

Evaluation of STI policies, instruments and organisations: new horizons and new challenges

Techgate Vienna, Austria

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Friday, November 15th

Expectations on the long-term impact of research fellowships from a political and an evaluation perspective: challenges and limits to measure side-effects



Challenges and limits to measure side-effects:

- definition of side-effects
- relation between main effects and side-effects
- measurement of side-effects
- lessons learnt from two evaluation projects



The Alexander von Humboldt Foundation

Connecting academic excellence worldwide

Knowledge transfer and cooperation at the highest level





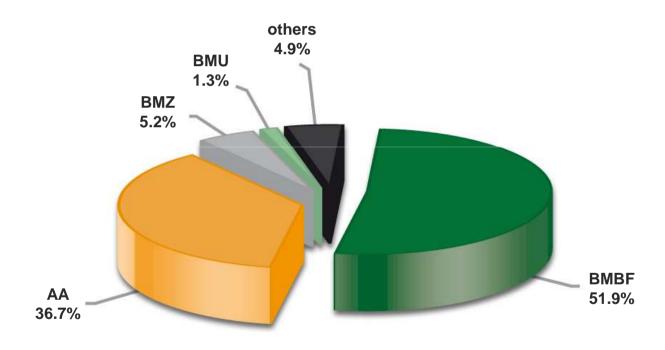
The Humboldt Foundation's intervention

- sponsorship of international academics as part of foreign cultural, educational policy and development cooperation
- impetus for the research location Germany by promoting individuals
- sole selection criterion: academic excellence
- no quotas for countries or disciplines
- exception: Georg Forster Fellowship Programme (developing countries, research project must address issues of significant relevance to the further development of the country of origin)



The Humboldt Foundation's funding

Budget for 2012: approx. 101 million EUR Financed by federal funds: approx. 96%



AA: Federal Foreign Office

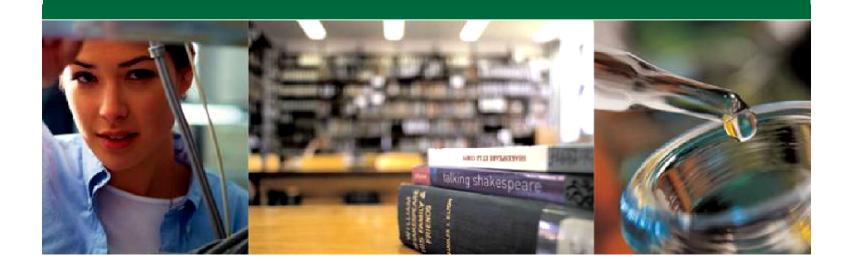
BMBF: Federal Ministry of Education and Research

BMZ: Federal Ministry for Economic Cooperation and Development BMU: Federal Ministry for the Environment, Nature Conservation

and Nuclear Safety



Sponsorship Opportunities offered by the Alexander von Humboldt Foundation





Key sponsorship programmes at a glance

Origin	Academics from abroad	Academics from Germany		
Career stages				
Postdoctoral researchers				
(up to 4 years after completion of doctorate)	Humboldt Research Fellowship	Feodor Lynen Research		
Experienced researchers	Georg Forster Research	Fellowship		
(up to 12 years after completion of doctorate)	Fellowship			
(up to 18 years after completion of doctorate)	Friedrich Wilhelm Bessel Research Award			
Internationally renowned academics	Humboldt Research Award			
	Anneliese Maier Research Award			
	Max Planck Research Award	Max Planck Research Award		
	 Alexander von Humboldt Professorship 			

Alumni sponsorship and international networking



- more than 25,000 Humboldtians in over 130 countries:
 "Once a Humboldtian always a Humboldtian"
- Alumni sponsorship and international networking through e.g.
 - further research stays
 - Research Group Linkage Programme
 - Humboldt Colloquia and Kollegs
 - Humboldt Alumni Associations
 - Humboldt Alumni Award





Definition of ,,side-effects"?

- Humboldt Fellowship Programme (Federal Foreign Office):
 - flagship-programme (around 500 fellowships per year)
 - first programme after second world war
 - adress intellectual elite worldwide
 - important careers inside and outside academia





Definition of ,,side-effects"?

- Georg Forster Fellowship Programme (Federal Ministry for Economic Cooperation and Development)
 - started in the 90-ties
 - around 60 fellowships per year
 - adresses development countries (except India and China)
 - research project with special focus
 - careers with significant relevance to the further development of the country of origin of the applicant/ alumni





Relation main effects and "side-effects"

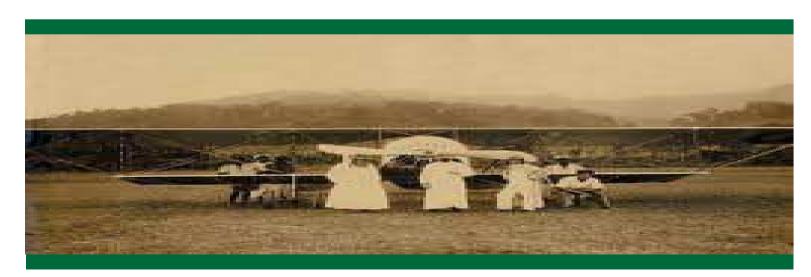
- Main effects (excellent academic careers) necessary and/ or sufficient?
- Selections procedure gives direction for programme evaluation.

