

GKI RANK

2 / 132

GKI
SCORE

68.3

WORLD
AVERAGE

46.5

COUNTRY PERFORMANCE SUMMARY

Switzerland is a leading performer in terms of its knowledge infrastructure. It ranks 2nd out of 132 countries in the Global Knowledge Index 2022 and 2nd out of the 60 countries with very high human development.

AREAS OF STRENGTH

- + Fixed-broadband subscriptions by speed per hundred people
- + Quality of vocational training
- + Government effectiveness
- + State of cluster development
- + Extent of staff training

AREAS OF IMPROVEMENT

- Foreign direct investment, net inflows (% GDP)
- Participation rate in formal and non-formal education and training
- Ratio of high-skill TVET occupations earnings to average wage
- Building quality control
- Tertiary graduates from ICT programmes (%)

SWITZERLAND








KEY INDICATORS

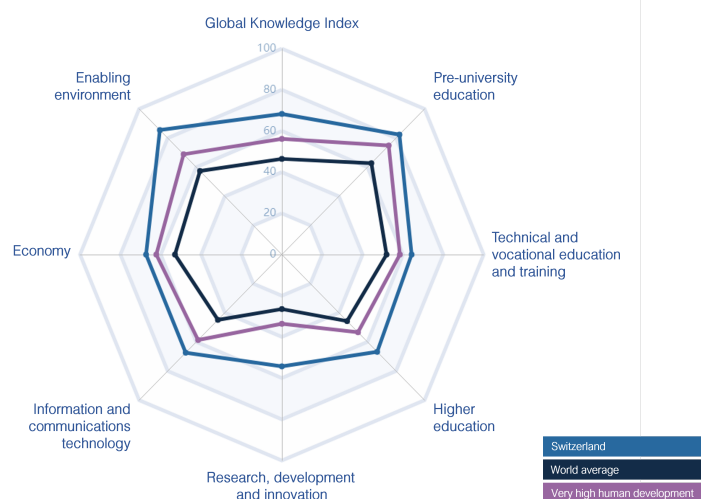
GDP (US\$ billions): 615.735

Population: 8,691,407

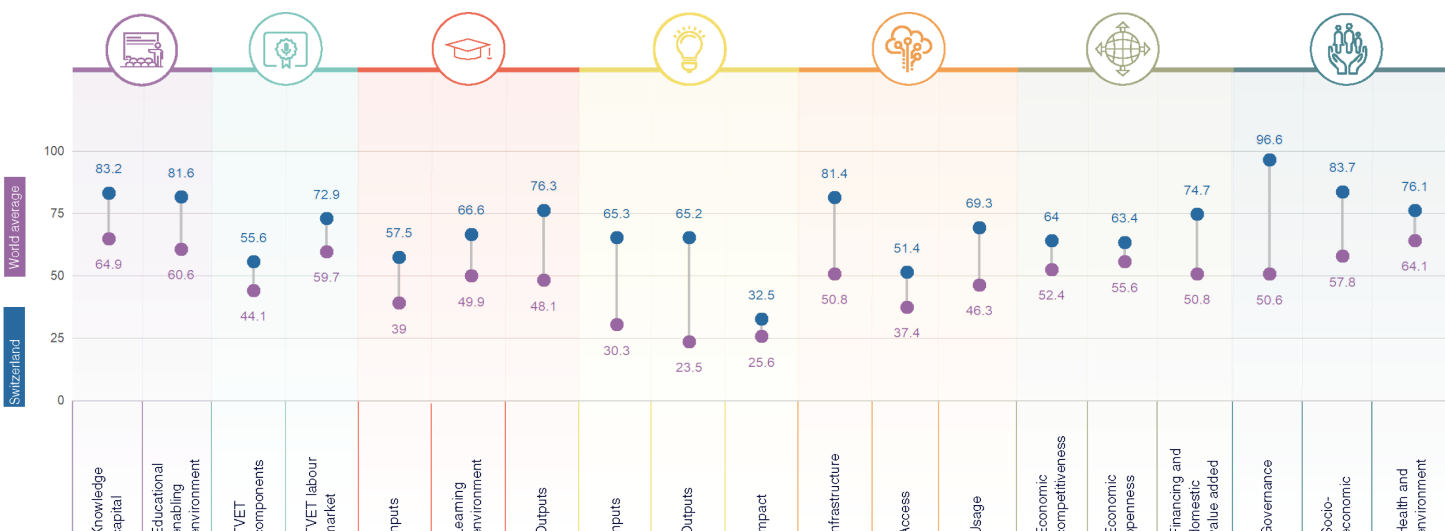
HDI: 0.962

SECTORAL INDICES

	RANK	VALUE
 PRE-UNIVERSITY EDUCATION	9	82.4
 TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	16	64.3
 HIGHER EDUCATION	1	66.8
 RESEARCH, DEVELOPMENT AND INNOVATION	1	54.3
 INFORMATION AND COMMUNICATIONS TECHNOLOGY	13	67.4
 ECONOMY	13	67.3
 ENABLING ENVIRONMENT	5	85.5



