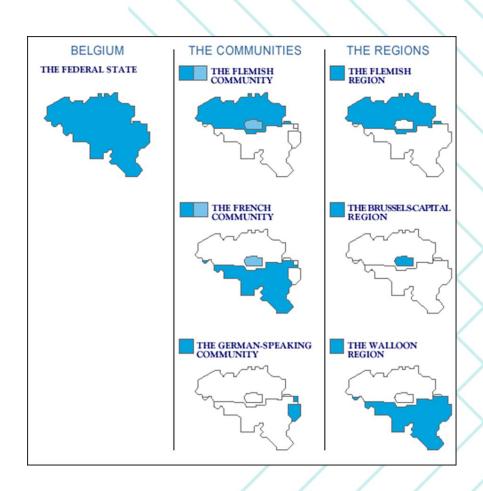


The Challenges of Peer Review in a Small Region

29 June 2017



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 Research Performing Centers





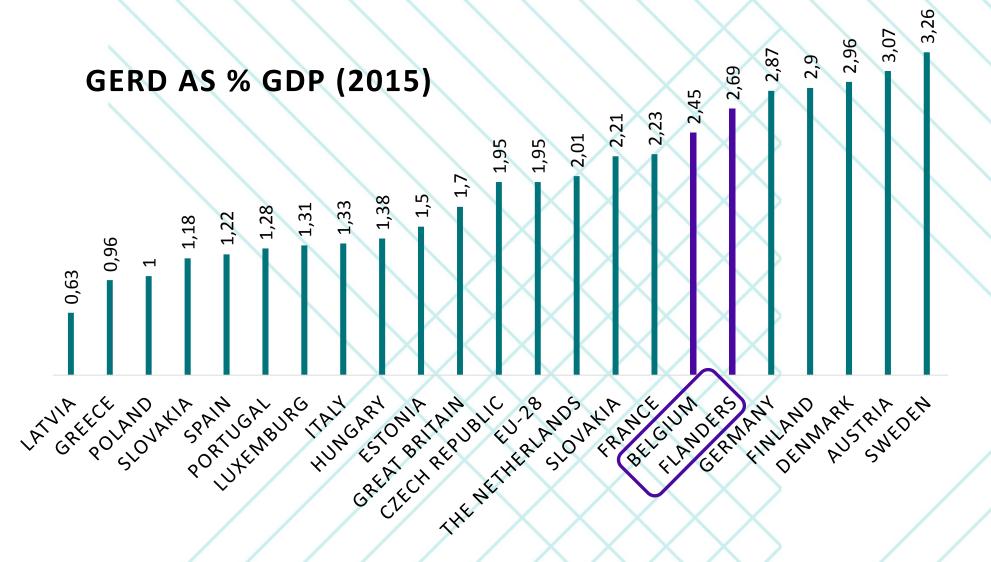
Facts about Flanders

- Population: ca. 6.478.00 (2016)
- R&D-investments: ± 2,69 % GDP (Flemish Region 2015) ± 2,74 % GDP (Flemish Community 2015)
- Number of R&D personnel: ± 44.000 (or 0,69% population 1,48% working force) (2014)
- Number of scientific papers: ± 1% world (2013), or 24,3/10.000 inhabitants (2014)
- Number of EPO-patent applications (2012): 225,3/million inhabitants





3% Norm





Publication - EPO Patent Output

Figure 30: International comparison of the publication output per 10,000 inhabitants (2014)

