

BOSNIA AND HERZEGOVINA

GII 2019 rank

76

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$	GDP per capita, PPP\$	GII 2018 rank
79	71	Upper middle	EUR	3.5	47.3	13,491.0	77
Score/Value Rank							
 INSTITUTIONS.....	58.9	79					
1.1 Political environment.....	44.3	94	◊				
1.1.1 Political and operational stability*.....	63.2	86					
1.1.2 Government effectiveness*.....	34.9	96	◊				
1.2 Regulatory environment.....	68.7	59					
1.2.1 Regulatory quality*.....	37.9	82					
1.2.2 Rule of law*.....	40.8	73					
1.2.3 Cost of redundancy dismissal, salary weeks.....	9.2	24	●				
1.3 Business environment.....	63.7	87					
1.3.1 Ease of starting a business*.....	59.6	128	○ ◊				
1.3.2 Ease of resolving insolvency*.....	67.8	34	● ◆				
 HUMAN CAPITAL & RESEARCH.....	42.0	37	◆				
2.1 Education.....	92.2	[1]					
2.1.1 Expenditure on education, % GDP.....	n/a	n/a					
2.1.2 Government funding/pupil, secondary, % GDP/cap.....	n/a	n/a					
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.....	9.3	21	●				
2.2 Tertiary education.....	29.7	71					
2.2.1 Tertiary enrolment, % gross.....	n/a	n/a					
2.2.2 Graduates in science & engineering, %.....	20.3	64					
2.2.3 Tertiary inbound mobility, %.....	7.1	31	◆				
2.3 Research & development (R&D).....	4.1	79					
2.3.1 Researchers, FTE/mn pop.....	463.9	70					
2.3.2 Gross expenditure on R&D, % GDP.....	0.2	89					
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*.....	7.0	67					
 INFRASTRUCTURE.....	35.3	100	◊				
3.1 Information & communication technologies(ICTs).....	50.1	95					
3.1.1 ICT access*.....	65.8	66					
3.1.2 ICT use*.....	48.1	74					
3.1.3 Government's online service*.....	43.1	112	○ ◊				
3.1.4 E-participation*.....	43.3	109	◊				
3.2 General infrastructure.....	25.5	99					
3.2.1 Electricity output, kWh/mn pop.....	5,047.4	43					
3.2.2 Logistics performance*.....	34.8	71					
3.2.3 Gross capital formation, % GDP.....	17.2	108	○				
3.3 Ecological sustainability.....	30.4	92	◊				
3.3.1 GDP/unit of energy use.....	5.6	102	◊				
3.3.2 Environmental performance*.....	41.8	117	○ ◊				
3.3.3 ISO 14001 environmental certificates/bn PPP\$ GDP..	5.5	20	●				
 MARKET SOPHISTICATION.....	49.3	62					
4.1 Credit.....	34.3	71					
4.1.1 Ease of getting credit*.....	65.0	54					
4.1.2 Domestic credit to private sector, % GDP.....	54.4	59					
4.1.3 Microfinance gross loans, % GDP.....	0.8	25					
4.2 Investment.....	58.3	[22]					
4.2.1 Ease of protecting minority investors*.....	58.3	68					
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.....	55.1	88					
4.3.1 Applied tariff rate, weighted avg., %.....	2.5	60					
4.3.2 Intensity of local competition*.....	61.9	97	◊				
4.3.3 Domestic market scale, bn PPP\$.....	47.3	97					
Score/Value Rank							
 BUSINESS SOPHISTICATION.....	26.5	88					
5.1 Knowledge workers.....	37.8	59					
5.1.1 Knowledge-intensive employment, %.....	22.1	68					
5.1.2 Firms offering formal training, % firms.....	52.4	16	●				
5.1.3 GERD performed by business, % GDP.....	0.1	67					
5.1.4 GERD financed by business, %.....	29.1	62					
5.1.5 Females employed w/advanced degrees, %.....	6.9	81					
5.2 Innovation linkages.....	21.9	72					
5.2.1 University/industry research collaboration*.....	27.2	114	○ ◊				
5.2.2 State of cluster development.....	37.4	97					
5.2.3 GERD financed by abroad, %.....	16.4	23	●				
5.2.4 JV-strategic alliance deals/bn PPP\$ GDP.....	0.0	58					
5.2.5 Patent families 2+ offices/bn PPP\$ GDP.....	0.0	93	○ ◊				
5.3 Knowledge absorption.....	19.8	125	○ ◊				
5.3.1 Intellectual property payments, % total trade.....	0.1	97					
5.3.2 High-tech imports, % total trade.....	5.0	106					
5.3.3 ICT services imports, % total trade.....	0.6	101					
5.3.4 FDI net inflows, % GDP.....	2.2	79					
5.3.5 Research talent, % in business enterprise.....	7.2	66					
 KNOWLEDGE & TECHNOLOGY OUTPUTS....	21.8	65					
6.1 Knowledge creation.....	8.2	79					
6.1.1 Patents by origin/bn PPP\$ GDP.....	1.9	46					
6.1.2 PCT patents by origin/bn PPP\$ GDP.....	0.1	66					
6.1.3 Utility models by origin/bn PPP\$ GDP.....	n/a	n/a					
6.1.4 Scientific & technical articles/bn PPP\$ GDP.....	8.0	58					
6.1.5 Citable documents H-index.....	3.3	111	○				
6.2 Knowledge impact.....	42.0	41					
6.2.1 Growth rate of PPP\$ GDP/worker, %.....	3.7	15	●				
6.2.2 New businesses/th pop. 15-64.....	1.1	67					
6.2.3 Computer software spending, % GDP.....	0.1	92					
6.2.4 ISO 9001 quality certificates/bn PPP\$ GDP.....	25.4	8	● ◆				
6.2.5 High- & medium-high-tech manufactures, %.....	0.2	64					
6.3 Knowledge diffusion.....	15.3	76					
6.3.1 Intellectual property receipts, % total trade.....	0.2	42	◆				
6.3.2 High-tech net exports, % total trade.....	2.4	50					
6.3.3 ICT services exports, % total trade.....	1.8	60					
6.3.4 FDI net outflows, % GDP.....	0.4	75					
 CREATIVE OUTPUTS.....	19.0	99					
7.1 Intangible assets.....	27.2	115	○ ◊				
7.1.1 Trademarks by origin/bn PPP\$ GDP.....	16.5	92					
7.1.2 Industrial designs by origin/bn PPP\$ GDP.....	2.4	46					
7.1.3 ICTs & business model creation*.....	44.0	116	○ ◊				
7.1.4 ICTs & organizational model creation*.....	39.0	115	○ ◊				
7.2 Creative goods & services.....	13.2	74					
7.2.1 Cultural & creative services exports, % total trade.....	0.0	96					
7.2.2 National feature films/mn pop. 15-69.....	7.3	26	● ◆				
7.2.3 Entertainment & Media market/th pop. 15-69.....	n/a	n/a					
7.2.4 Printing & other media, % manufacturing.....	1.2	53					
7.2.5 Creative goods exports, % total trade.....	0.4	67					
7.3 Online creativity.....	8.3	56					
7.3.1 Generic top-level domains (TLDs)/th pop. 15-69.....	2.7	69					
7.3.2 Country-code TLDs/th pop. 15-69.....	2.3	64					
7.3.3 Wikipedia edits/mn pop. 15-69.....	41.7	34	● ◆				
7.3.4 Mobile app creation/bn PPP\$ GDP.....	0.1	80					

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.