GKI PILLARS





SWITZERLAND

		Rank	Value			Rank	Value
PRE-UNIVERSITY EDUCATION				HIGHER EDUCATION			
Knowledge capital		26	83.2	Inputs		7	57.5
Enrolment		47	92.4	Expenditure		5	53.06
Net enrolment rate in primary education		8	99.74	Government expenditure per tertiary student		3	56.1
Net enrolment rate in lower secondary education		21	99.34	Teaching staff compensation (% tertiary expenditure)		31	50.02
Net enrolment rate in upper secondary education		70	78.13	Enrolment		26	48.33
Completion		40	79.49	Enrolment in bachelor's or equivalent level (%)		29	36.33
Years of compulsory education in primary and secondary		62	69.23	Enrolment in master's, doctoral or equivalent (%)		22	60.33
Completion rate in upper secondary education		9	95.34	Resources		39	71.17
Gross intake ratio to the last grade of lower secondary education		43	73.88	Pupil-teacher ratio in tertiary education		10	92.95
Outcomes		21	77.71	Researchers in higher education (%)		51	49.39
Assessment of 15-year-old students in math, science and reading		18	73.78	Learning environment		23	66.6
Learning-adjusted years of schooling		23	81.64	Diversity and academic freedom		24	66.63
Educational enabling environment		4	81.6	Teachers in tertiary education, gender parity		75	55.8
Expenditure		37	38.86	Inbound mobility rate		11	48.3
Government expenditure on primary education (% GDP)		55	34.82	Academic freedom		6	95.8
Government expenditure on secondary education (% GDP)		45	33.93	Equity and inclusiveness		n/a	n/a
Government funding per primary student (% GDP per capita)		10	47.43	Gross attendance ratio for tertiary education, gender parity		n/a	n/a
Government funding per secondary student (% GDP per capita)		37	39.27	Gross attendance ratio for tertiary education, wealth parity		n/a	n/a
Resources		1	100	Gross attendance ratio for tertiary education, location parity		n/a	n/a
Pupil-trained teacher ratio in primary education		n/a	n/a	Outputs		1	76.3
Pupil-trained teacher ratio in secondary education		n/a	n/a	Attainment		1	88.17
Schools with access to computers in primary education (%)		1	100	Educational attainment rate, bachelor's or equivalent		n/a	n/a
Schools with access to computers in secondary education (%)		1	100	Educational attainment rate, master's or equivalent		5	76.35
Early learning		7	90.51	Educational attainment rate, doctoral or equivalent		1	100
Gross enrolment ratio in early childhood education		5	90.51	Employment		21	84.78
Proportion of children who are developmentally on track		n/a	n/a	Labour force participation rate with advanced education		36	79.66
Proportion of children with stimulating home learning environments		n/a	n/a	Unemployment rate with advanced education		32	89.9
Pupil-trained teacher ratio in pre-primary education		n/a	n/a	Impact		9	56.03
Equity and inclusiveness		7	97.14	University-industry collaboration in R&D		3	77.6
Completion rate in upper secondary education, gender parity		15	98.43	Citable documents per R&D personnel in higher education		20	34.46
Completion rate in upper secondary education, wealth parity		15	92.99	RESEARCH, DEVELOPMENT AND INNOVATION			
Completion rate in upper secondary education, location parity		1	100	Inputs		4	65.3
