

# GKI RANK 39 /141

**GKI SCORE** 55.5

**WORLD AVERAGE** 47.8

## COUNTRY PERFORMANCE SUMMARY

Qatar is a strong performer in terms of its knowledge infrastructure. It ranks 39th out of 141 countries in the Global Knowledge Index 2024 and 38th out of the 59 countries with very high human development.

# QATAR

## KEY INDICATORS

**GDP** (US\$ billions): 304.973

**Population**: 2,979,082

**HDI**: 0.875

## AREAS OF STRENGTH

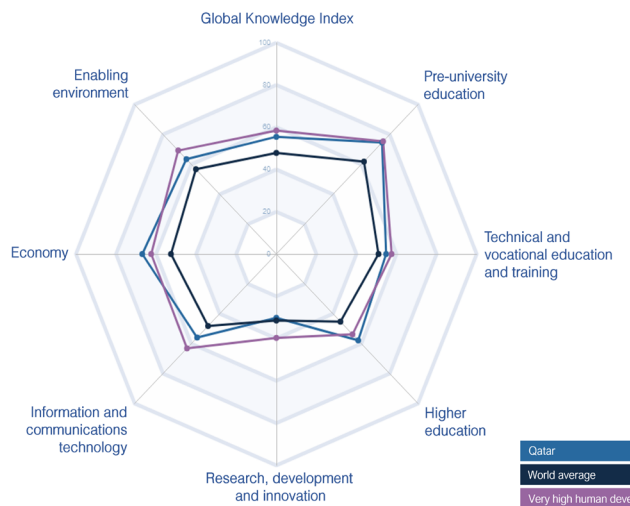
- + Share of TVET occupations
- + Vulnerable employment rate
- + Unemployment rate with advanced education
- + Fixed broadband Internet traffic per subscription
- + Industry and services value added (% GDP)

## AREAS OF IMPROVEMENT

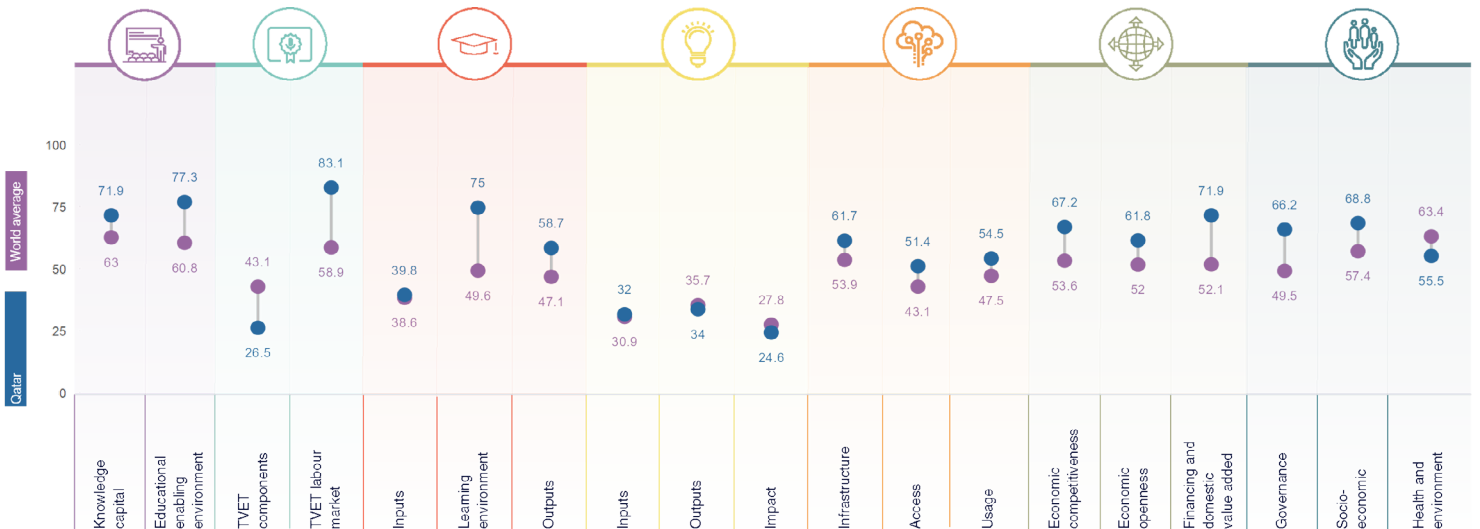
- Intellectual property payments (% total trade)
- Intellectual property receipts (% total trade)
- Cultural goods exports (% exports)
- Renewable energy consumption (%)
- Ecological footprint per capita

## SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	39	74.6
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	47	54.8
HIGHER EDUCATION	22	57.8
RESEARCH, DEVELOPMENT AND INNOVATION	62	30.2
INFORMATION AND COMMUNICATIONS TECHNOLOGY	50	55.9
ECONOMY	19	66.9
ENABLING ENVIRONMENT	45	63.5



## GKI PILLARS





## Rank Value

PRE-UNIVERSITY EDUCATION	39	74.6
<b>Knowledge capital</b>	<b>57</b>	<b>71.9</b>
Enrolment	73	87.7
Net enrolment rate in primary education	97	84.4
Net enrolment rate in lower secondary education	71	92.9
Net enrolment rate in upper secondary education	55	85.7
<b>Completion</b>	<b>27</b>	<b>79.4</b>
Years of compulsory education in primary and secondary	3	92.3
Completion rate in upper secondary education	n/a	n/a
Gross intake ratio to the last grade of lower secondary education	46	66.5
<b>Outcomes</b>	<b>57</b>	<b>48.5</b>
Assessment of 15-year-old students in math, science and reading	49	35
Learning-adjusted years of schooling	58	62
<b>Educational enabling environment</b>	<b>18</b>	<b>77.3</b>
<b>Expenditure</b>	<b>n/a</b>	<b>n/a</b>
Government expenditure on primary education (% GDP)	n/a	n/a
Government expenditure on secondary education (% GDP)	n/a	n/a
Government funding per primary student (% GDP per capita)	n/a	n/a
Government funding per secondary student (% GDP per capita)	n/a	n/a
<b>Resources</b>	<b>27</b>	<b>97.9</b>
Pupil-trained teacher ratio in primary education	9	97.4
Pupil-trained teacher ratio in secondary education	25	94.2
Schools with access to computers in primary education (%)	1	100
Schools with access to computers in secondary education (%)	1	100
<b>Early learning</b>	<b>78</b>	<b>56.7</b>
Gross enrolment ratio in early childhood education	105	20.4
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	28	93.1
<b>Equity and inclusiveness</b>	<b>n/a</b>	<b>n/a</b>
Completion rate in upper secondary education, gender parity	n/a	n/a
Completion rate in upper secondary education, wealth parity	n/a	n/a
Completion rate in upper secondary education, location parity	n/a	n/a
<b>TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING</b>	<b>47</b>	<b>54.8</b>
<b>TVET components</b>	<b>136</b>	<b>26.5</b>
<b>Continuous training and skilling</b>	<b>n/a</b>	<b>n/a</b>
Firms offering formal training (%)	n/a	n/a
Labour force participation rate with short-cycle tertiary education	n/a	n/a
Participation rate in formal and non-formal education and training	n/a	n/a
<b>TVET structure</b>	<b>134</b>	<b>1.9</b>
Government expenditure on vocational education (%)	n/a	n/a
Share of students enrolled in secondary vocational programmes	118	1.9
Share of students enrolled in post-secondary vocational programmes	n/a	n/a
<b>TVET quality and qualifications</b>	<b>20</b>	<b>51.1</b>
Extent of staff training	6	72.5
Quality of vocational training	9	70.3
Ratio of high-skill TVET occupations earnings to average wage	16	45.9
Ratio of medium-skill TVET occupations earnings to average wage	111	15.6
<b>TVET labour market</b>	<b>2</b>	<b>83.1</b>
<b>Efficiency of the labour market</b>	<b>1</b>	<b>100</b>
Firms constrained with inadequately educated workforce (%)	n/a	n/a
Employment educational mismatch (%)	n/a	n/a
Proportion of skilled production workers	n/a	n/a
Unemployment rate with vocational education	1	100
<b>Post-TVET employment</b>	<b>33</b>	<b>57</b>
Share of TVET occupations	1	100
Manufacturing employment (%)	118	14.1
<b>Equity and inclusiveness</b>	<b>4</b>	<b>92.2</b>
Enrolment in vocational education, gender parity	45	84.5
Vulnerable employment rate	1	100

