

### GKI RANK 87 /141

Government expenditure on secondary

Gross attendance ratio for tertiary

Mobile broadband Internet traffic per

**AREAS OF** 

STRENGTH

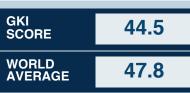
education (% GDP)

Inbound mobility rate

subscription

education, gender parity

Labour underutilization rate



#### **COUNTRY PERFORMANCE SUMMARY**

Kyrgyzstan is a modest performer in terms of its knowledge infrastructure. It ranks 87th out of 141 countries in the Global Knowledge Index 2024 and 26th out of the 35 countries with high human development.

**AREAS OF** 

student

GDP)

added

billion GDP)

IMPROVEMENT

Extent of corporate transparency

Government expenditure per tertiary

ISO 14001 environmental certificates (per

ISO 9001 quality certificates (per billion

Medium- and high-tech activities value

### **KYRGYZSTAN**

#### **KEY INDICATORS**

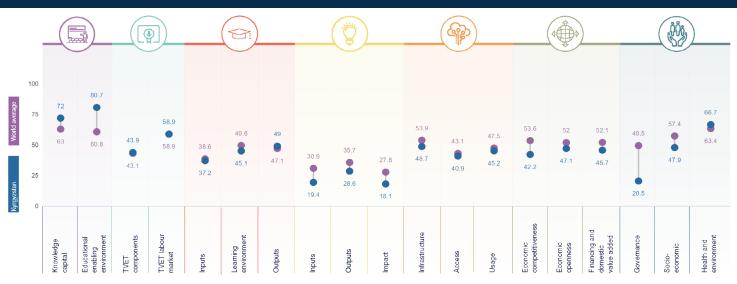
GDP (US\$ billions): 45.461 Population: 7,073,516 HDI: 0.701

#### SECTORAL INDICES

	RANK	VALUE
PRE-UNIVERSITY EDUCATION	32	76.3
ECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	72	51.4
HIGHER EDUCATION	79	43.8
RESEARCH, DEVELOPMENT AND INNOVATION	119	22
INFORMATION AND COMMUNICATIONS TECHNOLOGY	80	44.9
	105	45
ENABLING ENVIRONMENT	110	45



