

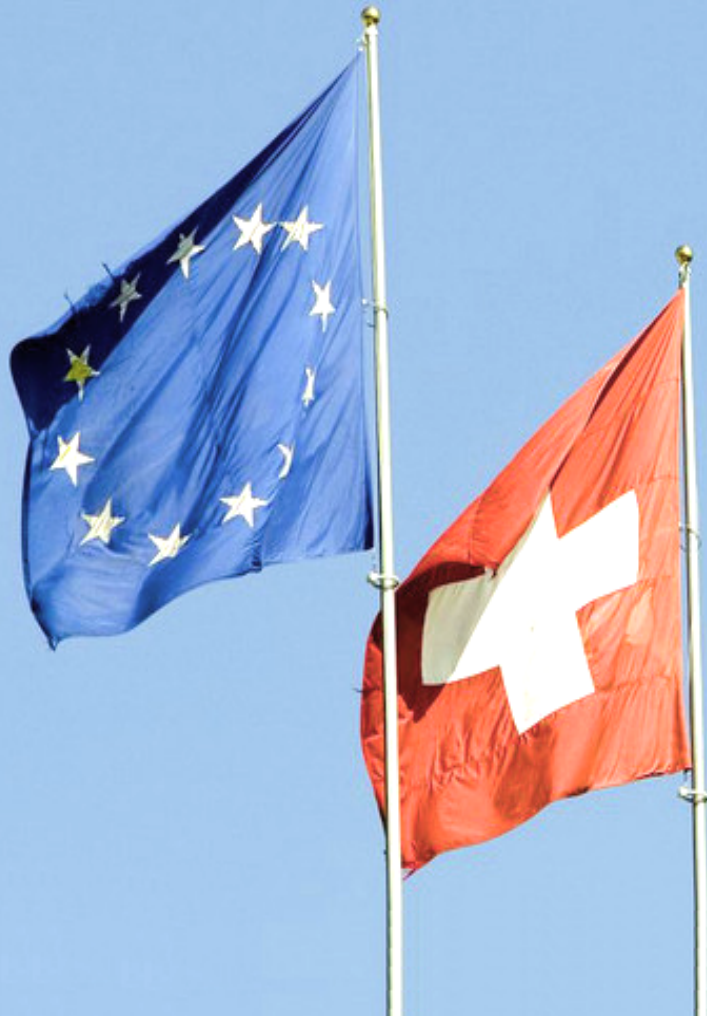
Forschen in der Schweiz – Möglichkeiten und Schwierigkeiten
Tagung «Forschung für Leben» in Bern, 10. Oktober 2013

Horizon 2020

Peter Erni, Director Euresearch



FP7 & H2020 – Swiss Participation



Switzerland being a non-EU Member State has the possibility to become a so-called **Associated Country** to the EU Framework Programmes for Research and Technical Development / Innovation.

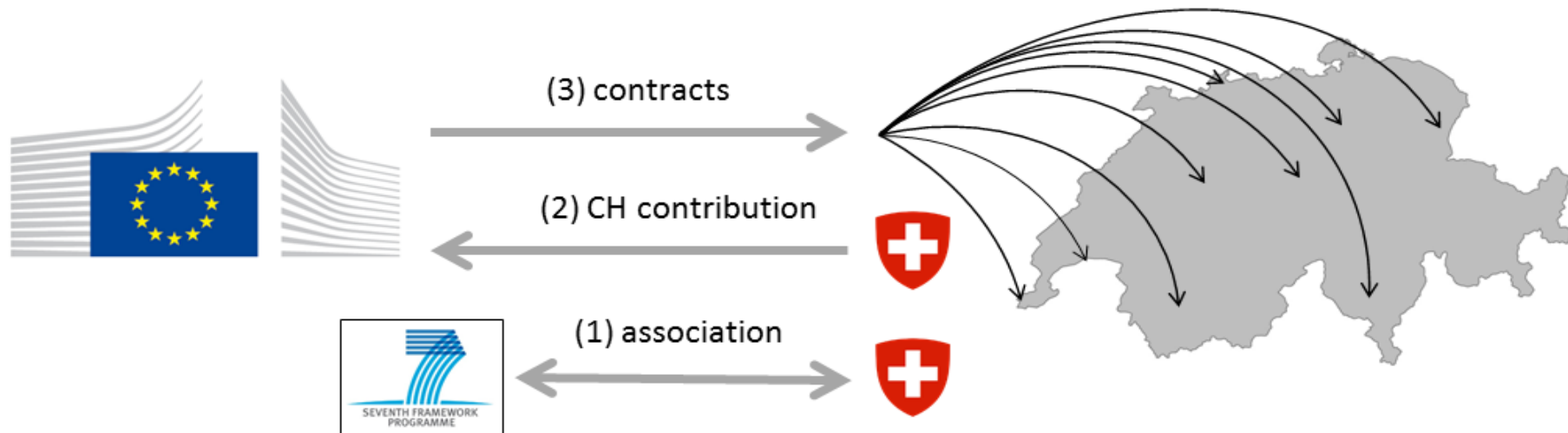
This enables Swiss actors to participate with the **same rights and obligations** as entities from EU Member States.

FP7 runs from 2007-2013

H2020 runs from 2014-2020

Currently, Switzerland is associated to FP7 and plans to be associated to H2020 by January 2014 (retroactively) too.

FP7 & H2020 – Swiss Participation



Euresearch – Who?

