



# BENIN

## KEY INDICATORS

GDP (US\$ billions): **40.287**

Population: **12,123,198**

HDI: **0.545**

**GKI RANK** 114/123

**GKI SCORE**

**29.96**

**WORLD AVERAGE**

**48.6**

## COUNTRY PERFORMANCE SUMMARY

Benin is a weak performer in terms of its knowledge infrastructure. It ranks 114th out of 123 countries in the Global Knowledge Index 2021 and 13th out of the 21 countries with low human development.








## AREAS OF STRENGTH

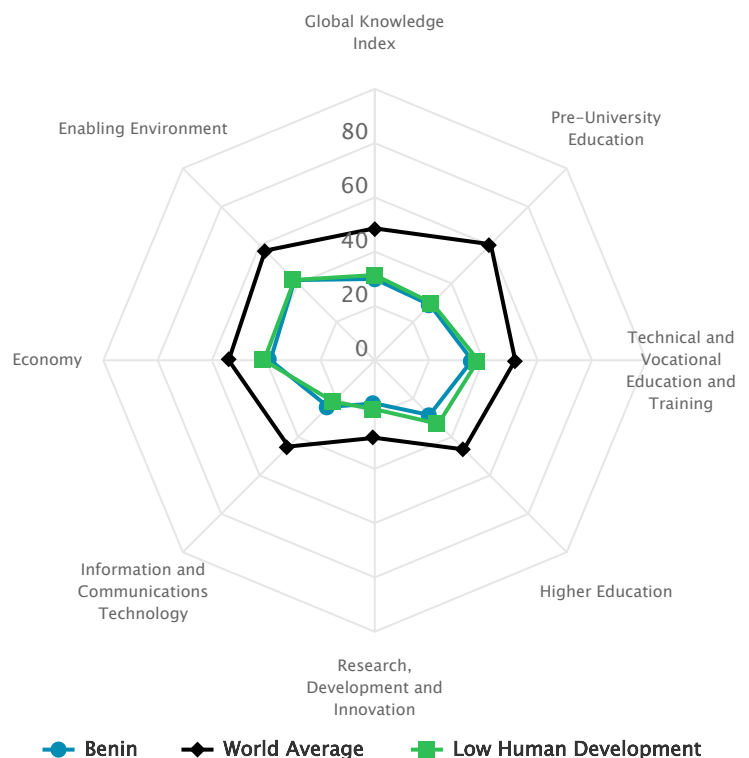
- + Unemployment rate with vocational education
- + Proportion of skilled production workers
- + Female-to-male labour force participation
- + Unemployment rate with advanced education
- + MSME financing gap (% GDP)

## AREAS OF IMPROVEMENT

- Pupil-teacher ratio in tertiary education
- Intellectual property receipts (% total trade)
- Labour underutilization rate
- Labour force participation rate with advanced education
- Vulnerable employment rate

## SECTORAL INDICES

	RANK	VALUE
 <b>PRE-UNIVERSITY EDUCATION</b>	115	28.84
 <b>TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING</b>	115	35.83
 <b>HIGHER EDUCATION</b>	117	28.53
 <b>RESEARCH, DEVELOPMENT AND INNOVATION</b>	111	15.9
 <b>INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	106	24.29
 <b>ECONOMY</b>	112	38.45
 <b>ENABLING ENVIRONMENT</b>	103	41.79