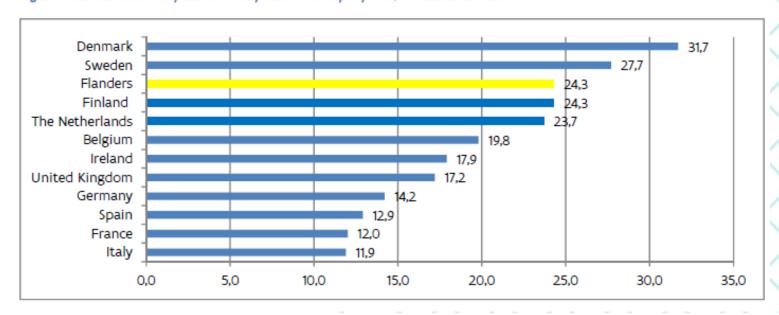
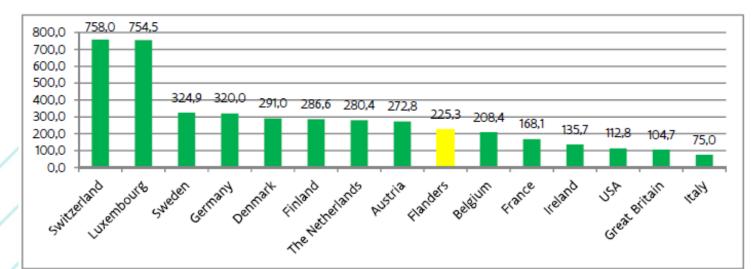
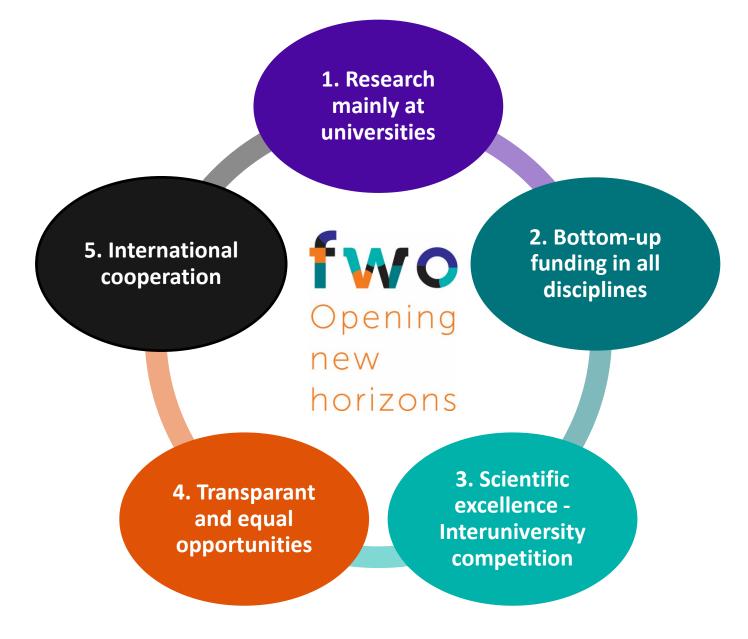


Figure 34: International comparison of EPO patent applications per million of population by origin, inventor and/or applicant (2012)



STI in Flanders, Policy & Key Figures – EWI 2016, p100, 104.



Research Foundation – Flanders (FWO)

www.fwo.be



FWO: Main Mission

- To select to most excellent researchers performing research at a Flemish host institution
- To do this in a researcher friendly way
- Based on transparent and efficient processes and procedures
- Based on international best practices.
- Optimizing the growing pressure of the number of applications



