



Science and Technology

Korea & Switzerland


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Confederazione Svizzera
Confederaziun svizra
Embassy of Switzerland in the Republic of Korea

Pusan National University EU Center


Christian Schneider
Science and Technology Office, Embassy of Switzerland

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Event Name – 29 October 2013

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Part 1 – Education, Research, Innovation

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STO - Mission and Goals

- ✧ Linking Swiss and Korean universities, research institutes, companies and start-ups
- ✧ Promoting Swiss excellence in science, technology and education
- ✧ Creation of networks, partnerships and collaborations
- ✧ Provide inside-knowledge on Korea's science, technology and education



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Science and Technology Counsellors & Swissnex



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Science and Technology Counsellors & Swissnex

Switzerland's international ERI Network

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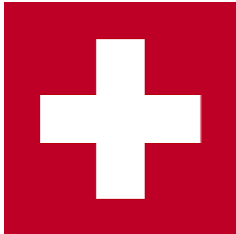

Bilateral Collaboration

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Bilateral Collaboration


- Korea is one of 7 priority countries for Science & Technology of Switzerland
- Since 2008: Bilateral Agreement on cooperation in Science & Technology

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Bilateral Collaboration

- Over 49 bilateral scientific projects funded
- Korean-Swiss Science Days taking place consecutively in Switzerland and Korea
- Over 30 agreements between universities
- 5 Alumni Chapter (ETHZ, EPFL, Uni St. Gallen, IMD, EHL) in Korea

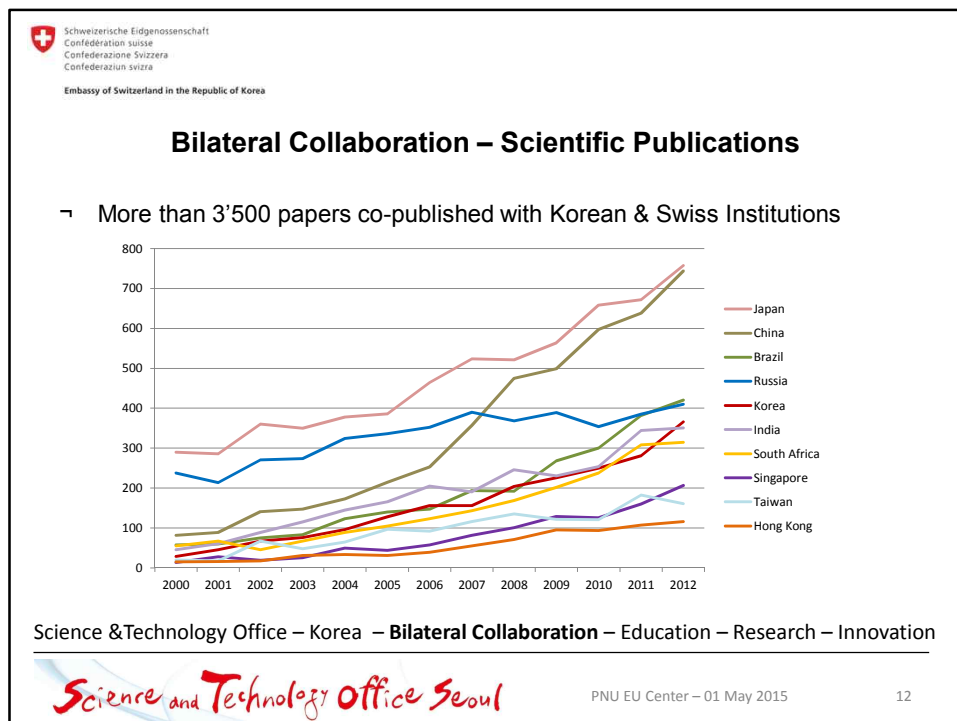
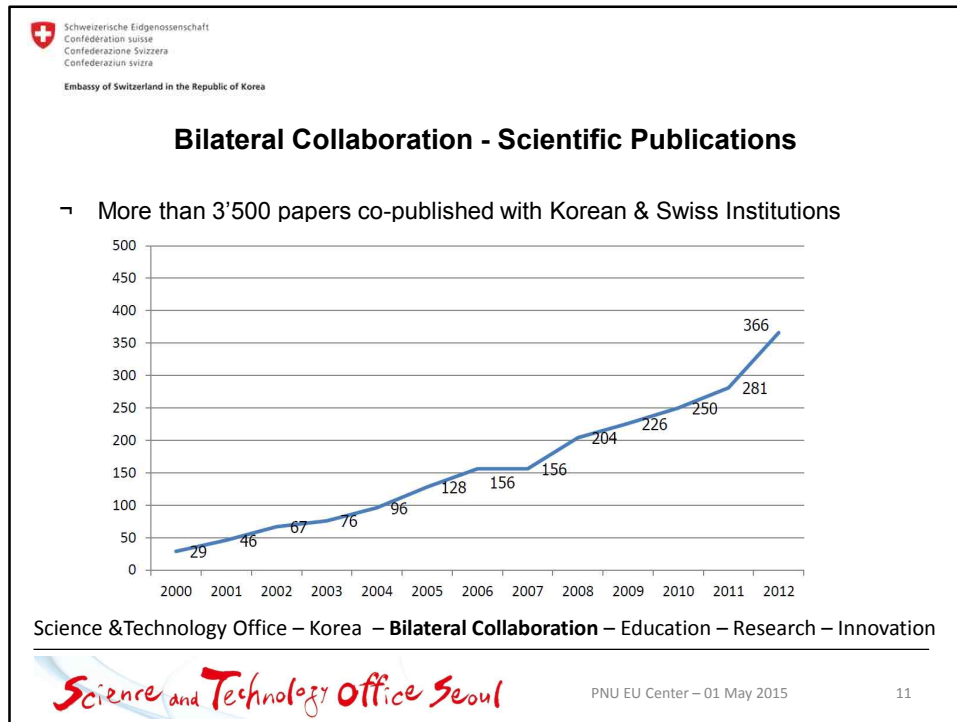