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	Rank	Value
<b>Pre-University Education</b>	<b>115</b>	<b>28.84</b>
Knowledge capital	109	30.05
<b>Enrolment</b>	<b>107</b>	<b>46.51</b>
Net enrolment rate in primary education	87	74.3
Net enrolment rate in lower secondary education	100	41.36
Net enrolment rate in upper secondary education	102	23.86
<b>Completion</b>	<b>118</b>	<b>13.46</b>
Years of compulsory education in primary and secondary	109	12.5
Completion rate in upper secondary education	101	10.22
Gross intake ratio to the last grade of lower secondary education	111	17.66
<b>Outcomes</b>	<b>94</b>	<b>30.17</b>
Assessment of 15-year-old students in math, science and reading	N/A	N/A
Learning-adjusted years of schooling	98	30.17
<b>Educational enabling environment</b>	<b>117</b>	<b>27.63</b>
<b>Expenditure</b>	<b>97</b>	<b>17.45</b>
Government expenditure on primary education (% GDP)	34	38.93
Government expenditure on secondary education (% GDP)	90	11.84
Government funding per primary student (% GDP per capita)	95	13.41
Government funding per secondary student (% GDP per capita)	96	5.6
<b>Resources</b>	<b>88</b>	<b>35.73</b>
Pupil-trained teacher ratio in primary education	64	53.3
Pupil-trained teacher ratio in secondary education	64	18.15
Schools with access to computers in primary education (%)	N/A	N/A
Schools with access to computers in secondary education (%)	N/A	N/A
<b>Early learning</b>	<b>105</b>	<b>33.47</b>
Gross enrolment ratio in early childhood education	90	18.8
Proportion of children who are developmentally on track	48	24.31
Proportion of children with stimulating home learning environments	41	27.83
Pupil-trained teacher ratio in pre-primary education	54	62.93
<b>Equity and inclusiveness</b>	<b>101</b>	<b>23.86</b>
Completion rate in upper secondary education, gender parity	103	44.58
Completion rate in upper secondary education, wealth parity	98	2.34
Completion rate in upper secondary education, location parity	89	24.67
<b>Technical and Vocational Education and Training</b>	<b>115</b>	<b>35.83</b>
<b>TVET components</b>	<b>119</b>	<b>24.53</b>
<b>TVET structure</b>	<b>113</b>	<b>8.67</b>
Government expenditure on vocational education (%)	60	11.66
Share of students enrolled in secondary vocational programmes	89	5.68
Share of students enrolled in post-secondary vocational programmes	N/A	N/A
<b>TVET quality and qualifications</b>	<b>70</b>	<b>45.19</b>
Extent of staff training	99	41.85
Quality of vocational training	42	55.83
Ratio of high-skill TVET occupations earnings to average wage	37	37.65
Ratio of medium-skill TVET occupations earnings to average wage	56	45.43
<b>Continuous training and skilling</b>	<b>102</b>	<b>19.73</b>
Firms offering formal training (%)	79	20.8
Labour force with short-cycle tertiary education (%)	68	18.67
Participation rate in formal and non-formal education and training	N/A	N/A
<b>TVET labour market</b>	<b>97</b>	<b>47.12</b>
<b>Efficiency of the labour market</b>	<b>21</b>	<b>76.32</b>
Firms constrained with inadequately educated workforce (%)	70	42.38
Employment educational mismatch (%)	N/A	N/A
Proportion of skilled production workers	4	91.49
Unemployment rate with vocational education	3	95.08
<b>Post-TVET employment</b>	<b>89</b>	<b>37.06</b>
Share of TVET occupations	105	22.87
Manufacturing employment (%)	38	51.24
<b>Equity and inclusiveness</b>	<b>115</b>	<b>27.99</b>
Enrolment in vocational education, gender parity	92	47.94
Vulnerable employment rate	120	8.04
<b>Higher Education</b>	<b>117</b>	<b>28.53</b>
<b>Inputs</b>	<b>120</b>	<b>11.9</b>
<b>Expenditure</b>	<b>62</b>	<b>29.46</b>
Government expenditure per tertiary student	89	5.6
Teaching staff compensation (% tertiary expenditure)	28	53.31

