### TOGO

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<th>Input rank</th>
<th>Income</th>
<th>Region</th>
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<th>GII 2018 rank</th>
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#### INSTITUTIONS

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<tbody>
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1.1 Political environment
1.1.1 Political and operational stability* 34.5 121
1.1.2 Government effectiveness 63.9 * 79
1.2 Regulatory environment
1.2.1 Regulatory quality* 78.1 87
1.2.2 Rule of law* 20.8 115
1.2.3 Cost of redundancy dismissal, salary weeks 13.1 49
1.3 Business environment
1.3.1 Ease of starting a business* 88.7 60
1.3.2 Ease of resolving insolvency* 46.7 78

#### HUMAN CAPITAL & RESEARCH

<table>
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2.1 Education
2.1.1 Expenditure on education, % GDP 5.1 46
2.1.2 Government funding/pupil, secondary, % GDP/cap* 3.8 67
2.1.3 School life expectancy, years 12.6 56
2.1.4 PISA scales in reading, maths, & science n/a n/a
2.1.5 Pupil-teacher ratio, secondary, % 26.2 99

2.2 Tertiary education
2.2.1 Tertiary enrolment, % gross 12.9 102
2.2.2 Graduates in science & engineering, % n/a n/a
2.2.3 Tertiary inbound mobility, % n/a n/a

2.3 Research & development (R&D)
2.3.1 Researchers, FTE/mn pop 38.3 97
2.3.2 Gross expenditure on R&D, % GDP 3.0 82
2.3.3 Global R&D companies, avg. exp. top 3 mn US$ 0.0 43
2.3.4 QS university ranking, average score top 3 0.0 78

#### INFRASTRUCTURE

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3.1 Information & communication technologies (ICTs)
3.1.1 ICT access* 33.5 113
3.1.2 ICT use* 21.6 104
3.1.3 Government’s online service* 55.6 98
3.1.4 E-participation* 54.5 98

3.2 General infrastructure
3.2.1 Energy output, kWh/mn pop 20.5 120
3.2.2 Logistics performance* 8.0 108
3.2.3 Gross capital formation, % GDP 28.2 28

3.3 Ecological sustainability
3.3.1 GDP/unit of energy use 2.9 117
3.3.2 Environmental performance* 41.8 118
3.3.3 ISO 14001 environmental certificates/bn PPP$ GDP 0.9 66

#### MARKET SOPHISTICATION

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4.1 Credit
4.1.1 Ease of getting credit* 31.2 88
4.1.2 Domestic credit to private sector, % GDP* 30.0 115
4.1.3 Microfinance gross loans, % GDP* 39.7 83

4.2 Investment
4.2.1 Ease of protecting minority investors* 40.0 114
4.2.2 Market capitalization, % GDP* 39.6 115
4.2.3 Venture capital deals/bn PPP$ GDP n/a n/a

4.3 Trade, competition, & market scale
4.3.1 Applied tariff rate, weighted avg., % 13.9 120
4.3.2 Intensity of local competition* n/a n/a
4.3.3 Domestic market scale, bn PPP$ GDP 13.9 127

#### BUSINESS SOPHISTICATION

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5.1 Knowledge workers 22.2 103
5.1.1 Knowledge-intensive employment, % 7.7 104
5.1.2 Firms offering formal training, % firms 33.7 43
5.1.3 GERD performed by business, % GDP n/a n/a
5.1.4 GERD financed by business, % 13.9 51
5.1.5 Females employed w/advanced degrees, % 2.5 98

5.2 Innovation linkages
5.2.1 University/industry research collaboration* 11.3 127
5.2.2 State of cluster development* n/a n/a
5.2.3 GERD financed by abroad, % 5.5 62
5.2.4 JV-strategic alliance deals/bn PPP$ GDP 0.0 51
5.2.5 Patents families 2+ offices/bn PPP$ GDP n/a n/a

5.3 Knowledge absorption
5.3.1 Intellectual property payments, % total trade 0.0 108
5.3.2 High-tech imports, % total trade 4.1 115
5.3.3 ICT services imports, % total trade 0.8 87
5.3.4 FDI net inflows, % GDP 2.7 60
5.3.5 Research talent, % in business enterprise n/a n/a

#### KNOWLEDGE & TECHNOLOGY OUTPUTS

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6.1 Knowledge creation
6.1.1 Patents by origin/bn PPP$ GDP 2.5 119
6.1.2 PCT patents by origin/bn PPP$ GDP 0.2 104
6.1.3 Utility models by origin/bn PPP$ GDP 0.0 99
6.1.4 Scientific & technical articles/bn PPP$ GDP 3.8 94
6.1.5 Citable documents H-index 0.7 126

6.2 Knowledge impact
6.2.1 Growth rate of PPP$ GDP/worker, % 4.3 115
6.2.2 New businesses/1000 th pop 15-64, % 0.3 93
6.2.3 Computer software spending, % GDP 0.1 94
6.2.4 ISO 9001 quality certificates/bn PPP$ GDP 1.3 102
6.2.5 High- & medium-high-tech manufactures, % n/a n/a

6.3 Knowledge diffusion
6.3.1 Intellectual property receipts, % total trade 0.0 104
6.3.2 High-tech net exports, % total trade 0.0 123
6.3.3 ICT services exports, % total trade 2.0 55
6.3.4 FDI net outflows, % GDP 6.9 9

#### CREATIVE OUTPUTS

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7.1 Intangible assets
7.1.1 Trademarks by origin/bn PPP$ GDP 3.8 128
7.1.2 Industrial designs by origin/bn PPP$ GDP 0.8 78
7.1.3 ICTs & business model creation* n/a n/a
7.1.4 ICTs & organizational model creation* n/a n/a

7.2 Creative goods & services
7.2.1 Cultural & creative services exports, % total trade 1.5 16
7.2.2 National feature films/mn pop 15-69, % 0.7 92
7.2.3 Entertainment & Media market/100 15-69, % 0.1 90
7.2.4 Printing & other media, % manufacturing n/a n/a
7.2.5 Creative goods exports, % total trade 2.0 112

7.3 Online creativity
7.3.1 Generic top-level domains (TLDs)/th pop 15-69, % 0.3 118
7.3.2 Country-code TLDs/th pop 15-69, % 0.6 104
7.3.3 Wikipedia edits/mn pop 15-69, % 0.2 118
7.3.4 Mobile app creation/bn PPP$ GDP n/a n/a

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. Square brackets || indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.

GII 2019 rank 126