## Rank Value

HIGHER EDUCATION	22	57.8
<b>Inputs</b>	<b>66</b>	<b>39.8</b>
<b>Expenditure</b>	<b>n/a</b>	<b>n/a</b>
Government expenditure per tertiary student	n/a	n/a
Teaching staff compensation (% tertiary expenditure)	n/a	n/a
<b>Enrolment</b>	<b>96</b>	<b>9.8</b>
Enrolment in bachelor's or equivalent level (%)	84	16.5
Enrolment in master's, doctoral or equivalent (%)	110	3.1
<b>Resources</b>	<b>48</b>	<b>69.9</b>
Pupil-teacher ratio in tertiary education	67	73.9
Researchers in higher education (%)	24	65.8
<b>Learning environment</b>	<b>3</b>	<b>75</b>
<b>Diversity and academic freedom</b>	<b>63</b>	<b>55.4</b>
Teachers in tertiary education, gender parity	78	55.6
Inbound mobility rate	1	100
Academic freedom	130	10.5
<b>Equity and inclusiveness</b>	<b>1</b>	<b>94.5</b>
Gross attendance ratio for tertiary education, gender parity	11	94.5
Gross attendance ratio for tertiary education, wealth parity	n/a	n/a
Gross attendance ratio for tertiary education, location parity	n/a	n/a
<b>Outputs</b>	<b>22</b>	<b>58.7</b>
<b>Attainment</b>	<b>63</b>	<b>24.6</b>
Educational attainment rate, bachelor's or equivalent	29	49.6
Educational attainment rate, master's or equivalent	77	7.7
Educational attainment rate, doctoral or equivalent	53	16.4
<b>Employment</b>	<b>1</b>	<b>96.9</b>
Labour force participation rate with advanced education	4	93.8
Unemployment rate with advanced education	1	100
<b>Impact</b>	<b>17</b>	<b>54.7</b>
University-industry collaboration in R&D	10	69.1
Citable documents per R&D personnel in higher education	15	40.3
<b>RESEARCH, DEVELOPMENT AND INNOVATION</b>	<b>62</b>	<b>30.2</b>
<b>Inputs</b>	<b>54</b>	<b>32</b>
<b>Inputs of R&amp;D institutions</b>	<b>34</b>	<b>41.8</b>
GERD (% GDP)	51	12.1
GERD per researcher	2	98
Researchers per thousand labour force	65	8
Tertiary graduates from STEM programmes (%)	73	49
<b>Inputs of RDI in business enterprises</b>	<b>112</b>	<b>10.7</b>
GERD performed by business enterprises (%)	65	1.4
GERD financed by business enterprises (%)	75	11.4
Researchers in business enterprises (%)	55	19.3
Firms that spend on R&D (%)	n/a	n/a
<b>Inputs of societal innovation</b>	<b>64</b>	<b>33.6</b>
High-skilled employment (%)	64	33.4
Intellectual property payments (% total trade)	128	0
State of cluster development	8	67.3
<b>Outputs</b>	<b>72</b>	<b>34</b>
<b>Outputs of R&amp;D institutions</b>	<b>5</b>	<b>65.6</b>
Average documents per researcher	5	81.8
Citations per document	6	80.2
Resident patent applications (per 100 billion GDP)	104	34.9
<b>Outputs of RDI in business enterprises</b>	<b>141</b>	<b>1.1</b>
Intellectual property receipts (% total trade)	119	0
Industrial design applications (per 100 billion GDP)	n/a	n/a
PCT applications (per 100 billion GDP)	70	2.3
Firms producing new products and services (%)	n/a	n/a
<b>Outputs of societal innovation</b>	<b>138</b>	<b>3.5</b>
Trademark applications (per 100 billion GDP)	123	2.1
Cultural goods exports (% exports)	137	0
Printing and publishing output (% manufactured output)	90	8.3
<b>Impact</b>	<b>85</b>	<b>24.6</b>
<b>Quality</b>	<b>39</b>	<b>30.1</b>
Research institutions prominence	50	15.8
Growth of innovative companies	6	67.2
ISO 9001 quality certificates (per billion GDP)	53	14.3
ISO 14001 environmental certificates (per billion GDP)	33	23.1
<b>Linkages</b>	<b>60</b>	<b>18</b>
GERD financed from abroad (%)	90	1
Joint ventures per strategic alliance deals (per billion GDP)	26	18.1
Computer software spending (% GDP)	28	34.8
<b>Business development</b>	<b>117</b>	<b>25.9</b>
New business density per thousand population	32	25.9
Firms with products and services new to the market (%)	n/a	n/a