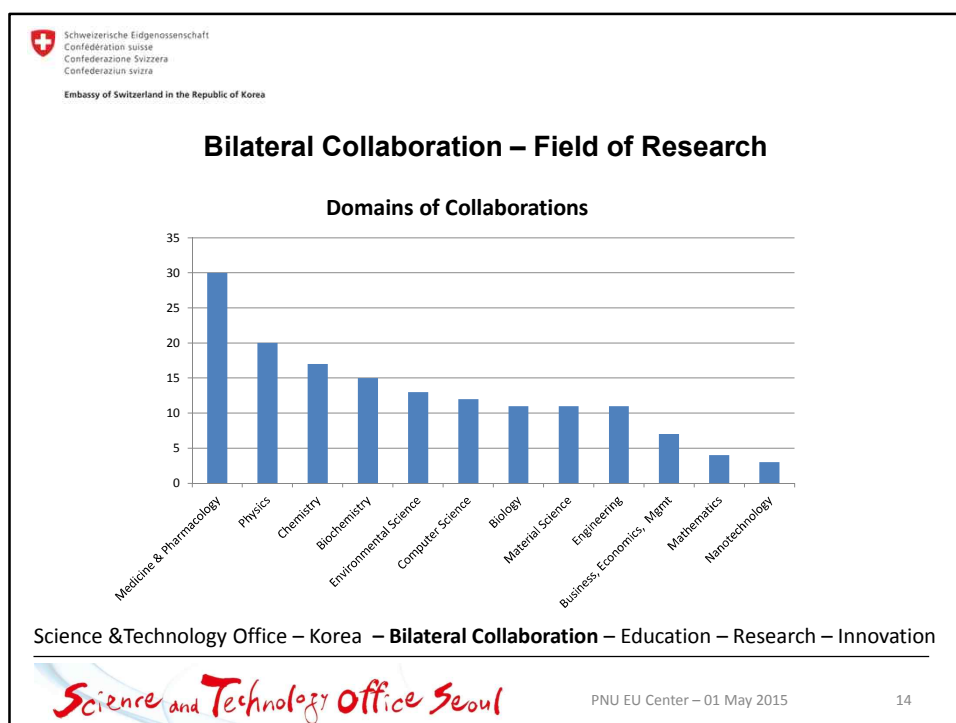
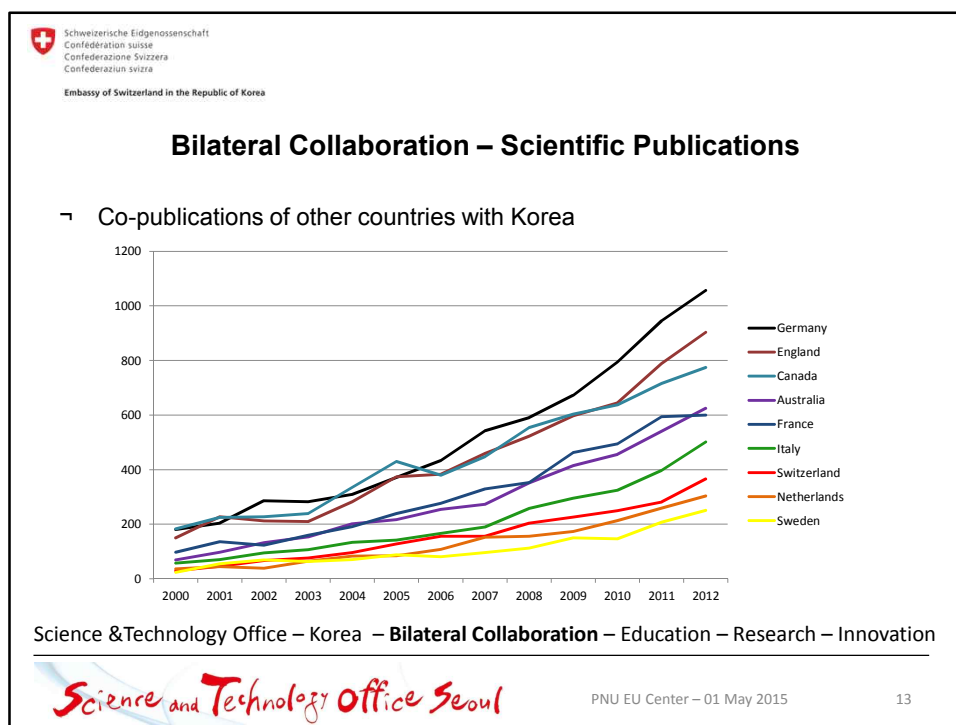
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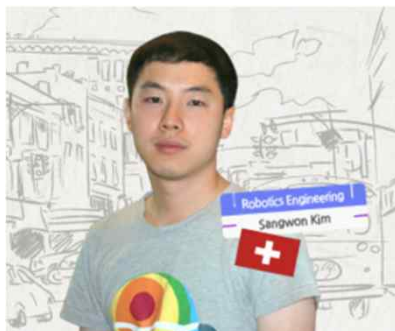
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Bilateral Collaboration – Students & Researchers



- Around 150 Korean scientists work at Swiss universities
- Around 250 Korean students study in Switzerland
- About 100 Swiss students study in Korea

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Education

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Education

- Education and knowledge is Switzerland's most precious resource
- Skilled workforce is essential for Switzerland's appeal as a location for business