Humboldt Research Fellowship:

 academic excellence = sole selection criterion (but some country bonuses); necessary and sufficient

Georg Forster Fellowship:

significant relevance for development of country necessary,
 academic excellence = necessary but not sufficient

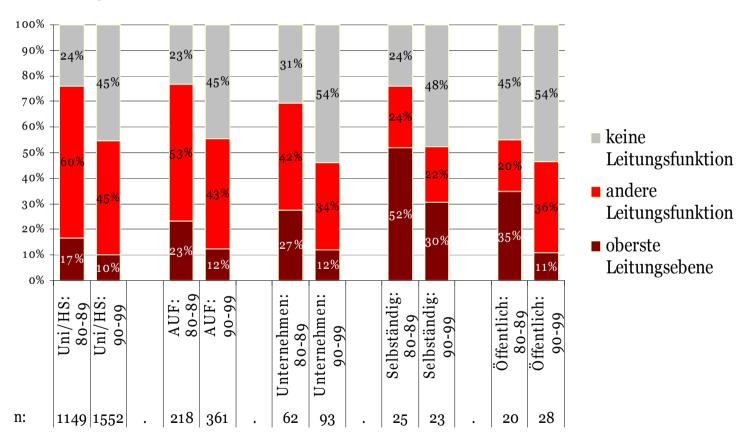


Programme goal:

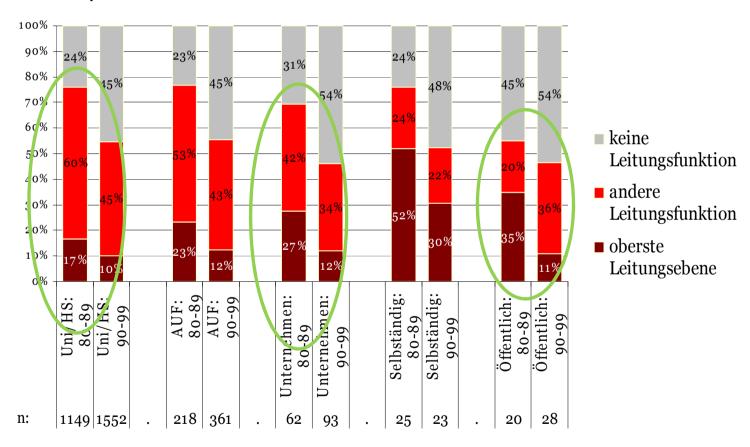
- PO 4: To facilitate access to international experts and decisionmakers in the fields of academia, politics, culture and business for partners from the relevant sectors in Germany.
- PO 5: To convey a multifaceted, realistic image of Germany by creating personal and cultural bonds, breaking down prejudices and promoting knowledge of the science system.



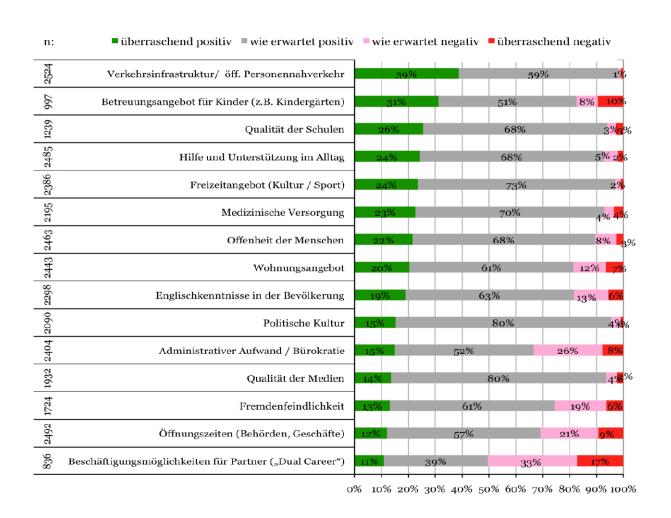
Results PO 4: HFST-Alumni in leading positions, regarding main fields, accepted cohorts 1980-1999.