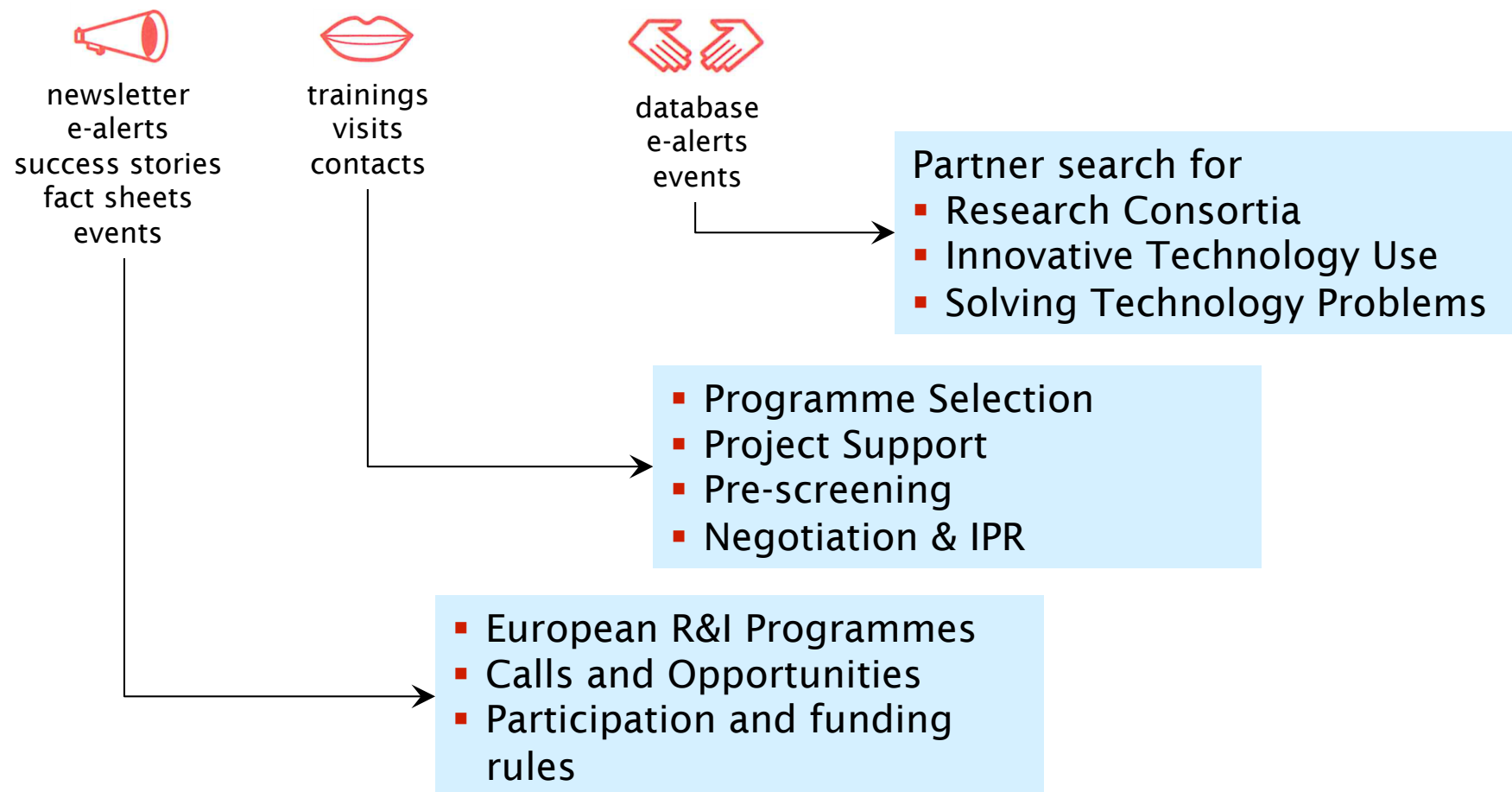
Euresearch

- is a Swiss **non-profit-organization**
- was **founded in 2001***
- is an active **R&I facilitator** all along the value chain
- has **1 Head Office** (20 FTE) and **10 Regional Offices** (15 FTE)
- has all **National Contact Points (NCP)** under one roof
- provides **no funding**
- provides **services on FP7/H2020 & EEN to Swiss entities** (information, advice, partner & technology search) – in general free of charge
- is **mandated by the Federal Administration**

* Members: ETHZ, EPFL, Universities Basel, Bern, Fribourg, Geneva, Lausanne, Neuchâtel, Luzern, St. Gallen, Zürich, Università della Svizzera italiana (USI/SUP), Berner FH (BFH), FH Svizzera italiana (SUPSI), FH Nordwestschweiz (FHNW), FH Ostschweiz (FHO), Hochschule Luzern (HSLU), FH Westschweiz (HES-SO), Zürcher FH (ZFH), Rektorenkonferenz KFH, SNF, SwissMEM

Euresearch – Services

We **inform**, **advise** and **connect**




Euresearch – The Network

SwissCore

Contact Office for European Research
Innovation and Education

University
St. Gallen

RO SG 

University
Basel

RO BS 

University
Zürich & ETHZ

RO ZH 

University
Neuchâtel

RO NE 

University
Bern

RO BE 



EURESEARCH
Swiss guide to European research & innovation

HO Bern

University
Fribourg

RO FR 

University
Lucerne &
HSLU

RO LU 

University
Geneva

RO GE 

University
Lausanne & EPFL

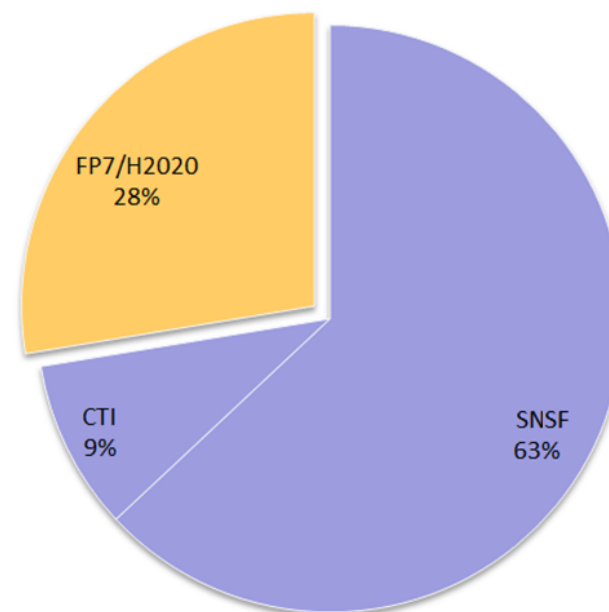
RO LSN 

USI/SUPSI

RO TI 

Finding R&I Funding

Competitive Institutional Research Support in Switzerland 2013-2016*



Research	Applied Research	Demonstration	Production	Market
SNSF 3.7 bn CHF				
	CTI 0.55 bn CHF			
EU Programmes 1.62 bn CHF				
COST 0.023 bn CHF				
		EUREKA		