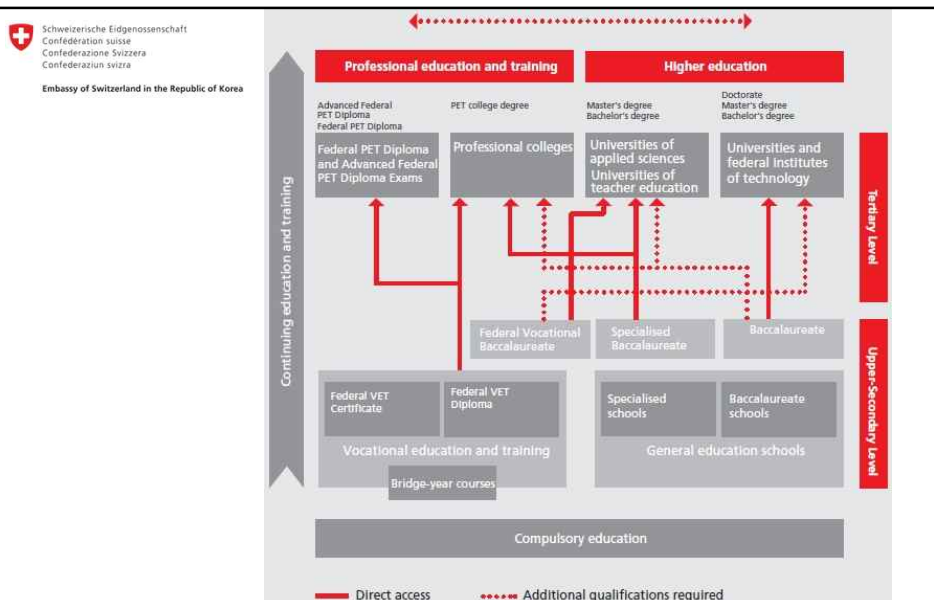


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Vocational & Professional Education and Training



- Enables young people to enter the labour market
- Ensures that there are enough qualified workers and managers in the future
- VET and PET sectors are closely correlated with the labour market and are an integral part of the education system
- Provides two-thirds of young people in Switzerland with a solid foundation in a given occupation
- Dual-track variety (i.e. part-time classroom instruction at a VET school combined with a part-time apprenticeship at a host company).

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Universities of Applied Sciences

- **8 Universities of Applied Sciences**

n|w University of Applied Sciences and Arts
Northwestern Switzerland

B Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences

FHO
Fachhochschule Ostschweiz

Kalaidos University
of Applied Sciences
Switzerland

ZÜRCHER FACHHOCHSCHULE

Lucerne University of
Applied Sciences and Arts

HOCHSCHULE
LUZERN

Hes-so

Haute Ecole Spécialisée
de Suisse occidentale
Fachhochschule Westschweiz
University of Applied Sciences
Western Switzerland

Scuola universitaria professionale
della Svizzera italiana

SUPSI

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Higher Education

10 cantonal Universities

2 Federal Institutes of Technology

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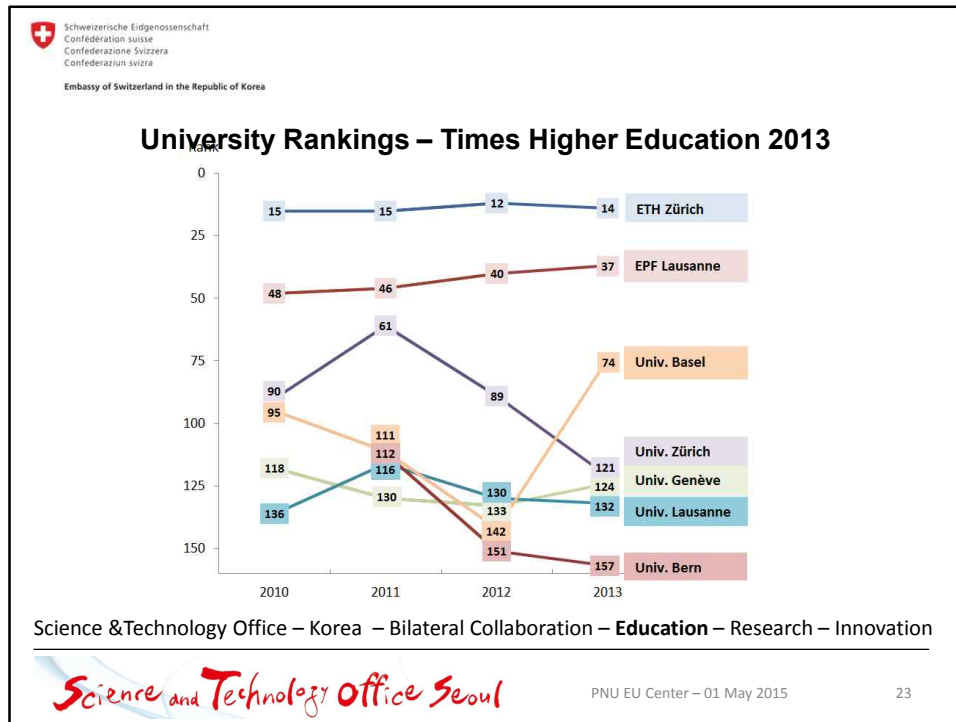
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Higher Education Landscape

Institution	Students	Professors
Univ. Basel	12 600	260
Univ. St. Gallen	7 600	80
Univ. Zürich	26 200	526
ETH Zürich	16 700	428
Univ. Lucerne	2 600	57
Univ. della Svizzera italiana	2 900	69
Univ. Lausanne	12 200	454
EPF Lausanne	8 700	290
Univ. Geneva	15 400	486
Univ. Fribourg	9 900	221
Univ. Bern	14 900	374
Univ. Neuchâtel	4 400	112

