

RANK 73/141

GKI SCORE

46.4

WORLD AVERAGE

47.8

COUNTRY PERFORMANCE SUMMARY

Moldova (Republic of) is a moderate performer in terms of its knowledge infrastructure. It ranks 73rd out of 141 countries in the Global Knowledge Index 2024 and 15th out of the 35 countries with high human development.

AREAS OF STRENGTH

- Net enrolment rate in primary education
- Net enrolment rate in lower secondary education
- Female-to-male labour force participation
- Employment educational mismatch (%)
- Unemployment rate with vocational education

AREAS OF IMPROVEMENT

- Chinn-Ito financial openness
- Researchers in higher education (%)
- State of cluster development
- GERD per researcher
- Growth of innovative companies

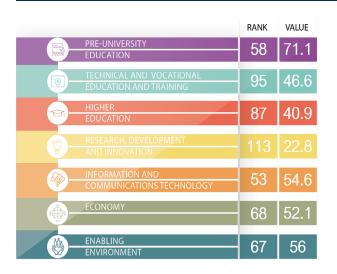
SECTORAL INDICES

KEY INDICATORS

GDP (US\$ billions): 38.969

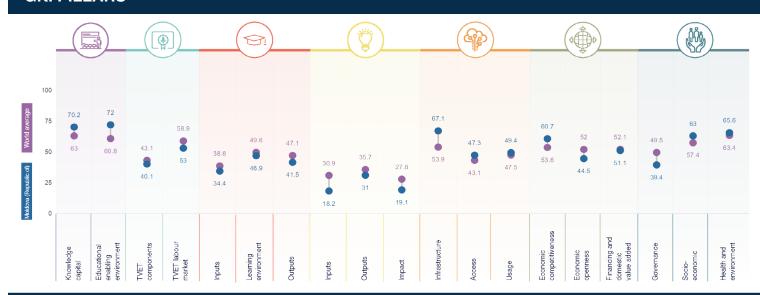
Population: 3,067,070

HDI: 0.763





GKI PILLARS





MOLDOVA (REPUBLIC OF)

