

**SAUDI ARABIA** 

#### **KEY INDICATORS**

GDP (US\$ billions): 1,831.379 Population: 33,264,292

HDI: 0.875

### **GKI RANK**

GKI SCORE

54.8

WORLD AVERAGE

47.8

#### **COUNTRY PERFORMANCE SUMMARY**

Saudi Arabia is a strong performer in terms of its knowledge infrastructure. It ranks 41st out of 141 countries in the Global Knowledge Index 2024 and 40th out of the 59 countries with very high human development.

### **AREAS OF STRENGTH**

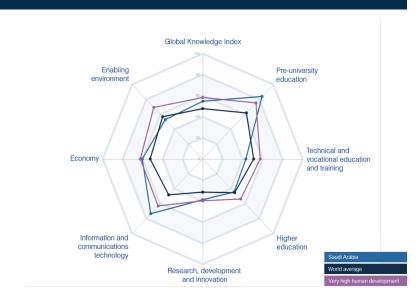
- Firms with products and services new to the market (%)
- Households with Internet access at home
- State of cluster development
- Growth of innovative companies
- Mobile broadband Internet traffic per

#### **AREAS OF IMPROVEMENT**

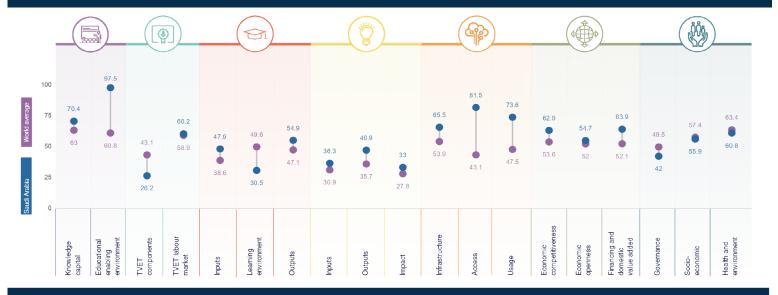
- Firms offering formal training (%)
- Share of students enrolled in postsecondary vocational programmes
- Enrolment in vocational education, gender parity
- Renewable energy consumption (%)
- Ratio of medium-skill TVET occupations earnings to average wage

