

Monitoring table on the strategic objectives by the Federal Council

Fig. 3: Monitoring table on the strategic objectives set by the Federal Council for the ETH Domain for 2017–2020

Indicators	Reference values			Monitoring			
	2008	2013	2016	2017	2018	2019	2020
TEACHING							
Students and doctoral students ETH Zurich and EPFL (headcount)							
New admissions							
At Bachelor's level	4,052	5,255	5,531	4,756	4,827	4,966	5,245
Students	16,233	22,099	24,217	25,059	26,140	27,275	28,637
Proportion of women (%)	29.3	29.1	29.7	30.6	31.2	31.5	31.7
Proportion of foreign nationals (%)	27.3	35.5	37.4	38.4	39.3	40.7	40.7
At Bachelor's level	10,138	13,995	14,727	14,385	14,792	15,243	15,983
Proportion of women (%)	28.8	28.6	30.0	30.6	31.6	31.9	32.0
Proportion of foreign nationals (%)	23.8	30.9	31.6	29.4	30.4	31.9	32.6
At Master's level	4,649	7,241	8,662	8,895	9,517	10,163	11,143
Proportion of women (%)	28.0	29.4	28.5	29.4	29.6	29.8	30.3
Proportion of foreign nationals (%)	34.4	43.1	46.1	45.4	46.3	47.6	48.4
At Diploma level	751	0	0	0	0	0	0
On MAS/MBA programmes	695	863	828	840	827	809	816
Proportion of women (%)	34.2	34.6	37.9	38.8	40.6	40.3	42.6
Proportion of foreign nationals (%)	48.1	45.7	50.2	51.5	50.1	46.7	47.7
Visiting students ¹	–	–	–	939	1,004	1,060	695
Proportion of women (%)	–	–	–	35.5	32.9	34.9	33.7
Proportion of foreign nationals (%)	–	–	–	96.5	96.6	96.0	95.0
Supervision ratio							
Bachelor's and Master's students per professor	25.1	27.7	29.2	28.3	29.7	30.6	31.7
Doctoral students	4,823	5,947	6,134	6,234	6,391	6,367	6,598
Proportion of women (%)	28.6	30.4	31.0	30.8	31.4	32.8	33.6
Proportion of foreign nationals (%)	62.7	72.6	74.3	75.0	76.3	76.9	78.1
Supervision ratio							
Doctoral students per professor	7.8	7.7	7.7	7.6	7.8	7.7	7.7
Students and doctoral students	21,056	28,046	30,351	31,293	32,531	33,642	35,235
Proportion of women (%)	29.1	29.4	30.0	30.6	31.3	31.7	32.0
Proportion of foreign nationals (%)	35.4	43.3	44.9	45.7	46.6	47.5	47.7
Supervision ratio							
Students and doctoral students per professor	34.0	36.5	37.9	38.0	39.8	40.5	41.2
Degrees							
Bachelor	1,656	2,249	2,500	2,602	2,686	2,876	3,007
Diploma, Master	1,978	2,663	2,989	3,065	3,240	3,368	3,344
MAS/MBA	336	346	303	394	343	324	249
Doctorate	832	993	1,256	1,258	1,209	1,290	1,171
Teaching and supervision by the research institutes							
Teaching hours	15,569	15,670	18,023	17,992	18,659	18,717	18,553
Bachelor's, Master's and Diploma projects	391	532	575	602	623	639	608
Doctoral students	700	797	783	807	854	837	842
Proportion of women (%)	36.1	36.3	39.8	39.0	38.4	38.2	39.9
Proportion enrolled in the ETH Domain (%)	66.1	67.9	67.4	67.7	68.6	67.9	70.3
Proportion enrolled at a foreign university (%)	17.3	13.4	11.7	10.3	8.8	9.8	9.1