PRE-UNIVERSITY EDUCATION 58 71.1 Knowledge capital 69 70.2 Enrolment 47 93.2 Net enrolment rate in imprery education 1 100 Net enrolment rate in imprery education 61 79.6 Completion 61 72.3 Years of compulsory education in primary and secondary 68 89.2 Completion rate in upper secondary education 61 76.4 Outcomes 71 43.5 Assessment of 15-year-old students in math, science and reading 51 41.5 Course of Completion rate in upper secondary education (% GDP) 71 57.3 Educational enabling environment 43 72 Expenditure 44 41.5 Government expenditure on primary education (% GDP) 29 14.6 Government funding per primary student (% GDP per capita) 29 55. Government funding per primary student (% GDP per capita) 43 41.1 Resources 38 97. Pupil-trained teacher ratio in primary education 18 95. <		Rank Value	
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Completion rate in upper secondary education, wealth parity n/a n/a n/a Completion rate in upper secondary education, location parity n/a n/a n/a TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING 95 46.6 TVET components 85 40.1 Continuous training and skilling 112 29.4 Firms offering formal training (%) 43 45.4 Labour force participation rate with short-cycle tertiary education n/a n/a n/a Participation rate in formal and non-formal education and training 117 13.3 TVET structure 62 50.1 Government expenditure on vocational education (%) 47 29.3 Share of students enrolled in secondary vocational programmes 57 21 Share of students enrolled in post-secondary vocational programmes 1 100 TVET quality and qualifications 79 41 Extent of staff training 95 52.6 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 496.5 Post-TVET employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Equity and inclusiveness	n/a	n/a
TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components 85 40.1 Continuous training and skilling 112 29.4 Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training 117 13.3 TVET structure 62 50.1 Government expenditure on vocational education (%) 47 29.3 Share of students enrolled in secondary vocational programmes 57 21 Share of students enrolled in post-secondary vocational programmes 1 100 TVET quality and qualifications 79 41 Extent of staff training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 51.8 Enrolment in vocational education, gender parity 39 85.8			
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Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education n/a n/a Participation rate in formal and non-formal education and training 117 13.3 TVET structure 62 50.1 Government expenditure on vocational education (%) 47 29.3 Share of students enrolled in secondary vocational programmes 57 21 Share of students enrolled in post-secondary vocational programmes 1 100 TVET quality and qualifications 79 41 Extent of staff training 95 52.6 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity	n/a n/a	n/a n/a
Labour force participation rate with short-cycle tertiary education n/a n/a Participation rate in formal and non-formal education and training 117 13.3 TVET structure 62 50.1 Government expenditure on vocational education (%) 47 29.3 Share of students enrolled in secondary vocational programmes 57 21 Share of students enrolled in post-secondary vocational programmes 1 100 TVET quality and qualifications 79 41 Extent of staff training 95 52.8 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 518 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING	n/a n/a 95	n/a n/a 46.6
Participation rate in formal and non-formal education and training 117 13.3 TVET structure 62 50.1 Government expenditure on vocational education (%) 47 29.3 Share of students enrolled in secondary vocational programmes 57 21 Share of students enrolled in post-secondary vocational programmes 1 100 TVET quality and qualifications 79 41 Extent of staff training 95 52.6 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.8 Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.8 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components	n/a n/a 95 85	n/a n/a 46.6 40.1
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TVET quality and qualifications 79 41 Extent of staff training 95 52.6 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure	n/a n/a 95 85 112 43 n/a 117 62	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1
Extent of staff training 95 52.6 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%)	n/a n/a 95 85 112 43 n/a 117 62 47	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3
Extent of staff training 95 52.6 Quality of vocational training 86 49.7 Ratio of high-skill TVET occupations earnings to average wage 58 26.6 Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes	n/a n/a 95 85 112 43 n/a 117 62 47	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3
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Ratio of medium-skill TVET occupations earnings to average wage 39 34.9 TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training	n/a n/a 95 85 112 43 n/a 117 62 47 57 1 79 95	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3 21 100 41 52.6