#### **SECTORAL INDICES**





### **GKI PILLARS**





# **SAUDI ARABIA**

	Rank	Value
PRE-UNIVERSITY EDUCATION	4	84
Knowledge capital	66	70.4
Enrolment	17	97.6
Net enrolment rate in primary education	59	95.2
Net enrolment rate in lower secondary education	26	99
Net enrolment rate in upper secondary education	8	98.5
Completion	42	76.6
Years of compulsory education in primary and secondary	68	69.2
Completion rate in upper secondary education	n/a	n/a
Gross intake ratio to the last grade of lower secondary education	4	84.1
Outcomes	88	37.1
Assessment of 15-year-old students in math, science and reading	66	20.6
Learning-adjusted years of schooling	77	53.6
Educational enabling environment	1	97.5
Expenditure	n/a	n/a
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
Resources	28	97.9
Pupil-trained teacher ratio in primary education	13	96.5
Pupil-trained teacher ratio in secondary education	20	95
Schools with access to computers in primary education (%)	1	100
Schools with access to computers in secondary education (%)	1	100
Early learning	1	97.1
Gross enrolment ratio in early childhood education	n/a	n/a
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	9	97.1
Equity and inclusiveness	n/a	n/a
Completion rate in upper secondary education, gender parity	n/a	n/a
Completion rate in upper secondary education, gender parity  Completion rate in upper secondary education, wealth parity	n/a n/a	n/a n/a
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity	n/a n/a	n/a n/a
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	n/a n/a 112	n/a n/a 43.2
Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components	n/a n/a 112 137	n/a n/a 43.2 26.2
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	n/a n/a 112	n/a n/a 43.2 26.2 37.6
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)	n/a n/a 112 137 94 125	n/a n/a 43.2 26.2 37.6
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education	n/a n/a 112 137 94 125	n/a n/a 43.2 26.2 37.6 0 86.9
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training	n/a n/a 112 137 94 125 16 73	n/a n/a 43.2 26.2 37.6 0 86.9 26
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure	n/a n/a 112 137 94 125 16 73 137	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)	n/a n/a 112 137 94 125 16 73 137 n/a	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes	n/a n/a 112 137 94 125 16 73 137 n/a 123	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes	n/a n/a 112 137 94 125 16 73 137 n/a 123 83	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications	n/a n/a 112 137 94 125 16 73 137 n/a 123 83	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training  Ratio of high-skill TVET occupations earnings to average wage	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24	n/a n/a 43.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training  Ratio of high-skill TVET occupations earnings to average wage  Ratio of medium-skill TVET occupations earnings to average wage	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24 49 121	n/a n/a 143.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6 0.9
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training  Ratio of high-skill TVET occupations earnings to average wage  Ratio of medium-skill TVET occupations earnings to average wage	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24 49 121 74	n/a n/a 143.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6 0.9 60.2
Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training  Ratio of high-skill TVET occupations earnings to average wage  Ratio of medium-skill TVET occupations earnings to average wage  TVET labour market  Efficiency of the labour market	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24 49 121 74	n/a n/a 143.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6 0.9 60.2 71.7
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Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  Share of students enrolled in post-secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training  Ratio of high-skill TVET occupations earnings to average wage  Ratio of medium-skill TVET occupations earnings to average wage  TVET labour market  Efficiency of the labour market  Firms constrained with inadequately educated workforce (%)  Employment educational mismatch (%)	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24 49 121 74 51 5 n/a	n/a n/a 143.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6 0.9 60.2 71.7 96.8 n/a
Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training Quality of vocational training Ratio of high-skill TVET occupations earnings to average wage TVET labour market Efficiency of the labour market Efficiency of the labour market Efficiency of skilled production workers	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24 49 121 74 51 5 n/a 96	n/a n/a 143.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6 0.9 60.2 71.7 96.8 n/a 46.6
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Completion rate in upper secondary education, wealth parity  Completion rate in upper secondary education, location parity  TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING  TVET components  Continuous training and skilling  Firms offering formal training (%)  Labour force participation rate with short-cycle tertiary education  Participation rate in formal and non-formal education and training  TVET structure  Government expenditure on vocational education (%)  Share of students enrolled in secondary vocational programmes  TVET quality and qualifications  Extent of staff training  Quality of vocational training  Ratio of high-skill TVET occupations earnings to average wage  TVET labour market  Efficiency of the labour market  Firms constrained with inadequately educated workforce (%)  Employment educational mismatch (%)  Proportion of skilled production workers  Unemployment rate with vocational education  Post-TVET employment  Share of TVET occupations  Manufacturing employment (%)	n/a n/a 112 137 94 125 16 73 137 n/a 123 83 81 28 24 49 121 74 51 5 n/a 96 n/a 53 30 88	n/a n/a 143.2 26.2 37.6 0 86.9 26 0.3 n/a 0.5 0 40.7 67.3 66.2 28.6 0.9 60.2 71.7 96.8 n/a 46.6 n/a 48.5 69.1 28

