

GKI RANK

3/141

SCORE

67.9

WORLD AVERAGE

47.8

COUNTRY PERFORMANCE SUMMARY

Switzerland is a leading performer in terms of its knowledge infrastructure. It ranks 3rd out of 141 countries in the Global Knowledge Index 2024 and 3rd out of the 59 countries with very high human development.

SWITZERLAND

KEY INDICATORS

GDP (US\$ billions): 733.779 Population: 8,870,561

HDI: 0.967

AREAS OF STRENGTH

- University-industry collaboration in R&D
- Extent of staff training
- Quality of vocational training
- Intellectual property receipts (% total trade)
- Fixed-broadband subscriptions by speed per hundred people

AREAS OF IMPROVEMENT

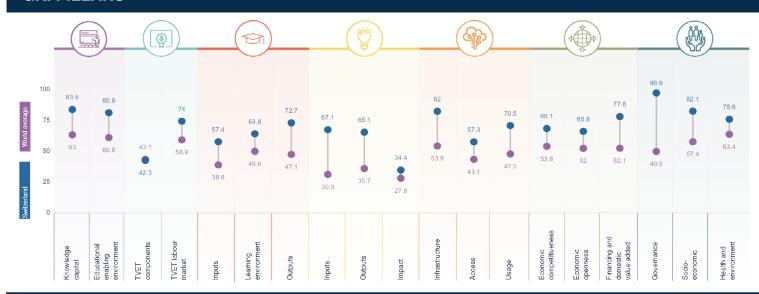
- Foreign direct investment, net inflows (% GDP)
- Ratio of high-skill TVET occupations earnings to average wage
- Share of students enrolled in postsecondary vocational programmes
- Tertiary graduates from ICT programmes (%)
- Building quality control

