

NEPAL

KEY INDICATORS

GDP (US\$ billions): 144.31 Population: 29,694,615

HDI: 0.601

GKI RANK 112/141

GKI 37.7 SCORE **WORLD** 47.8 **AVERAGE**

COUNTRY PERFORMANCE SUMMARY

Nepal is a modest performer in terms of its knowledge infrastructure. It ranks 112th out of 141 countries in the Global Knowledge Index 2024 and 16th out of the 24 countries with medium human development.

AREAS OF STRENGTH

- Gross enrolment ratio in early childhood education
- Ecological footprint per capita
- Gross attendance ratio for tertiary education, gender parity
- Firms constrained with inadequately educated workforce (%)
- Cultural goods exports (% exports)

AREAS OF IMPROVEMENT

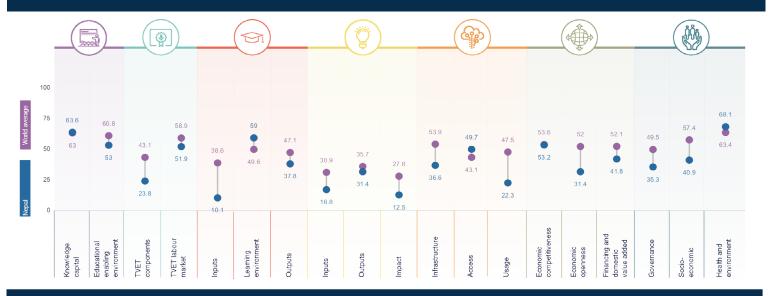
- Pupil-teacher ratio in tertiary education
- Market concentration
- Fixed broadband Internet traffic per subscription
- Mobile broadband Internet traffic per subscription
- Firms with products and services new to the market (%)

SECTORAL INDICES





GKI PILLARS





NEPAL

	Rank	Rank Value	
PRE-UNIVERSITY EDUCATION	91	58.3	
Knowledge capital	82	63.6	
Enrolment	74	87.3	
Net enrolment rate in primary education	71	92.7	
Net enrolment rate in lower secondary education	76	92.1	
Net enrolment rate in upper secondary education	70	77.3	
Completion	96	56.2	
Years of compulsory education in primary and secondary	106	61.5	
Completion rate in upper secondary education	81	35.7	
Gross intake ratio to the last grade of lower secondary education	16	71.3	
Outcomes	62	47.3	
Assessment of 15-year-old students in math, science and reading	n/a	n/a	
_earning-adjusted years of schooling	86	47.3	
Educational enabling environment	96	53	
Expenditure	86	27.8	
Government expenditure on primary education (% GDP)	50	36.6	
Government expenditure on secondary education (% GDP)	66	29.5	
Government funding per primary student (% GDP per capita)	84	28.7	
Government funding per secondary student (% GDP per capita)	97	16.6	
Resources	108	60.6	
Pupil-trained teacher ratio in primary education	40	89	
Pupil-trained teacher ratio in secondary education	77	68	
Schools with access to computers in primary education (%)	97	27.3	
Schools with access to computers in secondary education (%)	98	58.2	
Early learning	44	68.8	
Gross enrolment ratio in early childhood education	6	81.4	
Proportion of children who are developmentally on track	43	44.8	
Proportion of children with stimulating home learning environments	17	63.2	
Pupil-trained teacher ratio in pre-primary education	45	85.5	
Equity and inclusiveness	77	54.8	
Equity and inclusiveness Completion rate in upper secondary education, gender parity	77 52	54.8 91.7	
Completion rate in upper secondary education, gender parity	52	91.7	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity	52 53	91.7 20.7	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity	52 53 75	91.7 20.7 52	
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	52 53 75 127	91.7 20.7 52 37.8	
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	52 53 75 127 139	91.7 20.7 52 37.8 23.8	
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	52 53 75 127 139	91.7 20.7 52 37.8 23.8 24.4	
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 (%)	52 53 75 127 139 121 107	91.7 20.7 52 37.8 23.8 24.4 13.5	
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	52 53 75 127 139 121 107 n/a	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a	
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	52 53 75 127 139 121 107 n/a 47	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3	
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	52 53 75 127 139 121 107 n/a 47	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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 (%)	52 53 75 127 139 121 107 n/a 47 130	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2	
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	52 53 75 127 139 121 107 n/a 47 130 71 117	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a	
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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.6 9.2 1.9 n/a 41.5	
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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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 (%)	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65	91.7 20.7 52 37.8 23.8 24.4 13.5 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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 the labour market Efficiency of skilled production workers	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65 12 89	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2 92.8 49.1	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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 Efficiency of the labour market Firms constrained with inadequately educated workforce (%) Employment educational mismatch (%)	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65 12 89 32	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 92.8 49.1 76.6	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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 Efficiency of the labour market Efficiency of skilled production workers Unemployment educational mismatch (%) Proportion of skilled production workers Unemployment rate with vocational education Post-TVET employment	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65 12 89 32 98	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2 92.8 49.1 76.6 62.5	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65 12 89 32 98 110	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2 92.8 49.1 76.6 62.5 30.3	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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 (%)	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65 12 89 32 98 110 76	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2 92.8 49.1 76.6 62.5 30.3 53.5	
Completion rate in upper secondary education, gender parity Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, wealth 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	52 53 75 127 139 121 107 n/a 47 130 71 117 n/a 72 110 105 26 29 106 65 12 89 32 98 110 76 130	91.7 20.7 52 37.8 23.8 24.4 13.5 n/a 35.3 5.5 9.2 1.9 n/a 41.5 47.9 43.8 37.7 36.6 51.9 70.2 92.8 49.1 76.6 62.5 30.3 53.5 7	

