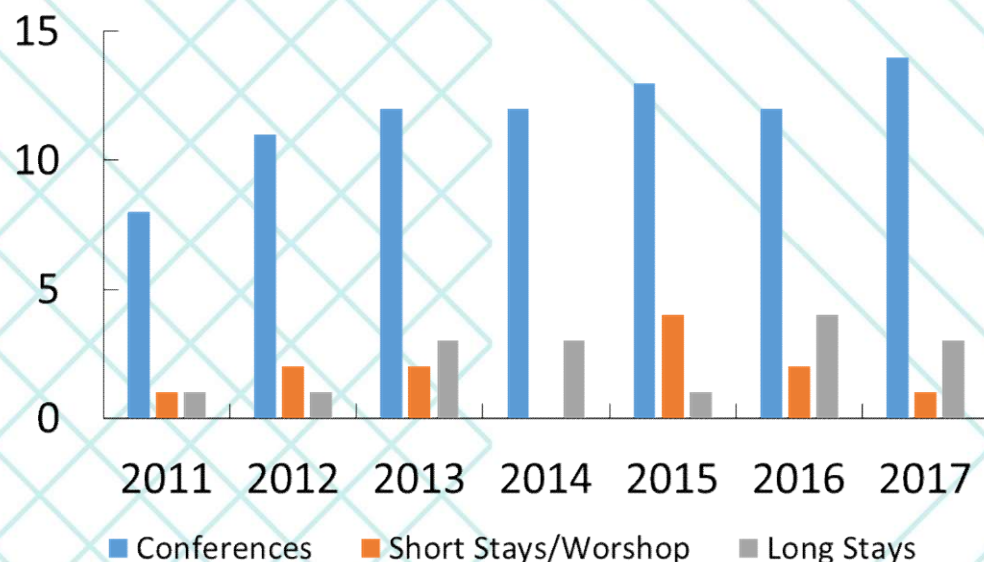


# FWO Mobility between Flanders en Brazil

Number of FWO fellow with Brazilian nationality



Number of FWO travel grants to Brazil



FWO [PhD and postdoc funding schemes](#): no nationality restrictions



On average 1,2% of awarded FWO [travel grants](#) has Brazil as a destination

# Joint ERA-Net Participation

FWO is currently a member of 23 H2020 ERA-NET/EJP COFUND networks. In 3 of these networks a Brazilian partner is involved:

- **ENSUGI** (Urban Research; ‘Sustainable Urbanisation Global Initiative - Food-Water-Energy Nexus’):
  - Involved Brazilian partners: FAPESP and URBEM (NGO: Urban innovation and technological development)
  - 1 project funded involving Flemish and Brazilian Researchers
- **NORFACE ‘T2S’** (Social Sciences network; ‘Transformations to sustainability’):
  - Involved Brazilian partners: FAPESP
- **ERA-MIN2** (Raw materials):
  - Involved Brazilian partners: FINEP



# FWO-CNPq Joint Research Projects

- First MoU signed in 2009 – Renewed in 2012
- 2010-2012: 3 calls for projects encouraging scientific collaboration by funding project-based **exchange of researchers** between Flanders and Brazil:
  - Project duration: 2 years
  - Total funded projects: 18
- 2013: call for joint **research projects** (staff – consumables – equipment):
  - Project duration: 3 years
  - 43 eligible projects out of which 8 where funded
  - Total Flemish investment of 1.665.400 EUR



# FWO-FAPESP Joint Research Projects



- MoU signed in 2018
- 2018: call for [joint research projects](#) (staff – consumables – equipment):
  - for **bilateral research projects** between researchers from Flanders and Brazil (State of São Paulo);
  - in **any scientific domain, as long as it covers fundamental scientific research**;
  - starting on January 1<sup>st</sup> 2019, for a **duration of three years** (same project duration on both sides)
- 36 eligible applications to be evaluated by a joint panel of Flemish and Brazilian experts (Autumn 2018)

# Funding opportunities?

# fwo Funding opportunities

## Research projects – dedicated program for Flemish-Brazilian collaboration

- Bilateral [FAPESP-FWO projects](#) (new call in 2021)

## Research projects – Money Follows Cooperation:

- Regular FWO [research projects](#) (from 2019: 10% of total budget);
- [EOS projects](#): max. 10% of total budget possible for foreign institutions as Type IV research group;
- Applied Biomedical Research ([TBM](#))/Strategic Basic Research ([SBO](#)) projects: max. 20% of total budget possible for non-Flemish research centers (co-applicant).