TVET labour market 103 53 Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training Quality of vocational training	n/a n/a 95 85 112 43 n/a 117 62 47 57 1 79 95 86	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3 21 100 41 52.6 49.7
Efficiency of the labour market 47 72.5 Firms constrained with inadequately educated workforce (%) 107 46.6 Employment educational mismatch (%) 2 99.3 Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training Quality of vocational training Ratio of high-skill TVET occupations earnings to average wage	n/a n/a 95 85 112 43 n/a 117 62 47 57 1 79 95 86 58	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3 21 100 41 52.6 49.7 26.6
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Proportion of skilled production workers 93 47.6 Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training Quality of vocational training Ratio of high-skill TVET occupations earnings to average wage Ratio of medium-skill TVET occupations earnings to average wage TVET labour market Efficiency of the labour market	n/a n/a n/a n/a n/a n/a n/a n/a n/a 112 43 n/a 117 62 47 57 1 79 95 86 58 39 103 47	n/a n/a 46.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3 21 100 41 52.6 49.7 26.6 34.9 53 72.5
Unemployment rate with vocational education 4 96.5 Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training Quality of vocational training Ratio of high-skill TVET occupations earnings to average wage Ratio of medium-skill TVET occupations earnings to average wage TVET labour market Efficiency of the labour market Firms constrained with inadequately educated workforce (%)	n/a n/a n/a n/a n/a n/a n/a n/a 112 43 n/a 117 62 47 57 1 79 95 86 58 39 103 47	n/a n/a 146.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3 21 100 41 52.6 49.7 26.6 34.9 53 72.5 46.6
Post-TVET employment 118 25.2 Share of TVET occupations 118 27.5 Manufacturing employment (%) 99 22.8 Equity and inclusiveness 97 61.4 Enrolment in vocational education, gender parity 39 85.8	Completion rate in upper secondary education, wealth parity Completion rate in upper secondary education, location parity TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING TVET components Continuous training and skilling Firms offering formal training (%) Labour force participation rate with short-cycle tertiary education Participation rate in formal and non-formal education and training TVET structure Government expenditure on vocational education (%) Share of students enrolled in secondary vocational programmes Share of students enrolled in post-secondary vocational programmes TVET quality and qualifications Extent of staff training Quality of vocational training Ratio of high-skill TVET occupations earnings to average wage Ratio of medium-skill TVET occupations earnings to average wage TVET labour market Efficiency of the labour market Firms constrained with inadequately educated workforce (%) Employment educational mismatch (%)	n/a n/a n/a n/a n/a n/a n/a n/a 112 43 n/a 117 62 47 57 1 79 95 86 58 39 103 47 107 2	n/a n/a 146.6 40.1 29.4 45.4 n/a 13.3 50.1 29.3 21 100 41 52.6 49.7 26.6 34.9 53 72.5 46.6 99.3
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Paper Pape		Rank	Value
Page	HIGHER EDUCATION	87	40.9
Covermment expenditure per terifary student	Inputs	96	34.4
Teaching staff compensation (% tertiary expenditure)	Expenditure	61	28.8
Enrolment in bachelor's or equivalent level (%) 80 19.8 Enrolment in bachelor's or equivalent level (%) 80 19.8 Enrolment in master's, doctoral or equivalent (%) 80 19.8 Enrolment in master's, doctoral or equivalent (%) 90 30 40 19.8 Pupil-bacher ratio in tertiary education 97 78.5 Researchers in higher education (%) 90 19.8 Learning environment 78 46.9 Diversity and academic freedom 72 19.5 Teachers in tertiary education (gender parity) 80 53.3 Thobusum drobility ratio 97 19.5 Learning environment 92 19	Government expenditure per tertiary student	67	7.3
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Page	Resources	103	49.1
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Researchers in business enterprises (%) 7.2 Firms that spend on R&D (%) 73 17.3 Inputs of societal innovation 101 24.7 High-skilled employment (%) 76 28.1 Intellectual property payments (% total trade) 72 10.6 State of cluster development 125 35.5 Outputs 96 31 Outputs of R&D institutions 111 26.9 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RD in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 57 3.8 PCT applications (per 100 billion GDP) 57 3.8 PCT applications (per 100 billion GDP) 11 41.9 Outputs of societal innovation 66 36.4 Tutas enals applications (per 100 billion GDP) 11 41.9 Cu		70	19.2
Inputs of societal innovation 101 24.7 High-skilled employment (%) 76 28.1 Intellectual property payments (% total trade) 72 10.6 State of cluster development 125 35.5 Outputs 96 31 Outputs of R&D institutions 111 26.9 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 24 57.3 Printing and publishing output (% manufactured output) 83	Researchers in business enterprises (%)	66	7.2
High-skilled employment (%) 76 28.1 Intellectual property payments (% total trade) 72 10.6 State of cluster development 125 35.5 Outputs 96 31 Outputs of R&D institutions 111 26.9 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 3.1 <td>Firms that spend on R&D (%)</td> <td>73</td> <td>17.3</td>	Firms that spend on R&D (%)	73	17.3