MIGHER EDUCATION			
Imputs 133 10.1 Expandative 79 20.2 Covernment expanditure per tertiary student 107 1.4 Teaching staff compensation (% tertiary expenditure) 48 39 Enrolment in stachelor's or equivalent level (%) 95 11.8 Enrolment in stachelor's or equivalent (%) 83 3.5 Reaccachers in bit interlary education 119 0 Reaccachers in bit interlary education (%) n/a n/a Learning environment 46 59 Diversity and academic freedom 8 75.9 Teachers in tertiary education, gender parity n/a n/a Inchancin Interlary education (mobility rate n/a n/a Academic freedom 67 75.9 Equily and inclusivess 46 62 Gross attendance ratio for tertiary education, gender parity 45 5.9 Cross attendance ratio for tertiary education, pender parity 45 5.9 Cross attendance ratio for tertiary education, pender parity 45 2.9 Cross attendance ratio for tertiary education, pender		Rank	Value
Experimentaries 70 20.2	HIGHER EDUCATION	112	35.6
Government oppenditure per tertiary student 107 1.4 Teaching staff compensation (% tertiary expenditure) 48 39 Enrolment in bachelor's or equivalent level (%) 95 11.8 Enrolment in bachelor's or equivalent level (%) 83 8.5 Enrolment in master's, doctoral or equivalent (%) 83 8.5 Resources 130 0 Publishancher ratio in tertiary education 10 0 Researchers in higher education (%) na 7.6 Tachens in tertiary education, gender parity na n/a Inhouse a decidence freedom 7.7 7.5 Equily and inclusivemess 46 42 Gross attendance ratio for tertiary education, gender parity 45 5.9 Gross attendance ratio for tertiary education, earlier participation 48 5.2 Gross attendance ratio for tertiary education, earlier participation 48 5.2 Gross attendance ratio for tertiary education, earlier participation 48 5.1 Gross attendance ratio for tertiary education, earlier participation 48 5.1 Gross attendance ratio for	Inputs	133	10.1
Teaching staff compensation (% tertiany expenditure) 48 39 Encoinment 94 10.1 Enroimment in bashelor's or equivalent (%) 95 11.8 Enroimment in in master's, doctoral or equivalent (%) 33 8.5 Resources 130 0 Pupil-leacher ratio in tertiany education (%) n/a n/a Learning environment 46 59 Diversity and academic freedom 87 75.9 Eacher in in fetting education, gender parity n/a n/a Intendem in fetting education, gender parity 8 95 Gross attendance ratio for tertiany education, gender parity 45 25 Gross attendance ratio for tertiany education, gender parity 45 25 Gross attendance ratio for tertiany education, parity 45 5.9 Gross attendance ratio for tertiany education, parity 45 5.9 Gross attendance ratio for tertiany education, parity 45 2.2 Outputs 110 37.8 Attainment 100 7.7 Educational attainment rate, decirally expressive	Expenditure	79	20.2
Enroiment in bachelor's or equivalent level (%) 95 11.8 Enroiment in bachelor's or equivalent (%) 95 11.8 Enroiment in master's, doctoral or equivalent (%) 95 18.5 Resources 130 0 Pupil-bacher ratio in tertiary education 119 0 Researcher's in higher education (%) n/a n/a Learning environment 46 59 Diversity and academic freedom 8 7.59 Teacher's in bertiary education, gender parity n/a n/a Academic freedom 67 7.59 Equity and inclusiveness 46 42 Gross attendance ratio for tertiary education, gender parity 45 5.59 Gross attendance ratio for tertiary education, location parity 52 25.1 Outputs 110 7.7 5.9 Gross attendance ratio for tertiary education, location parity 52 25.1 Outputs 110 7.7 2.9 Equity and a cade and acceptance an	Government expenditure per tertiary student	107	1.4
Enrolment in bachelor's or equivalent (%) 85 8.5 Enrolment in master's, doctoral or equivalent (%) 83 8.5 Resources 130 0.0 Pupil-leacher ratio in teritary education 110 0 Researchers in higher education (%) n/a n/a Dreathy and academic freedom 8 75.5 Teachers in tertiary education, gender parity n/a n/a Inbound mobility rate n/a n/a Academic freedom 67 75.5 Equity and inclusiveness 46 42 Gross attendance ratio for tertiary education, gender parity 8 56 Gross attendance ratio for tertiary education, beating parity 8 56 Gross attendance ratio for tertiary education, beating parity 82 25.1 Outputs 110 37.8 Attainment 100 3.3 Educational attainment rate, beachedr's or equivalent 101 3.7 Educational attainment rate, doctoral or equivalent 101 3.7 Educational attainment rate, doctoral or equivalent 101	Teaching staff compensation (% tertiary expenditure)	48	39