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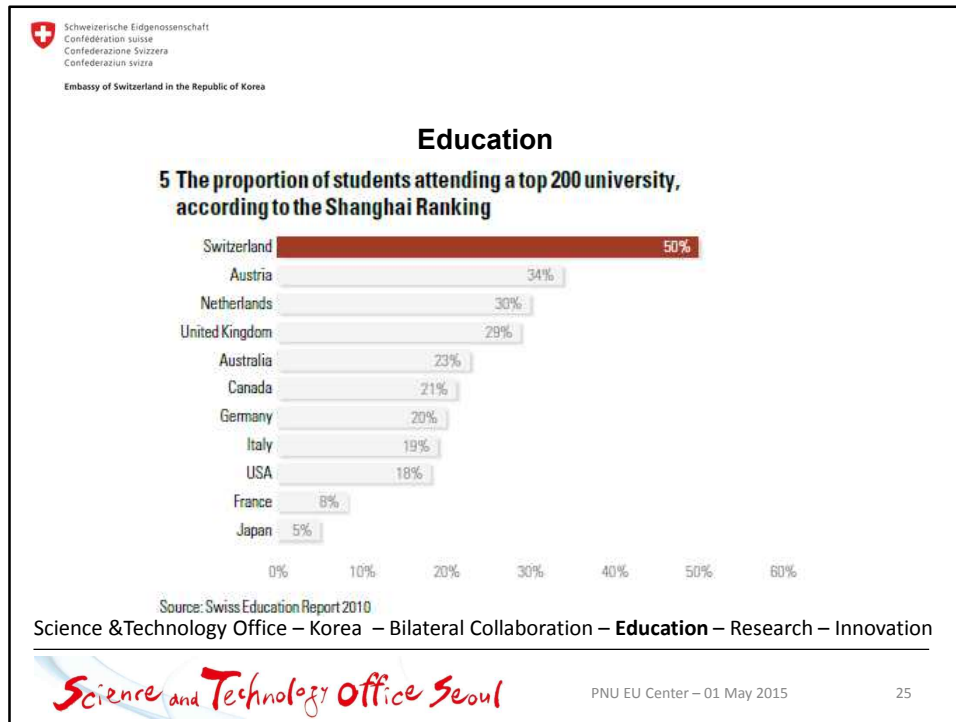
University Rankings

Times Higher University Ranking 2013 - top 200

Rank	Korean and Swiss Universities in The top 200
14	Swiss Federal Institute of Technology Zürich (ETHZ)
37	Swiss Federal Institute of Technology Lausanne (EPFL)
44	Seoul National University
56	Korea Advanced Institute of Science and Technology (KAIST)
60	Pohang University of Science and Technology (Postech)
74	University of Basel
121	University of Zürich
124	University of Geneva
132	University of Lausanne
157	University of Bern
190	Yonsei University

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Education – Personal Example

Christian Schneider (형, 32)



Secondary school
University of St. Gallen


Timon Schneider (동생, 25)



Apprenticeship in mechatronics
University of Applied Sciences
FHNW

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Reasons to study in Switzerland

- ▮ **Universities**
 - Highly renowned universities provide high quality education
 - Low tuition fee
 - World-leading research environment
 - Promising career opportunities
 - Switzerland needs foreign talents (especially in science & engineering)
- ▮ **Switzerland**
 - High standard of living
 - A multicultural society (over 20% of foreigners) with 4 national languages
 - Host of many international organisations
 - Beautiful landscape

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More Useful Information for Future Students

- ▮ www.studyinginswitzerland.ch
- ▮ www.studyprogrammes.ch
- ▮ www.ethboard.ch/ko
- ▮ [Swiss Government Excellence Scholarships](#)
- ▮ www.stofficeseoul.ch

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Research

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Research – Facts about Switzerland

- ▢ 25 Nobel Laureates with Swiss citizenship
- ▢ Highest number of Nobel Prizes per capita!
- ▢ 50% of university professors are from abroad
- ▢ Switzerland's expenditures on R&D constitute of 3% of GDP
- ▢ Swiss researchers produce 1.2% of all scientific papers published worldwide
- ▢ With 3.2 publications per 1000 inhabitants Switzerland is worldwide the leading country



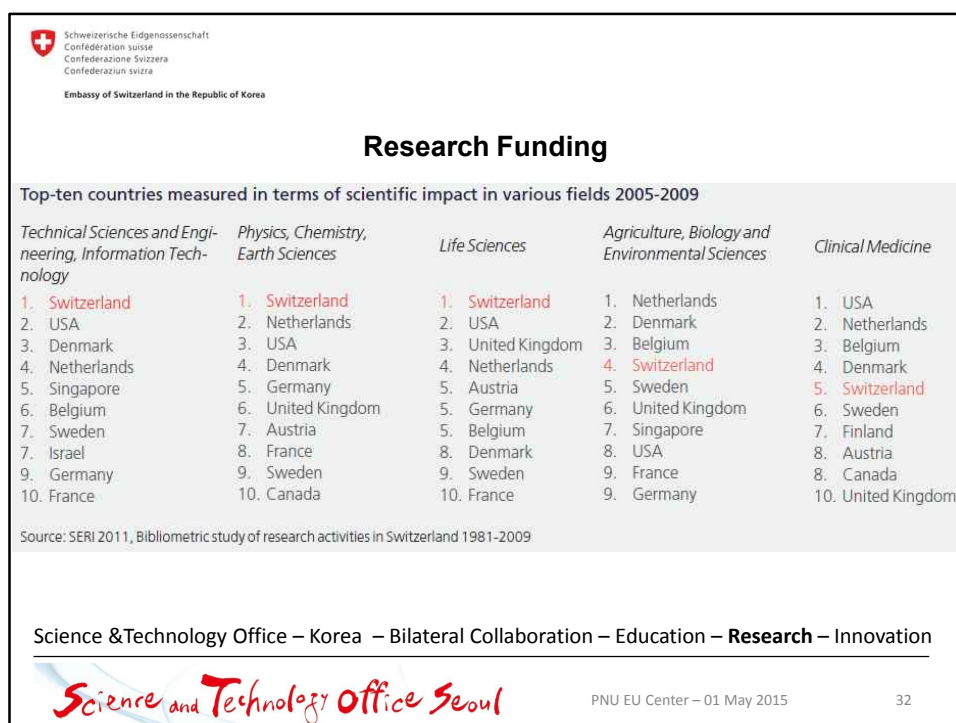
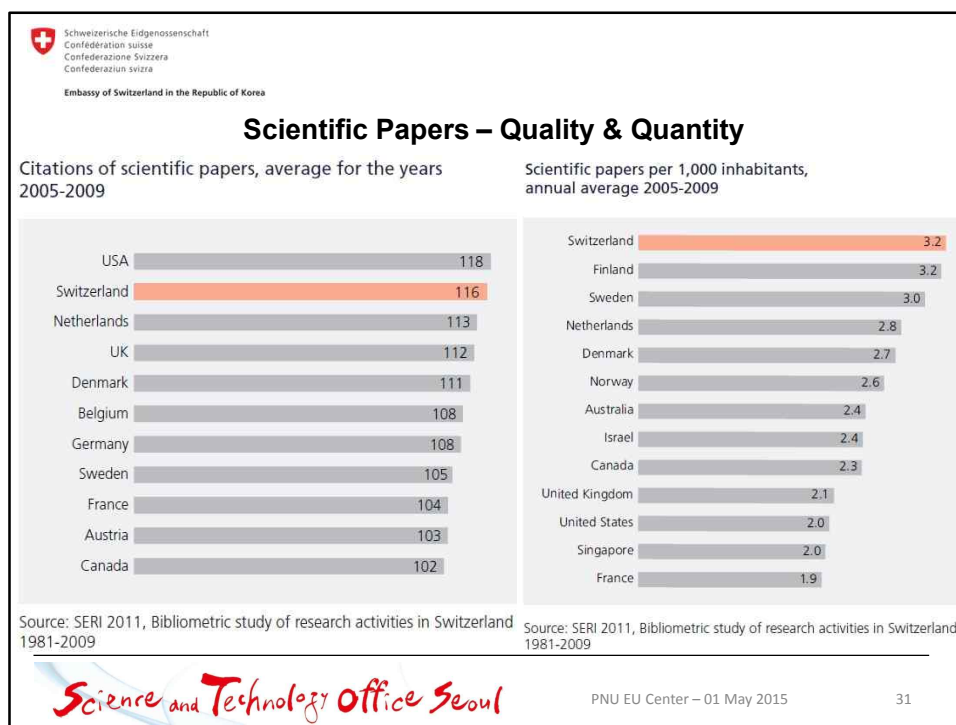
Gross Domestic Expenditure on Research and Development (GERD)	
24.17%	Higher Education sector
73.50%	Business sector
0.74%	Government sector
1.6%	Private Non-Profit sector

