

## Public Funding Opportunities, Windisch Overview Funding Programs

December 4, 2019

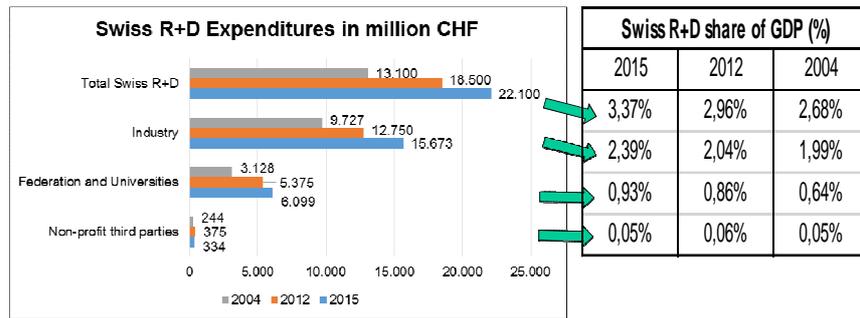
Robert Lüdi

Lüdi Consulting R&D, Langackerstrasse 6, 8132 Egg  
Tel./Fax. 044 984 50 63; [robert.luedi@bluewin.ch](mailto:robert.luedi@bluewin.ch)

Dec. 4, 2019

1

## Swiss R+D Expenditures

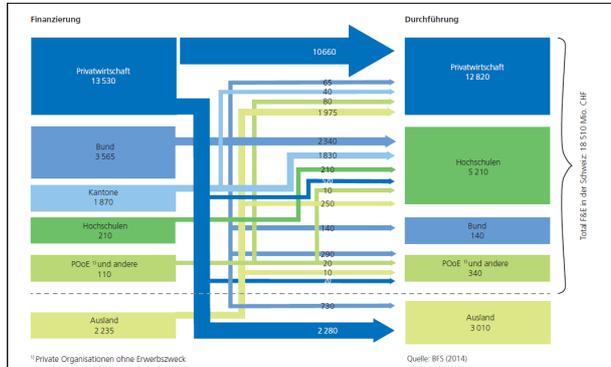


European Innovation Scoreboard 2019 (with 27 indicators):  
Result -- Rank 1 for Switzerland since 2007  
CH: 161 pts. / SE: 148 / EU: 108 / Korea: 147 / Japan 119 / US 106

Dec. 4, 2019

2

**Financial Flow (2014)**



**Result: Means remain mainly in the own domain**  
 Industry → Industry  
 Federation/Cantons → ETH/Universities/Inst.  
 Foundations (4.500) → Public non-profit Sector

Dec. 4, 2019

3

**Public R+D+Innovation Prog. Means 2020**

International R&D Initiatives	National R&D Initiatives
HORIZON 2020 (2014-2020) (~600 million CHF)	Innswisse (former CTI/KTI) (~255 million CHF)
EURATOM / ITER	SFOE Federal Office of Energy (44 million CHF)
EUROKA (incl. EUROSTARS) (~10 million CHF)	SAFU/FOEN Federal Office for the Environment (19 million CHF)
COST (8 million CHF)	SNSF Swiss National Science (1,006 million CHF)
ESA European Space Agency (190 million CHF)	BRIDGE (21 million CHF, 26 in 2020)
International R&D Organizations (~100 million CHF)	SHK/CSHE Swiss University Conference Inter-university Research (69 million CHF)
ERA-NETs (NA, some means by HORIZON 2020 credit)	Resort Research by various Federal Offices (238 million CHF) <sup>1)</sup>
Article 185 Initiatives (EUROSTARS, AAL, EDCTP, EMPIR) (~20 million CHF)	Foundations/Funds – 4,500 (private, ~65 million CHF)
Article 187 Initiatives / Joint Technology Initiatives (JTI) (HORIZON 2020 credit)	
Other International Programs	Other national Programs
ETC / INTERREG (Fed. & Cantons ~12 million CHF)	Seco State Secretariat for Economic Affairs – New Regional Policy NRP (90 million CHF)
	Impulse Program Tourism (65 million CHF)

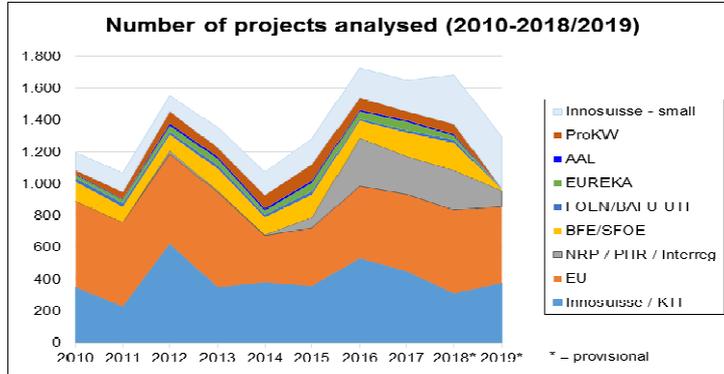
( ) = annual public means for Swiss partners 2020; partly there are overlaps (HORIZON credit partly also for ERA-NETS, JPI, PPP/JTI; ETZ / INTERREG partly from seco-NRP)  
<sup>1)</sup> = thereof ~40 Mio. CHF for third parties

**Relevant Programs for the Industry**

- 18 umbrella programs with ca. 150 subprograms, all with different participation rules
- without ca. 30-40 internal university programs