Enroliment in master's, doctoral or equivalent (%) Resources 130 0 Pupuli-seacher ratio in teritary education Researchers in higher education (%) Rasearchers in higher education (%) Robert in thigher education (%) Robert in higher education, gender parity Robert in higher education eratio for teritary education, gender parity Robert in higher education eratio for teritary education, location parity Robert in higher education eratio for teritary education, location parity Robert in higher education eratio for teritary education, location parity Robert in higher education eratio for teritary education, location parity Robert in higher education eration eratio	Enrolment	94	10.1
Resourcios 130 0 Pupil-laceher ratio in tertiary education 119 0 Researchers in higher education (%) n/a n/a n/a Learning environment 46 59 Diversity and academic freedom 8 75.9 Teachers in bertiary education, gender parity n/a n/a Included microsome 67 75.9 Equity and inclusiveness 44 42 Gross attendance ratio for teritary education, gender parity 5 5.9 Gross attendance ratio for teritary education, location parity 5 5.9 Gross attendance ratio for teritary education, location parity 5 5.9 Gross attendance ratio for teritary education, location parity 5 2.9 Gross attendance ratio for teritary education, location parity 5 2.5 Atlainment 101 3.7 3.8 Atlainment 101 3.8 4.2 Cuty tis 13 6.4 6.1 1.2 Educational attainment rate, bachelor's or equivalent 10 9.3 <	Enrolment in bachelor's or equivalent level (%)	95	11.8
Pupil-leacher ratio in tertiary education (%) n/a n/a Researchers in higher education (%) n/a n/a December and academic freedom 8 75.5 Teachers in tertiary education, gender parity n/a n/a Inbound mobility rate n/a n/a Academic freedom 67 75.9 Equity and inclusiveness 46 42 Gross attendance ratio for tertiary education, wealth parity 55 5.9 Gross attendance ratio for tertiary education, location parity 52 2.51 Outputs 110 37.8 Attainment 101 7.7 Educational attainment rate, bechelor's or equivalent 104 6.1 Educational attainment rate, doctoral or equivalent 104 6.2 Unemployment at with advanced education 122 6.2 University industry collaboration	Enrolment in master's, doctoral or equivalent (%)	83	8.5
Researchers in higher education (%) n/a n/a Learning environment 46 59 Diversity and academic freedom 87 75 Teachers in intertiary education, gender parity n/a n/a Crachers in tertiary education, gender parity 48 42 Gross attendance ratio for tertiary education, gender parity 48 42 Gross attendance ratio for tertiary education, location parity 52 59 Gross attendance ratio for tertiary education, location parity 52 59 Gross attendance ratio for tertiary education, location parity 52 59 Gross attendance ratio for tertiary education, location parity 52 59 Gross attendance ratio for tertiary education, location parity 45 59 Gross attendance ratio for tertiary education, location parity 45 59 Gross attendance ratio for tertiary education, location parity 41 61 Educational attainment rate, decoration of equivalent 10 77 Educational attainment rate, decoration of equivalent 11 77 Educational attainment rate, decoration of equivalent 11	Resources	130	0
Learning environment 46 59 Obversity and academic freedom 8 7.59 Teachers in tertiary education, gender parity n/a n/a Includent in Includin mobility rate 67 7.59 Equity and Includiveness 48 42 Greas attendance ratio for tertiary education, gender parity 45 59 Gross attendance ratio for tertiary education, location parity 52 25.1 Outputs 110 37.8 Attainment 100 9.3 Educational attainment rate, bachelor's or equivalent 106 9.3 Educational attainment rate, doctoral or equivalent 106 9.3 Educational attainment rate, doctoral or equivalent 112 60.2 Unemployment rate with advanced education 122 60.2 Unemployment rate with advanced education 128 7.2 Unemployment rate with advanced education 12 60.2 Unemployment rate with advanced education 12 60.2 Unemployment rate with advanced education 12 60.2 Unemployment rate with advanced	Pupil-teacher ratio in tertiary education	119	0
Diversity and academic freedom 8 75.9 Teachers in tertary education, gender parity n/a n/a Inbound mobility rate n/a n/a Academic freedom 67 75.9 Equity and inclusiveness 46 42 Gross attendance ratio for tertiary education, gender parity 8 55 Gross attendance ratio for tertiary education, usealth parity 55.9 Gross attendance ratio for tertiary education, usealth parity 55.9 Gross attendance ratio for tertiary education, usealth parity 55.9 Gross attendance ratio for tertiary education, usealth parity 57.9 Gross attendance ratio for tertiary education, usealth parity 57.9 Gross attendance ratio for tertiary education, usealth parity 57.9 Gross attendance ratio for tertiary education, usealth parity 57.9 Gross attendance ratio for tertiary education, usealth parity 57.9 Gross attendance rate, backbelor's or equivalent 101 7.7 Educational attainment rate, backbelor's or equivalent 112 60.8 Educational attainment rate, doctoral or equivalent 112 60.8 Educational attainment rate, doctoral or equivalent 112 60.8 Labour force participation rate with advanced education 98 72.5 Impact 112	Researchers in higher education (%)	n/a	n/a