#### **GKI PILLARS**





# **KYRGYZSTAN**

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Proportion of children who are developmentally on track3656Proportion of children with stimulating home learning environments789.1Pupil-trained teacher ratio in pre-primary education5682Equity and inclusiveness3787.2Completion rate in upper secondary education, gender parity1192.8Completion rate in upper secondary education, wealth parity1377Completion rate in upper secondary education, location parity3391.9TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING7251.4TVET components5843.9Continuous training and skilling8041.7Firms offering formal training (%)8028.8Labour force participation rate with short-cycle tertiary education4875.9Participation rate in formal and non-formal education and training8322.4TVET structure7343.4100TVET quality and qualifications3946.6Extent of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes7414.9Efficiency of the labour market9563.4Firms constrained with inadequately ducated workforce (%)8163.1Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment rate with vocational education5184.4Proportion of skilled production workers10142.7 <td>Early learning</td> <td>61</td> <td>63.7</td>	Early learning	61	63.7
Proportion of children with stimulating home learning environments789.1Pupil-trained teacher ratio in pre-primary education5682Equity and inclusiveness3787.2Completion rate in upper secondary education, gender parity1192.8Completion rate in upper secondary education, wealth parity1377Completion rate in upper secondary education, location parity3391.9TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING7251.4TVET components5843.9Continuous training and skilling8041.7Firms offering formal training (%)8026.8Labour force participation rate with short-cycle tertiary education48FOO7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes7414.9Cuality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aFirms constrained with inadequately ducated workforce (%)8163.1Efficiency of the labour market9563.4Proportion of skilled production workers1042.7Unemployment rate with vocational education5184.4Proportion of skilled production workers1042.7Unemployment rate with vocational education5184.4Proportion of skilled production workers <td>Gross enrolment ratio in early childhood education</td> <td>89</td> <td>27.7</td>	Gross enrolment ratio in early childhood education	89	27.7
Pupil-trained teacher ratio in pre-primary education5662Equity and inclusiveness3787.2Completion rate in upper secondary education, gender parity4192.8Completion rate in upper secondary education, wealth parity1377Completion rate in upper secondary education, location parity3391.9TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING7251.4TVET components5843.9Continuous training and skilling8041.7Firms offering formal training (%)8026.8Labour force participation rate with short-cycle tertiary education4875.97343.4Government expenditure on vocational education and training8322.4TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes10100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/arims constrained with inadequately educated workforce (%)8163.1Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment rate with vocational education5184.4Post-TVET employ	Proportion of children who are developmentally on track	36	56
Equity and inclusiveness3787.2Completion rate in upper secondary education, gender parity4192.8Completion rate in upper secondary education, wealth parity1377Completion rate in upper secondary education, location parity3391.9TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING7251.4TVET components5843.9Continuous training and skilling8041.7Firms offering formal training (%)8026.8Labour force participation rate with short-cycle tertiary education4875.9Participation rate in formal and non-formal education and training8322.4TVET structure7343.443.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/arims constrained with inadequately educated workforce (%)8163.1Efficiency of the labour market9563.4Proportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment (%)6257.3Share of TVET occupations6957.3Shar	Proportion of children with stimulating home learning environments	7	89.1
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Completion rate in upper secondary education, wealth parity1377Completion rate in upper secondary education, location parity3391.9TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING7251.4TVET components5843.9Continuous training and skilling8041.7Firms offering formal training (%)8026.8Labour force participation rate with short-cycle tertiary education48TVET structure7343.4Government expenditure on vocational education and training8322.4TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in post-secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aTVET labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational mismatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment (%)6545.9Share of TVET occupations6957.3Manufacturing employment (%)6734.5 <trt< td=""><td></td><td></td><td></td></trt<>			
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Continuous training and skilling8041.7Firms offering formal training (%)8026.8Labour force participation rate with short-cycle tertiary education4875.9Participation rate in formal and non-formal education and training8322.4TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aTVET labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Efficiency of the labour market9563.4Proportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment6545.9Share of TVET occupations6957.3Manufacturing employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity	41 13	92.8 77
Firms offering formal training (%)8026.8Labour force participation rate with short-cycle tertiary education4875.9Participation rate in formal and non-formal education and training8322.4TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aTVET labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational mismatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment (%)6545.9Share of TVET occupations6957.3Manufacturing employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity	41 13 33	92.8 77 91.9
Labour force participation rate with short-cycle tertiary education4875.9Participation rate in formal and non-formal education and training8322.4TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aTVET labour market8458.9Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational mismatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	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	41 13 33 72	92.8 77 91.9 51.4
Participation rate in formal and non-formal education and training8322.4TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aTVET labour market8458.9Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational insmatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	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	41 13 33 72 58	92.8 77 91.9 51.4 43.9
TVET structure7343.4Government expenditure on vocational education (%)6217.3Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aTVET labour market8458.9Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational insmatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment6545.9Share of TVET occupations6957.3Manufacturing employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	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 Continuous training and skilling	41 13 33 72 58 80	92.8 77 91.9 <b>51.4</b> 43.9 41.7
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Share of students enrolled in secondary vocational programmes7412.9Share of students enrolled in post-secondary vocational programmes1100TVET quality and qualifications3946.6Extent of staff training11645.2Quality of vocational training9148Ratio of high-skill TVET occupations earnings to average wagen/an/aRatio of medium-skill TVET occupations earnings to average wagen/an/aTVET labour market8458.9Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational mismatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	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 Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education	41 13 33 72 58 80 80 80 48	92.8 77 91.9 <b>51.4</b> <b>43.9</b> 41.7 26.8 75.9
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Efficiency of the labour market9563.4Firms constrained with inadequately educated workforce (%)8163.1Employment educational mismatch (%)n/an/aProportion of skilled production workers10142.7Unemployment rate with vocational education5184.4Post-TVET employment6545.9Share of TVET occupations6957.3Manufacturing employment (%)6734.5Equity and inclusiveness8067.4Enrolment in vocational education, gender parity8068.6	Completion rate in upper secondary education, gender 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 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	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 1/a	92.8 77 91.9 <b>51.4</b> <b>43.9</b> 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 n/a
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Unemployment rate with vocational education       51       84.4         Post-TVET employment       65       45.9         Share of TVET occupations       69       57.3         Manufacturing employment (%)       67       34.5         Equity and inclusiveness       80       67.4         Enrolment in vocational education, gender parity       80       68.6	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 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 TNET 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 (%)	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 116 91 n/a n/a 84 95 81	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 r/a r/a 58.9 63.4 63.1
Post-TVET employment         65         45.9           Share of TVET occupations         69         57.3           Manufacturing employment (%)         67         34.5           Equity and inclusiveness         80         67.4           Enrolment in vocational education, gender parity         80         68.6	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 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 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 (%)	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 116 91 n/a 84 95 81 81	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 r/a r/a 58.9 63.4 63.1 r/a
Share of TVET occupations         69         57.3           Manufacturing employment (%)         67         34.5           Equity and inclusiveness         80         67.4           Enrolment in vocational education, gender parity         80         68.6	Completion rate in upper secondary education, gender 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         Ratio of medium-skill TVET occupations earnings to average wage         TVET labour market         Firms constrained with inadequately educated workforce (%)         Employment educational mismatch (%)	41 13 33 72 58 80 80 80 48 83 73 62 74 1 39 116 91 n/a 91 n/a 84 95 81 81 n/a 101	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 n/a r/a 58.9 63.4 63.1 r/a 42.7
Manufacturing employment (%)     67     34.5       Equity and inclusiveness     80     67.4       Enrolment in vocational education, gender parity     80     68.6	Completion rate in upper secondary education, gender 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 (%)	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 n/a 91 n/a 84 95 81 n/a 101 51	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 45.2 48 n/a n/a 58.9 63.4 63.1 n/a 84.4
Equity and inclusiveness     80     67.4       Enrolment in vocational education, gender parity     80     68.6	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 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 (%) Proportion of skilled production workers Unemployment rate with vocational education Post-TVET employment	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 n/a 91 n/a 84 95 81 n/a 101 51 51 65	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 45.2 48 45.2 48 45.9 63.4 63.4 42.7 88.4 45.9
Enrolment in vocational education, gender parity 80 68.6	Completion rate in upper secondary education, gender 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 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 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 (%) Proportion of skilled production workers Unemployment rate with vocational education Post-TVET employment Share of TVET occupations	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 n/a 91 n/a 84 95 81 n/a 101 51 65 69	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 22.4 43.4 43.4 17.3 12.9 100 46.6 45.2 48 45.2 48 45.9 63.4 63.1 n/a 42.7 84.4 45.9 57.3
	Completion rate in upper secondary education, gender 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 (%)         Proportion of skilled production workers         Unemployment rate with vocational education         Post-TVET employment         Share of TVET occupations	41 13 33 72 58 80 80 48 83 73 62 74 1 39 62 74 1 39 116 91 n/a n/a 84 95 81 n/a 101 51 65 69 67	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 45.2 48 45.2 48 45.9 63.4 63.1 n/a 63.4 63.1 n/a 63.4 45.9 57.3 34.5
	Completion rate in upper secondary education, gender 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 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         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         Anufacturing employment (%)	41 13 33 72 58 80 80 48 83 73 62 74 1 39 116 91 n/a n/a 84 95 81 n/a 101 51 65 69 67 80	92.8 77 91.9 51.4 43.9 41.7 26.8 75.9 22.4 43.4 17.3 12.9 100 46.6 43.2 48 45.2 63.4 63.1 n/a 63.4 63.1 n/a 42.7 84.4 45.9 57.3 34.5 67.4