Intellectual property payments (% total trade) 72 10.6 State of cluster development 125 35.5 Outputs 96 31 Outputs of R&D institutions 111 26.9 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 88 6.4	Inputs of societal innovation	101	24.7
State of cluster development 125 35.5 Outputs 96 31 Outputs of R&D institutions 111 26.9 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 9.3 GFO 901	High-skilled employment (%)	76	28.1
Outputs 96 31 Outputs of R&D institutions 111 26.9 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 19.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 <	Intellectual property payments (% total trade)	72	10.6
Outputs of R&D institutions 111 269 Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal Innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 <td>State of cluster development</td> <td>125</td> <td>35.5</td>	State of cluster development	125	35.5
Average documents per researcher 90 10.2 Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal Innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Ouality 116 12.7 Research institutions prominence 109 38.4 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 94 3.1 Iso 9001 quality certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Outputs	96	31
Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal Innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 IsO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3<	Outputs of R&D institutions	111	26.9
Citations per document 119 19.1 Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal Innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 IsO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3<	Average documents per researcher	90	10.2
Resident patent applications (per 100 billion GDP) 63 51.4 Outputs of RDI in business enterprises 44 33.7 Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 <td< td=""><td>Citations per document</td><td></td><td></td></td<>	Citations per document		
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Intellectual property receipts (% total trade) 79 9.5 Industrial design applications (per 100 billion GDP) 22 74.1 PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93	Outputs of RDI in business enterprises		
PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6 <td>Intellectual property receipts (% total trade)</td> <td>79</td> <td>9.5</td>	Intellectual property receipts (% total trade)	79	9.5
PCT applications (per 100 billion GDP) 57 3.8 Firms producing new products and services (%) 49 47.4 Outputs of societal innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6 <td>Industrial design applications (per 100 billion GDP)</td> <td>22</td> <td>74.1</td>	Industrial design applications (per 100 billion GDP)	22	74.1
Outputs of societal Innovation 66 36.4 Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	PCT applications (per 100 billion GDP)	57	3.8
Trademark applications (per 100 billion GDP) 11 41.9 Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Firms producing new products and services (%)	49	47.4
Cultural goods exports (% exports) 84 57.3 Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Outputs of societal innovation	66	36.4
Printing and publishing output (% manufactured output) 83 10.1 Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Trademark applications (per 100 billion GDP)	11	41.9
Impact 109 19.1 Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Cultural goods exports (% exports)	84	57.3
Quality 116 12.7 Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Printing and publishing output (% manufactured output)	83	10.1
Research institutions prominence 100 3.1 Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Impact	109	19.1
Growth of innovative companies 124 38.4 ISO 9001 quality certificates (per billion GDP) 84 6.4 ISO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Quality	116	12.7
(SO 9001 quality certificates (per billion GDP) 84 6.4 (SO 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Research institutions prominence	100	3.1
(SC) 14001 environmental certificates (per billion GDP) 94 3.1 Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Growth of innovative companies	124	38.4
Linkages 100 9.3 GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	ISO 9001 quality certificates (per billion GDP)	84	6.4
GERD financed from abroad (%) 67 9.4 Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	ISO 14001 environmental certificates (per billion GDP)	94	3.1
Joint ventures per strategic alliance deals (per billion GDP) 41 11.2 Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	Linkages	100	9.3
Computer software spending (% GDP) 93 7.3 Business development 84 35.2 New business density per thousand population 49 12.6	GERD financed from abroad (%)	67	9.4
Business development 84 35.2 New business density per thousand population 49 12.6	Joint ventures per strategic alliance deals (per billion GDP)	41	11.2
New business density per thousand population 49 12.6	Computer software spending (% GDP)	93	7.3
	Business development	84	35.2
Firms with products and services new to the market (%) 81 57.7	New business density per thousand population	49	12.6
	Firms with products and services new to the market (%)	81	57.7



