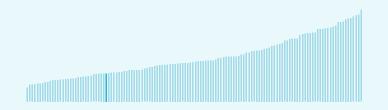


The Global Innovation Index (GII) ranks world economies according to their innovation capabilities.

Consisting of **roughly 80 indicators**, grouped into innovation inputs and outputs, the GII **aims to capture the multi-dimensional facets of innovation**.

Cambodia ranking in the Global Innovation Index 2023

Cambodia ranks 101st among the 132 economies featured in the GII 2023.



> Cambodia ranks 21st among the 37 lowermiddle-income group economies.



Cambodia ranks 15th among the 16 economies in South East Asia, East Asia, and Oceania.



> Cambodia GII Ranking (2020-2023)

The table shows the rankings of Cambodia over the past four years. Data availability and changes to the GII model framework influence year-on-year comparisons of the GII rankings. The statistical confidence interval for the ranking of Cambodia in the GII 2023 is between ranks 97 and 104.

| | GII Position |
|------|--------------|
| 2020 | 110th |
| 2021 | 109th |
| 2022 | 97th |
| 2023 | 101st |

| Innovation Inputs | Innovation Outputs |
|-------------------|--------------------|
| 117th | 101st |
| 106th | 104th |
| 92nd | 102nd |
| 97th | 100th |

Cambodia performs worse in innovation outputs than innovation inputs in 2023.

This year Cambodia ranks 97th in innovation inputs.
This position is lower than last year.

Cambodia ranks
100th in innovation
outputs. This position
is higher than last
year.



→ Expected vs. observed innovation performance

The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected and those below are performing below expectations.



> Relative to GDP, Cambodia's performance is at expectations for its level of development.

> Innovation overperformers relative to their economic development ↑ GII Score Innovation leader Performing above expectations for level of development Performing at expectations for level of development Performing below expectations for level of 30 development Size legend (Population) 0 0.8 0.9 1 →GDP per capita, PPP logarithmic scale (thousands of \$)



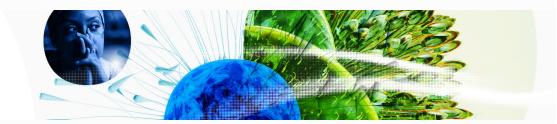
→ Effectively translating innovation investments into innovation outputs

The chart below shows the relationship between innovation inputs and innovation outputs. Economies above the line are effectively translating costly innovation investments into more and higher-quality outputs.



> Cambodia produces less innovation outputs relative to its level of innovation investments.





→ Overview of Cambodia's rankings in the seven areas of the GII in 2023

The chart shows the ranking for each of the seven areas that the GII comprises. The strongest areas for Cambodia are those that rank above the GII (shown in blue) and the weakest are those that rank below.

Highest rankings → 59th Market sophistication 87th Institutions 93rd Knowledge and technology outputs 101st 1 pillar and the Global Innovation Index * 103rd Creative outputs 108th Infrastructure ← Lowest rankings 125th Business sophistication * Human capital and research

> Highest rankings



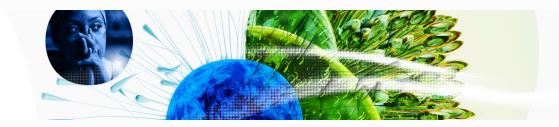
Cambodia ranks highest in Market sophistication (59th), Institutions (87th), Knowledge and technology outputs (93rd) and Human capital and research (101st).

> Lowest rankings



Cambodia ranks lowest in Business sophistication (125th), Infrastructure (108th) and Creative outputs (103rd).

The full WIPO Intellectual Property Statistics profile for Cambodia can be found on this link.



→ Benchmark of Cambodia against other country groupings for each of the seven areas of the GII Index

The charts shows the relative position of Cambodia (blue bar) against other country groupings (grey bars), for each of the seven areas of the GII Index.