## Attracting top talent to Flanders:

- [Odysseus](#) for established researchers.
- [Postdoctoral fellowships](#) (no nationality restrictions)





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More info on [www.fwo.be](http://www.fwo.be)

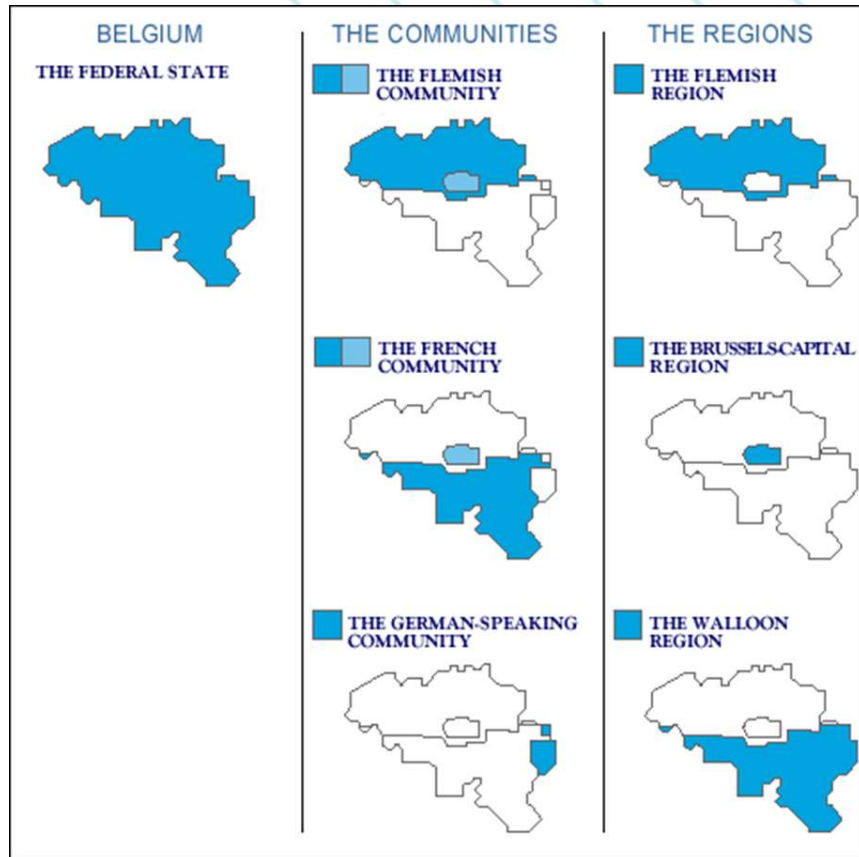
**Thanks for your attention**

Join us





# Belgian Science and Innovation Policy



## Primary responsibility of Communities/Regions

Communities: Education and **basic research**

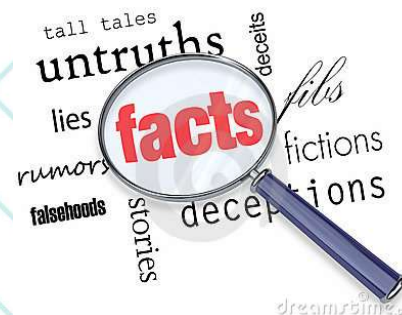
Regions: Economy and applied research

Federal: Thematic programs including marine, space, and polar research (e.g. Station on Antarctica), federal scientific institutions, ...