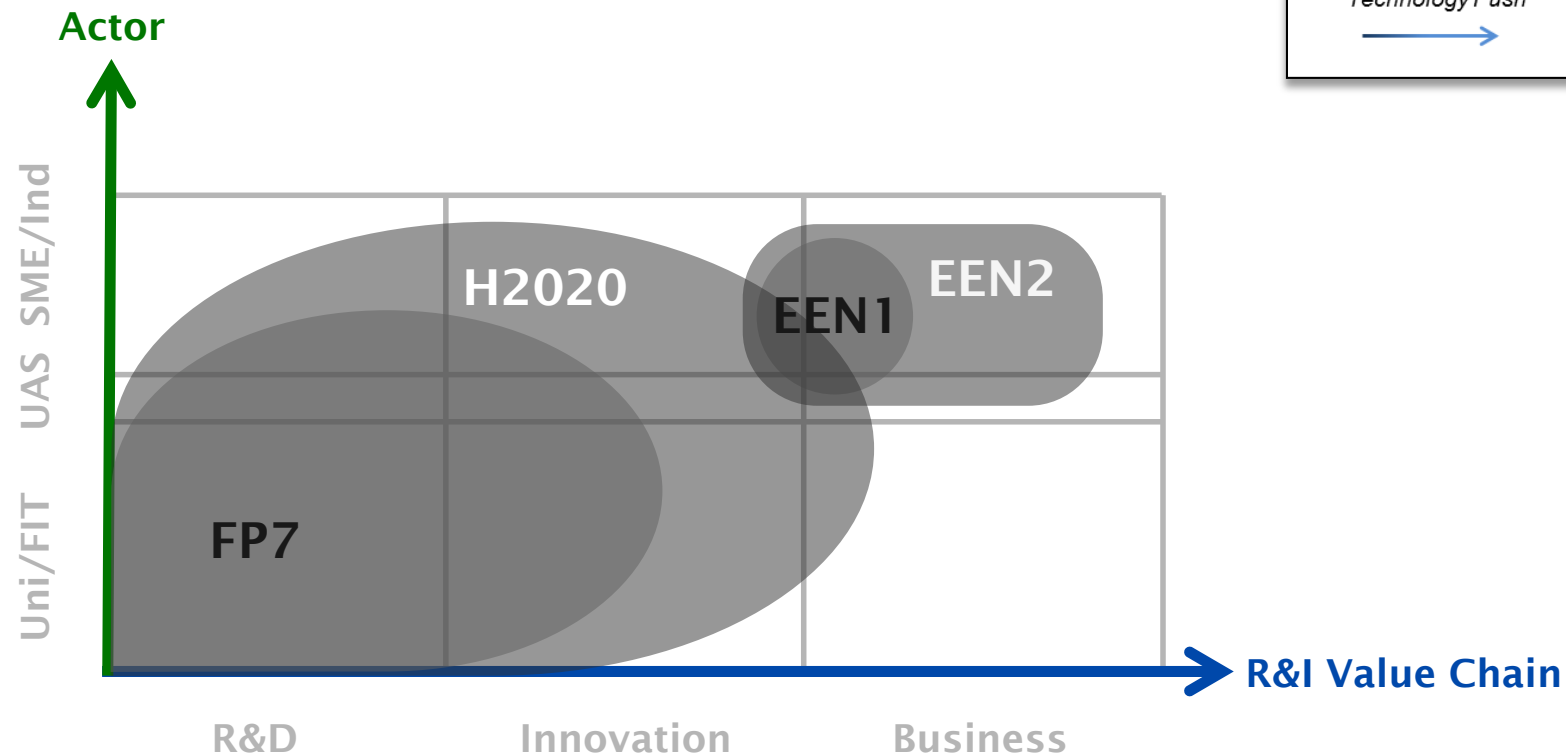
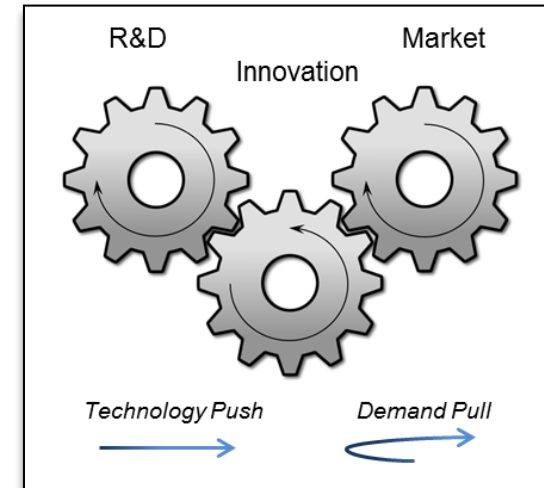


* Source: SBF

FP7 & H2020 – Old vs. New

7th EU Framework Programme «FP7»: 2007-2013

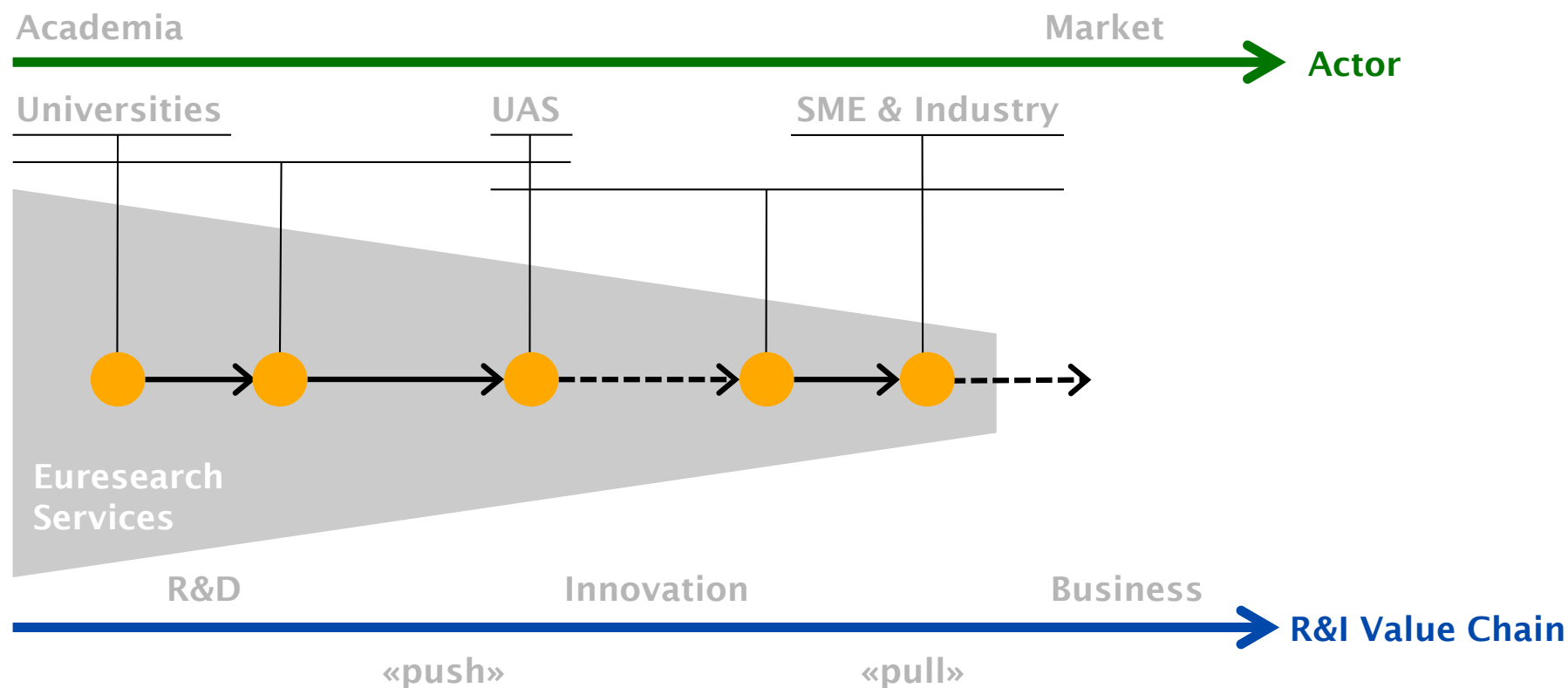
8th EU Framework Programme «Horizon 2020»: 2014-2020