> Lower-Middle-Income economies

Cambodia performs below the lower-middle-income group average in Knowledge and technology outputs, Creative outputs, Business sophistication, Human capital and research, Infrastructure.

> South East Asia, East Asia, And Oceania

Cambodia performs below the regional average in all the pillars

Knowledge and technology outputs

Top 10 | Score: 58.96

SEAO | Score: 32.16

Lower middle income | Score: 17.21

Cambodia | Score: 14.59

* South East Asia, East Asia, and Oceania

Creative outputs

Top 10 | 56.09

SEAO | 34.40

Lower middle income | 16.35

Cambodia | 11.58

Business sophistication

Top 10 | 64.39

SEAO | 40.54

Lower middle income | 22.71

Cambodia | 16.16

Market sophistication

Top 10 | 61.93

SEAO | 47.18

Cambodia | 36.74

Lower middle income | 28.01

Human capital and research

Top 10 | 60.28

SEAO | 40.81

Lower middle income | 21.73

Cambodia | 20.52

Infrastructure

Top 10 | 62.83

SEAO | 47.13

Lower middle income | 27.83

Cambodia | 25.06

Institutions

Top 10 | 79.85

SEAO | 62.54

Cambodia | 44.21

Lower middle income | 39.43



→ Innovation strengths and weaknesses in Cambodia

The table below gives an overview of the indicator strengths and weaknesses of Cambodia in the GII 2023.



> Cambodia's main innovation strengths are Loans from microfinance institutions, % GDP (rank 1), FDI net inflows, % GDP (rank 9) and Domestic credit to private sector, % GDP (rank 13).

Strengths Weaknesses

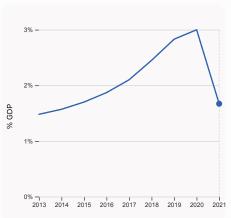
| Rank | Code | Indicator name | Rank | Code | Indicator name |
|------|-------|---|------|-------|---|
| 1 | 4.1.3 | Loans from microfinance institutions, % GDP | 129 | 6.1.1 | Patents by origin/bn PPP\$ GDP |
| 9 | 5.3.4 | FDI net inflows, % GDP | 124 | 2.1.1 | Expenditure on education, % GDP |
| 13 | 4.1.2 | Domestic credit to private sector, % GDP | 118 | 5.1.1 | Knowledge-intensive employment, % |
| 22 | 6.2.1 | Labor productivity growth, % | 106 | 2.2.3 | Tertiary inbound mobility, % |
| 31 | 2.1.5 | Pupil-teacher ratio, secondary | 103 | 3.2.2 | Logistics performance |
| 53 | 1.1.1 | Operational stability for businesses | 101 | 6.1.2 | PCT patents by origin/bn PPP\$ GDP |
| 54 | 7.3.4 | Mobile app creation/bn PPP\$ GDP | 74 | 7.1.3 | Global brand value, top 5,000 |
| 54 | 3.2.3 | Gross capital formation, % GDP | 71 | 2.3.4 | QS university ranking, top 3 |
| 57 | 5.2.4 | Joint venture/strategic alliance deals/bn PPP\$ | 48 | 6.2.2 | Unicorn valuation, % GDP |
| 60 | 7.2.4 | Creative goods exports, % total trade | 40 | 2.3.3 | Global corporate R&D investors, top 3, mn US\$ |



→ Cambodia's innovation system

As far as practicable, the plots below present unscaled indicator data.

> Innovation inputs in Cambodia



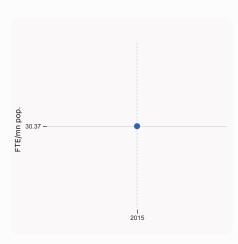
2.1.1 Expenditure on education, % GDP

was equal to 1.67% GDP in 2021, down by 1.33 percentage points from the year prior – and equivalent to an indicator rank of 124.



