**BOTSWANA**

**Output rank**

<table>
<thead>
<tr>
<th>Rank</th>
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<tbody>
<tr>
<td>Input rank</td>
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<tr>
<td>Income</td>
<td>SSF</td>
</tr>
<tr>
<td>Region</td>
<td>Upper middle</td>
</tr>
<tr>
<td>Population (mn)</td>
<td>2.3</td>
</tr>
<tr>
<td>GDP, PPP$</td>
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</tr>
<tr>
<td>GDP per capita, PPP$</td>
<td>17,965.4</td>
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<tr>
<td>Gil 2018 rank</td>
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### INSTITUTIONS

<table>
<thead>
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<th>Score/Value</th>
<th>Rank</th>
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</thead>
<tbody>
<tr>
<td>65.7</td>
<td>58</td>
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</tbody>
</table>

1.1 Political environment
1.1.1 Political and operational stability
1.1.2 Government effectiveness
1.2 Regulatory environment
1.2.1 Regulatory quality
1.2.2 Rule of law
1.2.3 Cost of redundancy dismissal, salary weeks
1.3 Business environment
1.3.1 Ease of starting a business
1.3.2 Ease of resolving insolvency

### HUMAN CAPITAL & RESEARCH

<table>
<thead>
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<tbody>
<tr>
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</tbody>
</table>

2.1 Education
2.2 Tertiary education
2.2.1 Tertiary enrolment, % gross
2.2.2 Graduates in science & engineering, %
2.2.3 Tertiary inbound mobility, %
2.3 Research & development (R&D)
2.3.1 Researchers, FTE/mn.pop.
2.3.2 Gross expenditure on R&D, % GDP
2.3.3 Global R&D companies, avg. exp. top 3, mn US$
2.3.4 QS university ranking, average score top 3

### INFRASTRUCTURE

<table>
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<th>Score/Value</th>
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</tbody>
</table>

3.1 Information & communication technologies (ICTs)
3.1.1 ICT access
3.1.2 ICT use
3.1.3 Government's online service
3.1.4 E-participation
3.2 General infrastructure
3.2.1 Electricity output, kWh/mn.pop
3.2.2 Logistics performance
3.2.3 Gross capital formation, % GDP
3.3 Ecological sustainability
3.3.1 GDP/unit of energy use
3.3.2 Environmental performance
3.3.3 ISO 14001 environmental certificates, bn PPP$ GDP

### MARKET SOPHISTICATION

<table>
<thead>
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<th>Score/Value</th>
<th>Rank</th>
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</thead>
<tbody>
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</table>

4.1 Credit
4.1.1 Ease of getting credit
4.1.2 Domestic credit to private sector, % GDP
4.1.3 Microfinance gross loans, % GDP
4.2 Investment
4.2.1 Ease of protecting minority investors
4.2.2 Market capitalization, % GDP
4.2.3 Venture capital deals, bn PPP$ GDP
4.3 Trade, competition, & market scale
4.3.1 Applied tariff rate, weighted avg.
4.3.2 Intensity of local competition
4.3.3 Domestic market scale, bn PPP$ GDP

### BUSINESS SOPHISTICATION

<table>
<thead>
<tr>
<th>Score/Value</th>
<th>Rank</th>
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</thead>
<tbody>
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</table>

5.1 Knowledge workers
5.1.1 Knowledge-intensive employment
5.1.2 Firms offering formal training, % firms
5.1.3 GERD performed by business, % GDP
5.1.4 GERD financed by business, %
5.1.5 Females employed w/advanced degrees, %
5.2 Innovation linkages
5.2.1 University/Industry research collaboration
5.2.2 State of cluster development
5.2.3 GERD financed by abroad, %
5.2.4 JV-strategic alliance deals, bn PPP$ GDP
5.2.5 Patent families 2+ offices, bn PPP$ GDP
5.3 Knowledge absorption
5.3.1 Intellectual property, % total trade
5.3.2 High-tech imports, % total trade
5.3.3 ICT services imports, % total trade
5.3.4 FDI inflows, % GDP
5.3.5 Research talent, % in business enterprise

### KNOWLEDGE & TECHNOLOGY OUTPUTS

<table>
<thead>
<tr>
<th>Score/Value</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
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<td>107</td>
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</table>

6.1 Knowledge creation
6.1.1 Patents by origin/bsn PPP$ GDP
6.1.2 PCT patents by origin/bsn PPP$ GDP
6.1.3 Utility models by origin/bsn PPP$ GDP
6.1.4 Scientific & technical articles/bsn PPP$ GDP
6.1.5 Citable documents H-index
6.2 Knowledge impact
6.2.1 Growth rate of PPP$ GDP per worker
6.2.2 New businesses/inh. pop. 15-64
6.2.3 Computer software spending, % GDP
6.2.4 ISO 9001 quality certificates, bn PPP$ GDP
6.2.5 High- & medium-high-tech manufactures, %
6.3 Knowledge diffusion
6.3.1 Intellectual property receipts, % total trade
6.3.2 High-tech net exports, % total trade
6.3.3 ICT services exports, % total trade
6.3.4 FDI net outflows, % GDP

### CREATIVE OUTPUTS

<table>
<thead>
<tr>
<th>Score/Value</th>
<th>Rank</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

7.1 Intangible assets
7.1.1 Trademarks by origin/bsn PPP$ GDP
7.1.2 Industrial designs by origin/bsn PPP$ GDP
7.1.3 ICTs & business model creation
7.1.4 ICTs & organizational model creation
7.2 Creative goods & services
7.2.1 Cultural & creative services exports, % total trade
7.2.2 National feature films/mn.pop 15-69
7.2.3 Entertainment & Media market, inh. pop. 15-69
7.2.4 Printing & other media, % manufacturing
7.2.5 Creative goods exports, % total trade
7.3 Online creativity
7.3.1 Generic top-level domains (TLDs)/inh. pop. 15-69
7.3.2 Country-code TLDs/inh. pop. 15-69
7.3.3 Wikipedia edits/inh. pop. 15-69
7.3.4 Mobile app creation/bsn PPP$ GDP

NOTES: ● indicates a strength; ○ a weakness; ◇ an income group strength; ◇ an income group weakness; * an index; † a survey question; □ indicates that the economy's data are older than the base year; see Appendix II for details, including the year of the data, at http://globalinnovationindex.org. SQAILE brackets [ ] indicate that the data minimum coverage (EMG) requirements were not met at the sub-pillar or pillar level.