Euresearch – Services

Ambition: No-wrong-door concept for all Swiss actors for European R&I funding

Motivation: Clients' needs & valorisation of institutional investment





The Multiannual Financial Framework 2014-20

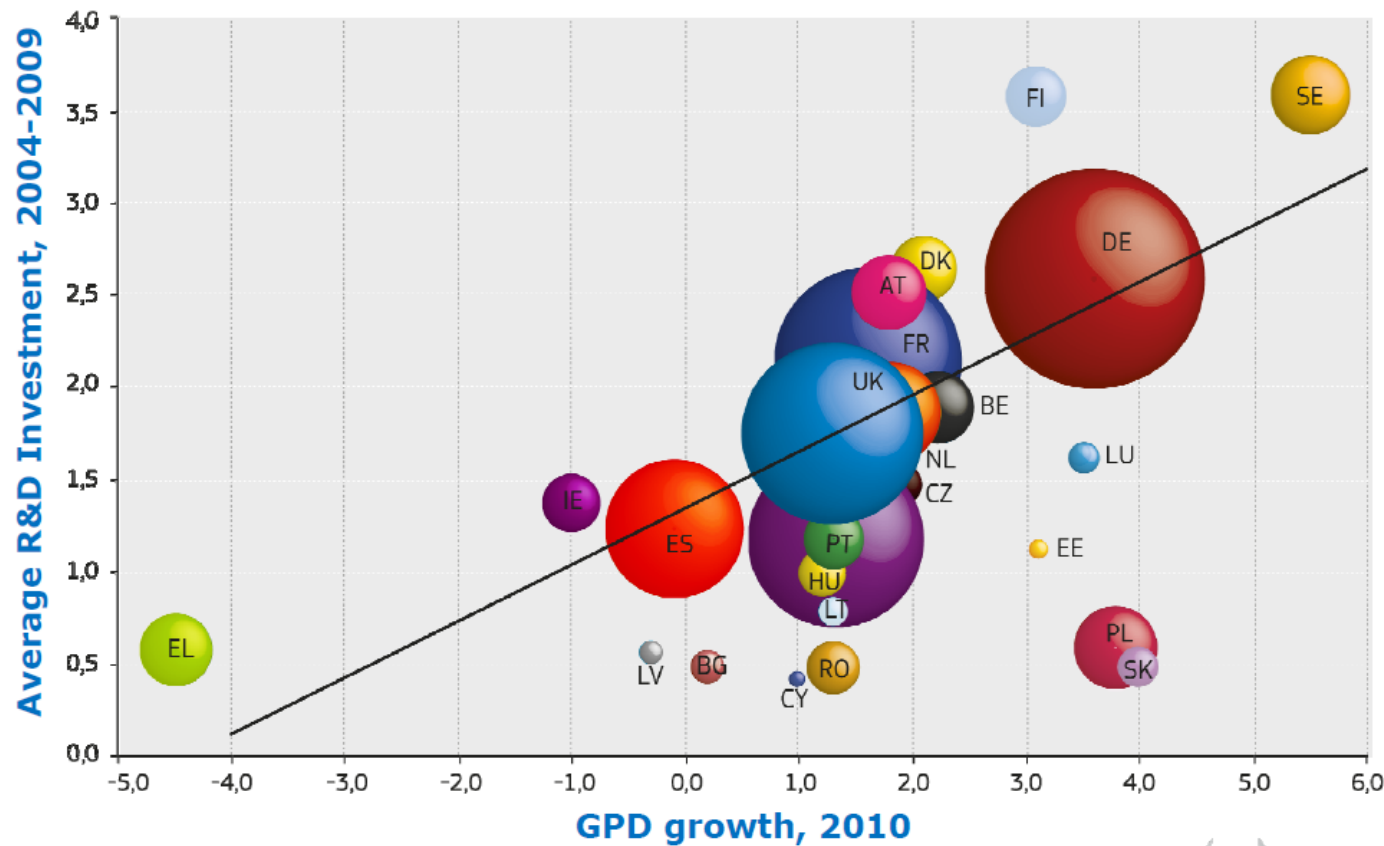
European Council conclusions, 8 February 2013

Key challenge: Stabilize the financial and economic system while taking measures to create economic opportunities.

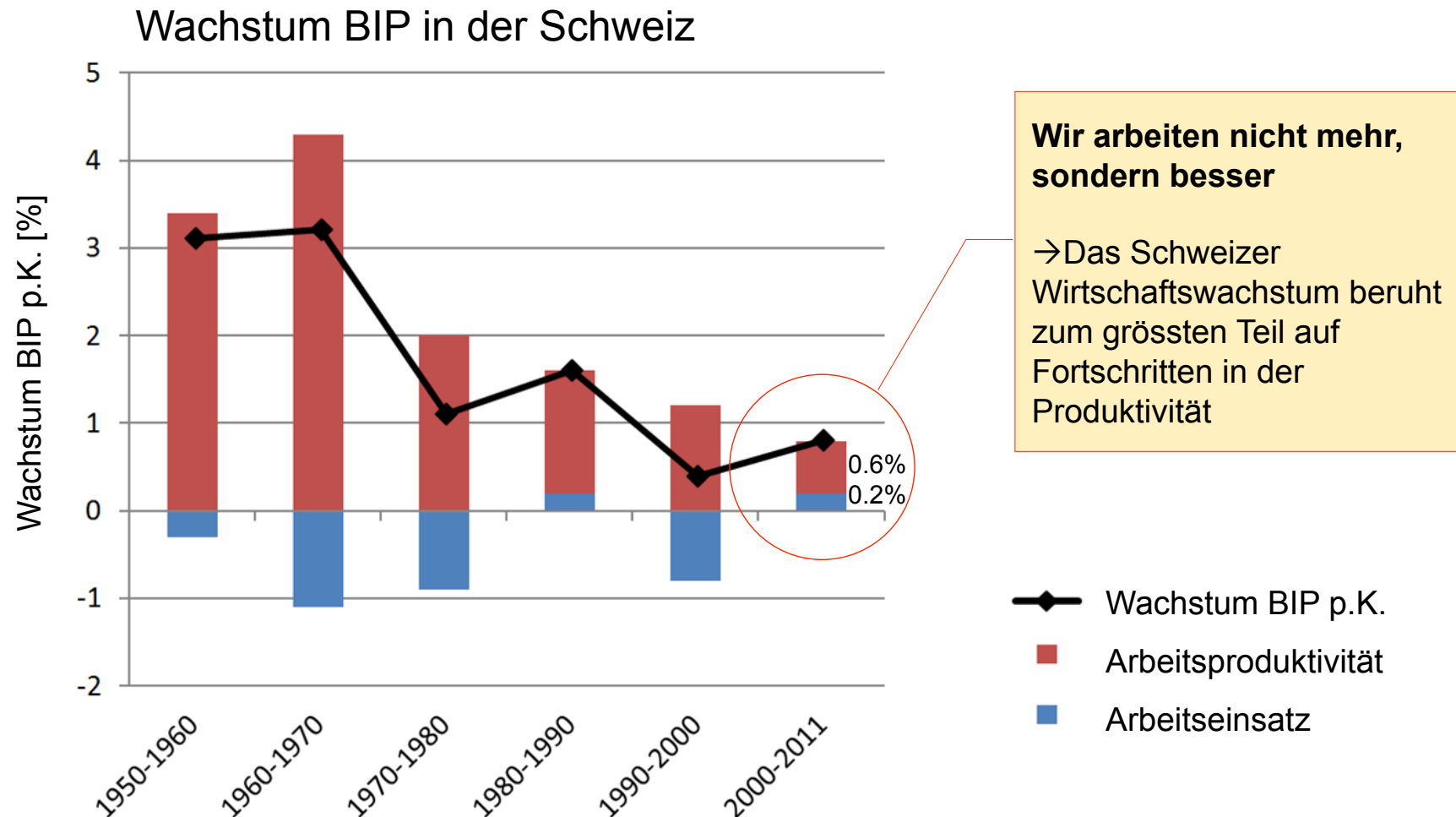
1. Smart & inclusive growth*	€451 billion
2. Sustainable growth, natural resources	€373 billion
3. Security and citizenship	€ 16 billion
4. Global Europe	€ 58 billion
5. Administration	€ 62 billion
<hr/>	
Total	€ 960 billion