	Rank	
HIGHER EDUCATION	77	44.4
Inputs	35	47.9
Expenditure	n/a	n/a
Government expenditure per tertiary student	n/a	n/a
Teaching staff compensation (% tertiary expenditure)	n/a	n/a
Enrolment  Enrolment in bachelor's or equivalent level (%)	55 16	25.8 37.8
Enrolment in master's, doctoral or equivalent (%)	60	13.7
Resources	46	70
Pupil-teacher ratio in tertiary education	76	70
Researchers in higher education (%)	n/a	n/a
Learning environment	118	30.5
Diversity and academic freedom	118	30.5
Teachers in tertiary education, gender parity	52	74.9
Inbound mobility rate	61	10.2
Academic freedom	136	6.4
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	38	54.9
Attainment	55	29.3
Educational attainment rate, bachelor's or equivalent	28	50.5
Educational attainment rate, master's or equivalent	64	12.2
Educational attainment rate, doctoral or equivalent	39	25.3
Employment	75	79.4
Labour force participation rate with advanced education	61	78
Unemployment rate with advanced education	82	80.9
Impact	13	56
University-industry collaboration in R&D	35	56
Citable documents per R&D personnel in higher education	n/a	n/a
RESEARCH, DEVELOPMENT AND INNOVATION		
Inputs	40	36.3
Inputs of R&D institutions	61	31.3
GERD (% GDP)	61	8.2
GERD per researcher	20	39.6
Researchers per thousand labour force	61	9.2
Tertiary graduates from STEM programmes (%)	29	68.3
Inputs of RDI in business enterprises	111	11
GERD performed by business enterprises (%)	n/a	n/a
GERD financed by business enterprises (%)	n/a	n/a
Researchers in business enterprises (%)	n/a	n/a
Firms that spend on R&D (%)	94	11
Inputs of societal innovation	7	71.8
High-skilled employment (%)	n/a	n/a
Intellectual property payments (% total trade)	n/a	n/a 71.8
State of cluster development	_	7 1.0
Outputs	23	46.9
Outputs of R&D institutions	3	72.8
Average documents per researcher	6	69.6
Citations per document	3 34	88.5
Resident patent applications (per 100 billion GDP)  Outputs of RDI in business enterprises	100	60.2 20.5
ntellectual property receipts (% total trade)	100 n/a	20.5 n/a
ntellectual property receipts (% total trade) ndustrial design applications (per 100 billion GDP)	n/a 80	n/a 49.6
PCT applications (per 100 billion GDP)	50	5.2
Firms producing new products and services (%)	110	6.7
Outputs of societal innovation	118	21.5
Frademark applications (per 100 billion GDP)	106	6.8
Cultural goods exports (% exports)	114	43
Printing and publishing output (% manufactured output)	60	14.8
Impact	45	33
Quality	51	28.6
	26	28.3
Research institutions prominence	2	71.9
		6.5
Growth of innovative companies	81	
Growth of innovative companies ISO 9001 quality certificates (per billion GDP)	81 65	7.9
Growth of innovative companies  SO 9001 quality certificates (per billion GDP)  ISO 14001 environmental certificates (per billion GDP)		7.9 18.5
Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages	65	
Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages GERD financed from abroad (%)	65 58	18.5
Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages GERD financed from abroad (%) Joint ventures per strategic alliance deals (per billion GDP)	65 58 n/a	18.5 n/a
Research institutions prominence Growth of innovative companies ISO 9001 quality certificates (per billion GDP) ISO 14001 environmental certificates (per billion GDP) Linkages GRED financed from abroad (%) Joint ventures per strategic alliance deals (per billion GDP) Computer software spending (% GDP) Business development	65 58 n/a 50	18.5 n/a 8.9