HIGHER EDUCATION         nputs         Expenditure         Bovernment expenditure per tertiary student         Feaching staff compensation (% tertiary expenditure)         Enrolment         Enrolment in bachelor's or equivalent level (%)         Enrolment in master's, doctoral or equivalent (%)         Resources         Pupil-teacher ratio in tertiary education         Researchers in higher education, gender parity         nbound mobility rate         Academic freedom         Equity and inclusiveness         Stross attendance ratio for tertiary education, location parity         Dotrputs         Stross attendance ratio for tertiary education, location parity         Dotrputs         Durational attainment rate, bachelor's or equivalent         Educational attainment rate, doctoral or equivalent         Employment         .abour force participation rate with advanced education         Inversity-industry collaboration in R&D         Catale documents per R&D personnel in higher education         RESEARCH, DEVELOPMENT AND INNOVATION         mputs         Stable force per researcher         Researchers per thousand labour force         Fertiary graduates from STEM programmes (%)         SteRD (% GDP)         SERD (% GDP)<	79 82 119 112 n/a 50 75 42 23 49 n/a 88 100 114 5 99 27 2 2 20 44 61 38 42 2 0 44 61 38 42 2 0 44 61 38 38 42 2 0 44 119 120 72 2 0 44 1112 112 112 112 112 112 112 112 112	<ul> <li>43.8</li> <li>37.2</li> <li>0.1</li> <li>0.1</li> <li>0.1</li> <li>30.4</li> <li>21.8</li> <li>38.9</li> <li>81</li> <li>45.1</li> <li>39.4</li> <li>7</li> <li>63.1</li> <li>48</li> <li>50.7</li> <li>99.2</li> <li>22.2</li> <li>30.8</li> <li>49</li> <li>39.6</li> <li>39.6&lt;</li></ul>
Spenditure           Sovernment expenditure per tertiary student           Faching staff compensation (% tertiary expenditure)           Enrolment in bachelor's or equivalent level (%)           Enrolment in master's, doctoral or equivalent (%)           Resources           Pupil-teacher ratio in tertiary education           Researchers in higher education (%)           Learning environment           Diversity and academic freedom           Fachers in tertiary education, gender parity           nbound mobility rate           Academic freedom           Equity and inclusiveness           Bross attendance ratio for tertiary education, gender parity           Stross attendance ratio for tertiary education, location parity           Druptus           Dutactional attainment rate, bachelor's or equivalent           Educational att	119         112         n/a         50         75         42         23         49         n/a         88         100         114         5         99         27         20         44         61         38         42         n/a         92         99         83         90         120         n/a         92         99         83         90         120         n/a         91         120         n/a         91         120         n/a         91         108         n/a         86	0.1 0.1 1/4 30.4 21.8 38.9 81 81 181 1/4 39.4 7 63.1 48 50.7 99.2 22.2 30.8 49 39.6 39.6 39.6 39.6 39.6 1/4 39.6 49 39.6 39.6 39.6 1/4 39.6 49 39.6 39.7 39.2 22.2 30.8 49 39.6 39.7 30.7 32.3 32.3 32.3 14.8 32.3 32.5 32.5 32.5
Sovernment expenditure per tertiary student Faching staff compensation (% tertiary expenditure) Enrolment in bachelor's or equivalent level (%) Enrolment in master's, doctoral or equivalent (%) Resources Pupil-teacher ratio in tertiary education Researchers in higher education (%) Learning environment Diversity and academic freedom Feachers in tertiary education, gender parity nbound mobility rate Academic freedom Equity and inclusiveness Tross attendance ratio for tertiary education, gender parity Diversity and inclusiveness Tross attendance ratio for tertiary education, gender parity Diversity and inclusiveness Tross attendance ratio for tertiary education, location parity Diversity Diversity Diversity Educational attainment rate, bachelor's or equivalent Educational education Educational education Educational education Educational Education Educational Education Educational Education Educational Education Educational Education Educational Education Educ	1112 n/a 50 75 42 23 49 n/a 88 100 114 5 99 27 2 20 44 61 38 42 n/a n/a 114 5 99 27 2 20 44 61 38 42 100 114 5 99 27 2 20 44 61 38 42 100 114 5 99 27 20 44 61 38 42 100 114 5 99 27 20 44 61 38 42 100 114 5 99 27 20 44 61 100 114 5 99 27 20 44 61 100 114 5 99 27 20 44 61 100 114 5 99 27 20 44 61 100 114 5 99 100 114 5 99 100 114 5 99 100 114 100 114 100 114 114 100 114 100 114 114	0.1 n/a 30.4 21.8 38.9 81 45.1 39.4 7 63.1 48 50.7 99.2 22.2 30.8 49 39.6 39.6 n/a 75.2 63.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 30.6 19.7 10.7
Preaching staff compensation (% tertiary expenditure)           Enrolment           Enrolment in bachelor's or equivalent level (%)           Enrolment in master's, doctoral or equivalent (%)           Resources           Pupil-teacher ratio in tertiary education           Researchers in higher education (%)           Learning environment           Diversity and academic freedom           Feachers in tertiary education, gender parity           nbound mobility rate           Academic freedom           Equity and inclusiveness           Bross attendance ratio for tertiary education, gender parity           Bross attendance ratio for tertiary education, location parity           Drubuts           Dutactional attainment rate, bachelor's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, bachelor's or equivalent           Educat	n/a         n/a         50         75         42         23         49         n/a         88         100         114         5         99         27         20         44         61         38         42         n/a         92         99         83         90         120         n/a         92         93         80         120         n/a         91         120         n/a         91         113         79         108         n/a         86	n/a 30.4 21.8 38.9 81 45.1 39.4 7 63.1 48 50.7 99.2 22.2 30.8 50.7 99.2 22.2 30.8 39.6 39.6 39.6 39.6 39.6 39.6 39.6 39.6
Enrolment Enrolment in bachelor's or equivalent level (%) Enrolment in master's, doctoral or equivalent (%) Resources Pupil-teacher ratio in tertiary education Researchers in higher education (%) Learning environment Diversity and academic freedom Feachers in tertiary education, gender parity nbound mobility rate Academic freedom Equity and inclusiveness Tross attendance ratio for tertiary education, gender parity arbound ratio for tertiary education, gender parity Sross attendance ratio for tertiary education, gender parity Sross attendance ratio for tertiary education, gender parity Dutputs Dutputs Dutputs Educational attainment rate, bachelor's or equivalent Educational education Empoty Educational Education in R&D Educational Education Education Educati	50 75 42 23 49 n/a <b>88</b> 100 114 5 99 27 2 20 44 61 38 42 70 44 61 38 42 70 2 99 83 90 120 120 120 120 120 120 120 120 120 12	30.4 21.8 38.9 81 39.4 7 63.1 48 50.7 99.2 22.2 30.8 49 39.6 39.6 39.6 39.6 39.6 39.6 39.6 104 75.2 69.7 80.7 32.3 32.3 n/a 12.2