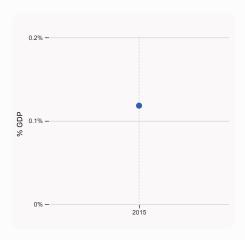
2.2.2 Graduates in science and engineering, %

was equal to 23.2 % of total tertiary graduates in 2019, equivalent to an indicator rank of 53.



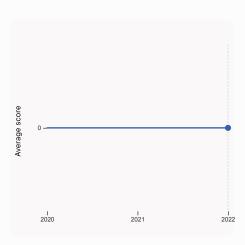
2.3.1 Researchers, FTE/mn pop.

was equal to 30.37 FTE/mn pop. in 2015, equivalent to an indicator rank of 99.



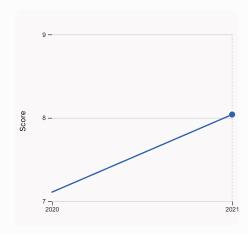
2.3.2 Gross expenditure on R&D, % GDP

was equal to 0.118 % GDP in 2015, equivalent to an indicator rank of 102.



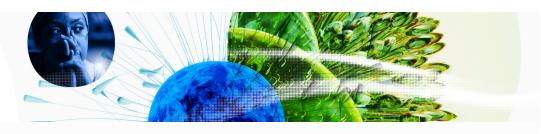
2.3.4 QS university ranking, top 3

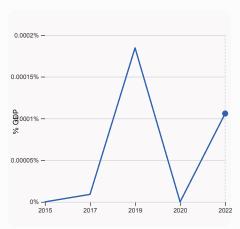
was equal to an average score of 0 for the top 3 universities in 2022, equivalent to an indicator rank of 71.

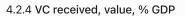


3.1.1 ICT access

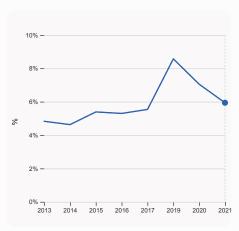
was equal to a score of 8.04 in 2021, up by 13.08% from the year prior – and equivalent to an indicator rank of 89.







was equal to 0.00011 % GDP in 2022, equivalent to an indicator rank of 89.

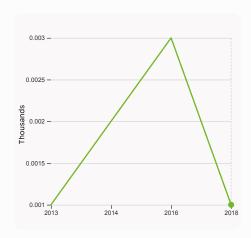


5.1.1 Knowledge-intensive employment, %

was equal to 5.94% in 2021, down by 1.11 percentage points from the year prior – and equivalent to an indicator rank of 118.

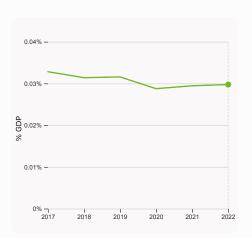


> Innovation outputs in Cambodia



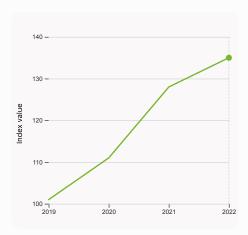
6.1.1 Patents by origin

was equal to 0.001 Thousands in 2018, down by 66.67% from the year prior – and equivalent to an indicator rank of 129.



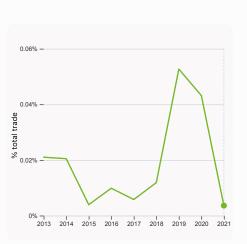
6.2.3 Software spending, % GDP

was equal to 0.03% GDP in 2022, up by 0.0003 percentage points from the year prior – and equivalent to an indicator rank of 114.



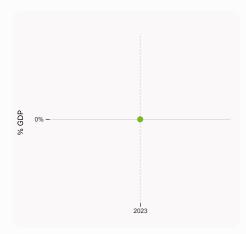
6.1.5 Citable documents H-index

was equal to an index value of 135 in 2022, up by 5.47% from the year prior – and equivalent to an indicator rank of 101.



