

BOLIVIA (PLURINATIONAL STATE OF)

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
113	102	Lower middle	LCN	11.2	89.4	7,476.9	117

Score/Value Rank

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INSTITUTIONS..... 36.8 128 ○ ◇

1.1	Political environment.....	41.1	100
1.1.1	Political and operational stability*.....	49.1	122 ○ ◇
1.1.2	Government effectiveness*.....	37.1	94
1.2	Regulatory environment.....	16.1	129 ○ ◇
1.2.1	Regulatory quality*.....	17.8	122 ○ ◇
1.2.2	Rule of law*.....	14.4	124 ○ ◇
1.2.3	Cost of redundancy dismissal, salary weeks.....	n/a	n/a
1.3	Business environment.....	53.3	121 ◇
1.3.1	Ease of starting a business*.....	64.3	127 ○ ◇
1.3.2	Ease of resolving insolvency*.....	42.3	90

HUMAN CAPITAL & RESEARCH..... 26.5 [79]

2.1	Education.....	51.7	[54]
2.1.1	Expenditure on education, % GDP.....	7.3	8 ● ◆
2.1.2	Government funding/pupil, secondary, % GDP/cap.....	18.1	61
2.1.3	School life expectancy, years.....	n/a	n/a
2.1.4	PISA scales in reading, maths, & science.....	n/a	n/a
2.1.5	Pupil-teacher ratio, secondary.....	20.6	91
2.2	Tertiary education.....	n/a	[n/a]
2.2.1	Tertiary enrolment, % gross.....	n/a	n/a
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).....	1.2	101
2.3.1	Researchers, FTE/mn pop.....	166.0	81
2.3.2	Gross expenditure on R&D, % GDP.....	0.2	93
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..... 35.1 102

3.1	Information & communication technologies (ICTs).....	51.1	93
3.1.1	ICT access*.....	48.4	92
3.1.2	ICT use*.....	42.0	85
3.1.3	Government's online service*.....	56.3	95
3.1.4	E-participation*.....	57.9	93
3.2	General infrastructure.....	21.2	114
3.2.1	Electricity output, kWh/mn pop.....	864.0	98
3.2.2	Logistics performance*.....	13.8	115 ○ ◇
3.2.3	Gross capital formation, % GDP.....	21.5	80
3.3	Ecological sustainability.....	32.9	84
3.3.1	GDP/unit of energy use.....	8.1	75
3.3.2	Environmental performance*.....	56.0	79
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....	0.7	77

MARKET SOPHISTICATION..... 49.7 59

4.1	Credit.....	54.9	26 ● ◆
4.1.1	Ease of getting credit*.....	35.0	110 ○ ◇
4.1.2	Domestic credit to private sector, % GDP.....	64.5	49 ●
4.1.3	Microfinance gross loans, % GDP.....	28.2	1 ● ◆
4.2	Investment.....	40.0	[72]
4.2.1	Ease of protecting minority investors*.....	40.0	114 ○ ◇
4.2.2	Market capitalization, % GDP.....	n/a	n/a
4.2.3	Venture capital deals/bn PPP\$ GDP.....	n/a	n/a
4.3	Trade, competition, & market scale.....	54.1	91
4.3.1	Applied tariff rate, weighted avg., %.....	6.1	95
4.3.2	Intensity of local competition*.....	63.8	85
4.3.3	Domestic market scale, bn PPP\$.....	89.4	83

BUSINESS SOPHISTICATION..... 24.1 104

5.1	Knowledge workers.....	34.7	71
5.1.1	Knowledge-intensive employment, %.....	15.8	89
5.1.2	Firms offering formal training, % firms.....	49.9	21 ●
5.1.3	GERD performed by business, % GDP.....	n/a	n/a
5.1.4	GERD financed by business, %.....	5.2	80
5.1.5	Females employed w/advanced degrees, %.....	8.5	77
5.2	Innovation linkages.....	12.3	125 ○ ◇
5.2.1	University/industry research collaboration*.....	27.0	116
5.2.2	State of cluster development*.....	31.1	118 ○ ◇
5.2.3	GERD financed by abroad, %.....	1.9	78
5.2.4	JV-strategic alliance deals/bn PPP\$ GDP.....	0.0	93
5.2.5	Patent families 2+ offices/bn PPP\$ GDP.....	0.0	93 ○ ◇
5.3	Knowledge absorption.....	25.3	99
5.3.1	Intellectual property payments, % total trade.....	0.9	40 ● ◆
5.3.2	High-tech imports, % total trade.....	9.1	41 ●
5.3.3	ICT services imports, % total trade.....	0.9	78
5.3.4	FDI net inflows, % GDP.....	1.5	96
5.3.5	Research talent, % in business enterprise.....	0.4	84 ○

KNOWLEDGE & TECHNOLOGY OUTPUTS.... 14.5 105

6.1	Knowledge creation.....	3.8	110
6.1.1	Patents by origin/bn PPP\$ GDP.....	0.7	71
6.1.2	PCT patents by origin/bn PPP\$ GDP.....	n/a	n/a
6.1.3	Utility models by origin/bn PPP\$ GDP.....	0.1	51
6.1.4	Scientific & technical articles/bn PPP\$ GDP.....	1.6	118
6.1.5	Citable documents H-index.....	5.8	91
6.2	Knowledge impact.....	30.3	93
6.2.1	Growth rate of PPP\$ GDP/worker, %.....	1.8	45 ●
6.2.2	New businesses/th pop. 15-64.....	0.5	83
6.2.3	Computer software spending, % GDP.....	0.3	51 ●
6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP.....	2.8	79
6.2.5	High- & medium-high-tech manufactures, %.....	0.1	89
6.3	Knowledge diffusion.....	9.2	108
6.3.1	Intellectual property receipts, % total trade.....	0.2	34 ●
6.3.2	High-tech net exports, % total trade.....	0.2	100
6.3.3	ICT services exports, % total trade.....	0.6	94
6.3.4	FDI net outflows, % GDP.....	0.2	92

CREATIVE OUTPUTS..... 15.7 111

7.1	Intangible assets.....	25.0	121 ◇
7.1.1	Trademarks by origin/bn PPP\$ GDP.....	41.7	62
7.1.2	Industrial designs by origin/bn PPP\$ GDP.....	0.2	103
7.1.3	ICTs & business model creation*.....	39.0	122 ○ ◇
7.1.4	ICTs & organizational model creation*.....	31.7	122 ○ ◇
7.2	Creative goods & services.....	11.7	79
7.2.1	Cultural & creative services exports, % total trade.....	0.1	89
7.2.2	National feature films/mn pop. 15-69.....	0.9	84
7.2.3	Entertainment & Media market/th pop. 15-69.....	n/a	n/a
7.2.4	Printing & other media, % manufacturing.....	1.0	64
7.2.5	Creative goods exports, % total trade.....	1.3	39 ●
7.3	Online creativity.....	1.2	100
7.3.1	Generic top-level domains (TLDs)/th pop. 15-69.....	1.8	80
7.3.2	Country-code TLDs/th pop. 15-69.....	0.5	95
7.3.3	Wikipedia edits/mn pop. 15-69.....	3.5	92
7.3.4	Mobile app creation/bn PPP\$ GDP.....	0.1	88

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.