Teachers in tertiany education, gender parity n/a n/a Inbound mobility rate n/a	Learning environment	46	59
Teachers in tertiary education, gender parity n/a	Diversity and academic freedom	8	75.9
Include mobility rate Academic freedom 67 75.8 Equity and inclusiveness 67 68 22 Equity and inclusiveness 67 67.8 Gross attendance ratio for tertiary education, gender parity 67 5.9 Gross attendance ratio for tertiary education, location parity 67 5.9 Gross attendance ratio for tertiary education, location parity 68 5.9 Gross attendance ratio for tertiary education, location parity 69 22 5.1 Outputs 110 37.8 Educational attainment rate, bachelor's or equivalent 60 9.3 Educational attainment rate, bachelor's or equivalent 60 9.3 Educational attainment rate, bachelor's or equivalent 60 9.3 Educational attainment rate, decloral rate, decloration rate with advanced education 60 9.3 Educational attainment rate, decloration		n/a	n/a
Equity and inclusiveness 46 42 Gross attendance ratio for tertiary education, wealth parity 45 5.9 Gross attendance ratio for tertiary education, wealth parity 45 5.9 Corsos attendance ratio for tertiary education, location parity 52 25.1 Outputs 110 37.8 Attainment 101 7.7 Educational attainment rate, bachelor's or equivalent 106 9.3 Educational attainment rate, bachelor's or equivalent 104 6.1 Employment 113 66.4 2.0 Labour force participation rate with advanced education 124 60.2 Unemployment rate with advanced education 124 60.2 Unemployment rate with advanced education 124 60.2 University-industry collaboration in R&D 96 39.4 Cliable documents per R&D personnel in higher education 124 16.8 Imputs 124 16.8 16.8 Inputs of R&D institutions 124 16.8 GERD (% GDP) 124 16.8 Inputs of R&D in		n/a	n/a
Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, wealth parity Gross attendance ratio for tertiary education, location parity 52 25.1 Gross attendance ratio for tertiary education, location parity 53 25.1 Attainment 101 37.8 Attainment 101 7.7 Educational attainment rate, bachelor's or equivalent Educational attainment rate, bachelor's or equivalent Educational attainment rate, doctoral or equivalent Labour force participation rate with advanced education 124 60.2 Labour force participation rate with advanced education 128 63 39.4 Labour force participation rate with advanced education 129 60.2 Limpact Li	Academic freedom	67	75.9
Gross attendance ratio for tertiary education, gender parity Gross attendance ratio for tertiary education, wealth parity Gross attendance ratio for tertiary education, location parity 52 25.1 Gross attendance ratio for tertiary education, location parity 53 25.1 Attainment 101 37.8 Attainment 101 7.7 Educational attainment rate, bachelor's or equivalent Educational attainment rate, bachelor's or equivalent Educational attainment rate, doctoral or equivalent Labour force participation rate with advanced education 124 60.2 Labour force participation rate with advanced education 128 63 39.4 Labour force participation rate with advanced education 129 60.2 Limpact Li		46	
Gross attendance ratio for tertiary education, wealth parity 45 5.9 Gross attendance ratio for tertiary education, location parity 52 25.1 Outputs 110 37.8 Attainment 100 7.7 Educational attainment rate, bachelor's or equivalent 84 6.1 Educational attainment rate, doctoral or equivalent n/a r/a Educational attainment rate, doctoral or equivalent 113 66.4 Employment 131 66.4 60.2 Unemployment rate with advanced education 124 60.2 Unemployment rate with advanced education 98 72.5 Impact 65 39.4 University-industry collaboration in R&D 96 39.4 University-industry collaboration in R&D 10 16 8.8 ERSEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs </td <td></td> <td>8</td> <td>95</td>		8	95
Gross attendance ratio for tertiary education, location parity 52 25.1 Outputs 110 37.8 Attainment 101 7.7 Educational attainment rate, bachelor's or equivalent 106 9.3 Educational attainment rate, doctoral or equivalent n/a n/a Educational attainment rate, doctoral or equivalent 113 66.4 Labour force participation rate with advanced education 124 60.2 Impact 65 39.4 University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a n/a Imputs 124 16.3 19.4 16.8 Imputs of R&D institutions 125 20.2 19.2 Inputs of R&D institutions 124 16.3 16.3 Imputs of R&D institutions 125 20.2 19.2 Inputs of R&D institutions 125 20.2 19.2 Imputs of R&D institutions 125 20.2 19.2 Imputs of R&D institutions 125 </td <td></td> <td>-</td> <td></td>		-	