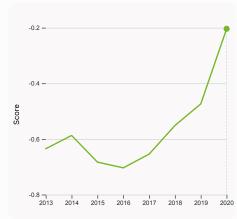
6.3.1 Intellectual property receipts, % total trade

was equal to 0.004% total trade in 2021, down by 0.04 percentage points from the year prior – and equivalent to an indicator rank of 79.



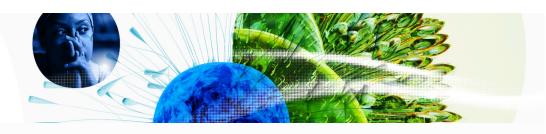
6.2.2 Unicorn valuation, % GDP

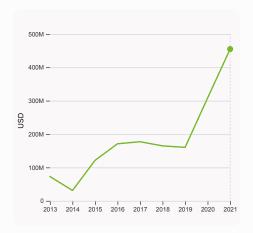
was equal to 0 % GDP in 2023 – and equivalent to an indicator rank of 48.

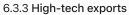


6.3.2 Production and export complexity

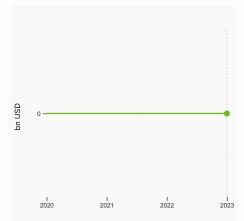
was equal to a score of -0.204 in 2020, up by 56.99% from the year prior – and equivalent to an indicator rank of 72.





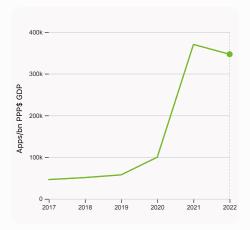


was equal to 454,821,929 USD in 2021, up by 47.47% from the year prior – and equivalent to an indicator rank of 65.



7.1.3 Global brand value, top 5,000

was equal to 0 bn USD in 2023 – and equivalent to an indicator rank of 74.

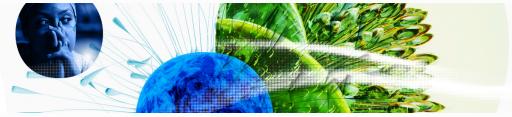


7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 346,718.38 Apps/bn PPP\$ GDP in 2022, down by 6.34% from the year prior – and equivalent to an indicator rank of 54.

Cambodia

1.1 Institutional environment



GII 2023 rank

101

| Output rank | Input rank | Income | Region | Population (mn) | GDP, PPP\$ (bn) | GDP per capita, PPP\$ |
|-------------|------------|--------------|--------|-----------------|-----------------|-----------------------|
| 100 | 97 | Lower middle | SEAO | 16.8 | 89.3 | 5,583.0 |