	Rank	Value
<b>Information and Communications Technology</b>	<b>106</b>	<b>24.29</b>
<b>Infrastructure</b>	<b>113</b>	<b>28.12</b>
<b>Coverage</b>	<b>103</b>	<b>41.77</b>
3G/4G mobile network coverage (% population)	100	55.68
Secure Internet servers per 1 million population	110	21.81
Investment in telecommunication services (% GDP)	21	47.82
<b>Quality</b>	<b>111</b>	<b>3.72</b>
Mobile upload and download speeds	82	9.14
Fixed-broadband upload and download speeds	84	1.9
Fixed-broadband subscriptions by speed per hundred people	103	0.13
<b>Affordability</b>	<b>113</b>	<b>38.87</b>
Fixed broadband basket (% GNI per capita)	111	39.25
Mobile broadband basket (% GNI per capita)	101	39.13
Internet and telephony competition	116	38.24
<b>Access</b>	<b>104</b>	<b>12.68</b>
<b>Subscriptions</b>	<b>117</b>	<b>6.34</b>
Active mobile-broadband subscriptions per hundred inhabitants	108	10.98
International Internet bandwidth per user	94	3.7
Households with Internet access at home (%)	117	4.34
<b>Skills and employment</b>	<b>86</b>	<b>19.02</b>
Individuals with standard ICT skills (%)	N/A	N/A
Tertiary graduates from ICT programmes (%)	47	34.71
ICT employment (%)	99	3.32
<b>Usage</b>	<b>92</b>	<b>32.07</b>
<b>Services</b>	<b>98</b>	<b>28.16</b>
Government online services	93	51.18
Fixed broadband Internet traffic per subscription	N/A	N/A
Mobile broadband Internet traffic per subscription	77	8.2
Internet users (%)	98	25.11
<b>Outcomes</b>	<b>77</b>	<b>35.99</b>
ICT PCT patent applications (per 100 billion GDP)	N/A	N/A
E-participation	85	54.76
Internet activities by individuals (%)	N/A	N/A
Trade in digitally deliverable services (% total trade)	100	17.22
<b>Economy</b>	<b>112</b>	<b>38.45</b>
<b>Economic competitiveness</b>	<b>86</b>	<b>45.26</b>
<b>Infrastructure investment</b>	<b>99</b>	<b>42.13</b>
Gross fixed capital formation (% GDP)	30	52.44
Logistics performance	70	43.75
Transport productive capacity	112	12.35
Building quality control	96	60
<b>Business agility</b>	<b>78</b>	<b>48.39</b>
Ease of starting a business	50	90.6
Insolvency recovery rate	91	26.01
Entrepreneurial employee activity rate	N/A	N/A
Extent of corporate transparency	83	28.57
<b>Economic openness</b>	<b>113</b>	<b>41.31</b>
<b>Trade and diversification</b>	<b>112</b>	<b>40.24</b>
Trade (% GDP)	97	10.34
High-technology trade (% total trade)	107	8.76
Product concentration	99	63.32
Market concentration	99	78.55
<b>Financial openness</b>	<b>97</b>	<b>42.38</b>
Chinn-Ito financial openness	78	16.43
Foreign direct investment, net inflows (% GDP)	89	60.71
Debt dynamics	55	50
<b>Financing and domestic value added</b>	<b>117</b>	<b>28.77</b>
<b>Financing and taxes</b>	<b>96</b>	<b>48.08</b>
Domestic credit to private sector (% GDP)	108	3.52
MSME financing gap (% GDP)	15	82.33
Tax and contribution rate (% profit)	96	58.39
Bank non-performing loans (%)	N/A	N/A
<b>Domestic value added</b>	<b>123</b>	<b>9.47</b>
Medium- and high-tech activities value added	N/A	N/A
Industry and services value added (% GDP)	115	25.71