Enrolment in bachelor's or equivalent level (%) Enrolment in master's, doctoral or equivalent (%) Resources Pupil-teacher ratio in tertiary education Researchers in higher education (%) <b>Learning environment</b> Diversity and academic freedom Feachers in tertiary education, gender parity nbound mobility rate Academic freedom Equity and inclusiveness Gross attendance ratio for tertiary education, gender parity Arases attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, usedith parity Gross attendance ratio for tertiary education, location parity Diversity and inclusiveness Arases attendance ratio for tertiary education, location parity Diversity Arases attendance ratio for tertiary education, location parity Diversity Cuttors Cutational attainment rate, bachelor's or equivalent Educational education Educational education Educational education Educational education Educational education Educational education Educational education Educational education Educationa	75         75         42         23         49         n/a         88         100         114         5         99         27         20         44         61         38         42         n/a         92         99         83         90         120         n/a         92         93         90         120         n/a         79         108         n/a         86	21.8 38.9 81 81 39.4 45.1 39.4 7 63.1 48 50.7 99.2 22.2 30.8 39.6 39.6 39.6 39.6 39.6 39.6 39.6 39.6
Enrolment in master's, doctoral or equivalent (%) Resources Pupil-teacher ratio in tertiary education Researchers in higher education (%) Learning environment Diversity and academic freedom Feachers in tertiary education, gender parity nbound mobility rate Academic freedom Equity and inclusiveness Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, location parity Diversity and inclusiveness Gross attendance ratio for tertiary education, location parity Diversity Gross attendance ratio for tertiary education, location parity Diversity Cutational attainment rate, bachelor's or equivalent Educational attainment rate, bachelor's or equivalent Educational attainment rate, bachelor's or equivalent Educational attainment rate, doctoral or equivalent Educational attainment rate, bachelor's or equivalent Educational eta with advanced education Educational eta with advanced education Educational eta with advanced education Educational eta with advanced education Educational eta with advanced education Educationaleta eta with advanced education Educational eta with ed	42 23 49 n/a 88 100 1114 5 99 27 2 20 44 61 38 42 70 44 61 38 42 79 99 83 90 120 n/a 99 120 n/a 83 90 120 120 120 120 120 120 120 120 120 12	38.9 81 81 81 39.4 7 63.1 48 50.7 99.2 22.2 30.8 39.6 39.6 39.6 39.6 39.6 39.6 39.6 39.6
Resources           Pupil-teacher ratio in tertiary education           Researchers in higher education (%)           Learning environment           Diversity and academic freedom           Feachers in tertiary education, gender parity           nbound mobility rate           Academic freedom           Equity and inclusiveness           Bross attendance ratio for tertiary education, gender parity           Bross attendance ratio for tertiary education, location parity           Duty IS           Bross attendance ratio for tertiary education, location parity           Duty IS           Cotational attainment rate, master's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate with advanced education           Jnemployment           Labour force participation rate with advanced education           Inversity-industry collaboration in R&D           Diversity-industry collaboration in R&D           Inversity-industry collaboration force           RESEARCH, DEVELOPMENT AND INNOVATION           Reputs           ERD per researcher           Researchers per thousand labour force           Fertiary graduates from STEM programmes (%)           SERD performed by busin	223 49 n/a 88 1000 1114 5 99 27 2 20 44 61 38 42 7 9 9 99 83 90 120 n/a 99 83 90 120 n/a 1113 79 108 n/a 86	81 81 n/a 45.1 39.4 7 63.1 48 50.7 99.2 22.2 30.8 39.6 73.8 39.6 7.2 69.7 32.3 32.3 32.3 n/a 22 19.4 23.9 1.2
Puplicates         Puplicates           Researchers in higher education (%)           Learning environment           Diversity and academic freedom           Feachers in tertiary education, gender parity           nbound mobility rate           Academic freedom           Equity and inclusiveness           Bross attendance ratio for tertiary education, gender parity           Bross attendance ratio for tertiary education, location parity           Drubuts           Dutational attainment rate, bachelor's or equivalent           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, bachelor's or equivalent           Educ	49 n/a 88 100 114 5 99 27 2 20 44 61 38 42 n/a n/a 92 99 83 90 120 n/a 113 79 108 n/a	81 n/a 45.1 39.4 7 63.1 48 50.7 99.2 22.2 30.8 39.6 73.6 75.2 69.7 80.7 32.3 32.3 n/a 12.3 12.4 23.9 1.2
Researchers in higher education (%)           Learning environment           Diversity and academic freedom           Reachers in tertiary education, gender parity           nbound mobility rate           Academic freedom           Equity and inclusiveness           Stross attendance ratio for tertiary education, gender parity           Gross attendance ratio for tertiary education, wealth parity           Gross attendance ratio for tertiary education, location parity           Dutputs           Uttainment           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, bachelor's or equivalent           Educational attainment ra	n/a 88 100 114 5 99 27 2 20 44 61 38 42 n/a 8 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	<ul> <li>na</li> <li>na</li> <li>na</li> <li>a9.4</li> <li>39.4</li> <li>39.6</li> <li>39.6</li> <li>39.6</li> <li>39.6</li> <li>39.6</li> <li>75.2</li> <li>69.7</li> <li>32.3</li> <li>32.3</li> <li>n/a</li> <li>22</li> <li>19.4</li> <li>23.9</li> <li>1.2</li> </ul>
earning environment Diversity and academic freedom Feachers in tertiary education, gender parity nbound mobility rate Academic freedom Equity and inclusiveness Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, usealth parity Gross attendance ratio for tertiary education, usealth parity Gross attendance ratio for tertiary education, location parity Dutputs Uttainment Educational attainment rate, bachelor's or equivalent Educational attainment rate, doctoral or equivalent Educational attainment rate with advanced education Jnemployment Labour force participation rate with advanced education Jnemployment Educational See Sea Sea Sea Sea Sea Sea Sea Sea Sea	88 100 114 5 99 27 2 20 44 61 38 42 7 4 4 61 38 42 7 9 9 9 9 8 3 90 120 n/a 120 n/a 119 113 79 108 n/a 86	45.1 39.4 39.7 63.1 48 50.7 99.2 22.2 30.8 39.6 39.6 39.6 75.2 69.7 80.7 32.3 32.3 32.3 n/a 22 19.4 23.9 1.2