SECTORAL INDICES





GKI PILLARS





SWITZERLAND

PRE LINIVERSITY EDUCATION	Rank	Valu
PRE-UNIVERSITY EDUCATION		82.2
Knowledge capital	15	83.5
Enrolment	24	96.6
Net enrolment rate in primary education	14	99.5
Net enrolment rate in lower secondary education	11	99.6
Net enrolment rate in upper secondary education	41	90.7
Completion	28	79.4
Years of compulsory education in primary and secondary	45	76.9
Completion rate in upper secondary education	12	94.8
Gross intake ratio to the last grade of lower secondary education	47	66.5
Outcomes	14	74.4
Assessment of 15-year-old students in math, science and reading	8	66.4
Learning-adjusted years of schooling	24	82.3
Educational enabling environment	9	80.9
Expenditure	33	45.2
Government expenditure on primary education (% GDP)	46	37.4
Government expenditure on secondary education (% GDP)	53	33.8
Government funding per primary student (% GDP per capita)	13	65.6
Government funding per secondary student (% GDP per capita)	34	43.9
Resources	26	97.9
Pupil-trained teacher ratio in primary education	n/a	n/a
Pupil-trained teacher ratio in secondary education	n/a	n/a
Schools with access to computers in primary education (%)	1	100
Schools with access to computers in secondary education (%)	65	95.8
Early learning	19	80.6
Gross enrolment ratio in early childhood education	7	80.6
Proportion of children who are developmentally on track	n/a	n/a
Proportion of children with stimulating home learning environments	n/a	n/a
Pupil-trained teacher ratio in pre-primary education	n/a	n/a
Pupil-trained teacher ratio in pre-primary education	n/a	n/a 99.9
Equity and inclusiveness	1	99.9
Equity and inclusiveness Completion rate in upper secondary education, gender parity	1	99.9 99.9
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity	1 1 n/a	99.9 99.9 n/a
Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity	1 1 n/a 1	99.9 99.9 n/a 100
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Equity and inclusiveness Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components	1 1 n/a 1 36 68	99.9 99.9 n/a 100 58.1 42.3
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	Rank	Value
HIGHER EDUCATION	2	64.6
Inputs	7	57.4
Expenditure	8	52.6
Government expenditure per tertiary student	5	53
Teaching staff compensation (% tertiary expenditure)	34	52.2
Enrolment	20	48.4
Enrolment in bachelor's or equivalent level (%)	29	34.7
Enrolment in master's, doctoral or equivalent (%) Resources	23 39	62.1 71.1
Pupil-teacher ratio in tertiary education	14	92.8
Researchers in higher education (%)	49	49.4
Learning environment	28	63.8
Diversity and academic freedom	37	63.8
Teachers in tertiary education, gender parity	75	59.1
Inbound mobility rate	12	47.2
Academic freedom	40	85
Equity and inclusiveness	n/a	n/a
Gross attendance ratio for tertiary education, gender parity	n/a	n/a
Gross attendance ratio for tertiary education, wealth parity	n/a	n/a
Gross attendance ratio for tertiary education, location parity	n/a	n/a
Outputs	2	72.7
Attainment	4	75.8
Educational attainment rate, bachelor's or equivalent	5	67.5
Educational attainment rate, master's or equivalent	9	66.8
Educational attainment rate, doctoral or equivalent	6	93.1
Employment	33	85.5
Labour force participation rate with advanced education	43	80.5
Unemployment rate with advanced education	38	90.5
Impact	12	56.9
University-industry collaboration in R&D	1	79.2
Citable documents per R&D personnel in higher education RESEARCH, DEVELOPMENT AND INNOVATION	21	34.6 55.5
Inputs	4	67.1
	10	61.2
Inputs of R&D institutions GERD (% GDP)	6	60.4
GERD per researcher	9	59.1
Researchers per thousand labour force	15	64.2
Tertiary graduates from STEM programmes (%)	40	61.3
Inputs of RDI in business enterprises	6	65.7
GERD performed by business enterprises (%)	4	53.6
GERD financed by business enterprises (%)	5	82.9
Researchers in business enterprises (%)	22	60.5
Firms that spend on R&D (%)	n/a	n/a
Inputs of societal innovation	3	80.2
High-skilled employment (%)	13	69.8
Intellectual property payments (% total trade)	1	100
State of cluster development	4	70.7
Outputs	1	65.1
Outputs of R&D institutions	8	61.6
Average documents per researcher	18	36.9
Citations per document	14	64.9
Resident patent applications (per 100 billion GDP)	4	83
Outputs of RDI in business enterprises	1	92.2
Intellectual property receipts (% total trade)	1	100
Industrial design applications (per 100 billion GDP) PCT applications (per 100 billion GDP)	17	76.7
Firms producing new products and services (%)	n/a	100 n/a
Outputs of societal innovation	n/a 30	n/a 44.8
Trademark applications (per 100 billion GDP)	31	24.2
Cultural goods exports (% exports)	4	98.8
Printing and publishing output (% manufactured output)	79	11.3
Impact	40	34.4
Quality	20	40.7
Research institutions prominence	16	47.6
Growth of innovative companies	14	62.6
ISO 9001 quality certificates (per billion GDP)	25	28.6
ISO 14001 environmental certificates (per billion GDP)		
100 14001 charlettal certaindates (per billion CB1)	31	23.9
Linkages		23.9
	31	
Linkages	31 13	43.5
Linkages GERD financed from abroad (%)	31 13 66	43.5 9.9
Linkages GERD financed from abroad (%) Joint ventures per strategic alliance deals (per billion GDP)	31 13 66 10	43.5 9.9 58.5
Linkages GERD financed from abroad (%) Joint ventures per strategic alliance deals (per billion GDP) Computer software spending (% GDP)	31 13 66 10 7	9.9 58.5 62.1