Outputs 110 37.8 Attainment 101 7.7 Educational attainment rate, bachelor's or equivalent 106 9.3 Educational attainment rate, master's or equivalent n/a n/a Educational attainment rate, doctoral or equivalent 113 66.4 Employment 113 66.4 Labour force participation rate with advanced education 124 60.2 Unemployment rate with advanced education 18 72.5 University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a Imputs 180 180 180 98.4 Citable decuments per R&D personnel in higher education n/a n/a n/a n/a n/a n/a n/a n/			
Attainment			
Educational attainment rate, bachelor's or equivalent 84 6.1 Educational attainment rate, master's or equivalent 84 6.1 Educational attainment rate, doctoral or equivalent n/a n/a Employment 113 66.4 Labour force participation rate with advanced education 124 60.2 University-industry collaboration in R&D 65 39.4 University-industry collaboration in R&D 96 39.4 University-industry collaboration in R&D 125 20.2 Inputs 124 16.8 RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs of R&D institutions n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs of R&D institutions n/a n/a GERD (% GDP) n/a n/a GERD framed in STEM programmes (%) n/a n/a GERD framed by business enterprises (%) n/a n/a GERD framed by business enterprises (%) n/a n/a Firms that spend on R&D (%) 110 4.1 <td></td> <td></td> <td></td>			
Educational attainment rate, master's or equivalent 84 6.1 Educational attainment rate, doctoral or equivalent n/a n/a Employment 113 66.4 Labour force participation rate with advanced education 124 60.2 University-industry collaboration in R&D 65 39.4 Citable documents per R&D personnel in higher education n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs of R&D institutions n/a n/a GERD (% GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a 127 and pubs of RDI in business enterprises 129 4.1 GERD performed by business enterprises (%) n/a n/a GERD performed by business enterprises (%) n/a n/a GERD financed by business enterprises (%) n/a n/a GERD financed invovation 82 20.2			
Educational attainment rate, doctoral or equivalent n/a n/a Employment 113 66.4 Labour force participation rate with advanced education 124 60.2 Unemployment rate with advanced education 98 72.5 Impact 65 39.4 University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 126 6.0 20.2 Inputs 127 16.8 16.8 Inputs 128 1.0 1.0 1.1 GERD per GRAD institutions n/a n/a n/a n/a 1.4 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	•		
Employment 113 66.4 Labour force participation rate with advanced education 124 60.2 Unemployment rate with advanced education 98 72.5 Impact 65 39.4 Citable documents per RAD personnel in higher education n/a n/a Citable documents per RAD personnel in higher education n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 Inputs GRD (% GDP) n/a n/a GERD (% GDP) n/a n/a GERD per searcher n/a n/a Researchers per thousand labour force n/a n/a GERD per searcher n/a n/a Researchers per thousand labour force n/a n/a GERD per searcher n/a n/a Clabia per per thousand labour force n/a n/a GERD per searcher by thousands senterprises 129 4.1 GERD performed by business enterprises 129 4.1 GERD finace by business enterprises (%) n/a<		•	
Labour force participation rate with advanced education 124 60.2 Unemployment rate with advanced education 98 72.5 Impact 65 39.4 Citable documents per R&D personnel in higher education n/a 96 39.4 Citable documents per R&D personnel in higher education n/a n/a n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 Inputs of R&D institutions n/a n/a n/a n/a n/a GERD (% GDP) n/a n/a </td <td></td> <td></td> <td></td>			
University-industry collaboration in R&D 98 72.5 Impact 65 39.4 University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 18.8 Inputs of R&D institutions n/a n/a GERD (% GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 GERD per formed by business enterprises (%) n/a n/a GERD per formed by business enterprises (%) n/a n/a GERD per formed by business enterprises (%) n/a n/a GERD per formed by business enterprises (%) n/a n/a GERD per formed by business enterprises (%) n/a n/a High-skilled employment (%) 15 16.2			
Impact 65 39.4 University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 Inputs of R&D institutions n/a n/a GERD (GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 GERD performed by business enterprises (%) n/a n/a GERD financed by business enterprises (%) n/a n/a GERD financed by business enterprises (%) n/a n/a GERD financed by business enterprises (%) n/a n/a Morance financed financ			