Indicators	Reference values			Monitoring			
	2008	2013	2016	2017	2018	2019	2020
RESEARCH							
Publications²	–	–	–	–	–	–	–
Research contributions, mandates and scientific services (in CHF millions)	–	–	772.7	743.2	755.2	779.1	774.1
of which Swiss National Science Foundation (SNSF)	141.6	209.0	257.4	260.3	254.7	259.7	262.6
of which Innosuisse	26.1	36.8	50.6	62.6	55.5	49.3	50.6
of which EU Framework Programmes for Research and Innovation (EU FPs)	97.7	135.2	142.1	139.2	141.8	151.6	146.4
KNOWLEDGE AND TECHNOLOGY TRANSFER (KTT)							
Invention disclosures ³	–	–	–	343	358	329	310
Software notifications ³	–	–	–	26	36	40	32
Patents	125	193	230	206	230	224	217
Licences	178	223	353	377	341	324	338
Spin-offs	46	43	50	48	55	59	66
STAFF (FTE)							
Professors	619.4	767.7	800.8	823.8	818.3	830.5	854.6
Proportion of women (%)	10.7	12.4	13.9	14.8	15.4	17.2	18.6
Proportion of foreign nationals (%)	61.8	67.1	68.0	67.2	67.3	66.8	67.3
Scientific staff	7,956.5	9,927.3	11,053.9	11,204.4	11,542.3	11,608.0	11,994.6
Technical staff	2,957.6	3,157.3	3,355.1	3,439.8	3,494.0	3,591.8	3,676.3
Administrative staff	1,771.2	2,279.0	2,577.8	2,690.0	2,804.7	2,952.3	3,118.9
Apprentices	386.0	435.0	463.7	473.6	461.1	457.6	472.6
FINANCES/REAL ESTATE							
Total federal contribution (expenditure ceiling perspective) (in CHF millions)	1,949.4	2,271.4	2,453.8	2,530.8	2,530.9	2,581.2	2,596.1
of which federal financial contribution	1,778.4	2,073.9	2,288.7	2,377.9	2,356.7	2,372.6	2,355.1
of which investment credit for construction in the ETH Domain ⁴	170.9	197.5	165.1	152.9	174.2	208.6	241.0

¹ Mobility students have constituted a separate student category since 2017.

² Publishing activity is assessed every four years as part of the intermediate evaluation.

³ Additional KTT indicators introduced in 2017

⁴ The values for 2018, 2019 and 2020 deviate from the State financial statement (see side note p. 104).

Indicators and counting methods for the monitoring table and the academic achievement report

If not specified in more detail, the term “students” is always understood to mean students at Bachelor’s and Master’s levels, students on Master of Advanced Studies and Master of Business Administration (MAS/MBA) continuing education programmes, and mobility students (students who are studying at one of the Federal Institutes of Technology for one or two semesters but are registered at another university). Doctoral students are defined as a separate category. In cases of simultaneous enrolment on several disciplines or academic levels, the prioritised discipline or level is counted.

Students and doctoral students are included in “headcount”. Foreign students and doctoral students form two sub-categories: foreign-educated foreign nationals who were resident abroad while obtaining the relevant necessary qualifications, and Swiss-educated foreign nationals who were resident in Switzerland while obtaining the re-

levant necessary qualifications. The employment level of all staff is counted in terms of full-time equivalents (FTE). Professors – both full and associate, as well as assistant professors, including those recipients of the Swiss National Science Foundation (SNSF) Eccellenza professorial fellowship – who are employed at one of the two Federal Institutes of Technology are taken into account in calculating the supervision ratio. Senior scientists and *Maîtres d’enseignement et de recherche* (MER) from both Federal Institutes of Technology correspond to the academic staff in management roles or senior management staff. Some of them are adjunct professors. To determine the “expanded” supervision ratio, the Senior Scientists and MER of both Federal Institutes of Technology are added to the professors. The teaching hours delivered by the research institutes do not include preparation time, only the time spent in the presence of students.