Provide a cacdemic freedom           Feachers in tertiary education, gender parity           Inbound mobility rate           Academic freedom           Equity and inclusiveness           Bross attendance ratio for tertiary education, gender parity           Bross attendance ratio for tertiary education, wealth parity           Bross attendance ratio for tertiary education, location parity           Dutputs           Academic freedom           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, bachelor's or equivalent           Educations         Education	100 114 5 999 27 2 0 44 61 38 42 7 9 9 9 8 3 90 120 n/a 120 n/a 120 120 120 7 9 108 7 9 108 7 4 8 8	39.4 39.4 63.1 48 50.7 99.2 22.2 30.8 39.6 39.6 75.2 69.7 32.3 32.3 32.3 n/a 22 19.4 23.9 1.2
Teachers in tertiary education, gender parity         nbound mobility rate         Academic freedom         Equity and inclusiveness         Stross attendance ratio for tertiary education, gender parity         Stross attendance ratio for tertiary education, wealth parity         Stross attendance ratio for tertiary education, location parity         Dutputs         Attainment         Educational attainment rate, bachelor's or equivalent         Educational attainment rate, doctoral or equivalent         Educational attainment rate, bachelor's or equivalent         Educational attainment rate, doctoral or equivalent         Educational attainment rate, bachelor's or equivalent         Educational attainment rate, doctoral or equivalent         <	1114 5 999 277 2 00 44 61 38 42 n/a 92 999 83 90 120 n/a 119 113 79 108 n/a 86	7 63.1 48 50.7 99.2 22.2 30.8 49 39.6 75.2 69.7 80.7 32.3 32.3 72.2 19.4 23.9 1.2
hbound mobility rate Academic freedom Equity and inclusiveness Sross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, wealth parity Gross attendance ratio for tertiary education, location parity Dutputs Attainment Educational attainment rate, bachelor's or equivalent Educational attainment rate, bachelor's or equivalent Educational attainment rate, bachelor's or equivalent Educational attainment rate, doctoral or equivalent Educational attainment rate, Mathewa education Infore participation rate with advanced education Infore participation rate with advanced education Employment Eable documents per R&D personnel in higher education ResEARCH, DEVELOPMENT AND INNOVATION Inputs of R&D Institutions EREN (% GDP) EERD per researcher Researchers per thousand labour force Eretiary graduates from STEM programmes (%) ERD performed by business enterprises (%) ERED performed by business enterprises (%) ERED Enfanced by business enterprises (%) ERES and on R&D (%) Inputs of societal innovation	111 5 999 27 2 20 44 61 38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	63.1 48 50.7 99.2 22.2 30.8 <b>49</b> 39.6 39.6 75.2 69.7 32.3 32.3 32.3 n/a 22 19.4 23.9 1.2
Academic freedom Equity and inclusiveness Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, wealth parity Gross attendance ratio for tertiary education, location parity Dutputs Cutational attainment rate, pachelor's or equivalent Educational attainment rate, master's or equivalent Educational attainment rate, doctoral or equivalent Employment Eabour force participation rate with advanced education Intersection Educational EseACCH, DEVELOPMENT AND INNOVATION ESEARCH, DEVELOPMENT AND INNOVATION ESEARCH SET DER PROBES ENTERPISES ESERD (% GDP) ESERD FORMED INSITUMIONS ESERD (% GDP) ESERD ENTERPISES (%) ESERD ESERD ENTERPISES (%) ESER	999 277 2 200 44 61 38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	48 50.7 99.2 22.2 30.8 39.6 39.6 39.6 75.2 69.7 32.3 32.3 32.3 7/4 22 19.4 2.3 9 1.2
Equity and inclusiveness         Gross attendance ratio for tertiary education, gender parity         Gross attendance ratio for tertiary education, wealth parity         Stross attendance ratio for tertiary education, location parity         Dutputs         National attainment rate, bachelor's or equivalent         Educational attainment rate, master's or equivalent         Educational attainment rate, doctoral or equivalent         Educational attainment rate, doctoral or equivalent         Employment         .abour force participation rate with advanced education         Jniversity-industry collaboration in R&D         Citable documents per R&D personnel in higher education         RESEARCH, DEVELOPMENT AND INNOVATION         nputs         SERD (% GDP)         SERD (% GDP)         SERD (% GDP)         SERD performed by business enterprises         GERD performed by business enterprises (%)         SERD performed by business enterprises (%)         SERD performed by business enterprises (%)         SERD financed by business enterprises (%)         SERD performed by business enterprises (%)<	227 220 444 61 38 422 n/a 99 83 90 120 n/a 119 113 79 108 n/a 86	50.7 99.2 22.2 30.8 <b>49</b> 39.6 39.6 39.6 75.2 69.7 80.7 32.3 32.3 7/2 23.9 1.2
Arrows attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, wealth parity Gross attendance ratio for tertiary education, location parity Dutputs Attainment Educational attainment rate, bachelor's or equivalent Educational attainment rate, master's or equivalent Educational attainment rate, master's or equivalent Educational attainment rate, doctoral or equivalent Employment abour force participation rate with advanced education Jnemployment rate with advanced education Employment rate with advanced education Researcher, DevelopMENT AND INNOVATION nputs of R&D Institutions GERD (% GDP) SERD (% GDP) SERD performed by business enterprises GERD performed by business enterprises (%) SERD performed by business enterprises (%) Exearchers in business enterprises (%) Errims that spend on R&D (%) nputs of societal innovation	2 220 44 61 38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	99.2 22.2 30.8 <b>49</b> 39.6 75.2 69.7 32.3 32.3 32.3 19.4 23.9 19.4 23.9 1.2