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING				Inputs of R&D institutions		10	57.34
TVET components		19	55.6	GERD (% GDP)		7	57.81
Continuous training and skilling		45	52.92	GERD per researcher		10	47.53
Firms offering formal training (%)		n/a	n/a	Researchers per thousand labour force		17	60.23
Labour force participation rate with short-cycle tertiary education		11	81.69	Tertiary graduates from STEM programmes (%)		43	63.76
Participation rate in formal and non-formal education and training		99	24.14	Inputs of RDI in business enterprises		6	65.67
TVET structure		19	61.82	GERD performed by business enterprises (%)		4	53.59
Government expenditure on vocational education (%)		19	48.95	GERD financed by business enterprises (%)		4	82.93
Share of students enrolled in secondary vocational programmes		10	57.6	Researchers in business enterprises (%)		21	60.48
Share of students enrolled in post-secondary vocational programmes		71	78.9	Firms that spend on R&D (%)		n/a	n/a
TVET quality and qualifications		17	52.19	Inputs of societal innovation		2	80.7
Extent of staff training		2	78.47	High-skilled employment (%)		12	70.2
Quality of vocational training		1	90.88	Intellectual property payments (% total trade)		1	100
Ratio of high-skill TVET occupations earnings to average wage		90	13.73	State of cluster development		2	71.89
Ratio of medium-skill TVET occupations earnings to average wage		83	25.69	Outputs		1	65.2
TVET labour market		19	72.9	Outputs of R&D institutions		1	63.59
Efficiency of the labour market		10	82.18	Average documents per researcher		18	35.26
Firms constrained with inadequately educated workforce (%)		n/a	n/a	Citations per document		9	55.5
Employment educational mismatch (%)		25	79.85	Resident patent applications (per 100 billion GDP)		1	100
Proportion of skilled production workers		n/a	n/a	Outputs of RDI in business enterprises		4	75.95
Unemployment rate with vocational education		31	84.51	Intellectual property receipts (% total trade)		1	100
Post-TVET employment		36	55.43	Industrial design applications (per 100 billion GDP)		22	27.85
Share of TVET occupations		18	72.3	PCT applications (per 100 billion GDP)		1	100
Manufacturing employment (%)		68	38.57	Firms producing new products and services (%)		n/a	n/a
Equity and inclusiveness		45	81.13	Outputs of societal innovation		5	57.52
Enrolment in vocational education, gender parity		73	72.7	Trademark applications (per 100 billion GDP)		20	54
Vulnerable employment rate		29	89.55	Cultural goods exports (% exports)		1	100
				Printing and publishing output (% manufactured output)		45	18.55
				Impact		31	32.5
				Quality		24	37.71
				Research institutions prominence		18	31.48
				Growth of innovative companies		14	62.88
				ISO 9001 quality certificates (per billion GDP)		25	29.87
				ISO 14001 environmental certificates (per billion GDP)		26	26.61
				Linkages		10	40.84
				GERD financed from abroad (%)		67	9.94
				Joint ventures per strategic alliance deals (per billion GDP)		8	49.68
				Computer software spending (% GDP)		2	62.91
				Business development		109	19.05
				New business density per thousand population		30	19.05
				Firms with products and services new to the market (%)		n/a	n/a