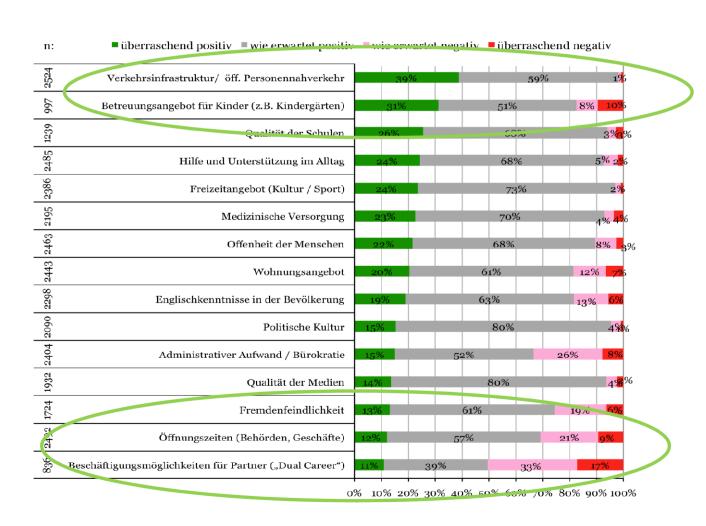
Results PO 4: HFST-Alumni in leading positions, regarding main fields, accepted cohorts 1980-1999.



Results PO 5: Experiences in Germany



Results PO 5: Experiences in Germany



Measurement of side-effects: Georg Forster Research Fellowship, Arnold Bergstraesser Institute, Freiburg, Germany



Programme Goal 3:

Support of qualified researchers from developing and threshold countries in their role as important change agents in reform processes in research, economy, politics and society.

Indicators:

- self-assessment of the relevance of the own research and publications for the development of the country
- counseling and co-working with important institutions in research, economy, politics and society
- reviewer and counselor for development cooperation

Measurement of side-effects: Georg Forster Research Fellowship, Arnold Bergstraesser Institute, Freiburg, Germany



Tabelle 3.3: Einflüsse des GFS auf Stipendiaten und Heimatland, N = 299 Befragte

Possible effects	Very important	Important	Less important	Not important	N
Improving my academic knowledge	79%	20%	1%	*	298
Improving my methodological skills	72%	24%	4%	*	295
Improving my capacity to act as a multiplier in Higher Education and Research	68%	28%	4%	*	299
Understanding a different culture of knowledge (management)	51%	37%	11%	1%	297
My research results contribute to solving development challenges	45%	42%	11%	3%	295
Positive impact on my activities in other fields (civil society, social/cultural/political activity, etc.)	42%	36%	19%	3%	298
Relevance for crucial economic, social and political problems in my country	34%	35%	22%	9%	297

Measurement of side-effects: Georg Forster Research Fellowship, Arnold Bergstraesser Institute, Freiburg, Germany



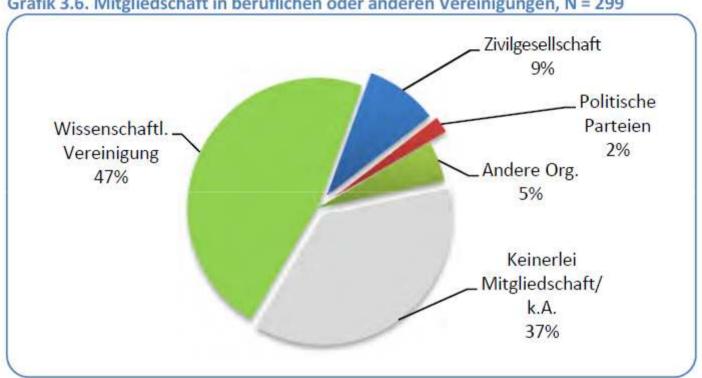
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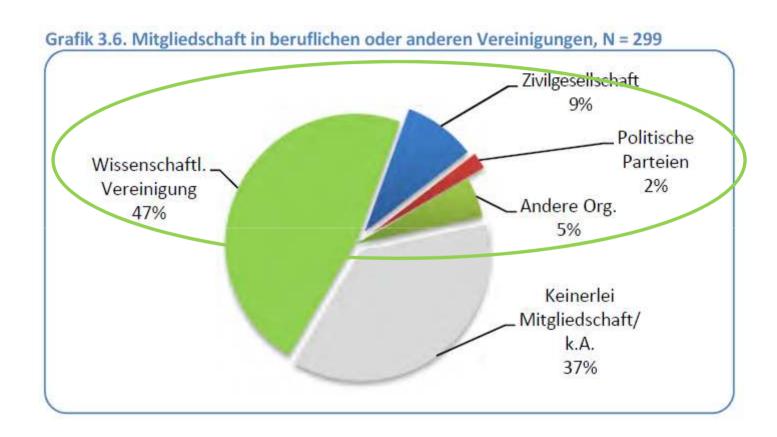






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Lessons learnt





Lessons learnt

- common understanding of relation of main effects and side effects for funding ministries, evaluators and foundation important
- dialogue about reasonable indicators necessary
- aggregation of data vs. Individual careers/ case studies
- mixed methods approach necessary





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