* Education, Youth, Sport; Connecting Europe; Cohesion; Competitive Business SMEs; **HORIZON 2020**

Investment in R&D is part of the solution to exit from the economic crisis

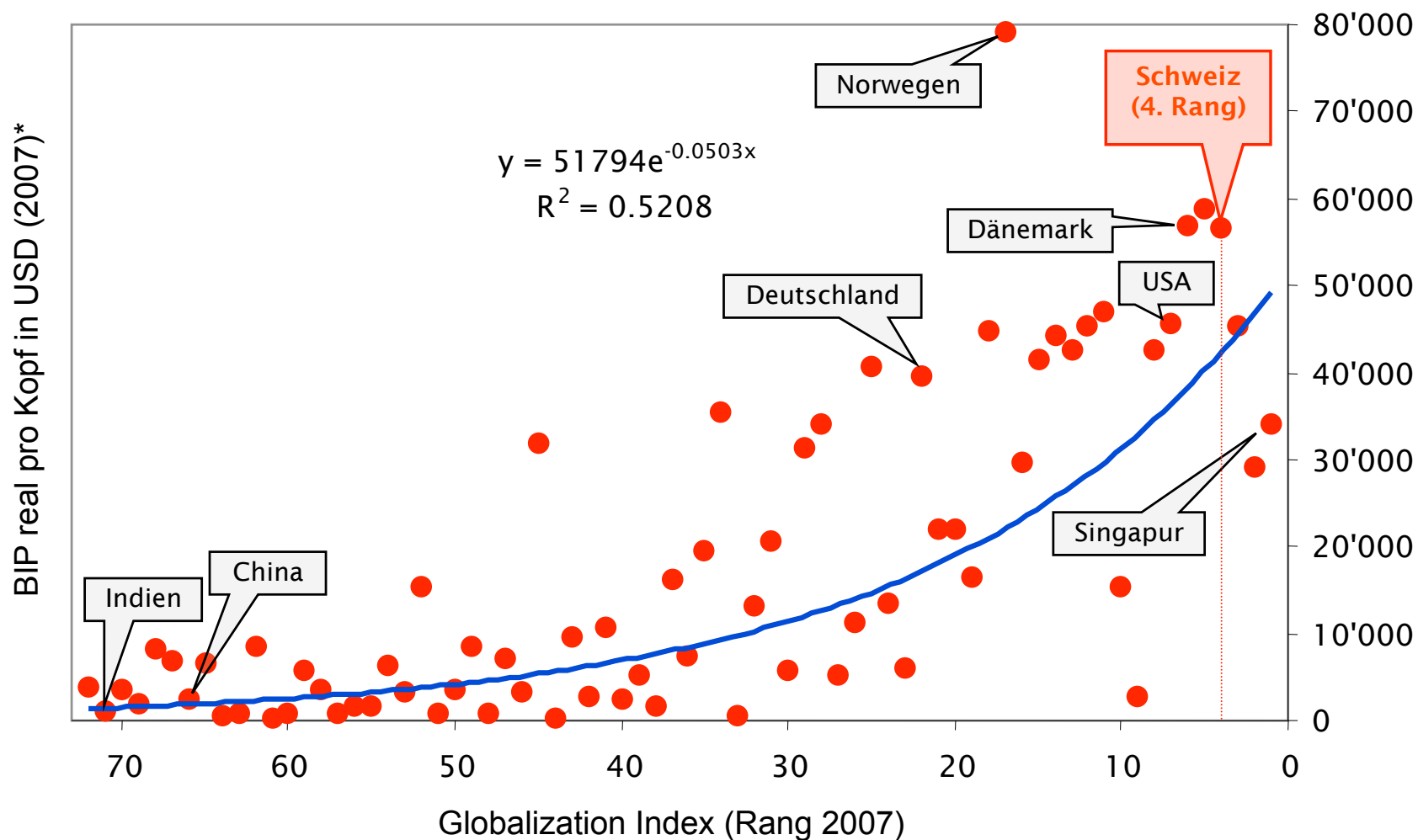


Nachhaltiger Nutzen für die Schweizer Volkswirtschaft durch institutionelle Förderung



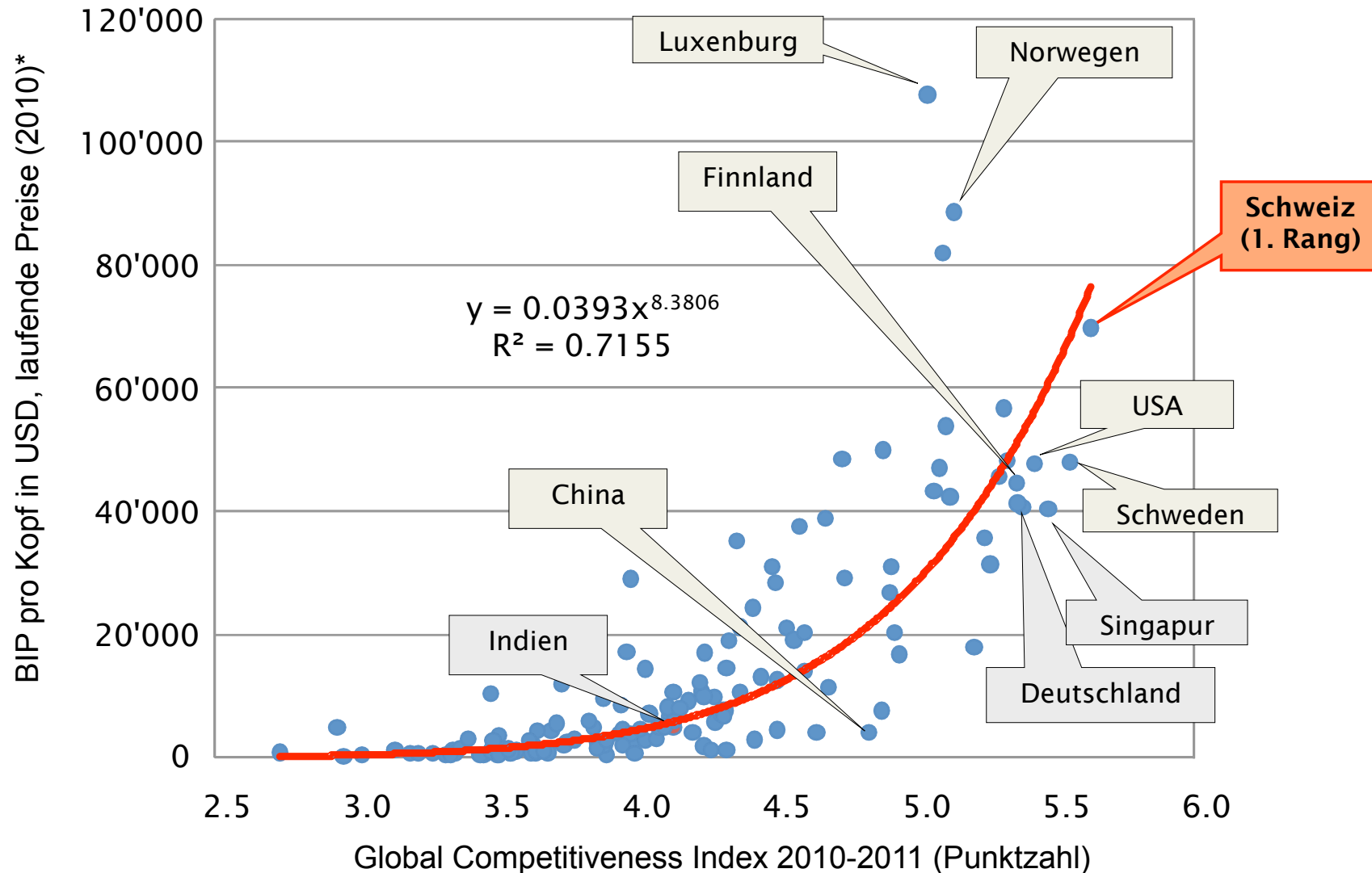
Eigene Darstellung. Quellen: BFS, SECO, P. Eisenhut