Bross attendance ratio for tertiary education, wealth parity         Stross attendance ratio for tertiary education, location parity         Dutputs         Ntainment         Educational attainment rate, bachelor's or equivalent         Educational attainment rate, master's or equivalent         Educational attainment rate, doctoral or equivalent         Educational attainment rate, doctoral or equivalent         Educational attainment rate, doctoral or equivalent         Employment         .abour force participation rate with advanced education         Jniversity-industry collaboration in R&D         Citable documents per R&D personnel in higher education         RESEARCH, DEVELOPMENT AND INNOVATION         nputs         SERD (% GDP)         SERD per researcher         Researchers per thousand labour force         Fertiary graduates from STEM programmes (%)         nputs of RDI in business enterprises         GERD performed by business enterprises (%)         SERD performed by business enterprises (%)         SERD financed by business enterprises (%)         SERD financed by Business enterprises (%)         SERD performed by business enterprises (%)         SERD financed by Business enterprises (%)         SERD performed by business enterprises (%)         SERD performed by business enterpri	220 44 61 38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	22.2 30.8 <b>49</b> 39.6 39.6 n/a 75.2 69.7 32.3 32.3 32.3 19.4 23.9 19.4 23.9 1.2
Bross attendance ratio for tertiary education, location parity         Dutputs         Ntainment         Educational attainment rate, bachelor's or equivalent         Educational attainment rate, master's or equivalent         Educational attainment rate, doctoral or equivalent         Educational attainment rate, doctoral or equivalent         Employment         Labour force participation rate with advanced education         Innemployment rate with advanced education         Innemployment rate with advanced education         Inversity-industry collaboration in R&D         Clable documents per R&D personnel in higher education         RESEARCH, DEVELOPMENT AND INNOVATION         Researcher, DEVELOPMENT AND INNOVATION         Researchers per thousand labour force         Fertiary graduates from STEM programmes (%)         SERD performed by business enterprises         SERD performed by business enterprises (%)	44 61 38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	30.8 49 39.6 n/a 75.2 69.7 80.7 32.3 32.3 32.3 19.4 23.9 23.9 19.4
Dutputs           Nttainment           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Employment           Labour force participation rate with advanced education           Innemployment rate with advanced education           Innemployment rate with advanced education           Intersity-industry collaboration in R&D           Clable documents per R&D personnel in higher education           RESEARCH, DEVELOPMENT AND INNOVATION           Researcher, DEVELOPMENT AND INNOVATION           Researchers per thousand labour force           Fertiary graduates from STEM programmes (%)           SERD performed by business enterprises           SERD performed by business enterprises (%)           SERD financed by business enterprises (%)	61 38 42 n/a n/a 92 99 83 90 120 n/a 119 113 79 108 n/a n/a 86	<ul> <li>49</li> <li>39.6</li> <li>39.6</li> <li>39.6</li> <li>75.2</li> <li>69.7</li> <li>80.7</li> <li>32.3</li> <li>32.3</li></ul>
Dutputs           Nttainment           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Employment           Labour force participation rate with advanced education           Innemployment rate with advanced education           Innemployment rate with advanced education           Intersity-industry collaboration in R&D           Clable documents per R&D personnel in higher education           RESEARCH, DEVELOPMENT AND INNOVATION           Researcher, DEVELOPMENT AND INNOVATION           Researchers per thousand labour force           Fertiary graduates from STEM programmes (%)           SERD performed by business enterprises           SERD performed by business enterprises (%)           SERD financed by business enterprises (%)	38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	39.6 39.6 n/a n/a 75.2 69.7 80.7 32.3 32.3 32.3 32.3 19.4 222 19.4 23.9 1.2
Attainment           Educational attainment rate, bachelor's or equivalent           Educational attainment rate, master's or equivalent           Educational attainment rate, doctoral or equivalent           Educational attainment rate, doctoral or equivalent           Employment           Labour force participation rate with advanced education           Innemployment rate with advanced education           Innext           Innext           Bable documents per R&D personnel in higher education           RESEARCH, DEVELOPMENT AND INNOVATION           Inputs of R&D Institutions           BERD (% GDP)           BERD per researcher           Researchers per thousand labour force           Fertiary graduates from STEM programmes (%)           Inputs of RD in business enterprises (%)           SERD performed by business enterprises (%) <td>38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86</td> <td>39.6 39.6 n/a n/a 75.2 69.7 80.7 32.3 32.3 32.3 32.3 19.4 222 19.4 23.9 1.2</td>	38 42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	39.6 39.6 n/a n/a 75.2 69.7 80.7 32.3 32.3 32.3 32.3 19.4 222 19.4 23.9 1.2
Educational attainment rate, bachelor's or equivalent Educational attainment rate, master's or equivalent Educational attainment rate, doctoral or equivalent Employment abour force participation rate with advanced education Impact University-industry collaboration in R&D Citable documents per R&D personnel in higher education <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH</b> <b>SERD</b> per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) mputs of RDI in business enterprises SERD performed by business enterprises (%) SERD performed by business enterprises (%) SERD financed by financed by (%) mputs of societal innovation	42 n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	39.6 n/a 75.2 69.7 80.7 32.3 32.3 n/a 22 19.4 23.9 1.2
Educational attainment rate, master's or equivalent Educational attainment rate, doctoral or equivalent Employment abour force participation rate with advanced education Inmpact University-industry collaboration in R&D Citable documents per R&D personnel in higher education <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH, GDP</b> SERD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) mputs of RDI in business enterprises (%) SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) irims that spend on R&D (%) mputs of societal innovation	n/a n/a 92 99 120 n/a 119 113 79 108 n/a 86	n/a n/a 75.2 69.7 80.7 32.3 32.3 n/a 22 19.4 23.9 1.2
Educational attainment rate, doctoral or equivalent Employment abour force participation rate with advanced education Inmpact University-industry collaboration in R&D Citable documents per R&D personnel in higher education <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH</b> , <b>DEVELOPMENT AND INNOVATION</b> <b>RESEARCH</b> , <b>DEVELOPMENT AND INNOVATION</b> <b>RESEARCH, DEVELOPMENT AND INNOVATION</b> <b>RESEARCH</b> , <b>DEVELOPMENT AND INNOVATION</b> <b>RESEARCH</b> , <b>RESEARCH</b> , <b>DEVELOPMENT AND INNOVATION</b> <b>RESEARCH</b> , <b>RESEARCH</b>	n/a 92 99 83 90 120 n/a 119 113 79 108 n/a 86	n/a 75.2 69.7 32.3 32.3 n/a 22 19.4 23.9 1.2
