# LEBANON

GII 2020 rank

**87**

| Output rank | Input rank | Income | Region | Population (mn) | GDP, PPP$ | GDP per capita, PPP$ | GII 2019 rank |
|---|---|---|---|---|---|---|---|
| 80 | 93 | Upper middle | NAWA | 6.9 | 91.3 | 13,138.2 | 88 |

| | | Score/Value | Rank | |
|---|---|---|---|---|
| | **INSTITUTIONS** | **52.2** | **103** | ◇ |
| **1.1** | **Political environment** | **38.8** | **123** | ○ ◇ |
| 1.1.1 | Political and operational stability* | 44.6 | 130 | ○ ◇ |
| 1.1.2 | Government effectiveness* | 35.8 | 113 | ○ ◇ |
| **1.2** | **Regulatory environment** | **64.2** | **67** | |
| 1.2.1 | Regulatory quality* | 32.8 | 96 | |
| 1.2.2 | Rule of law* | 26.7 | 110 | ◇ |
| 1.2.3 | Cost of redundancy dismissal, salary weeks | 8.7 | 20 | ● |
| **1.3** | **Business environment** | **53.6** | **121** | ○ ◇ |
| 1.3.1 | Ease of starting a business* | 78.2 | 112 | |
| 1.3.2 | Ease of resolving insolvency* | 29.1 | 121 | ○ ◇ |
| | **HUMAN CAPITAL & RESEARCH** | **24.7** | **85** | |
| **2.1** | **Education** | **21.9** | **123** | ○ ◇ |
| 2.1.1 | Expenditure on education, % GDP | 2.4 | 111 | ○ ◇ |
| 2.1.2 | Government funding/pupil, secondary, % GDP/cap | 6.4 | 102 | ○ ◇ |
| 2.1.3 | School life expectancy, years | n/a | n/a | |
| 2.1.4 | PISA scales in reading, maths, & science | 376.8 | 73 | ○ |
| 2.1.5 | Pupil-teacher ratio, secondary | 7.7 | 7 | ● ◆ |
| **2.2** | **Tertiary education** | **38.7** | **48** | |
| 2.2.1 | Tertiary enrolment, % gross | n/a | n/a | |
| 2.2.2 | Graduates in science & engineering, % | 23.4 | 47 | |
| 2.2.3 | Tertiary inbound mobility, % | 9.3 | 22 | ● ◆ |
| **2.3** | **Research & development (R&D)** | **13.4** | **[49]** | |
| 2.3.1 | Researchers, FTE/mn pop | n/a | n/a | |
| 2.3.2 | Gross expenditure on R&D, % GDP | n/a | n/a | |
| 2.3.3 | Global R&D companies, avg. exp. top 3, mn $US | 0.0 | 42 | ○ ◇ |
| 2.3.4 | QS university ranking, average score top 3* | 26.8 | 43 | |
| | **INFRASTRUCTURE** | **31.6** | **98** | ◇ |
| **3.1** | **Information & communication technologies (ICTs)** | **48.9** | **100** | ◇ |
| 3.1.1 | ICT access* | 62.6 | 70 | |
| 3.1.2 | ICT use* | 41.2 | 98 | ◇ |
| 3.1.3 | Government's online service* | 47.2 | 110 | ◇ |
| 3.1.4 | E-participation* | 44.4 | 108 | ◇ |
| **3.2** | **General infrastructure** | **21.2** | **93** | |
| 3.2.1 | Electricity output, kWh/mn pop | 3,329.1 | 59 | |
| 3.2.2 | Logistics performance* | 30.3 | 78 | |
| 3.2.3 | Gross capital formation, % GDP | n/a | n/a | |
| **3.3** | **Ecological sustainability** | **24.7** | **83** | |
| 3.3.1 | GDP/unit of energy use | 8.7 | 70 | |
| 3.3.2 | Environmental performance* | 45.4 | 70 | |
| 3.3.3 | ISO 14001 environmental certificates/bn PPP$ GDP | 0.6 | 78 | |
| | **MARKET SOPHISTICATION** | **43.1** | **90** | |
| **4.1** | **Credit** | **35.2** | **88** | |
| 4.1.1 | Ease of getting credit* | 40.0 | 113 | ○ ◇ |
| 4.1.2 | Domestic credit to private sector, % GDP | 105.8 | 21 | ● ◆ |
| 4.1.3 | Microfinance gross loans, % GDP | 0.2 | 54 | |
| **4.2** | **Investment** | **26.2** | **109** | |
| 4.2.1 | Ease of protecting minority investors* | 44.0 | 98 | |
| 4.2.2 | Market capitalization, % GDP | 20.8 | 56 | |
| 4.2.3 | Venture capital deals/bn PPP$ GDP | 0.1 | 20 | ● |
| **4.3** | **Trade, competition, and market scale** | **67.8** | **41** | |
| 4.3.1 | Applied tariff rate, weighted avg., % | 1.1 | 13 | ● |
| 4.3.2 | Intensity of local competition† | 79.0 | 12 | ● ◆ |
| 4.3.3 | Domestic market scale, bn PPP$ | 91.3 | 87 | |