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EU Horizon 2020

- Switzerland is a partly associated Horizon 2020 member for 2014-2020
- Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years
- Researchers in Switzerland can take part in certain Horizon 2020 projects and submit project proposals

→ more in part 2 of presentation!

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Research Institutions



EMPA

Materials Science & Technology



csem

centre suisse d'électronique
et de microtechnique



PAUL SCHERRER INSTITUT

PSI




eawag

aquatic research



WSL



nano-tera.ch



FMI

Friedrich Miescher Institute
for Biomedical Research



SNi

SWISS
NANOSCIENCE
INSTITUTE

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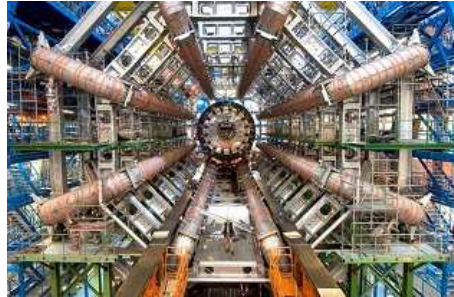


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Research at CERN

- ▮ European Organization for Nuclear Research
- ▮ Located on the Franco-Swiss border near Geneva
- ▮ One of Europe's first joint ventures, founded in 1954
- ▮ 20 European member states
- ▮ Many non-European countries are also involved in different ways
- ▮ Birthplace of the World Wide Web in 1989



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Leading Research Projects - Solar Impulse



- ▮ Long-range solar-powered aircraft
- ▮ first circumnavigation of Earth with an aircraft using only solar power
- ▮ Developed in partnership with EPFL and Schindler



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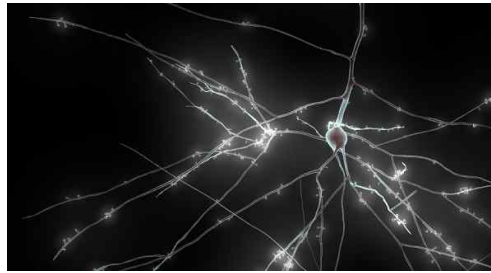
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Leading Research Projects – Human Brain Project

- ▢ Aims to simulate the complete human brain on supercomputers to understand it better
- ▢ Gain profound insights into what makes us human
- ▢ Develop new treatments for brain disease
- ▢ Build revolutionary new computing technologies



- ▢ Supported by the EU as a 'FET Flagship' project
- ▢ 242 Researchers
- ▢ 86 institutions across Europe
- ▢ One billion €uro in funding of EU over ten years

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Leading Research Projects - Cray XC30 supercomputer “Piz Daint”

- ▢ Theoretical peak performance 7787 Petaflops
- ▢ System storage capacity 2.5 PB
- ▢ Europe's most performing supercomputer
- ▢ Top 6 worldwide
- ▢ Most energy efficient in top 10



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Innovation

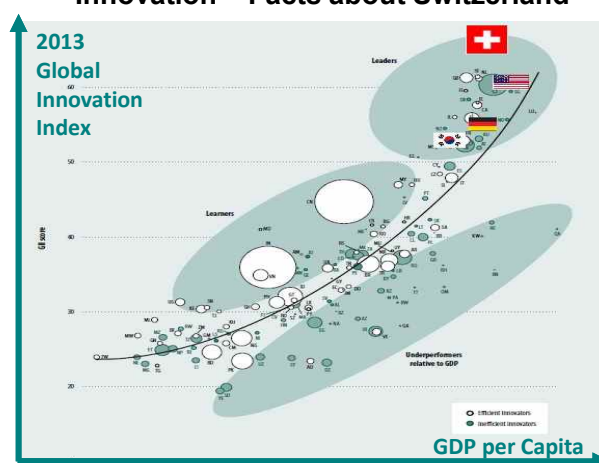
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Innovation – Facts about Switzerland