University-industry collaboration in R&D 96 39.4 Citable documents per R&D personnel in higher education n/a n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 Inputs 124 16.8 Inputs 0f R&D institutions n/a n/a n/a of R&D (R&D) n/a n/a			
Citable documents per R&D personnel in higher education n/a n/a RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 Liputs of R&D institutions n/a n/a GERD (W GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 GERD performed by business enterprises (%) n/a n/a GERD financed 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 (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a Outputs of R&D institutions 80 34.2 Average d			
RESEARCH, DEVELOPMENT AND INNOVATION 125 20.2 Inputs 124 16.8 Inputs of R&D institutions n/a n/a GERD (% GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Imputs of RDI in business enterprises 129 4.1 GERD performed by business enterprises (%) n/a n/a GERD performed by business enterprises (%) n/a n/a GERD financed by business enterprises (%) n/a n/a GERD performed by business enterprises (%) n/a n/a GERD performed by business enterprises (%) n/a n/a Imputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a Outputs of Societal innovation 82 32.8 State of cluster development 95 31.4 Outputs of soc			
Inputs 124 16.8 Inputs of R&D institutions n/a n/a GERD (% GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 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 Imputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a Intellectual property payments (% total trade) n/a n/a Outputs of R&D institutions 80 34.2 Reside			
Inputs of R&D institutions n/a n/a GERD (% GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 GERD performed by business enterprises (%) n/a n/a GERD Institutions n/a n/a Researchers in business enterprises (%) n/a n/a Firms that spend on R&D (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 31.4 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102	RESEARCH, DEVELOPMENT AND INNOVATION		20.2
GERD (% GDP) n/a n/a GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 GERD performed by business enterprises (%) n/a n/a GERD financed by business enterprises (%) n/a n/a GERD insuliness enterprises (%) n/a n/a Researchers in business enterprises (%) n/a n/a Firms that spend on R&D (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 31.4 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP)	Inputs	124	16.8
GERD per researcher n/a n/a Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 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 (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 31.4 Outputs 95 31.4 Outputs of R&D institutions 30 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellec	Inputs of R&D institutions	n/a	n/a
Researchers per thousand labour force n/a n/a Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 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 (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a	GERD (% GDP)	n/a	n/a
Tertiary graduates from STEM programmes (%) n/a n/a Inputs of RDI in business enterprises 129 4.1 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 (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 31.4 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 124 0.2 <td>GERD per researcher</td> <td>n/a</td> <td>n/a</td>	GERD per researcher	n/a	n/a
Inputs of RDI in business enterprises 129 4.1 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 (%) 110 4.1 Inputs of societal innovation 82 295 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 22.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 62 15.4	Researchers per thousand labour force	n/a	n/a
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 (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a Outputs 95 42.6 Outputs of cluster development 95 42.6 Outputs of R&D institutions 80 34.2 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Cultuputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 <	Tertiary graduates from STEM programmes (%)	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 (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 <	Inputs of RDI in business enterprises	129	4.1
Researchers in business enterprises (%) n/a n/a Firms that spend on R&D (%) 110 4.1 Inputs of societal innovation 82 29.5 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62	GERD performed by business enterprises (%)	n/a	n/a