## **SAUDI ARABIA**

	Rank Value	
INFORMATION AND COMMUNICATIONS TECHNOLOGY	7	73.5
Infrastructure	42	65.5
Coverage	79	55.6
3G/4G mobile network coverage (% population)	1	100
Secure Internet servers per 1 million population	93	42
Investment in telecommunication services (% GDP)	64	24.7
Quality	19	54
Mobile upload and download speeds	9	46
Fixed-broadband upload and download speeds	53	27.8
Fixed-broadband subscriptions by speed per hundred people	13	88.2
Affordability	57	86.9
Fixed broadband basket (% GNI per capita)	77	64.7
Mobile broadband basket (% GNI per capita)	50	96
Internet and telephony competition	1	100
Access	1	81.5
Subscriptions	4	85
Active mobile-broadband subscriptions per hundred inhabitants	6	83.7
International Internet bandwidth per user	11	71.2
Households with Internet access at home (%)	1	100
Skills and employment	1	78
Individuals with standard ICT skills (%)	2	98.5
Tertiary graduates from ICT programmes (%)	5	57.6
ICT employment (%)	n/a	n/a
Usage	9	73.6
Services	1	93.7
Government online services	4	99
Fixed broadband Internet traffic per subscription	3	79.8
Mobile broadband Internet traffic per subscription	2	95.8
Internet users (%)	1	100
Outcomes	47	53.5
ICT PCT patent applications (per 100 billion GDP)	68	41.1
E-participation	6	95.9
Internet activities by individuals (%)	48	52.6
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade)	48 91	52.6 24.4
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY	48 91 38	52.6 24.4 60.5
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness	48 91 38 35	52.6 24.4 60.5 62.9
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness Infrastructure investment	48 91 38 35 30	52.6 24.4 60.5 62.9
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)	48 91 38 35 30 20	52.6 24.4 60.5 62.9 61 49.4
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  Economic competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)  Logistics performance	48 91 38 35 30 20 35	52.6 24.4 60.5 62.9 61 49.4
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	48 91 38 35 30 20 35 36	52.6 24.4 60.5 62.9 61 49.4 60 54.7
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	48 91 38 35 30 20 35 36 46	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  ECONOMY  ECONOMIC competitiveness  Infrastructure investment  Gross fixed capital formation (% GDP)  Logistics performance  Transport productive capacity  Building quality control  Business agility	48 91 38 35 30 20 35 36 46 46	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  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	48 91 38 35 30 20 35 36 46 46 31	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  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	48 91 38 35 30 20 35 36 46 46 31 n/a	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  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	48 91 38 35 30 20 35 36 46 46 31 n/a	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  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	48 91 38 35 30 20 35 36 46 46 31 n/a 86	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4
Internet activities by individuals (%)  Trade in digitally deliverable services (% total trade)  ECONOMY  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	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7
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	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 93.1 n/a 1.4 100 54.7 39.6
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)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6
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)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8
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	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9
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	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8
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  Financial openness	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8
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  Financial openness	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2
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  Financial openness  Chinn-Ito financial openness  Chinn-Ito financial openness	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1
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)  High-technology trade (% total trade)  Product concentration  Market concentration  Financial openness  Chinn-Ito financial openness  Foreign direct investment, net inflows (% GDP)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 40.9 91.2 69.8 70.1 39.3
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 domestic value added	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1 39.3 100
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 domestic value added  Financing and taxes	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1 39.3 100 63.9
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1 39.3 100 63.9 68.2 21
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)  MSME financing gap (% GDP)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62 n/a	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1 39.3 100 63.9 68.2 21 n/a
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)  MSME financing gap (% GDP)  Tax and contribution rate (% profit)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62 n/a 86	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1 39.3 100 63.9 68.2 21 n/a 89.9
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)  MSME financing gap (% GDP)  Tax and contribution rate (% profit)  Bank non-performing loans (%)	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62 n/a 8 8 21	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 69.8 70.1 39.3 100 63.9 68.2 21 n/a 89.9 93.7
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)  MSME financing gap (% GDP)  Tax and contribution rate (% profit)  Bank non-performing loans (%)  Domestic value added	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62 n/a 8 8 21 30	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 69.8 70.1 39.3 100 63.9 68.2 21 n/a 89.9 93.7 59.6
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)  MSME financing gap (% GDP)  Tax and contribution rate (% profit)  Bank non-performing loans (%)  Domestic value added  Medium- and high-tech activities value added	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62 n/a 8 8 21 30 49 49 49 49 40 40 40 40 40 40 40 40 40 40	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 69.8 70.1 39.3 100 63.9 68.2 21 n/a 89.9 93.7 59.6 31.2
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 domestic value added  Financing and taxes  Domestic credit to private sector (% GDP)  MSME financing gap (% GDP)  Tax and contribution rate (% profit)  Bank non-performing loans (%)  Domestic value added	48 91 38 35 30 20 35 36 46 46 31 n/a 86 1 63 124 101 88 130 61 41 57 85 1 17 28 62 n/a 8 8 21 30	52.6 24.4 60.5 62.9 61 49.4 60 54.7 80 64.8 93.1 n/a 1.4 100 54.7 39.6 12.6 13.8 40.9 91.2 69.8 70.1 39.3 100 63.9 68.2 21 n/a 89.9 93.7 59.6

	Rank	Rank Value	
ENABLING ENVIRONMENT	77	52.9	
Governance	75	42	
Political environment	122	19.9	
Peace and stability	92	32.1	
Voice and accountability	137	7.7	
Quality of institutions	49	64.2	
Rule of law	55	58	
Control of corruption	48	63.7	
Government effectiveness	41	70.8	
Socio-economic	77	55.9	
Gender equity	115	55.9	
Female-to-male ratio in parliament	102	24.8	
Female-to-male labour force participation	130	43	
Female-to-male ratio in Internet usage	1	100	
Social inclusion	59	74.7	
Social protection coverage (% population)	58	63.1	
Adult literacy rate	31	97.2	
Youth not in employment, education or training (%)	77	63.7	
Standard of living	78	37	
Poverty headcount ratio (% population)	n/a	n/a	
GDP per capita	28	37	
Health and environment	98	60.8	
Health	46	80.9	
Universal health coverage	64	74.4	
Healthy life expectancy (years)	42	72.4	
Under-five mortality rate	47	96.1	
Environmental performance	125	40.7	
Renewable energy consumption (%)	138	0.1	
Ecological footprint per capita	116	55.9	
Natural hazard exposure	55	66	

 $<sup>^{\</sup>star}$  All values are normalized to a scale from 0 (worst) to 100 (best).