MOLDOVA (REPUBLIC OF)

	Rank	
INFORMATION AND COMMUNICATIONS TECHNOLOGY	53	54.6
Infrastructure -	37	67.1
Coverage	54	62.4
3G/4G mobile network coverage (% population)	36	99.4
Secure Internet servers per 1 million population	51	68.3
Investment in telecommunication services (% GDP)	85 26	19.6
Quality Mobile upload and download speeds	81	10.4
,	7	81.4
Fixed-broadband upload and download speeds Fixed-broadband subscriptions by speed per hundred people	45	55.8
Affordability	39	89.7
Fixed broadband basket (% GNI per capita)	50	73.8
Mobile broadband basket (% GNI per capita)	55	95.4
Internet and telephony competition	1	100
Access	58	47.3
Subscriptions	73	62.5
Active mobile-broadband subscriptions per hundred inhabitants	71	46.1
International Internet bandwidth per user	10	71.3
Households with Internet access at home (%)	90	70.2
Skills and employment	54	32.1
Individuals with standard ICT skills (%)	n/a 26	n/a 42.6
Tertiary graduates from ICT programmes (%) ICT employment (%)	50	21.7
		49.4
Usage	66	
Services	71	50.8
Government online services	67	72.6
Fixed broadband Internet traffic per subscription	n/a	n/a
Mobile broadband Internet traffic per subscription	63	20.3
Internet users (%)	100	59.5
Outcomes	58	48.1
ICT PCT patent applications (per 100 billion GDP)	67	41.3
E-participation	47	72.6
Internet activities by individuals (%)	n/a	n/a
Trade in digitally deliverable services (% total trade) ECONOMY	78 68	30.3
		52.1
Economic competitiveness	45	60.7
Infrastructure investment	83	49.2
Gross fixed capital formation (% GDP)	94	34.1
Logistics performance	100	37.5
Transport productive capacity	59	45.3
Building quality control	46	80
Business agility	27	72.1
Ease of starting a business	11	95.7
Insolvency recovery rate	83	34.9
Entrepreneurial employee activity rate	n/a	n/a
Extent of corporate transparency	12	85.7
Economic openness	90	44.5
Trade and diversification	54	52.9
Trade (% GDP)	52	22.5
High-technology trade (% total trade)	82	14.9
Product concentration	46	82.5
Froduct concentration	53	91.7
	33	36.1
Market concentration	98	
Market concentration Financial openness Chinn-Ito financial openness	98 88	16.3
Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP)	98 88 56	42.1
Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics	98 88 56 56	42.1 50
Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics	98 88 56	42.1
Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added	98 88 56 56	42.1 50
Market concentration Financial openness Chinn-Ito financial openness Foreign direct investment, net inflows (% GDP) Debt dynamics Financing and domestic value added Financing and taxes	98 88 56 56 76	42.1 50 51.1
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)	98 88 56 56 76 79	42.1 50 51.1 56.4
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)	98 88 56 56 76 79	42.1 50 51.1 56.4 10.4
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)	98 88 56 56 76 79 106 38	42.1 50 51.1 56.4 10.4 82.3
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 (%)	98 88 56 56 76 79 106 38	42.1 50 51.1 56.4 10.4 82.3 59.2
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	98 88 56 56 76 79 106 38 81	42.1 50 51.1 56.4 10.4 82.3 59.2 73.9
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 Industry and services value added (% GDP)	98 88 56 56 76 79 106 38 81 91	42.1 50 51.1 56.4 10.4 82.3 59.2 73.9 45.8
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	98 88 56 56 76 79 106 38 81 91 66	42.1 50 51.1 56.4 10.4 82.3 59.2 73.9 45.8 20.1

	Rank	Rank Value	
ENABLING ENVIRONMENT	67	56	
Governance	82	39.4	
Political environment	86	36.9	
Peace and stability	108	22.2	
Voice and accountability	65	51.7	
Quality of institutions	81	41.8	
Rule of law	83	42	
Control of corruption	76	42.9	
Government effectiveness	87	40.6	
Socio-economic	59	63	
Gender equity	18	83.8	
Female-to-male ratio in parliament	23	68.9	
Female-to-male labour force participation	2	98.7	
Female-to-male ratio in Internet usage	n/a	n/a	
Social inclusion	61	73.6	
Social protection coverage (% population)	75	46.2	
Adult literacy rate	13	99.4	
Youth not in employment, education or training (%)	55	75.1	
Standard of living	95	31.7	
Poverty headcount ratio (% population)	84	52.1	
GDP per capita	80	11.3	
Health and environment	58	65.6	
Health	86	72.4	
Universal health coverage	76	70.8	
Healthy life expectancy (years)	91	57.1	
Under-five mortality rate	77	89.4	
Environmental performance	52	58.8	
Renewable energy consumption (%)	80	22.2	
Ecological footprint per capita	57	86.3	
Natural hazard exposure	46	68	

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