Firms that spend on R&D (%) 110 4.1 Inputs of societal innovation 82 295 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 <td>GERD financed by business enterprises (%)</td> <td>n/a</td> <td>n/a</td>	GERD financed by business enterprises (%)	n/a	n/a
Inputs of societal innovation 82 295 High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58	Researchers in business enterprises (%)	n/a	n/a
High-skilled employment (%) 95 16.4 Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5	Firms that spend on R&D (%)	110	4.1
Intellectual property payments (% total trade) n/a n/a State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Cuality 96 2.9	Inputs of societal innovation	82	29.5
State of cluster development 95 42.6 Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Cuellty 96 2.9 Growth of innovative companies 101 42.6 ISO 900	High-skilled employment (%)	95	16.4
Outputs 95 31.4 Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Cuestity 96 2.9 Coughty 62 2.9 Research institutions prominence 79 6.2 Growth of innovative compani	Intellectual property payments (% total trade)	n/a	n/a
Outputs of R&D institutions 80 34.2 Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5	State of cluster development	95	42.6
Average documents per researcher n/a n/a Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 9001 quality certificates (per billion GDP) 65 </td <td>Outputs</td> <td>95</td> <td>31.4</td>	Outputs	95	31.4
Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 68 2.9 Linkages 122 3	Outputs of R&D institutions	80	34.2
Citations per document 82 32.8 Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 68 2.9 Linkages 122 3	Average documents per researcher	n/a	n/a
Resident patent applications (per 100 billion GDP) 102 35.6 Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 9001 quality certificates (per billion GDP) 68 10.5 Ichkages 122 3.8 GERD financed from abroad (%) n/a			
Outputs of RDI in business enterprises 117 16.8 Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 IsO 14001 environmental certificates (per billion GDP) 68 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 <td></td> <td></td> <td></td>			
Intellectual property receipts (% total trade) n/a n/a Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 10.1 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 68 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118			
Industrial design applications (per 100 billion GDP) 113 29.1 PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 10.1 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 <			
PCT applications (per 100 billion GDP) 124 0.2 Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 10.1 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6 <td></td> <td></td> <td></td>			
Firms producing new products and services (%) 86 21.2 Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Outputs of societal innovation 45 40.3 Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6	,		
Trademark applications (per 100 billion GDP) 62 15.4 Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Cultural goods exports (% exports) 14 89.8 Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Printing and publishing output (% manufactured output) 58 15.6 Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Impact 134 12.5 Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Quality 94 15.5 Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Research institutions prominence 79 6.2 Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Growth of innovative companies 101 42.6 ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
ISO 9001 quality certificates (per billion GDP) 68 10.5 ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
ISO 14001 environmental certificates (per billion GDP) 96 2.9 Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6			
Linkages 122 3.8 GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6	ISO 9001 quality certificates (per billion GDP)	68	10.5
GERD financed from abroad (%) n/a n/a Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6	ISO 14001 environmental certificates (per billion GDP)	96	2.9
Joint ventures per strategic alliance deals (per billion GDP) 65 5.9 Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6	Linkages	122	3.8
Computer software spending (% GDP) 118 1.7 Business development 127 18.1 New business density per thousand population 85 5.6	GERD financed from abroad (%)	n/a	n/a
Business development 127 18.1 New business density per thousand population 85 5.6	Joint ventures per strategic alliance deals (per billion GDP)	65	5.9
New business density per thousand population 85 5.6	Computer software spending (% GDP)	118	1.7
Firms with products and services new to the market (%) 114 30.6		127	18.1