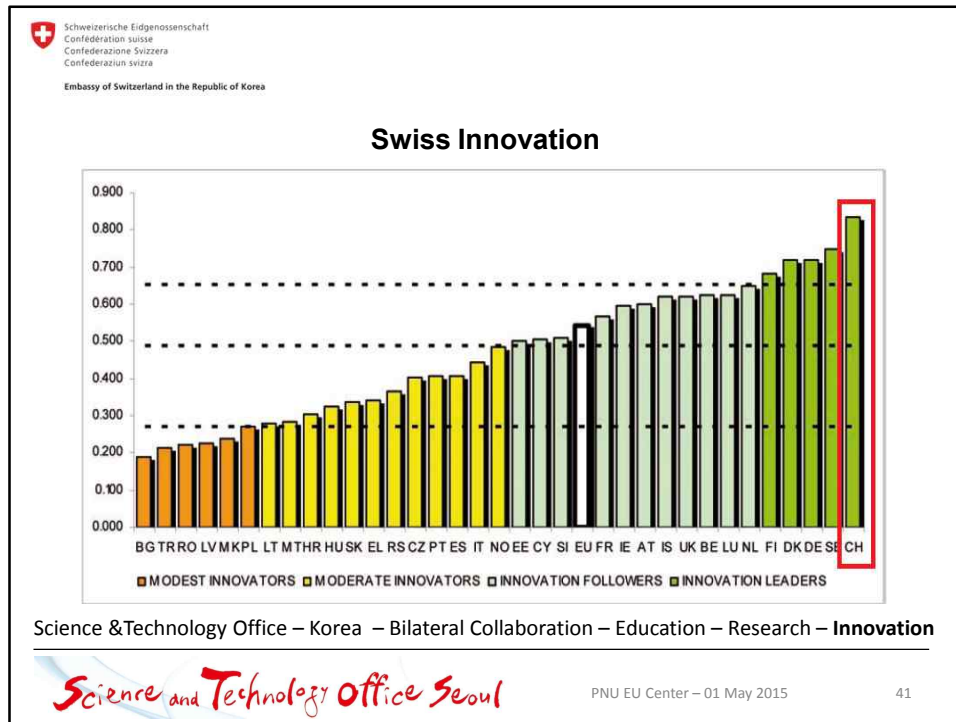


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Korean Products – Swiss Innovation inside

➤ Samsung Galaxy S4 with a Sensirion humidity and temperature sensor

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Korean Products – Swiss Innovation inside



- Müller Martini printers are used to print newspapers

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Korean Products – Swiss Innovation inside



- Incheon bridge uses expansion joints, anti-skid surface, high grade sliding material and a remote monitoring system made by the Swiss company Mageba

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Korean Products – Swiss Innovation inside



- ↳ LNG vessels of Hyundai Heavy industries use power and electric propulsion equipment supplied by ABB

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Korean Products – Swiss Innovation inside



- ↳ Robots of Güdel are used in the Hyundai car assembly lines

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Small and Medium Enterprises (SME)

- SME form the backbone of Swiss economy
- 66% of total workforce is employed by companies with less than 250 employees
- 73% of workforce employed by SMEs work for exporting companies
- 53% of the working hours spent on R&D are invested by companies with less than 500 employees