| | | Score/Value | Rank | |
|---|---|---|---|---|
| | **BUSINESS SOPHISTICATION** | **23.3** | **80** | |
| **5.1** | **Knowledge workers** | **28.2** | **[73]** | |
| 5.1.1 | Knowledge-intensive employment, % | n/a | n/a | |
| 5.1.2 | Firms offering formal training, % | 26.6 | 57 | |
| 5.1.3 | GERD performed by business, % GDP | n/a | n/a | |
| 5.1.4 | GERD financed by business, % | n/a | n/a | |
| 5.1.5 | Females employed w/advanced degrees, % | n/a | n/a | |
| **5.2** | **Innovation linkages** | **21.8** | **60** | |
| 5.2.1 | University/industry research collaboration† | 43.2 | 58 | |
| 5.2.2 | State of cluster development† | 48.8 | 53 | |
| 5.2.3 | GERD financed by abroad, % GDP | n/a | n/a | |
| 5.2.4 | JV-strategic alliance deals/bn PPP$ GDP | 0.0 | 82 | |
| 5.2.5 | Patent families 2+ offices/bn PPP$ GDP | 0.0 | 77 | |
| **5.3** | **Knowledge absorption** | **19.9** | **98** | |
| 5.3.1 | Intellectual property payments, % total trade | 0.1 | 101 | |
| 5.3.2 | High-tech imports, % total trade | 3.9 | 123 | ○ |
| 5.3.3 | ICT services imports, % total trade | 1.8 | 33 | ◆ |
| 5.3.4 | FDI net inflows, % GDP | 4.8 | 29 | ● |
| 5.3.5 | Research talent, % in business enterprise | n/a | n/a | |
| | **KNOWLEDGE & TECHNOLOGY OUTPUTS** | **17.0** | **[76]** | |
| **6.1** | **Knowledge creation** | **18.3** | **[53]** | |
| 6.1.1 | Patents by origin/bn PPP$ GDP | 1.3 | 56 | |
| 6.1.2 | PCT patents by origin/bn PPP$ GDP | n/a | n/a | |
| 6.1.3 | Utility models by origin/bn PPP$ GDP | n/a | n/a | |
| 6.1.4 | Scientific & technical articles/bn PPP$ GDP | 12.9 | 43 | |
| 6.1.5 | Citable documents H-index | 12.2 | 61 | |
| **6.2** | **Knowledge impact** | **14.9** | **[102]** | |
| 6.2.1 | Growth rate of PPP$ GDP/worker, % | -1.1 | 107 | ○ |
| 6.2.2 | New businesses/th pop. 15-64 | n/a | n/a | |
| 6.2.3 | Computer software spending, % GDP | 0.0 | 101 | ◇ |
| 6.2.4 | ISO 9001 quality certificates/bn PPP$ GDP | 6.9 | 39 | |
| 6.2.5 | High- and medium-high-tech manufacturing, % | n/a | n/a | |
| **6.3** | **Knowledge diffusion** | **17.8** | **85** | |
| 6.3.1 | Intellectual property receipts, % total trade | 0.1 | 62 | |
| 6.3.2 | High-tech net exports, % total trade | 0.2 | 102 | |
| 6.3.3 | ICT services exports, % total trade | 2.5 | 41 | |
| 6.3.4 | FDI net outflows, % GDP | 2.2 | 34 | ◆ |
| | **CREATIVE OUTPUTS** | **17.2** | **85** | |
| **7.1** | **Intangible assets** | **17.2** | **104** | |
| 7.1.1 | Trademarks by origin/bn PPP$ GDP | 15.1 | 102 | |
| 7.1.2 | Global brand value, top 5,000, % GDP | 9.6 | 61 | |
| 7.1.3 | Industrial designs by origin/bn PPP$ GDP | n/a | n/a | |
| 7.1.4 | ICTs & organizational model creation† | 42.4 | 106 | ◇ |
| **7.2** | **Creative goods and services** | **15.6** | **62** | |
| 7.2.1 | Cultural & creative services exports, % total trade | 1.9 | 7 | ● ◆ |
| 7.2.2 | National feature films/mn pop. 15-69 | 3.3 | 55 | |
| 7.2.3 | Entertainment & Media market/th pop. 15-69 | 3.6 | 49 | |
| 7.2.4 | Printing and other media, % manufacturing | n/a | n/a | |
| 7.2.5 | Creative goods exports, % total trade | 0.5 | 60 | |
| **7.3** | **Online creativity** | **18.6** | **57** | |
| 7.3.1 | Generic top-level domains (TLDs)/th pop. 15-69 | 6.0 | 51 | |
| 7.3.2 | Country-code TLDs/th pop. 15-69 | 0.3 | 106 | |
| 7.3.3 | Wikipedia edits/mn pop. 15-69 | 46.9 | 66 | |
| 7.3.4 | Mobile app creation/bn PPP$ GDP | 24.2 | 23 | ● |

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.