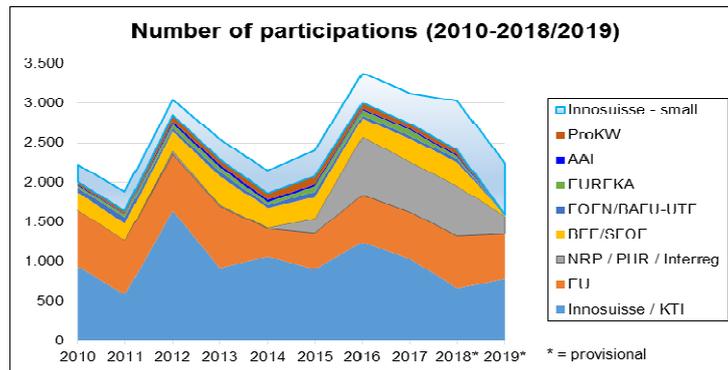
Dec. 4, 2019

**Industry relevant programs  
Projects analysed**



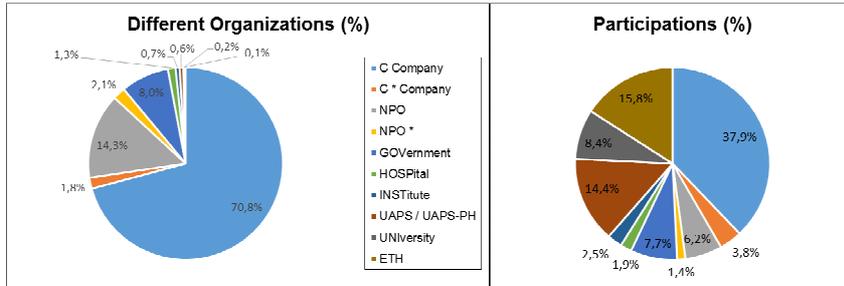
Missing: - NRP of seco pre-2016 (ca. 300 projects p.a.)  
 - Basic research programs (SNSF, Cost, Ressorts – 3.500 projects p.a.)

**Industry relevant programs  
Swiss Participations analysed**



Results (w/o the small Innosuisse projects < 25.000 CHF):  
 - 2.500 - 3.000 Swiss participations p.a. / average 1,75 per project  
 - Ca. 5.500 different legal participants, thereof 4.000 companies

**Industry relevant programs**  
**Distribution of users**



5.500 different organizations (w/o ca. 1.330 Innosuisse-small org.)      22.450 participations (w/o 3.530 Innosuisse-small participations)

**Four main Financing Models**

- Indirect financing – Innosuisse, EUREKA
  - just defined R+D partners are financed (100%)
  - No public financing for application partners (0%) plus up to 10% cash contribution to R+D partners
- Direct financing for all partners – EU HORIZON 2020 70/100% of eligible costs, Eurostars 50%
- R+D lump sums – EU H2020 SME-2, SME-1, MC
- Public project contribution 20-50%, distribution of means between partners is open - BFE/SFOE & BAFU/ FOEN & NRP

- National programs around 50% - Innosuisse, NRP, Ressorts, SNSF, partly higher 75% BAFU/FOEN-UTF
  - Usually open application processes, no calls, limited competition
- International Programs – HORIZON 15% (range 5-25%)
  - Calls for proposals, partly with several cut-off dates, fierce European competition, partly pre-defined topics

- 70% (8 industry-relevant programs) – 82% (all programs) of the public means go to public user, just 18-30% go to private users, incl. NPO
- Big industry dramatically reduced engagement in all programs (EU and Innosuisse since 2015) – Reasons?
- Start-ups / spin-offs, incl. former ones, are the most important user group (Innosuisse 30-35%, EU 15% of industry participants / multiple program users / very favourable treatment far beyond 5-years period)

**Biggest Federal tax payers finance partners paying no or low taxes**

- Industrial users remain low – ca. 1,5% of companies
  - Long-term users are an exclusive community
- Obvious trend to small consortiums (2 partners) and individual grants
- New Innosuisse: dramatic decrease of projects >25.000 (310-380 p.a.) & participations since 2017 / compensated now by ca. 300 innovation cheques p.a.
- EU: Regional unbalance in favour of Zürich and Lake of Geneva Region (both are ETH sites)
- 6% of the companies have been liquidated / 11% renamed / 2-4% inactive

- Uncertain Swiss role in Horizon Europe (2021-2027) – full or partial association, third or no country status
- Development of the reorganized Innosuisse, now in charge of national and some international activities (Eurostars, AAL etc.) / Risks: excl. start-up program, internal projects between institute and own start-up
- BFI Botschaft / ERI Memorandum 2021-2024
- Adaption of financing models at national level (Innosuisse)
- Current Start-up preference versus disadvantaged established companies – good-bad companies

Consulting Support Programs

- Search for participation possibilities
- Localisation of international partners
- Support in the application and contracting phase (basically international programs)

-----

- *No proposal writer but parts of application / no administrative coordinator*

Standard Products

- F+E-Leitfaden / R+D guide (15. edition)
- F+E-Kennzahlen Schweizer Universitäten, Mai 2017
- Public R+D-Institutes CH and border regions (2.020 & 500 / 13. edition, June 2018)
- R+D participation lists (EU – incl. means, BFE, seco, Innosuisse etc.)
- Participation analyses (Cantons, Regions, Branches)