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Hidden Champions

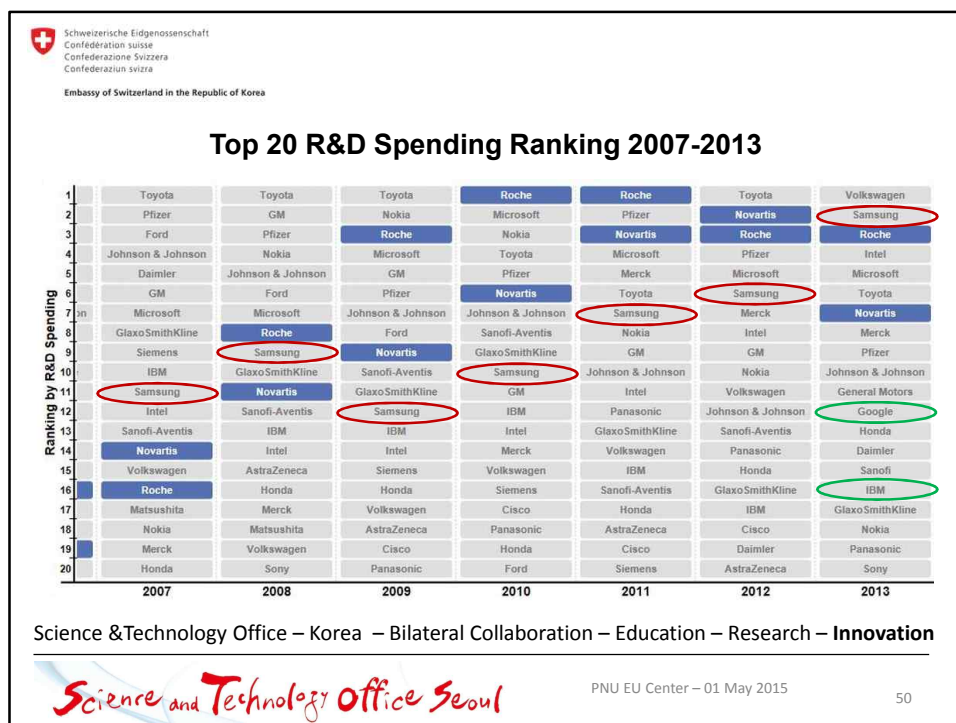
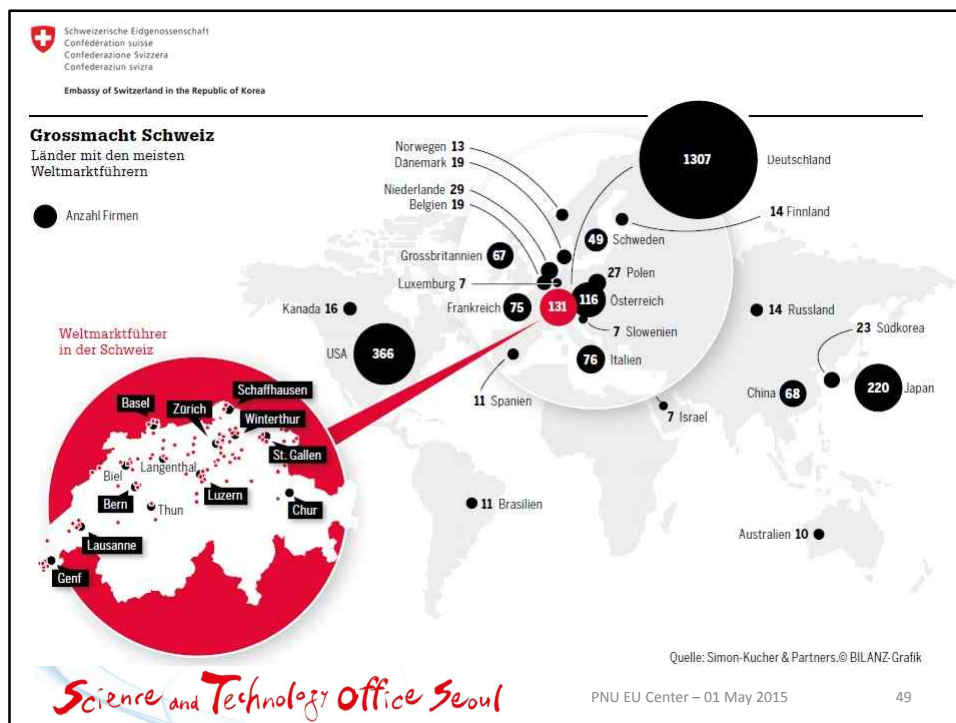
- Are **market leader** on their continent or globally in the top 3 in their field
- Are specialists that focus on their core-competences
- Are often unknown to the wide public
- Sell their products directly to their customers (no intermediaries)
- Their formula for success is focus and depth
- **Switzerland has 131 hidden champions**
- 16 hidden champions per 1 million habitants (same ratio with Germany, much more than USA and Japan)
- In Switzerland such Hidden Champions created **82'500 new jobs in the last decade**

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Patents

Triadic patents per million inhabitants, 2010

Country	Percentage
Switzerland	40.7%
Germany	16.0%
USA	12.6%
Korea	3.5%
Japan	2.1%

Source: OECD, Factbook 2013

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Big Conglomerates

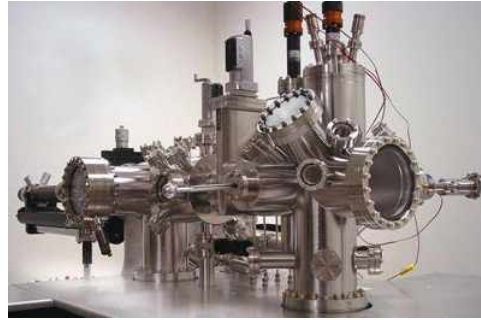
Many big conglomerates are based in Switzerland:

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Location for innovative Research Centers of Global Companies

- ▮ IBM Research Center Rüschlikon
- ▮ Birthplace of the scanning tunneling microscope



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Location for innovative Research Centers of Global Companies

- ▮ Google Zürich Research center
- ▮ Works on integrated flight simulator in Google Earth...
- ▮ ...Google maps and many other projects



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Location for innovative Research Centers of Global Companies

- Logitech founded 1981 in Apples
- Headquarters in Lausanne
- First computer mouse




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Part 2 – Switzerland and the EU

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Geography

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Switzerland – a European Country

Migration and integration – Data, indicators

Nationality

Foreign permanent resident population by nationality

At year-end, in thousands

	2009	2010	2011	2012	2013
Total	1714.0	1766.3	1816.0	1870.0	1937.4
EU-28/EFTA countries	1112.7	1135.0	1177.5	1223.4	1276.9
Germany	251.9	263.3	275.3	284.2	292.3
France	92.5	95.6	99.9	104.0	110.1
Italy	290.6	287.1	288.0	291.8	298.9
Austria	36.7	37.0	37.9	38.8	39.5
Portugal	206.0	212.6	223.7	237.9	253.2
Spain	65.0	64.1	65.8	69.4	75.3
Other European countries	367.1	369.1	368.3	368.4	369.9
Serbia and Montenegro	181.3
Serbia	...	121.9	109.3	98.7	90.7
Turkey	71.6	71.8	71.4	70.8	70.4
Africa	57.7	71.5	74.8	78.2	83.9
America	72.7	74.5	76.6	77.7	78.4
Asia	99.3	110.5	113.6	117.2	122.9
Oceania	4.0	4.0	4.1	4.1	4.1
Stateless, unknown nationality (or not stated)	0.6	0.8	1.1	1.1	1.2

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Export – Import Switzerland

Rang	Commercial partner	General total Mio. CHF	Share (%)
	Total	218,717.6	100.0
1	Germany	39,979.7	18.3
2	USA	28,367.2	13.0
3	France	15,798.1	7.2
4	Italy	14,447.5	6.6
5	United Kingdom	10,834.8	5.0
6	China	8,889.7	4.1
7	Hong Kong	8,119.0	3.7
8	Austria	7,468.8	3.4
9	Japan	6,350.9	2.9
10	Belgium	5,824.8	2.7
11	Spain	5,821.6	2.7
12	Netherlands	5,233.7	2.4
13	Emirates, Arab	3,429.0	1.6
14	Canada	3,328.2	1.5
15	Singapore	3,296.3	1.5
16	Russia	2,804.1	1.3
17	Korea (South)	2,680.8	1.2