Score / Value Rank

87

44.2

41.4

| 10.6 | 69.5 | 5,565 | |
|--|--|--|---|
| | | Score / Value | Rank |
| 🖶 Business sophistica | ation | 16.2 | 125 ♦ |
| 5.1 Knowledge workers | | 11.6 | 118 💠 |
| 5.1.1 Knowledge-intensive e | mployment, % | 6 5.9 | 118 🔾 💠 |
| 5.1.2 Firms offering formal to | raining, % | Q 22.2 | 71 |
| 5.1.3 GERD performed by bu | | • 0.0 | 83 |
| 5.1.4 GERD financed by busi | | 1 9.4 | 67 |
| 5.1.5 Females employed w/a | dvanced degrees, % | © 2.1 | 108 |
| 5.2 Innovation linkages | | 15.6 | 94 |
| 5.2.1 University-industry R& | | 26.2 | 103 |
| 5.2.2 State of cluster develo | | 37.4 | 82 |
| 5.2.3 GERD financed by abro | · | • 0.0 | 52 |
| | alliance deals/bn PPP\$ GDP | 0.0 | 57 ● |
| 5.2.5 Patent families/bn PPP | | 0.0 | 86 |
| 5.3 Knowledge absorption | | 21.3 0.1 | 124 102 |
| 5.3.1 Intellectual property pa 5.3.2 High-tech imports, % | | 4.6 | 120 |
| 5.3.3 ICT services imports, 9 | | 0.7 | 99 |
| 5.3.4 FDI net inflows, % GDF | | 13.5 | 9 ● |
| 5.3.5 Research talent, % in b | | 9 4.3 | 71 |
| <u> </u> | | | |
| ✓ Knowledge and tecl | hnology outputs | 14.6 | 93 |
| | hnology outputs | | 93 |
| ✓ Knowledge and tech6.1 Knowledge creation6.1.1 Patents by origin/bn PF | | 3.3 • 0.0 | |
| 6.1 Knowledge creation | PP\$ GDP | 3.3 | 120 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PP | PP\$ GDP bn PPP\$ GDP | 3.3 • 0.0 | 120 129 〇 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l | PP\$ GDP bn PPP\$ GDP I/bn PPP\$ GDP | 3.3 • 0.0 0.0 | 120 129 ○ 101 ○ ◇ |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin | PP\$ GDP bn PPP\$ GDP I/bn PPP\$ GDP Il articles/bn PPP\$ GDP | 3.3 • 0.0 0.0 n/a | 120 129 ○ 101 ○ ◇ n/a |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technical | PP\$ GDP bn PPP\$ GDP I/bn PPP\$ GDP Il articles/bn PPP\$ GDP | 3.3 • 0.0 0.0 n/a n/a | 120 129 ○ 101 ○ ◇ n/a n/a |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP Il articles/bn PPP\$ GDP ndex | 3.3 0.0 0.0 n/a n/a 5.1 | 120 129 〇 101 〇 ◇ n/a n/a 101 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP il articles/bn PPP\$ GDP ndex wth, % | 3.3 • 0.0 0.0 n/a n/a 5.1 23.6 | 120 129 () 101 () () n/a n/a 101 87 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP | 3.3 • 0.0 0.0 n/a n/a 5.1 23.6 2.6 | 120 129 ○ 101 ○ ◇ n/a n/a 101 87 22 ● |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro | PP\$ GDP bn PPP\$ GDP l/bn PPP\$ GDP il articles/bn PPP\$ GDP ndex wth, % GDP GDP | 3.3 0.0 0.0 n/a 1.1 23.6 2.6 0.0 | 120 129 ○ 101 ○ ◇ n/a n/a 101 87 22 ● 48 ○ ◇ |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity grov 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % | PP\$ GDP bn PPP\$ GDP l/bn PPP\$ GDP il articles/bn PPP\$ GDP ndex wth, % GDP GDP | 3.3 0.0 0.0 n/a n/a 5.1 23.6 2.6 0.0 0.0 | 120 129 ○ 101 ○ ♦ n/a n/a 101 87 22 ● 48 ○ ♦ 114 ◆ |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % cceipts, % total trade | 3.3 0.0 0.0 n/a n/a 5.1 23.6 0.0 0.0 n/a 16.9 | 120 129 0 101 0 0 0 0 0 0 0 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re 6.3.2 Production and export | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % cceipts, % total trade complexity | 3.3 0.0 0.0 n/a n/a 5.1 23.6 0.0 0.0 n/a 16.9 0.0 48.3 | 120 129 ○ 101 ○ ◇ n/a n/a 101 87 22 ● 48 ○ ◇ 114 ◇ n/a 89 79 72 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re 6.3.2 Production and export 6.3.3 High-tech exports, % 1 | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP nl articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % eccipts, % total trade complexity total trade | 3.3 0.0 0.0 n/a n/a 5.1 23.6 0.0 0.0 n/a 16.9 0.0 48.3 1.7 | 120 129 ○ 101 ○ ◇ n/a n/a 101 87 22 ● 48 ○ ◇ 114 ◇ n/a 89 79 72 65 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity grov 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re 6.3.2 Production and export 6.3.3 High-tech exports, % 1 6.3.4 ICT services exports, % | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % eccipts, % total trade complexity total trade % total trade | 3.3 0.0 0.0 n/a n/a 5.1 23.6 0.0 0.0 n/a 16.9 0.0 48.3 1.7 0.3 | 120 129 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re 6.3.2 Production and export 6.3.3 High-tech exports, % 1 | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % eccipts, % total trade complexity total trade % total trade | 3.3 0.0 0.0 n/a n/a 5.1 23.6 0.0 0.0 n/a 16.9 0.0 48.3 1.7 | 120 129 ○ 101 ○ ◇ n/a n/a 101 87 22 ● 48 ○ ◇ 114 ◇ n/a 89 79 72 65 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/l 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity grov 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re 6.3.2 Production and export 6.3.3 High-tech exports, % 1 6.3.4 ICT services exports, % | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % eccipts, % total trade complexity total trade % total trade | 3.3 0.0 0.0 n/a n/a 5.1 23.6 0.0 0.0 n/a 16.9 0.0 48.3 1.7 0.3 | 120 129 |
| 6.1 Knowledge creation 6.1.1 Patents by origin/bn PF 6.1.2 PCT patents by origin/lo 6.1.3 Utility models by origin 6.1.4 Scientific and technica 6.1.5 Citable documents H-i 6.2 Knowledge impact 6.2.1 Labor productivity gro 6.2.2 Unicorn valuation, % 6 6.2.3 Software spending, % 6.2.4 High-tech manufactur 6.3 Knowledge diffusion 6.3.1 Intellectual property re 6.3.2 Production and export 6.3.3 High-tech exports, % 6.3.4 ICT services exports, 9 6.3.5 ISO 9001 quality/bn PF | PP\$ GDP bn PPP\$ GDP n/bn PPP\$ GDP al articles/bn PPP\$ GDP ndex wth, % GDP GDP ing, % eccipts, % total trade complexity total trade % total trade | 3.3 0.0 0.0 n/a n/a 5.1 23.6 2.6 0.0 0.0 n/a 16.9 0.0 48.3 1.7 0.3 2.6 | 120 129 \circ 101 \circ \stress n/a n/a 101 87 22 \circ 48 \circ \stress 114 \circ n/a 89 79 72 65 109 78 |