<b>Enrolment</b>	<b>95</b>	<b>6.23</b>
Enrolment in bachelor's or equivalent level (%)	N/A	N/A
Enrolment in master's, doctoral or equivalent (%)	84	6.23
<b>Resources</b>	<b>120</b>	<b>0</b>
Pupil-teacher ratio in tertiary education	112	0
Researchers in higher education (%)	N/A	N/A
<b>Learning environment</b>	<b>103</b>	<b>31.04</b>
<b>Diversity and academic freedom</b>	<b>85</b>	<b>42.04</b>
Teachers in tertiary education, gender parity	93	25.21
Inbound mobility rate	50	15.87
Academic freedom	53	85.02
<b>Equity and inclusiveness</b>	<b>68</b>	<b>20.04</b>
Gross attendance ratio for tertiary education, gender parity	70	40.7
Gross attendance ratio for tertiary education, wealth parity	54	1.96
Gross attendance ratio for tertiary education, location parity	52	17.47
<b>Outputs</b>	<b>77</b>	<b>42.67</b>
<b>Attainment</b>	<b>N/A</b>	<b>N/A</b>
Educational attainment rate, bachelor's or equivalent	N/A	N/A
Educational attainment rate, master's or equivalent	N/A	N/A
Educational attainment rate, doctoral or equivalent	N/A	N/A
<b>Employment</b>	<b>104</b>	<b>49.71</b>
Labour force participation rate with advanced education	110	4.53
Unemployment rate with advanced education	8	94.89
<b>Impact</b>	<b>74</b>	<b>35.63</b>
University-industry collaboration in R&D	87	35.63
Citable documents per R&D personnel in higher education	N/A	N/A
<b>Research, Development and Innovation</b>	<b>111</b>	<b>15.9</b>
<b>Inputs</b>	<b>52</b>	<b>29.61</b>
<b>Inputs of R&amp;D institutions</b>	<b>26</b>	<b>38.62</b>
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 (%)	60	38.62
<b>Inputs of RDI in business enterprises</b>	<b>57</b>	<b>27.96</b>
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 (%)	40	27.96
<b>Inputs of societal innovation</b>	<b>119</b>	<b>13.23</b>
High-skilled employment (%)	69	3.16
Intellectual property payments (% total trade)	107	0.01
State of cluster development	98	36.53
<b>Outputs</b>	<b>121</b>	<b>5.31</b>
<b>Outputs of R&amp;D institutions</b>	<b>121</b>	<b>4.57</b>
Average documents per researcher	N/A	N/A
Citations per document	113	8.65
Patent applications (per 100 billion GDP)	101	0.49
<b>Outputs of RDI in business enterprises</b>	<b>92</b>	<b>11.07</b>
Intellectual property receipts (% total trade)	98	0
Industrial design applications (per 100 billion GDP)	92	0.68
PCT applications (per 100 billion GDP)	94	0.49
Firms producing new goods and services (%)	55	43.12
<b>Outputs of societal innovation</b>	<b>120</b>	<b>1.03</b>
Trademark applications (per 100 billion GDP)	103	1.67
Cultural goods exports (% exports)	112	0.39
Printing and publishing output (% manufactured output)	N/A	N/A
<b>Impact</b>	<b>117</b>	<b>12.8</b>
<b>Quality</b>	<b>104</b>	<b>13.89</b>
Research institutions prominence	91	10.33
Growth of innovative companies	99	42.16
ISO 9001 quality certificates (% GDP)	97	2.31
ISO 14001 environmental certificates (% GDP)	112	0.76
<b>Linkages</b>	<b>104</b>	<b>4.62</b>
GERD financed from abroad (%)	N/A	N/A
Joint ventures per strategic alliance deals (per billion GDP)	81	4.93
Computer software spending (% GDP)	86	4.31
<b>Business development</b>	<b>104</b>	<b>19.88</b>
New business density per thousand population	85	2.83
Firms with new product/service (%)	85	36.94

Labour underutilization rate	123	0
Output per worker	103	2.69
<b>Enabling Environment</b>	<b>103</b>	<b>41.79</b>
<b>Governance</b>	<b>77</b>	<b>38.09</b>
<b>Political environment</b>	<b>78</b>	<b>36.11</b>
Peace and stability	81	29.72
Voice and accountability	71	42.51
<b>Quality of institutions</b>	<b>74</b>	<b>40.06</b>
Rule of law	101	24.52
Control of corruption	56	54.33
Government effectiveness	76	41.35
<b>Socio-economic</b>	<b>111</b>	<b>35.67</b>
<b>Gender equity</b>	<b>105</b>	<b>51.8</b>
Female-to-male ratio in parliament	117	9.21
Female-to-male labour force participation	8	94.4
Female-to-male ratio in Internet usage	N/A	N/A
<b>Social inclusion</b>	<b>115</b>	<b>30.89</b>
Social protection coverage (% population)	101	5.14
Adult literacy rate	96	25.82
Youth not in employment, education or training (%)	65	61.72
<b>Standard of living</b>	<b>99</b>	<b>24.32</b>
Poverty headcount ratio (% population)	87	46.26
GDP per capita	103	2.37
<b>Health and environment</b>	<b>117</b>	<b>51.61</b>
<b>Health</b>	<b>117</b>	<b>33.17</b>
Universal health coverage	113	40
Healthy life expectancy (years)	108	38.49
Under-five mortality rate	118	21.02
<b>Environmental performance</b>	<b>27</b>	<b>70.06</b>
Renewable energy consumption (%)	36	45.62
Ecological footprint per capita	26	93.55
Natural hazard exposure	30	71

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