

BOLIVIA (PLURINATIONAL STATE OF)

GII 2019 rank

110

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				Score/Value Rank				
INSTITUTIONS..... 36.8 128				BUSINESS SOPHISTICATION..... 24.1 104				
1.1	Political environment.....		41.1	100	5.1	Knowledge workers..... 34.7 71		
1.1.1	Political and operational stability*.....		49.1	122	5.1.1	Knowledge-intensive employment, %..... 15.8 89		
1.1.2	Government effectiveness*.....		37.1	94	5.1.2	Firms offering formal training, % firms..... 49.9 21		
1.2	Regulatory environment.....		16.1	129	5.1.3	GERD performed by business, % GDP..... n/a n/a		
1.2.1	Regulatory quality*.....		17.8	122	5.1.4	GERD financed by business, %..... 5.2 80		
1.2.2	Rule of law*.....		14.4	124	5.1.5	Females employed w/advanced degrees, %..... 8.5 77		
1.2.3	Cost of redundancy dismissal, salary weeks.....		n/a	n/a	5.2	Innovation linkages..... 12.3 125		
1.3	Business environment.....		53.3	121	5.2.1	University/industry research collaboration*..... 27.0 116		
1.3.1	Ease of starting a business*.....		64.3	127	5.2.2	State of cluster development*..... 31.1 118		
1.3.2	Ease of resolving insolvency*.....		42.3	90	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			
HUMAN CAPITAL & RESEARCH..... 26.5 [79]				5.3 Knowledge absorption..... 25.3 99				
2.1	Education.....		51.7	[54]	5.3.1	Intellectual property payments, % total trade..... 0.9 40		
2.1.1	Expenditure on education, % GDP.....		7.3	8	5.3.2	High-tech imports, % total trade..... 9.1 41		
2.1.2	Government funding/pupil, secondary, % GDP/cap.....		18.1	61	5.3.3	ICT services imports, % total trade..... 0.9 78		
2.1.3	School life expectancy, years.....		n/a	n/a	5.3.4	FDI net inflows, % GDP..... 1.5 96		
2.1.4	PISA scales in reading, maths, & science.....		n/a	n/a	5.3.5	Research talent, % in business enterprise..... 0.4 84		
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				KNOWLEDGE & TECHNOLOGY OUTPUTS.... 14.5 105				
3.1	Information & communication technologies (ICTs).....		51.1	93	6.1	Knowledge creation..... 3.8 110		
3.1.1	ICT access*.....		48.4	92	6.1.1	Patents by origin/bn PPP\$ GDP..... 0.7 71		
3.1.2	ICT use*.....		42.0	85	6.1.2	PCT patents by origin/bn PPP\$ GDP..... n/a n/a		
3.1.3	Government's online service*.....		56.3	95	6.1.3	Utility models by origin/bn PPP\$ GDP..... 0.1 51		
3.1.4	E-participation*.....		57.9	93	6.1.4	Scientific & technical articles/bn PPP\$ GDP..... 1.6 118		
3.2	General infrastructure.....		21.2	114	6.1.5	Citable documents H-index..... 5.8 91		
3.2.1	Electricity output, kWh/mn pop.....		864.0	98	6.2	Knowledge impact..... 30.3 93		
3.2.2	Logistics performance*.....		13.8	115	6.2.1	Growth rate of PPP\$ GDP/worker, %..... 1.8 45		
3.2.3	Gross capital formation, % GDP.....		21.5	80	6.2.2	New businesses/th pop. 15-64..... 0.5 83		
3.3	Ecological sustainability.....		32.9	84	6.2.3	Computer software spending, % GDP..... 0.3 51		
3.3.1	GDP/unit of energy use.....		8.1	75	6.2.4	ISO 9001 quality certificates/bn PPP\$ GDP..... 2.8 79		
3.3.2	Environmental performance*.....		56.0	79	6.2.5	High- & medium-high-tech manufactures, %..... 0.1 89		
3.3.3	ISO 14001 environmental certificates/bn PPP\$ GDP.....		0.7	77	6.3	Knowledge diffusion..... 9.2 108		
MARKET SOPHISTICATION..... 49.7 59				6.3.1 Intellectual property receipts, % total trade..... 0.2 34				
4.1	Credit.....		54.9	26	6.3.2	High-tech net exports, % total trade..... 0.2 100		
4.1.1	Ease of getting credit*.....		35.0	110	6.3.3	ICT services exports, % total trade..... 0.6 94		
4.1.2	Domestic credit to private sector, % GDP.....		64.5	49	6.3.4	FDI net outflows, % GDP..... 0.2 92		
4.1.3	Microfinance gross loans, % GDP.....		28.2	1	CREATIVE OUTPUTS..... 15.7 111			
4.2	Investment.....		40.0	[72]	7.1	Intangible assets..... 25.0 121		
4.2.1	Ease of protecting minority investors*.....		40.0	114	7.1.1	Trademarks by origin/bn PPP\$ GDP..... 41.7 62		
4.2.2	Market capitalization, % GDP.....		n/a	n/a	7.1.2	Industrial designs by origin/bn PPP\$ GDP..... 0.2 103		
4.2.3	Venture capital deals/bn PPP\$ GDP.....		n/a	n/a	7.1.3	ICTs & business model creation*..... 39.0 122		
4.3	Trade, competition, & market scale.....		54.1	91	7.1.4	ICTs & organizational model creation*..... 31.7 122		
4.3.1	Applied tariff rate, weighted avg., %.....		6.1	95	7.2	Creative goods & services..... 11.7 79		
4.3.2	Intensity of local competition*.....		63.8	85	7.2.1	Cultural & creative services exports, % total trade..... 0.1 89		
4.3.3	Domestic market scale, bn PPP\$.....		89.4	83	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.