Employment a.abour force participation rate with advanced education Inemployment rate with advanced education mpact University-industry collaboration in R&D Citable documents per R&D personnel in higher education RESEARCH, DEVELOPMENT AND INNOVATION RUSS BERD (% GDP) BERD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) mputs of RDI in business enterprises (%) SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Researchers in business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) mputs of societal innovation	92 99 83 90 120 n/a <b>119</b> <b>113</b> 79 108 n/a 86	75.2 69.7 32.3 32.3 n/a 22 19.4 23.9 1.2
Abour force participation rate with advanced education Inemployment rate with advanced education Impact Iniversity-industry collaboration in R&D Citable documents per R&D personnel in higher education RESEARCH, DEVELOPMENT AND INNOVATION RESEARCH, DEVELOPMENT AND INNOVATION SERD (% GDP) SERD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) Imputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) Imputs of societal innovation	99 83 90 120 n/a <b>119</b> <b>113</b> 79 108 n/a 86	69.7 80.7 32.3 32.3 n/a 22 19.4 23.9 1.2
Unemployment rate with advanced education mpact University-industry collaboration in R&D Citable documents per R&D personnel in higher education RESEARCH, DEVELOPMENT AND INNOVATION RESEARCH, DEVELOPMENT AND INNOVATION BRD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) mputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) SERD financed by business enterprises (%) Exesearchers in business enterprises (%) Exesearchers in business enterprises (%) Exesearchers in business enterprises (%) Exest spend on R&D (%) mputs of societal innovation	83 90 120 n/a 119 113 79 108 n/a 86	80.7 32.3 32.3 n/a 22 19.4 23.9 1.2
mpact Iniversity-industry collaboration in R&D Citable documents per R&D personnel in higher education RESEARCH, DEVELOPMENT AND INNOVATION RDUTS RDUTS RED per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) Inputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Researchers in business enterprises (%) Researchers in business enterprises (%) Irims that spend on R&D (%) Inputs of societal innovation	90 120 n/a 119 113 79 108 n/a n/a 86	32.3 32.3 n/a 22 19.4 23.9 1.2
Aniversity-industry collaboration in R&D Citable documents per R&D personnel in higher education RESEARCH, DEVELOPMENT AND INNOVATION INDUS	120 n/a 119 113 79 108 n/a n/a 86	32.3 n/a 22 19.4 23.9 1.2
Citable documents per R&D personnel in higher education         RESEARCH, DEVELOPMENT AND INNOVATION         nputs         nputs of R&D institutions         SERD (% GDP)         SERD per researcher         Researchers per thousand labour force         Fertiary graduates from STEM programmes (%)         nputs of RDI in business enterprises         GERD performed by business enterprises (%)         SERD financed by business enterprises (%)         SERD financed by business enterprises (%)         Searchers in business enterprises (%)         Searchers in business enterprises (%)         Researchers in business enterprises (%)         Searchers in business enterprises (%)         Researchers in business enterprises (%)	n/a 119 113 79 108 n/a n/a 86	n/a 22 19.4 23.9 1.2
RESEARCH, DEVELOPMENT AND INNOVATION nputs nputs of R&D institutions SERD (% GDP) SERD per researcher Researchers per thousand labour force fertiary graduates from STEM programmes (%) nputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) irrms that spend on R&D (%) nputs of societal innovation	119 113 79 108 n/a n/a 86	22 19.4 23.9 1.2
nputs nputs of R&D institutions SERD (% GOP) SERD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) nputs of RDI in business enterprises GERD performed by business enterprises (%) SERD financed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation	113 79 108 n/a n/a 86	<b>19.4</b> 23.9 1.2
Apputs of R&D institutions SERD (% GDP) SERD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) mputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) mputs of societal innovation	79 108 n/a 86	23.9 1.2
SERD (% GDP) GERD per researcher Researchers per thousand labour force fertiary graduates from STEM programmes (%) mputs of RDI in business enterprises GERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) irims that spend on R&D (%) mputs of societal innovation	108 n/a n/a 86	1.2
SERD per researcher Researchers per thousand labour force Fertiary graduates from STEM programmes (%) nputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation	n/a n/a 86	
Researchers per thousand labour force fertiary graduates from STEM programmes (%) nputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation	n/a 86	n/a
Tertiary graduates from STEM programmes (%) nputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation	86	
nputs of RDI in business enterprises SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation		n/a
SERD performed by business enterprises (%) SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation		46.6
SERD financed by business enterprises (%) Researchers in business enterprises (%) Firms that spend on R&D (%) nputs of societal innovation	121	7.1
Researchers in business enterprises (%) firms that spend on R&D (%) nputs of societal innovation	76	0.6
Firms that spend on R&D (%) nputs of societal innovation	79	8.6
nputs of societal innovation	n/a	n/a
	91	12.1
	110	22.6
ligh-skilled employment (%)	81	24.8
ntellectual property payments (% total trade)	109	2.7
State of cluster development	111	40.2
Dutputs	104	28.6
Dutputs of R&D institutions	76	35.5
Average documents per researcher	n/a	n/a
Citations per document	132	11.5
Resident patent applications (per 100 billion GDP)	38	59.6
Dutputs of RDI in business enterprises	103	19.7
ntellectual property receipts (% total trade)	76	9.6
ndustrial design applications (per 100 billion GDP)	105	37.3
PCT applications (per 100 billion GDP)	66	2.6
irms producing new products and services (%)	71	29.3
Dutputs of societal innovation	116	23.8
Frademark applications (per 100 billion GDP)	87	9.8
Cultural goods exports (% exports)	94	55.4
Printing and publishing output (% manufactured output)	94	6.3
mpact	113	18.1
• Quality	129	10.9
Research institutions prominence	121	2
Growth of innovative companies	111	41
	138	0.5
SO 9001 quality certificates (per billion GDP)		
SO 14001 environmental certificates (per billion GDP)	139	0.2
inkages	117	5.5
GERD financed from abroad (%)	71	8.3
loint ventures per strategic alliance deals (per billion GDP)	82	3.7
Computer software spending (% GDP)	102	4.4
Business development	71	27.0
New business density per thousand population		37.8