Zusammenhang zwischen globaler Offenheit und BIP



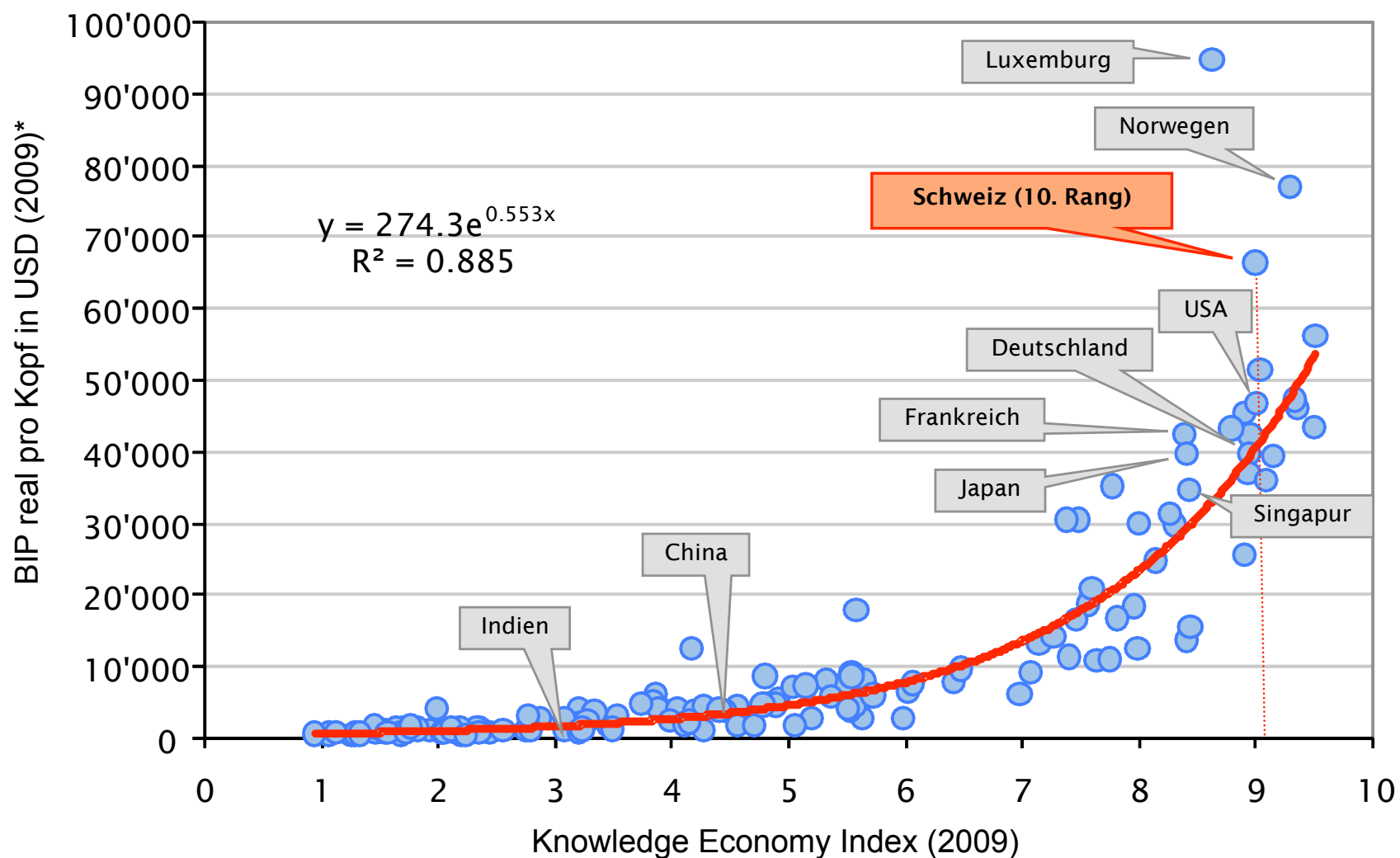
* Schätzungen des IMF; 72 Länder; Quellen: A.T. Kearney, IMF

Zusammenhang zwischen Wettbewerbsfähigkeit und BIP



* Schätzungen des IMF; 132 Länder; Quellen: WEF, IMF

Starker Zusammenhang zwischen Wissen und BIP



* teils Schätzungen des IMF; 137 Länder; Quellen: Weltbank, IMF

What is Horizon 2020



€ 70 billion for Research & Innovation

A core part of **Europe 2020**, the European **Innovation Union** and the **European Research Area**

- Responding to the economic crisis to invest in future jobs and growth
- Addressing people's concerns about their livelihoods, safety and environment
- Strengthening the EU's global position in research, innovation and technology

What is new

- **A single programme** bringing together three separate programmes/initiatives (FP7, CIP, EIT)
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond

Three Priorities



Three Priorities



- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures

European Research Council (ERC)

Frontier research by the best individual teams

€ 13.1 billion

Future and Emerging Technologies (FET)

Collaborative research to open new fields of innovation

€ 2.7 billion

Marie Skłodowska-Curie actions

Opportunities for training and career development

€ 6.2 billion

Research infrastructures

Ensuring access to world-class facilities

€ 2.5 billion

Three Priorities



- Strategic investments in key technologies underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation
- Europe needs more innovative small and medium-sized enterprises (SME) to create growth and jobs

Leadership in enabling and industrial technologies (LEIT)