| 1.1.2 Government effectiveness* 1.2 Regulatory environment 1.2.1 Regulatory quality* 1.2.2 Rule of law* 1.2.3 Cost of redundancy dismissal 1.3 Business environment 1.3.1 Policies for doing business† 1.3.2 Entrepreneurship policies and culture† | 57.6 25.1 48.4 25.4 13.4 42.8 42.8 | 53 • 96 104 110 116 84 74 78 n/a |
|--|---|---|
| Human capital and research | 20.5 | 101 |
| 2.1 Education 2.1.1 Expenditure on education, % GDP 2.1.2 Government funding/pupil, secondary, % GDP/cap 2.1.3 School life expectancy, years 2.1.4 PISA scales in reading, maths and science 2.1.5 Pupil-teacher ratio, secondary 2.2 Tertiary education 2.2.1 Tertiary enrolment, % gross 2.2.2 Graduates in science and engineering, % 2.2.3 Tertiary inbound mobility, % 2.3 Research and development (R&D) 2.3.1 Researchers, FTE/mn pop. 2.3.2 Gross expenditure on R&D, % GDP 2.3.3 Global corporate R&D investors, top 3, mn US\$ 2.3.4 QS university ranking, top 3* | 45.2 1.7 n/a n/a n/a 9.9 15.9 13.0 23.2 0.3 0.5 30.4 0.1 0.0 0.0 | 81 124 ○ n/a n/a n/a 31 ● 100 107 53 106 ○ 109 99 102 40 ○ 71 ○ |
| ⇔ Infrastructure | 25.1 | 108 |
| 3.1 Information and communication technologies (ICTs) | 49.9 70.5 | 100 89 |
| 3.1.1 ICT access* 3.1.2 ICT use* 3.1.3 Government's online service* 3.1.4 E-participation* 3.2 General infrastructure 3.2.1 Electricity output, GWh/mn pop. 3.2.2 Logistics performance* 3.2.3 Gross capital formation, % GDP 3.3 Ecological sustainability 3.3.1 GDP/unit of energy use 3.3.2 Environmental performance* 3.3.3 ISO 14001 environment/bn PPP\$ GDP | 70.5 66.5 35.7 26.7 12.6 537.1 13.6 25.0 12.7 7.9 19.0 0.4 | 79 116 106 117 109 103 ○ 54 ● 115 88 112 95 |
| 3.1.2 ICT use* 3.1.3 Government's online service* 3.1.4 E-participation* 3.2 General infrastructure 3.2.1 Electricity output, GWh/mn pop. 3.2.2 Logistics performance* 3.2.3 Gross capital formation, % GDP 3.3 Ecological sustainability 3.3.1 GDP/unit of energy use 3.3.2 Environmental performance* | 66.5 35.7 26.7 12.6 537.1 13.6 25.0 12.7 7.9 19.0 | 79 116 106 117 109 103 ○ 54 • 115 88 112 |