NEPAL

	Rank	
INFORMATION AND COMMUNICATIONS TECHNOLOGY	104	36.2
Infrastructure	120	36.6
Coverage	123	35.7
3G/4G mobile network coverage (% population)	132	30
Secure Internet servers per 1 million population	95	41.5
Investment in telecommunication services (% GDP)	n/a	n/a
Quality	100	8.7
Mobile upload and download speeds	133	4
Fixed-broadband upload and download speeds	68	22.1
Fixed-broadband subscriptions by speed per hundred people	127	0.1
Affordability	112	65.3
Fixed broadband basket (% GNI per capita)	106	53
Mobile broadband basket (% GNI per capita)	106	83.7
Internet and telephony competition	116	59.4
Access	50	49.7
Subscriptions	100	49.7
Active mobile-broadband subscriptions per hundred inhabitants	78	44.5
International Internet bandwidth per user	102	50.7
Households with Internet access at home (%)	106	53.8
Skills and employment	n/a	n/a
Individuals with standard ICT skills (%)	n/a	n/a
Tertiary graduates from ICT programmes (%)	n/a	n/a
ICT employment (%)	n/a	n/a
Usage	131	22.3
Services	122	22.3
Government online services	116	44.8
Fixed broadband Internet traffic per subscription	113	0
Mobile broadband Internet traffic per subscription	132	0.4
Internet users (%)	110	44
Outcomes	133	22.4
ICT PCT patent applications (per 100 billion GDP)	n/a	n/a
	1110	100
E-narticination	127	21.9
E-participation	127 n/a	21.9 n/a
Internet activities by individuals (%)	n/a	n/a
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade)	n/a 97	n/a 22.8
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY	n/a 97 120	n/a 22.8 42.1
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness	n/a 97 120 77	n/a 22.8 42.1 53.2
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment	n/a 97 120 77 103	n/a 22.8 42.1 53.2 45.2
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness Infrastructure investment Gross fixed capital formation (% GDP)	n/a 97 120 77 103 41	n/a 22.8 42.1 53.2 45.2 44.2
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 97 120 77 103 41 99	n/a 22.8 42.1 53.2 45.2 44.2 37.8
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 97 120 77 103 41	n/a 22.8 42.1 53.2 45.2 44.2
Internet activities by individuals (%) Trade in digitally deliverable services (% total trade) ECONOMY Economic competitiveness	n/a 97 120 77 103 41 99	n/a 22.8 42.1 53.2 45.2 44.2 37.8
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	n/a 97 120 77 103 41 99 88	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2
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	n/a 97 120 77 103 41 99 88	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7
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	n/a 97 120 77 103 41 99 88 95	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2
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	n/a 97 120 77 103 41 99 88 95 54	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7
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	n/a 97 120 77 103 41 99 88 95 54 109	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7
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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4
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 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 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 37.4
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 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 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 37.4 6.4
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 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 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 1/a 37.4 6.4 22.4
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 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 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 37.4 6.4 22.4 84.7
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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 6.4 22.4 84.7 36.2
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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 6.4 84.7 36.2 25.3
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 Financial openness Chinn-Ito financial openness Chinn-Ito financial openness	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3
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 Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP)	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3 34.4
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 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 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3
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 Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3 34.4
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 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 Financing and domestic value added	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 34.4 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 Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 34.4 n/a 41.8
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 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)	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 6.4 22.4 84.7 36.2 25.3 34.4 n/a 63.7
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 agp (% GDP)	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42 24	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 6.4 22.4 84.7 36.2 25.3 34.4 n/a 63.7 37.1
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 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)	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42 24 52	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 22.4 84.7 36.2 25.3 34.4 n/a 63.7 37.1 77.5
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 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 (%)	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42 24 52 83 71	n/a 22.8 442.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3 34.4 n/a 41.8 63.7 37.1 77.5 57.7
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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42 24 52 83 71 137	n/a 22.8 442.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3 34.4 n/a 41.8 63.7 77.5 57.7 82.6
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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42 24 52 83 71 137 101	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 57.1 31.4 22.4 84.7 36.2 25.3 16.3 34.4 n/a 41.8 63.7 77.5 57.7 82.6 19.9 11.1
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	n/a 97 120 77 103 41 99 88 95 54 109 54 n/a 78 135 128 119 47 38 137 132 88 125 n/a 120 42 24 52 83 71 137	n/a 22.8 42.1 53.2 45.2 44.2 37.8 32.2 66.7 61.2 81.7 44.9 n/a 37.4 6.4 22.4 84.7 36.2 25.3 16.3 34.4 n/a 41.8 63.7 37.1 77.5 57.7 82.6

	Rank Value	
ENABLING ENVIRONMENT	99	48.1
Governance	95	35.3
Political environment	74	41.3
Peace and stability	81	37.7
Voice and accountability	77	44.9
Quality of institutions	103	29.2
Rule of law	91	37.7
Control of corruption	92	34
Government effectiveness	125	16
Socio-economic	117	40.9
Gender equity	124	51.4
Female-to-male ratio in parliament	48	49.5
Female-to-male labour force participation	124	53.3
Female-to-male ratio in Internet usage	n/a	n/a
Social inclusion	126	35.5
Social protection coverage (% population)	101	19
Adult literacy rate	96	60.3
Youth not in employment, education or training (%)	128	27.2
Standard of living	82	35.8
Poverty headcount ratio (% population)	55	68.7
GDP per capita	119	2.9
Health and environment	36	68.1
Health	103	61.8
Universal health coverage	108	53.7
Healthy life expectancy (years)	100	53.7
Under-five mortality rate	100	77.9
Environmental performance	27	74.4
Renewable energy consumption (%)	18	76.5
Ecological footprint per capita	10	97.6
Natural hazard exposure	112	49

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