SWITZERLAND

Secure International transmit Secure International Internation	INFORMATION AND COMMUNICATIONS TECHNOLOGY	Rank 17	Valu
Coverage 6 82 3G44G mobile network coverage (% population) 1 100 Secure internet servers per 1 million population 5 93.2 Investment in telecommunication services (% GDP) 12 52.8 Quality 5 71.7 Mobile uplade and download speeds 15 37.3 Fixed-broadband uplade and download speeds 10 77.9 Fixed-broadband basket (% GNI per capita) 29 78.8 Affordability 22 92.4 Affordability 29 78.8 Mobile broadband basket (% GNI per capita) 18 98.5 Internet and telephory competition 1 100 Access 30 57.3 Subscriptions 40 68.9 Active mobile-broadband subscriptions per hundred inhabitants 52 51.9 International Internet barn with per user 64 57 Households with Internet access at home (%) 11 97 Households with Internet access at home (%) 15 63.6 Tell Hung year and year access at			
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International Internet bandwidth per user 64 57 157 158	Active mobile-broadband subscriptions per hundred inhabitants	52	51.9
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Mobile broadband Internet traffic per subscription 18 41.3 Internet users (%) 11 97 Outcomes 6 79.8 ICT PCT patent applications (per 100 billion GDP) 7 84.6 E-participation 30 82.2 Internet activities by individuals (%) 17 79.5 Trade in digitally deliverable services (% total trade) 7 73 ECONOMY 7 70.6 Economic competitiveness 22 68.1 Infrastructure investment 22 68.6 Gross fixed capital formation (% GDP) 34 45.8 Logistics performance 3 77.5 Transport productive capacity 15 71.3 Building quality control 109 60 Business agility 25 72.5 Ease of starting a business 67 88.4 Ense of starting a business 67 88.4 Ease of starting a business 67 88.4 Enterpreneurial employee activity rate 4 79.3 <t< td=""><td>Government online services</td><td>36</td><td>84.1</td></t<>	Government online services	36	84.1
Internet users (%)	Fixed broadband Internet traffic per subscription	69	22.3
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ECONOMY 7 70.6 Economic competitiveness 22 68.1 Infrastructure investment 22 63.6 Gross fixed capital formation (% GDP) 34 45.8 Logistics performance 3 77.5 Transport productive capacity 15 71.3 Building quality control 109 60 Business agility 25 72.5 Ease of starting a business 67 88.4 Insolvency recovery rate 43 50.8 Entrepreneurial employee activity rate 4 79.3 Extent of corporate transparency 51 71.4 Economic openness 24 65.8 Trade and diversification 25 59.9 Trade (% GDP) 21 35.5 High-technology trade (% total trade) 17 39.8 Product concentration 83 71.4 Market concentration 37 71.6 Chinn-Ito financial openness 1 100 Financing and domestic value added 3			
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High-technology trade (% total trade)	Internet activities by individuals (%) Frade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Fransport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness	17 7 22 22 34 3 15 109 25 67 43 4 51	79.5 73 70.6 68.1 63.6 45.8 77.5 71.3 60 72.5 88.4 50.8 79.3 71.4 65.8
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Market concentration 37 92.9 Financial openness 37 71.6 Chinn-Ito financial openness 1 100 Foreign direct investment, net inflows (% GDP) 139 14.8 Debt dynamics 3 77.8 Financing and domestic value added 3 77.8 Financing and taxes 3 79.5 Domestic credit to private sector (% GDP) 6 68.7 MSME financing gap (% GDP) 1/a n/a Tax and contribution rate (% profit) 37 72.3 Bank non-performing loans (%) 6 97.5 Domestic value added 3 77.2 Medium- and high-tech activities value added 3 77 Industry and services value added (% GDP) 6 90.1	Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP)	17 7 7 22 22 34 3 15 109 25 67 43 4 51 24 25	79.5 73 70.6 68.1 63.6 45.8 77.5 71.3 60 72.5 88.4 50.8 79.3 71.4 65.8 59.9 35.5
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	Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance Transport productive capacity Building quality control Business agility Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency Economic openness Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit)	17 7 22 22 34 3 15 109 25 67 43 4 51 24 25 21 17 83 37 1 139 1 3 6 n/a 37 6 3 3	79.5 73.7 70.6 68.1 63.6 45.8 77.5 71.3 60 72.5 88.4 50.8 79.3 35.5 39.8 71.4 92.9 71.6 100 14.8 100 77.8 68.7 n/a 72.3 97.5 76.2 77

	Rank	Rank Value	
ENABLING ENVIRONMENT	3	84.9	
Governance	1	96.9	
Political environment	2	95.7	
Peace and stability	5	92.5	
Voice and accountability	3	99	
Quality of institutions	4	98.1	
Rule of law	6	97.6	
Control of corruption	7	97.2	
Government effectiveness	2	99.5	
Socio-economic	10	82.1	
Gender equity	21	82.2	
Female-to-male ratio in parliament	30	62.6	
Female-to-male labour force participation	37	85.8	
Female-to-male ratio in Internet usage	58	98.2	
Social inclusion	9	95	
Social protection coverage (% population)	1	100	
Adult literacy rate	n/a	n/a	
Youth not in employment, education or training (%)	17	90	
Standard of living	6	69	
Poverty headcount ratio (% population)	36	75.7	
GDP per capita	6	62.4	
Health and environment	6	75.6	
Health	6	92	
Universal health coverage	10	86.3	
Healthy life expectancy (years)	6	91.4	
Under-five mortality rate	29	98.1	
Environmental performance	50	59.3	
Renewable energy consumption (%)	66	28.8	
Ecological footprint per capita	92	71.1	
Natural hazard exposure	15	78	

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