# QATAR

	Rank	Value
<b>INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	<b>50</b>	<b>55.9</b>
<b>Infrastructure</b>	<b>52</b>	<b>61.7</b>
Coverage	85	54.3
3G/4G mobile network coverage (% population)	18	99.9
Secure Internet servers per 1 million population	79	47.8
Investment in telecommunication services (% GDP)	104	15.1
<b>Quality</b>	<b>21</b>	<b>53</b>
Mobile upload and download speeds	2	82.7
Fixed-broadband upload and download speeds	25	52.4
Fixed-broadband subscriptions by speed per hundred people	79	23.8
<b>Affordability</b>	<b>86</b>	<b>77.9</b>
Fixed broadband basket (% GNI per capita)	48	73.9
Mobile broadband basket (% GNI per capita)	2	99.8
Internet and telephony competition	113	60
<b>Access</b>	<b>49</b>	<b>51.4</b>
<b>Subscriptions</b>	<b>9</b>	<b>79.2</b>
Active mobile-broadband subscriptions per hundred inhabitants	9	76.5
International Internet bandwidth per user	26	64.8
Households with Internet access at home (%)	20	96.1
<b>Skills and employment</b>	<b>75</b>	<b>23.7</b>
Individuals with standard ICT skills (%)	45	35.7
Tertiary graduates from ICT programmes (%)	82	23.4
ICT employment (%)	66	12.1
<b>Usage</b>	<b>50</b>	<b>54.5</b>
<b>Services</b>	<b>7</b>	<b>76.8</b>
Government online services	56	76.5
Fixed broadband Internet traffic per subscription	1	100
Mobile broadband Internet traffic per subscription	35	30.5
Internet users (%)	1	100
<b>Outcomes</b>	<b>100</b>	<b>32.2</b>
ICT PCT patent applications (per 100 billion GDP)	73	38.7
E-participation	88	48
Internet activities by individuals (%)	76	20.8
Trade in digitally deliverable services (% total trade)	101	21.4
<b>ECONOMY</b>	<b>19</b>	<b>66.9</b>
<b>Economic competitiveness</b>	<b>23</b>	<b>67.2</b>
Infrastructure investment	1	79.2
Gross fixed capital formation (% GDP)	n/a	n/a
Logistics performance	32	62.5
Transport productive capacity	4	88.6
Building quality control	24	86.7
Business agility	69	55.1
Ease of starting a business	88	86
Insolvency recovery rate	90	32.6
Entrepreneurial employee activity rate	11	59.1
Extent of corporate transparency	88	42.9
<b>Economic openness</b>	<b>41</b>	<b>61.8</b>
Trade and diversification	95	46.3
Trade (% GDP)	47	24
High-technology trade (% total trade)	93	12.6
Product concentration	116	57.4
Market concentration	59	91.3
Financial openness	25	77.2
Chinn-Ito financial openness	1	100
Foreign direct investment, net inflows (% GDP)	132	31.6
Debt dynamics	1	100
<b>Financing and domestic value added</b>	<b>8</b>	<b>71.9</b>
Financing and taxes	27	68.3
Domestic credit to private sector (% GDP)	20	40.8
MSME financing gap (% GDP)	n/a	n/a
Tax and contribution rate (% profit)	3	95.9
Bank non-performing loans (%)	n/a	n/a
Domestic value added	4	75.4
Medium- and high-tech activities value added	5	67.4
Industry and services value added (% GDP)	1	100
Labour underutilization rate	47	77.9
Output per worker	7	56.4

	Rank	Value
<b>ENABLING ENVIRONMENT</b>	<b>45</b>	<b>63.5</b>
<b>Governance</b>	<b>43</b>	<b>66.2</b>
Political environment	57	52.1
Peace and stability	11	84
Voice and accountability	118	20.3
Quality of institutions	28	80.3
Rule of law	31	79.2
Control of corruption	30	79.2
Government effectiveness	26	82.5
<b>Socio-economic</b>	<b>40</b>	<b>68.8</b>
Gender equity	112	56.8
Female-to-male ratio in parliament	134	4.6
Female-to-male labour force participation	107	66.5
Female-to-male ratio in Internet usage	45	99.3
<b>Social inclusion</b>	<b>78</b>	<b>64.3</b>
Social protection coverage (% population)	137	1.6
Adult literacy rate	31	97.2
Youth not in employment, education or training (%)	7	94
Standard of living	3	85.4
Poverty headcount ratio (% population)	n/a	n/a
GDP per capita	4	85.4
<b>Health and environment</b>	<b>122</b>	<b>55.5</b>
<b>Health</b>	<b>40</b>	<b>82.6</b>
Universal health coverage	54	76.4
Healthy life expectancy (years)	40	74.4
Under-five mortality rate	39	97.1
<b>Environmental performance</b>	<b>139</b>	<b>28.5</b>
Renewable energy consumption (%)	140	0
Ecological footprint per capita	135	2.4
Natural hazard exposure	6	83

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