| 7.1.3 Global brand value, top 5,000 | 0.0 | 74 ○ ◊ |
|---|-------|--------|
| 7.1.4 Industrial designs by origin/bn PPP\$ GDP | • 0.3 | 99 |
| 7.2 Creative goods and services | 6.7 | 79 |
| 7.2.1 Cultural and creative services exports, % total trade | n/a | n/a |
| 7.2.2 National feature films/mn pop. 15-69 | n/a | n/a |
| 7.2.3 Entertainment and media market/th pop. 15-69 | n/a | n/a |
| 7.2.4 Creative goods exports, % total trade | 0.6 | 60 ● |
| 7.3 Online creativity | 18.3 | 77 |
| 7.3.1 Generic top-level domains (TLDs)/th pop. 15-69 | 0.8 | 101 |
| 7.3.2 Country-code TLDs/th pop. 15-69 | 0.1 | 123 |
| 7.3.3 GitHub commits/mn pop. 15-69 | 1.7 | 103 |
| 7.3.4 Mobile app creation/bn PPP\$ GDP | 70.4 | 54 ● |
| | | |
| | | |

39.5

7.1.2 Trademarks by origin/bn PPP\$ GDP

NOTES: • indicates a strength; O a weakness; • an income group strength; \diamond an income group weakness; * an index; * a survey question, • indicates that the economy's data are older than the base year; see appendices for details, including the year of the data, at https://www.wipo.int/gii-ranking. Square brackets [] indicate that the data minimum coverage (DMC) requirements were not met at the sub-pillar or pillar level.



→ Data availability

The following tables list indicators that are either missing or outdated for Cambodia.



> Cambodia has missing data for thirteen indicators and outdated data for fourteen indicators.