SWITZERLAND

	Rank	Value
INFORMATION AND COMMUNICATIONS TECHNOLOGY	13	67.4
Infrastructure	2	81.4
Coverage	3	72.67
3G/4G mobile network coverage (% population)	15	99.98
Secure Internet servers per 1 million population	1	100
Investment in telecommunication services (% GDP)	70	18.04
Quality	8	73.28
Mobile upload and download speeds	8	48.65
Fixed-broadband upload and download speeds	8	71.19
Fixed-broadband subscriptions by speed per hundred people	1	100
Affordability	12	98.34
Fixed broadband basket (% GNI per capita)	21	96.1
Mobile broadband basket (% GNI per capita)	11	98.92
Internet and telephony competition	1	100
Access	31	51.4
Subscriptions	31	60.26
Active mobile-broadband subscriptions per hundred inhabitants	44	41.53
International Internet bandwidth per user	56	43.06
Households with Internet access at home (%)	10	96.19
Skills and employment	28	42.52
Individuals with standard ICT skills (%)	15	64.2
Tertiary graduates from ICT programmes (%)	95	17.43
ICT employment (%)	22	45.93
Usage	15	69.3
Services	35	59.72
Government online services	46	76.77
Fixed broadband Internet traffic per subscription	34	27.02
Mobile broadband Internet traffic per subscription	21	39.82
Internet users (%)	12	95.28
Outcomes	7	78.9
ICT PCT patent applications (per 100 billion GDP)	7	78.83
E-participation	38	70.45
Internet activities by individuals (%)	9	86.33
Trade in digitally deliverable services (% total trade)	5	80.01
ECONOMY	13	67.3
Economic competitiveness	25	64
Infrastructure investment	30	55.44
Gross fixed capital formation (% GDP)	34	48.12
Logistics performance	12	72.53
Transport productive capacity	21	41.13
Building quality control	104	60
Business agility	24	72.49
Ease of starting a business	66	88.44
Insolvency recovery rate	39	50.82
Entrepreneurial employee activity rate	4	79.26
Extent of corporate transparency	49	71.43
Economic openness	45	63.4
Trade and diversification	38	57.31
Trade (% GDP)	25	39.1
High-technology trade (% total trade)	44	26.73
Product concentration	74	72.88
Market concentration	63	90.53
Financial openness	47	69.4
Chinn-Ito financial openness	1	100
Foreign direct investment, net inflows (% GDP)	131	8.2
Debt dynamics	1	100
Financing and domestic value added	5	74.7
Financing and taxes	5	79.88
Domestic credit to private sector (% GDP)	3	64.18
MSME financing gap (% GDP)	n/a	n/a
Tax and contribution rate (% profit)	34	78.84
Bank non-performing loans (%)	7	96.61
Domestic value added	5	69.54
Medium- and high-tech activities value added	2	79.82
Industry and services value added (% GDP)	9	73.7
Labour underutilization rate	64	69.22
Output per worker	6	55.41

	Rank	Value
ENABLING ENVIRONMENT	5	85.5
Governance	2	96.6
Political environment	2	95.26
Peace and stability	5	92.45
Voice and accountability	4	98.07
Quality of institutions	5	97.92
Rule of law	5	97.6
Control of corruption	7	96.63
Government effectiveness	2	99.52
Socio-economic	4	83.7
Gender equity	10	85.84
Female-to-male ratio in parliament	16	73.91
Female-to-male labour force participation	40	85.01
Female-to-male ratio in Internet usage	47	98.58
Social inclusion	8	95.86
Social protection coverage (% population)	18	96.5
Adult literacy rate	n/a	n/a
Youth not in employment, education or training (%)	6	95.21
Standard of living	5	69.53
Poverty headcount ratio (% population)	34	79.65
GDP per capita	5	59.4
Health and environment	7	76.1
Health	3	93.9
Universal health coverage	5	87.14
Healthy life expectancy (years)	3	96.49
Under-five mortality rate	24	98.08
Environmental performance	48	58.39
Renewable energy consumption (%)	62	25.73
Ecological footprint per capita	89	73.44
Natural hazard exposure	21	76

*All values are normalized to a scale from 0 (worst) to 100 (best).