## Main funding streams Flanders SINCE 01.01.2016:

- **FWO:**
  - Basic, non-oriented research (Mainly at universities)
  - Strategic research (Former SB/SBO/TBM IWT programmes)
  - Research infrastructure (Before: Hercules)
- **BOF/IOF:** Basic funding for fundamental and industrial research
- **'Flanders Innovation and Entrepreneurship':** Applied and Industrial research

# Facts about Flanders

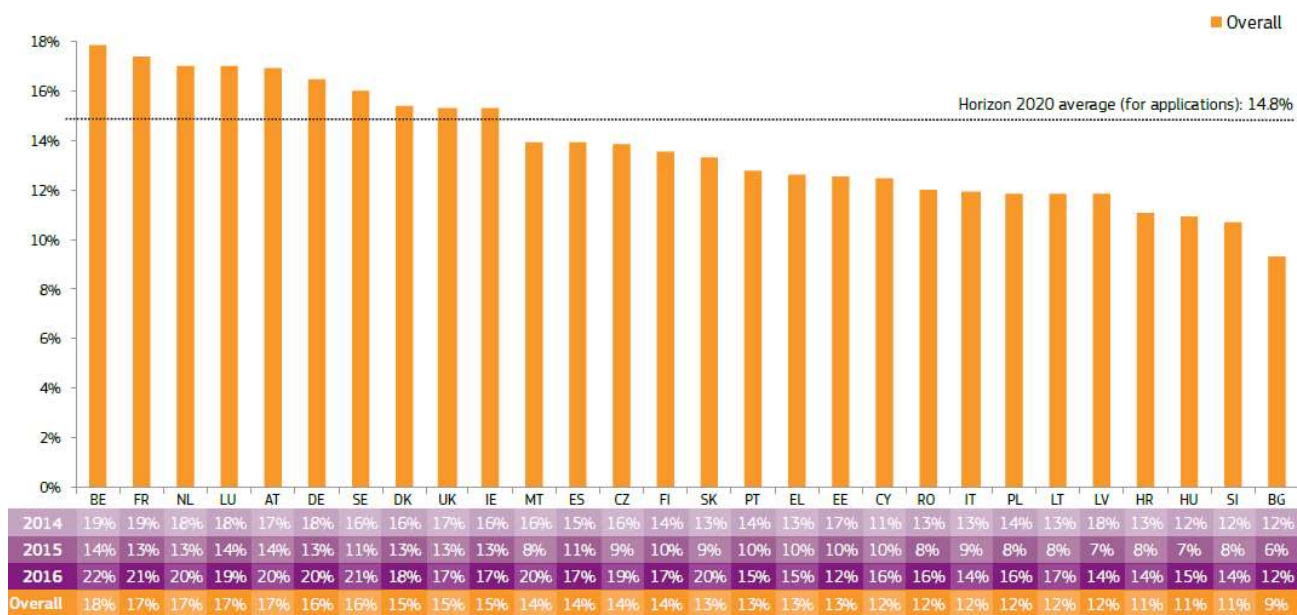


- **Population:** ca. 6.516.011 (2017)<sup>[1]</sup><sub>SEP</sub>
- **R&D-investments:** ± 2,70 % GDP (Flemish Region - 2016) ± 2,76 % GDP (Flemish Community – 2016)
- **Number of R&D personnel:** ± 48.926 (Flemish Region)/ ±50.460 (Flemish Community) (0,72% population – 1,54% working force) (2015)
- **Number of scientific papers:** ± 1% world (2015), or 25,32/10.000 inhabitants (for Med and S&T, 2015)
- **Number of EPO-patent applications** (2013): 313,2/million inhabitants

# Flemish Participation in H2020



FIGURE 10: Success rates of Horizon 2020 applications per Member State, 2014-2016