# **KYRGYZSTAN**

	Rank	
INFORMATION AND COMMUNICATIONS TECHNOLOGY	80	44.9
Infrastructure	91	48.7
Coverage	71	57.9
3G/4G mobile network coverage (% population)	47	99.1
Secure Internet servers per 1 million population	82	47.2
Investment in telecommunication services (% GDP)	56	27.4
Quality	90 95	12.4
Mobile upload and download speeds Fixed-broadband upload and download speeds	95 76	° 17.5
Fixed-broadband upload and download speeds	89	11.7
Affordability	93	75.8
Fixed broadband basket (% GNI per capita)	94	58.9
Mobile broadband basket (% GNI per capita)	75	93.4
Internet and telephony competition	103	75
Access	79	40.9
Subscriptions	61	64.8
Active mobile-broadband subscriptions per hundred inhabitants	77	44.8
International Internet bandwidth per user	70	56.2
Households with Internet access at home (%)	34	93.3
Skills and employment	94	17
Individuals with standard ICT skills (%)	n/a	n/a
Tertiary graduates from ICT programmes (%)	84	23.2
ICT employment (%)	72	10.8
Usage	77	45.2
Services	64	52.7
Government online services	84	60.7
Fixed broadband Internet traffic per subscription	74	19.8
Mobile broadband Internet traffic per subscription	8	52.7
Internet users (%)	76	77.5
Outcomes	88	37.8
ICT PCT patent applications (per 100 billion GDP)	44	50.6
E-participation	89	46.6
	89 n/a	46.6 n/a
E-participation Internet activities by individuals (%) Trade in digitally deliverable services (% total trade)		
Internet activities by individuals (%)	n/a	n/a
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade)	n/a 118	n/a 16.3
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY	n/a 118 105	n/a 16.3 45
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP)	n/a 118 105 111	n/a 16.3 <b>45</b> <b>42.2</b> 38.6 37.5
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP) Logistics performance	n/a 118 <b>105</b> 111 121 80 122	n/a 16.3 <b>45</b> <b>42.2</b> 38.6 37.5 32.5
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	n/a 118 <b>105</b> 111 121 80 122 131	n/a 16.3 <b>45</b> <b>42.2</b> 38.6 37.5 32.5 11.3
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	n/a 118 <b>105</b> 111 121 80 122 131 74	n/a 16.3 <b>45</b> <b>42.2</b> 38.6 37.5 32.5 11.3 73.3
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	n/a 118 <b>105</b> 111 121 80 122 131 74 74	n/a 16.3 45 42.2 38.6 37.5 32.5 11.3 73.3 45.7
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY 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	n/a 118 <b>105</b> 111 121 80 122 131 74 104 36	n/a 16.3 45 42.2 38.6 37.5 32.5 11.3 73.3 45.7 93
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	n/a 118 105 111 121 80 122 131 74 104 36 57	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1
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 Ecase of starting a business Insolvency recovery rate Entrepreneurial employee activity rate	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a	n/a 16.3 <b>45</b> 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 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 Ecase of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0
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 agiilty Ease of starting a business Insolvency recovery rate Entrepreneurial employee activity rate Extent of corporate transparency ECONOMIC Competitive transpar	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 111 82	n/a 16.3 45 42.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 0 447.1
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	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92	n/a 16.3 45 42.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 44.6
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)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92 32	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 46.6 29.2
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 Trade and diversification Trade (% GDP) High-technology trade (% total trade)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 111 82 92 32 32	n/a 16.3 42.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 1 46.6 29.2 22
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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 111 82 92 32 32 48 118	n/a 16.3 42.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 1 46.6 29.2 22 22 55.9
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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 104 36 57 82 92 32 32 48 118 108	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 29.2 22 22 56.9 78.4
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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Elonacial openness	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 111 82 92 32 32 48 118	n/a 16.3 45.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 1,7 8 44.1 1,7 2,2 2,2 5,6,9 7,8,4 4,7,7 1,8 1,9 1,9 1,9 1,9 1,9 1,9 1,9 1,9
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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Einancial openness Chinn-Ito financial openness	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 111 82 92 32 48 118 118 108	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 29.2 22 22 56.9 78.4
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 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)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 111 82 92 32 48 118 108 118 108 77 69	n/a 16.3 45.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 1,7 9 44.1 20.2 22 56.9 78.4 47.7 53.8
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 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 Einancial openness Chinn-Ito financial openness Eoreign direct investment, net inflows (% GDP)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 104 36 57 2 32 32 48 118 108 77 69 84	n/a 16.3 45.2 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 1.4 6.6 29.2 22 56.9 78.4 47.7 53.8 39.4
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY ECONOMY 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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Financial openness Eoreign direct investment, net inflows (% GDP) Debt dynamics Enterpenation Enterpenation Enterpenation Enterpenation Enterpenation Enterpenation Extent of corporate transparency Extent of concentration Enterpenation Enterpenation Enterpenation Enterpenation Enterpenation Enterpenation Extent of concentration Enterpenation Extent of concentration Enterpenation Enterp	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 104 36 57 2 104 32 48 118 108 77 69 84 79 69 84 79 100	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 46.6 29.2 22 22 56.9 78.4 47.7 53.8 39.4 49.9
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY ECONOMY ECONOMY ECONOMY ECONONIC 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 Financial openness Eoreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92 32 48 118 108 77 69 84 79	n/a 16.3 <b>45</b> 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 2 2 2 56.9 78.4 47.7 53.8 39.4 49.9
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY ECONOMY 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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics EIONOMIC openstic value added Financing and taxes Domestic credit to private sector (% GDP)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 104 36 57 2 104 32 32 48 118 108 77 69 84 118 108 77 69 84 109 84 109 84 109 84 109 84 109 84 109 85	n/a         16.3         45         38.6         37.5         32.5         11.3         73.3         45.7         93         44.1         n/a         0         44.1         10         44.1         292         56.9         78.4         47.7         53.8         39.4         49.9         44.9         52.9
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY 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 Trade and diversification Trade (% GDP) High-technology trade (% total trade) Product concentration Market concentration Financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics EIONOMIC OPENDES EIONOM	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 104 36 57 14 82 92 32 32 48 118 108 77 69 84 118 108 77 69 84 118 108 77	n/a 16.3 45 38.6 37.5 32.5 11.3 73.3 45.7 93 44.1 n/a 0 44.1 46.6 29.2 22 22 22 22 22 56.9 78.4 47.7 53.8 39.4 49.9 39.4 49.9 2 52.9 8.7
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY ECONOMY ECONOMY ECONOMY ECONONIC 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 Foreign direct investment, net inflows (% GDP) Debt dynamics EInancing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 104 36 57 2 104 32 32 32 48 118 108 77 69 84 108 77 69 84 108 77 69 84 108 77 69 84 108 77 69 84 109 78 100 78 79 70 76 76	n/a         16.3         45         38.6         37.5         32.5         11.3         73.3         45.7         93         44.1         n/a         0         44.1         10         44.1         292         56.9         78.4         47.7         53.8         39.4         49.9         45.7         52.9         8.7         72.1
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 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 Foreign direct investment, net inflows (% GDP) Debt dynamics EInancing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92 32 32 32 32 48 118 108 77 69 84 108 77 69 84 108 77 69 84 108 77 69 84 108 77 69 84 109 84 79 100 95 115 76 33	n/a         16.3         45         38.6         37.5         32.5         11.3         73.3         45.7         93         44.1         n/a         0         44.1         10         44.1         292         56.9         78.4         47.7         53.8         39.4         49.9         45.7         52.9         8.7         72.1         73.4
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY ECONOMY ECONOMY ECONOMY ECONOMY 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 EInancial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics EInancing and taxes Domestic credit to private sector (% GDP) MSME financing gap (% GDP) Tax and contribution rate (% profit) Bank non-performing loans (%) Domestic value added EOUNE	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92 32 32 32 32 32 32 32 32 32 32 32 32 32	n/a         16.3         45         38.6         37.5         32.5         11.3         73.3         45.7         93         44.1         n/a         0         47.1         46.6         29.2         22         56.9         78.4         47.7         53.8         39.4         49.9         45.7         52.9         8.7         72.1         73.4         57.3
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY ECONOMY ECONOMY ECONOMY ECONONIC 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) Debt dynamics EINANCIAL OPINIES 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	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92 32 32 32 32 32 32 32 32 32 32 32 32 32	n/a         16.3         45         38.6         37.5         32.5         11.3         73.3         45.7         93         44.1         n/a         0         47.1         46.6         29.2         25.9         78.4         47.7         53.8         39.4         49.9         45.7         52.9         8.7         72.1         73.4         57.3         38.5
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP)	n/a 118 105 111 121 80 122 131 74 104 36 57 n/a 111 82 92 32 32 32 32 32 32 32 32 32 32 32 32 32	n/a         16.3         45         38.6         37.5         32.5         11.3         73.3         45.7         93         44.1         n/a         0         47.1         46.6         29.2         25.9         78.4         47.7         53.8         39.4         49.9         45.7         52.9         8.7         72.1         73.4         57.3         38.5         2.2

	Rank Value
ENABLING ENVIRONMENT	110 45
Governance	126 20.5
Political environment	107 27.2
Peace and stability	102 25.5
Voice and accountability	104 29
Quality of institutions	133 13.7
Rule of law	132 12.7
Control of corruption	135 10.4
Government effectiveness	121 17.9
Socio-economic	97 47.9
Gender equity	130 47.2
Female-to-male ratio in parliament	93 26.7
Female-to-male labour force participation	102 67.6
Female-to-male ratio in Internet usage	n/a n/a
Social inclusion	68 70.1
Social protection coverage (% population)	77 41.4
Adult literacy rate	13 99.4
Youth not in employment, education or training (%)	68 69.5
Standard of living	104 26.5
Poverty headcount ratio (% population)	87 48.7
GDP per capita	109 4.2
Health and environment	48 66.7
Health	82 73.3
Universal health coverage	81 68.5
Healthy life expectancy (years)	73 64.7
Under-five mortality rate	86 86.7
Environmental performance	48 60.2
Renewable energy consumption (%)	67 28.7
Ecological footprint per capita	40 90.8
Natural hazard exposure	74 61

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