> Missing data for Cambodia

| Code | Indicator name | Economy Year | Model Year | Source |
|-------|---|-----------------|---------------|--|
| 1.3.2 | Entrepreneurship policies and culture | n/a | 2022 | Global Entrepreneurship Monitor |
| 2.1.2 | Government funding/pupil, secondary, % GDP/cap | n/a | 2019 | UNESCO Institute for Statistics |
| 2.1.3 | School life expectancy, years | n/a | 2020 | UNESCO Institute for Statistics |
| 2.1.4 | PISA scales in reading, maths and science | n/a | 2018 | OECD, PISA |
| 4.1.1 | Finance for startups and scaleups | n/a | 2022 | Global Entrepreneurship Monitor |
| 4.2.1 | Market capitalization, % GDP | n/a | 2020 | World Federation of Exchanges; World Bank |
| 4.3.2 | Domestic industry diversification | n/a | 2020 | United Nations Industrial Development Organization |
| 6.1.3 | Utility models by origin/bn PPP\$ GDP | n/a | 2021 | World Intellectual Property Organization; International Monetary Fund |
| 6.2.4 | High-tech manufacturing, % | n/a | 2020 | United Nations Industrial Development Organization |
| 7.1.1 | Intangible asset intensity, top 15, % | n/a | 2022 | Brand Finance |
| 7.2.1 | Cultural and creative services exports, % total trade | n/a | 2021 | World Trade Organization and United Nations Conference on Trade and Development |
| 7.2.2 | National feature films/mn pop. 15-69 | n/a | 2021 | OMDIA; United Nations, World Population Prospects |
| 7.2.3 | Entertainment and media market/th pop. 15-69 | n/a | 2022 | PwC, GEMO; United Nations, World Population Prospects; International Monetary Fund |



> Outdated data for Cambodia

| Code | Indicator name | Economy Year | Model Year | Source |
|-------|---|-----------------|---------------|--|
| 2.2.2 | Graduates in science and engineering, % | 2019 | 2020 | UNESCO Institute for Statistics; Eurostat; OECD |
| 2.3.1 | Researchers, FTE/mn pop. | 2015 | 2021 | UNESCO Institute for Statistics; Eurostat; OECD; RICYT |
| 2.3.2 | Gross expenditure on R&D, % GDP | 2015 | 2021 | UNESCO Institute for Statistics; Eurostat; OECD; RICYT |
| 3.2.1 | Electricity output, GWh/mn pop. | 2020 | 2021 | International Energy Agency |
| 5.1.1 | Knowledge-intensive employment, % | 2021 | 2022 | International Labour Organization |
| 5.1.2 | Firms offering formal training, % | 2016 | 2019 | World Bank Enterprise Surveys |
| 5.1.3 | GERD performed by business, % GDP | 2015 | 2021 | UNESCO Institute for Statistics; Eurostat; OECD; RICYT |
| 5.1.4 | GERD financed by business, % | 2015 | 2020 | UNESCO Institute for Statistics; Eurostat; OECD; RICYT |
| 5.1.5 | Females employed w/advanced degrees, % | 2021 | 2022 | International Labour Organization |
| 5.2.3 | GERD financed by abroad, % GDP | 2015 | 2020 | UNESCO Institute for Statistics; Eurostat; OECD; RICYT |
| 5.3.5 | Research talent, % in businesses | 2015 | 2021 | UNESCO Institute for Statistics; Eurostat; OECD; RICYT |
| 6.1.1 | Patents by origin/bn PPP\$ GDP | 2018 | 2021 | World Intellectual Property Organization; International Monetary Fund |
| 7.1.2 | Trademarks by origin/bn PPP\$ GDP | 2019 | 2021 | World Intellectual Property Organization; International Monetary Fund |
| 7.1.4 | Industrial designs by origin/bn PPP\$ GDP | 2020 | 2021 | World Intellectual Property Organization; International Monetary Fund |



→ About the Global Innovation Index

- The Global Innovation Index (GII) is published by the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations.
- Recognizing that innovation is a key driver of economic development, the GII aims to provide an innovation ranking and rich analysis referencing around 130 economies. Over the last decade, the GII has established itself as both a leading reference on innovation and a "tool for action" for economies that incorporate the GII into their innovation agendas.



The Index is a ranking of the innovation capabilities and results of world economies. It measures innovation based on criteria that include institutions, human capital and research, infrastructure, credit, investment, linkages; the creation, absorption and diffusion of knowledge; and creative outputs.

The GII has two sub-indices: the Innovation Input Sub-Index and the Innovation Output Sub-Index, and seven pillars, each consisting of three sub-pillars.