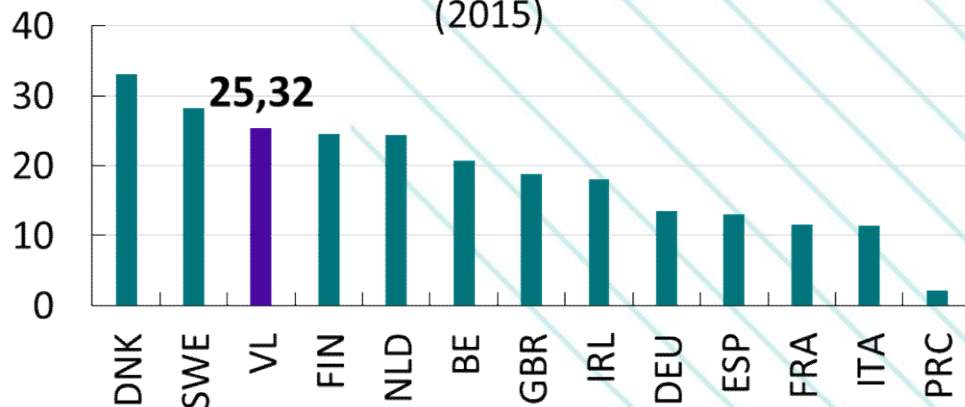
Source: Corda, calls in 2014, 2015 and 2016, Signed Grants cut-off date by 1/09/2017 (excluding grants to named beneficiaries)

Participation (in thousand euro) / GDP (in billion euro)

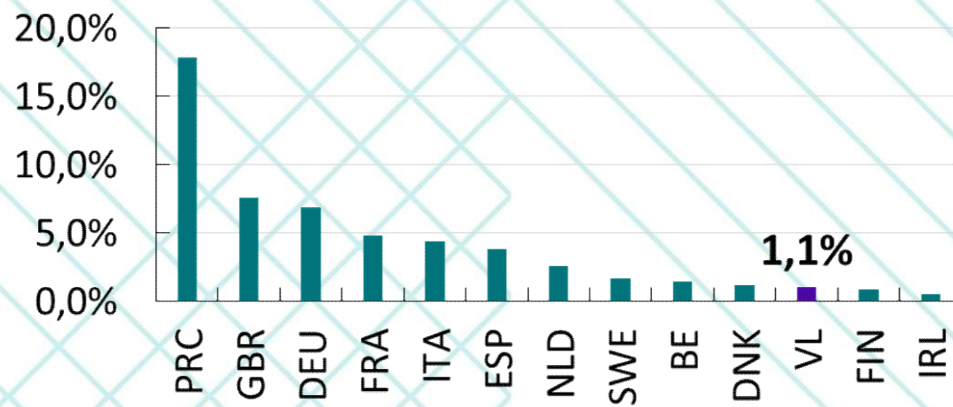
HORIZON 2020 in full swing - Three years on - KEY FACTS AND FIGURES 2014-2016

# Publication Output

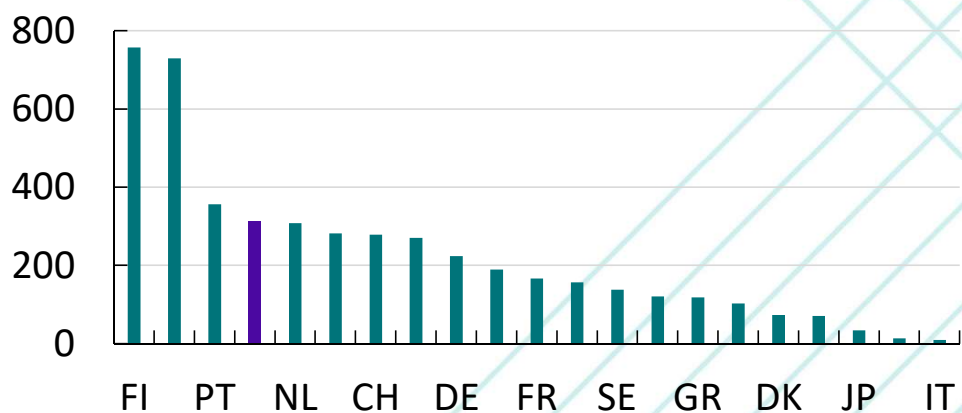
Publication output/10.000 inhabitants  
(2015)



% publications rel. to word total (2015)



EPO patent applications/million inhabitants  
(2013)



% international publications (2015)