HR EXCELLENCE IN RESEARCH

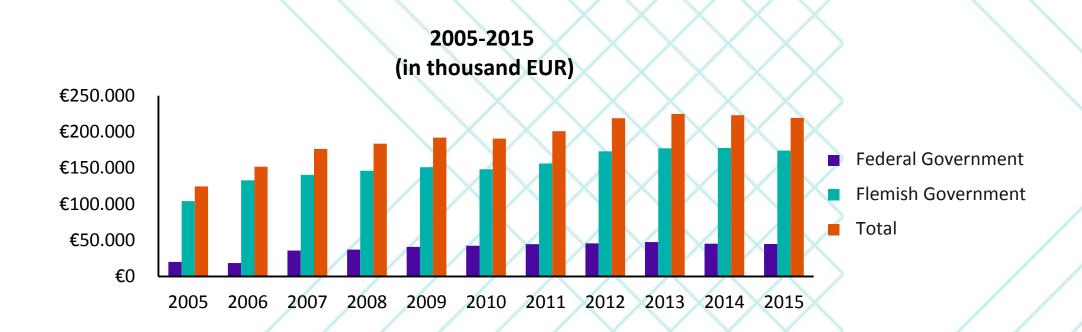


FWO Budget

Budget 2016: 321,6 million EUR

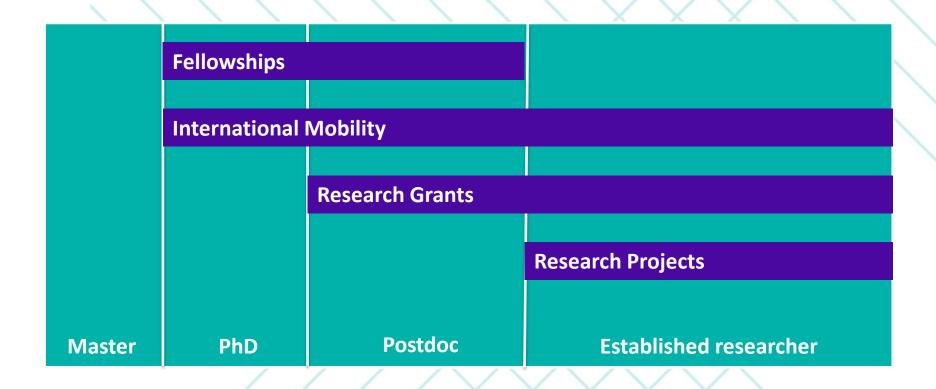
Budget 2017: 340,7 million EUR (overhead 3,4%: 64 FTE => 12 PhD)

Number of applications: > 6.000/year





Main FWO Funding Schemes





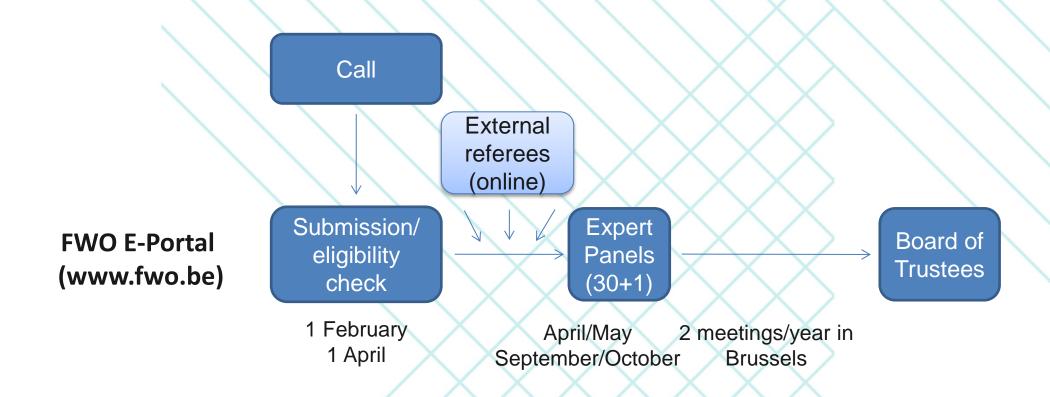
Increasing Number of Applications

		2005	2009	2016
PhD-mandates	#	535	826	983
	Δ		+54%	+84%
PostDoc-mandates	#	427	599	672
	Δ		+40%	+57%
Projects	#	681	750	1.305
	Δ		+10%	+92%

- PhD applications: +84% since 2005
- PostDoc applications: +57% since 2005
- Project applications: +92% since 2005



The Application/Evaluation Process



Duration workflow fellowships: < 5 months

Duration workflow projects: < 7 months



How to deal with the large number of applications?

- Adapted to the program:
 - PhD-fellowships: only evaluated by evaluation panels
 - Postdoctoral fellows: remote referees + evaluation panels
 - Research projects: remote referees + evaluation panels
- Limitation of the influx of new applications:
 - Max. 2 attempts for a pre-doctoral/postdoctoral fellowships (across all programs)
 - Strict limitation of the years after master/PhD and years of seniority to be eligible
 - Max. 2 ongoing projects
 - Strict regulations concerning eligibility of applicants for projects



How to deal with the large number of applications?

- Reorganisation of the evaluation process:
 - 2-step procedure for fellowships
 - Online discussion forum to select proposals for step 2
 - Same deadline for different programs
 - Split of the existing expert panels
- More focused programs:
 - Junior/senior projects
 - Junior/senior postdoctoral fellowships



External Peer Review at FWO (Current Situation)

- Small region/small council
 - Col is everywhere:
 - Remote referees: only outside Belgium
 - Not enough staff capacity to look for remote referees by the council:
 - Applicants need to suggest at least 10 possible referees
 - Strict Col-rules (no co-authors in last 3 years, no joint projects in last 3 years, no other collaboration, etc.)
 - Check by FWO:
 - FWO administration will see to it that applicants strictly observe the eligibility regulations and other guidelines
 - When a violation is detected => application is ineligible



External Peer Review at FWO (New Situation)

- Small region/small council
 - Col is everywhere:
 - Remote referees: only outside Belgium
 - Not enough staff capacity to look for remote referees by the council:
 - Partly "outsourcing" this task (e.g. former ESF, etc.) through European tender

- Expert panels
 - Majority from outside Flanders
 - Chair/Vice-chair: from outside Flanders