ICT, nanotechnologies, materials, biotechnology, manufacturing, space

€ 13.6 billion

Access to risk finance

Leveraging private finance and venture capital for research and innovation

€ 2.8 billion

Innovation in SME

Fostering all forms of innovation in all types of SME

€ 0.6 billion*

* plus complemented by expected 20% of budget of societal challenges plus LEIT and 'Access to risk finance' with strong SME focus

Three Priorities



- Concerns of citizens and society/EU policy objectives (climate, environment, energy, transport, etc.) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

Health, demographic change and wellbeing	€ 7.5 billion
Food security, sustainable agriculture, marine and maritime research & the Bioeconomy	€ 3.9 billion
Secure, clean and efficient energy	€ 5.9 billion
Smart, green and integrated transport	€ 6.3 billion
Climate action, resource efficiency and raw materials	€ 3.1 billion
Inclusive and reflective societies	€ 1.3 billion
Secure societies	€ 1.7 billion
Science with and for society	€ 0.5 billion
Spreading excellence and widening participation	€ 0.8 billion

Simplification: Rules for Participation

A single set of rules

- adapted for the whole research and innovation cycle
- covering all research programmes and funding bodies
- aligned to the Financial Regulation, coherent with other new EU Programmes

One project – one funding rate

- maximum of 100% of the total eligible costs (except for innovation actions, where a 70% maximum will apply for profit making entities)
- indirect eligible costs: a flat rate of 25% of direct eligible costs

Simple evaluation criteria

- Excellence – Impact – Implementation (Excellence only, for the ERC)

New forms of funding aimed at innovation

- pre-commercial procurement, inducement prizes, dedicated loan and equity instruments

International participation

- facilitated but better protecting EU interests

Simpler rules for grants

- broader acceptance of participants accounting practices for direct costs, flat rate for indirect costs, no time-sheets for personnel working full time on a project, possibility of output-based grants

Fewer, better targeted controls and audits

- lowest possible level of requirements for submission of audit certificates without undermining sound financial management
- audit strategy focused on risk and fraud prevention

Improved rules on intellectual property

- balance between legal security and flexibility
- tailor-made IPR provisions for new forms of funding
- a new emphasis on open access to research publications

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Head Office: Bern
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Bern,
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Euresearch Head Office
Dr. Peter Erni
Director
Effingerstrasse 19
3008 Bern
Tel. +41 (0)31 380 60 01
peter.erni@euresearch.ch

Backup Slides

Gross domestic expenditure on R&D 2000-2010 (% share of GDP)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
EU-27	1,86	1,87	1,88	1,87	1,83	1,83	1,85	1,85	1,92	2,01	2,00
Euroraum	1,84	1,86	1,88	1,87	1,85	1,84	1,87	1,88	1,96	2,06	2,06
Belgien	1,97	2,07	1,94	1,87	1,86	1,83	1,86	1,89	1,97	2,03	1,99
Bulgarien	0,51	0,46	0,48	0,48	0,49	0,46	0,46	0,45	0,47	0,53	0,60
Tsch. Republik	1,17	1,16	1,15	1,20	1,20	1,35	1,49	1,48	1,41	1,48	1,56
Dänemark (1)	2,24	2,39	2,51	2,53	2,43	2,46	2,48	2,58	2,85	3,06	3,06
Deutschland	2,47	2,47	2,50	2,54	2,50	2,51	2,54	2,53	2,69	2,82	2,82
Estland	0,60	0,70	0,72	0,77	0,85	0,93	1,13	1,08	1,28	1,43	1,62
Irland	1,11	1,09	1,09	1,16	1,22	1,24	1,24	1,28	1,45	1,74	1,79
Griechenland	-	0,58	-	0,57	0,55	0,60	0,59	0,60	-	-	-
Spanien	0,91	0,92	0,99	1,05	1,06	1,12	1,20	1,27	1,35	1,39	1,39
Frankreich (2)	2,15	2,20	2,24	2,18	2,16	2,11	2,11	2,08	2,12	2,26	2,26
Italien	1,04	1,08	1,12	1,10	1,09	1,09	1,13	1,17	1,21	1,26	1,26
Zypern	0,25	0,26	0,30	0,35	0,37	0,41	0,43	0,44	0,43	0,49	0,50
Lettland	0,45	0,41	0,42	0,38	0,42	0,56	0,70	0,60	0,62	0,46	0,60
Litauen	0,59	0,67	0,66	0,67	0,75	0,75	0,79	0,81	0,79	0,83	0,79
Luxemburg	1,65	-	-	1,65	1,63	1,56	1,66	1,58	1,57	1,66	1,63
Ungarn (3)	0,81	0,93	1,00	0,94	0,88	0,94	1,01	0,98	1,00	1,17	1,16
Malta (3)	-	-	0,26	0,25	0,53	0,57	0,62	0,58	0,56	0,54	0,63
Niederlande	1,94	1,93	1,88	1,92	1,93	1,90	1,88	1,81	1,77	1,82	1,83
Österreich	1,93	2,05	2,12	2,24	2,24	2,46	2,44	2,51	2,67	2,72	2,76
Polen	0,64	0,62	0,56	0,54	0,56	0,57	0,56	0,57	0,60	0,68	0,74
Portugal	0,73	0,77	0,73	0,71	0,75	0,78	0,99	1,17	1,50	1,64	1,59
Rumänien	0,37	0,39	0,38	0,39	0,39	0,41	0,45	0,52	0,58	0,47	0,47
Slowenien (4)	1,38	1,49	1,47	1,27	1,39	1,44	1,56	1,45	1,65	1,86	2,11
Slowakei	0,65	0,63	0,57	0,57	0,51	0,51	0,49	0,46	0,47	0,43	0,63
Finnland	3,35	3,32	3,36	3,44	3,45	3,48	3,48	3,47	3,70	3,92	3,87
Schweden (5)	-	4,13	-	3,80	3,58	3,56	3,68	3,40	3,70	3,61	3,42
Ver. Königreich	1,81	1,79	1,79	1,75	1,68	1,73	1,75	1,78	1,79	1,86	1,77
Island	2,67	2,95	2,95	2,82	-	2,77	2,99	2,68	2,64	3,11	-
Norwegen	-	1,59	1,66	1,71	1,58	1,52	1,49	1,62	1,61	1,80	1,71
Schweiz	2,53	-	-	-	2,90	-	-	-	2,99	-	-
Kroatien	-	-	0,96	0,96	1,05	0,87	0,75	0,80	0,89	0,83	0,73
Türkei	0,46	0,51	0,51	0,47	0,51	0,58	0,57	0,71	0,73	0,85	-
Japan (4)	3,04	3,12	3,17	3,20	3,17	3,32	3,40	3,44	3,45	-	-
Vereinigte Staaten	2,69	2,71	2,60	2,60	2,53	2,56	2,60	2,66	2,79	-	-

(1) 2007: Bruch in der Reihe.

(2) 2000 und 2004: Bruch in der Reihe.

(3) 2004: Bruch in der Reihe.

(4) 2008: Bruch in der Reihe.