Rang	Commercial partner	General total Mio. CHF	Share (%)
	Total	185,686.1	100.0
1	Germany	51,829.3	28.0
2	Italy	18,093.2	9.7
3	France	15,104.5	8.1
4	USA	12,217.1	6.6
5	China	12,174.1	6.6
6	Austria	8,753.2	4.7
7	Ireland	7,198.1	3.9
8	United Kingdom	6,820.6	3.7
9	Netherlands	5,576.6	3.0
10	Spain	4,602.1	2.5
11	Belgium	4,074.4	2.2
12	Japan	3,118.5	1.7
13	Hong Kong	2,403.0	1.3
14	Czech Republic	2,269.2	1.2
15	Poland	1,750.2	0.9
16	India	1,615.4	0.9
17	Singapore	1,340.5	0.7

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Cross Border Commuters (287,146)



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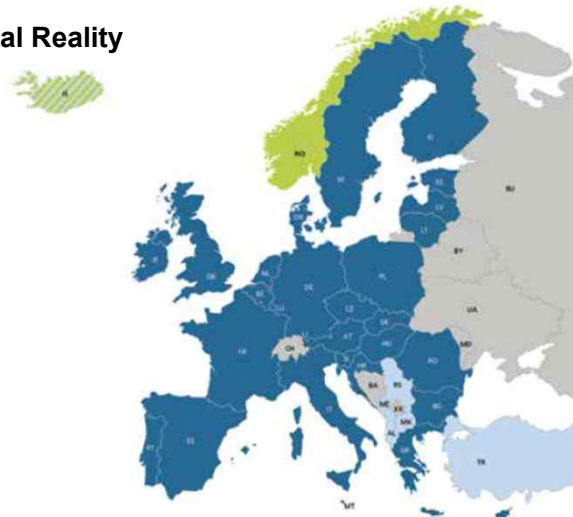
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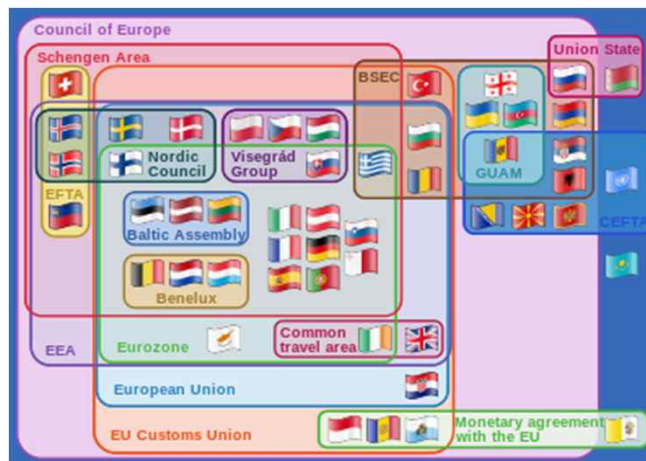
Cross Border Commuters (287,146)

State of residence	
Germany	58591
France	150410
Italy	68099
Austria	8244
other	1802
Professions exercised (ISCO)	
Managers	20153
Professionals	33464
Technicians and associate professionals	48288
Clerical support workers	29119
Service and sales workers	39542

Political Reality



Multinational European Organisations



Historical Overview

Year	Agreement	Comment
1960	Foundation of EFTA (European Free Trade Association)	CH Member + NO, ISL, LIE
1972	FTA with EEC (European Economic Community)	
1992	Application for EC Membership	
1992	“No” to EEA (European Economic Area)	50.3% against
1993	“Bilateral path”	Sector-based agreements
1999	Bilateral Agreements 1	67.2% agree, Free movement of persons, technical barriers to trade, transport, research
2004	Bilateral Agreements 2	Security, asylum, environment, culture
2005	“Yes” to Schengen/Dublin and Extension of Free Movement of People to EU-10	55%
2014	“Yes” to popular initiative “Against Mass Immigration”	50.3%

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Current Situation – EU 2020 Research

Switzerland's participation 2014–2016

Excellent Science (EUR 24.4bn)	Industrial Leadership (EUR 17bn)	Societal Challenges (EUR 29.7bn)
European Research Council EUR 13.1bn	LEIT = Leadership in enabling and industrial technologies	Health EUR 7.5bn
Future and Emerging Technologies EUR 2.7bn	• ICT	Food EUR 3.9bn
Marie-Sklodowska-Curie Actions EUR 6.1bn	• Nano, new materials	Energy EUR 6bn
Research Infrastructures EUR 2.5bn	• Biotechnology	Transport EUR 6.3bn
	• manufacturing and processing	Climate EUR 3bn
	• Space	Inclusive Societies EUR 1.3bn
	EUR 13.5bn	Security EUR 1.7bn
	Access to Risk Finance EUR 2.9bn	
	Innovation in SMEs EUR 0.6bn	
	Spreading Excellence (EUR 0.8bn)	
	Science for Society (EUR 0.5bn)	
European Institute of Innovation and Technology (EIT) EUR 2.7bn	Joint Research Centre (JRC) EUR 1.9bn	Euratom EUR 1.6bn

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EU Membership Pro & Con

PRO	CONTRA
Legal issues (Clear & constant relationship with neighboring countries, dispute settlement)	Less independence
Part of the European family	Questions about direct democracy
Closer collaboration in research, education, culture etc	Regulations?
Stronger voice for Switzerland & more power	Neutrality?
Safer Switzerland (collaboration in defence)	Cost
Economic policy (less trade barriers)	Economic policy (EURO, VAT)

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Confederaziun svizra
Embassy of Switzerland in the Republic of Korea

Contact

Science & Technology Office Seoul
Embassy of Switzerland

seo.science@eda.admin.ch

www.eda.admin.ch/seoul

www.stofficeseoul.ch

@Swiss_STO_Seoul

Science and Technology Office Seoul

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