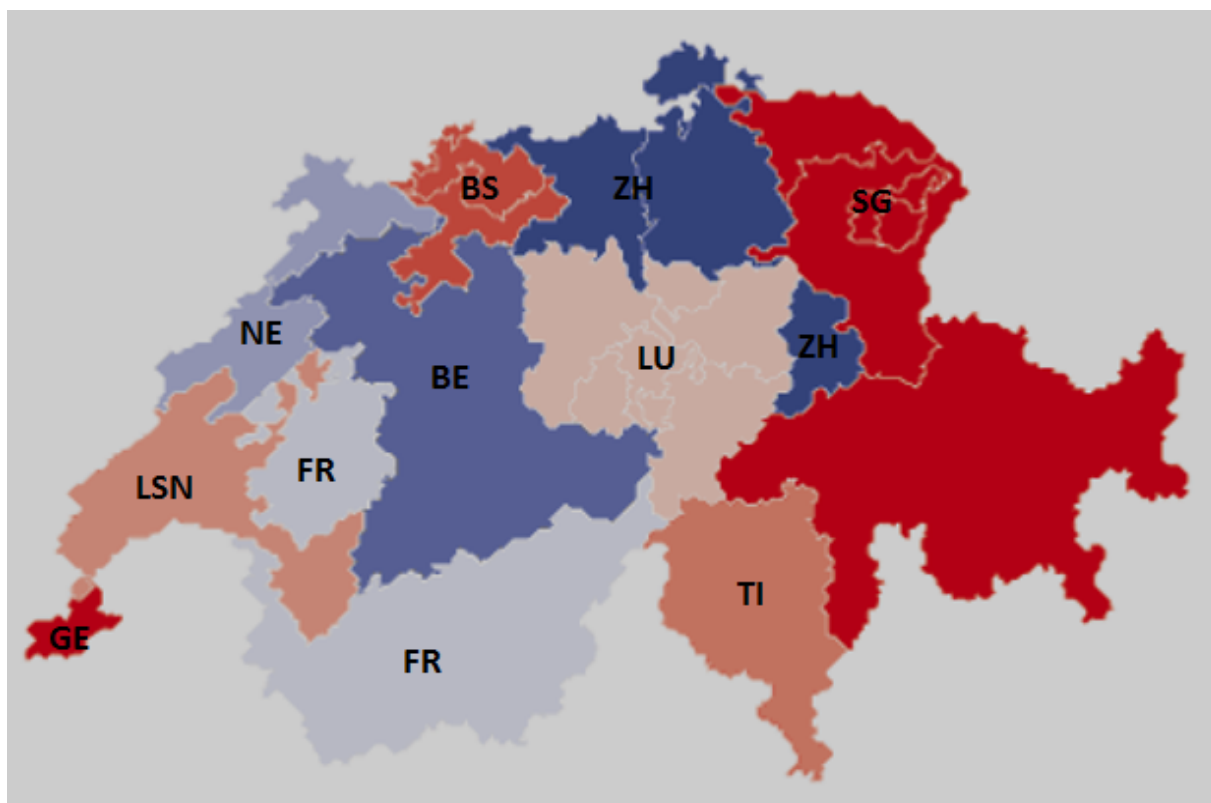
(5) 2005: Bruch in der Reihe.

Quelle: Eurostat (Online-Datencode: t2020_20), OECD

Global Innovation Index 2013



Euresearch – Regional Offices



Enterprise Europe Network EEN

You have developed a given technology:
Publish a **Technology Offer** via EEN



- find partners for licensing, manufacturing, joint ventures, ...

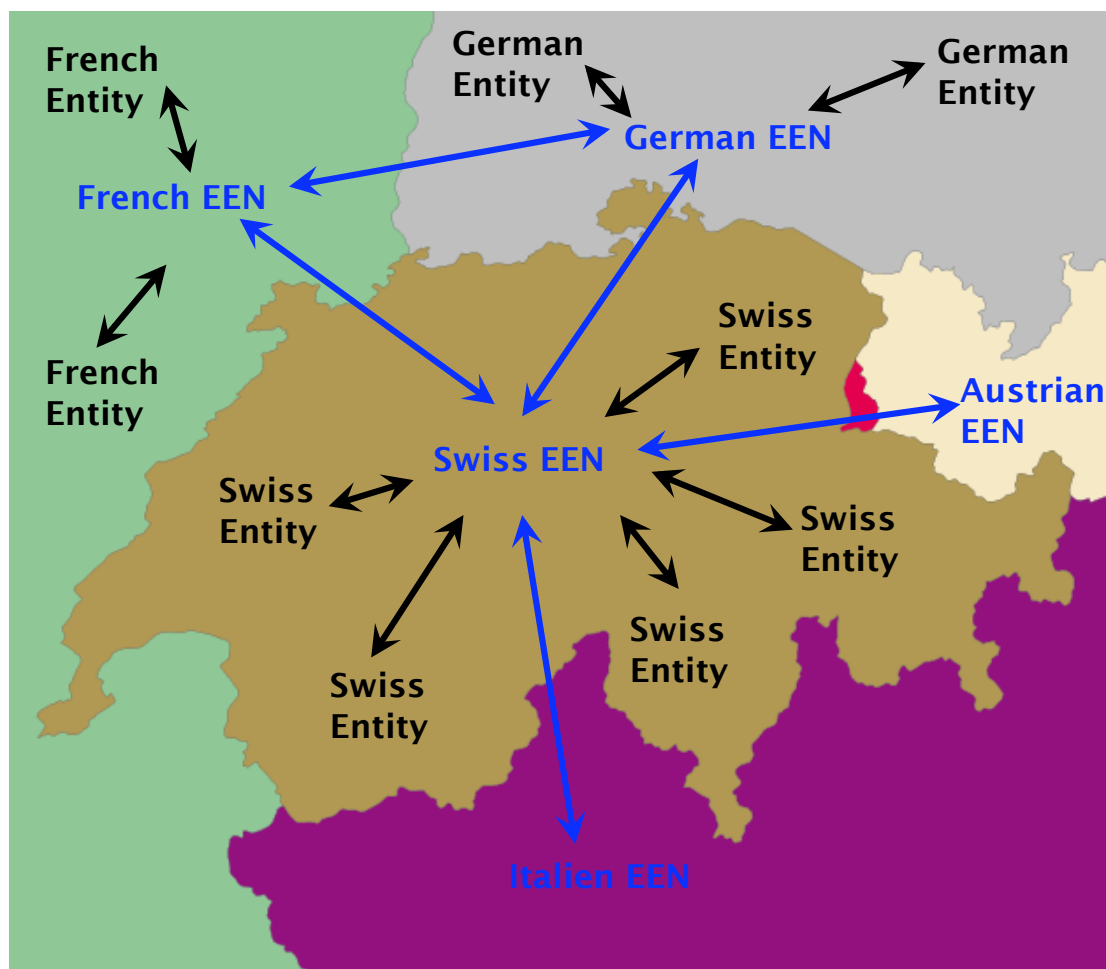
You have knowledge and technologies:
Monitor **Technology Requests** via EEN



- sell your expertise / knowledge / technologies



Enterprise Europe Network EEN



Swiss EEN Coordinator



Cédric Höllmüller
+41 (0)31 380 60 05
cedric.hoellmueller@euresearch.ch

www.swisseen/marketplace
www.euresearch.ch