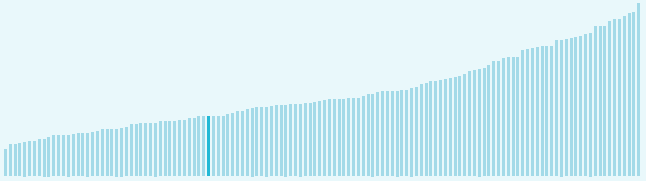


Global Innovation Index 2023

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**.

Sri Lanka ranking in the Global Innovation Index 2023

> Sri Lanka ranks **90th** among the 132 economies featured in the GII 2023.



> Sri Lanka ranks **13th** among the 37 lower-middle-income group economies.



> Sri Lanka ranks **6th** among the 10 economies in Central and Southern Asia.



> **Sri Lanka GII Ranking (2020-2023)**

The table shows the rankings of Sri Lanka 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 Sri Lanka in the GII 2023 is between ranks 85 and 98.

	GII Position	Innovation Inputs	Innovation Outputs
2020	101st	107th	83rd
2021	95th	103rd	85th
2022	85th	102nd	68th
2023	90th	103rd	79th

Sri Lanka performs better in innovation outputs than innovation inputs in 2023.

This year Sri Lanka ranks 103rd in innovation inputs. This position is lower than last year.

Sri Lanka ranks 79th in innovation outputs. This position is lower than last year.

Global Innovation Index 2023

→ Expected vs. observed innovation performance

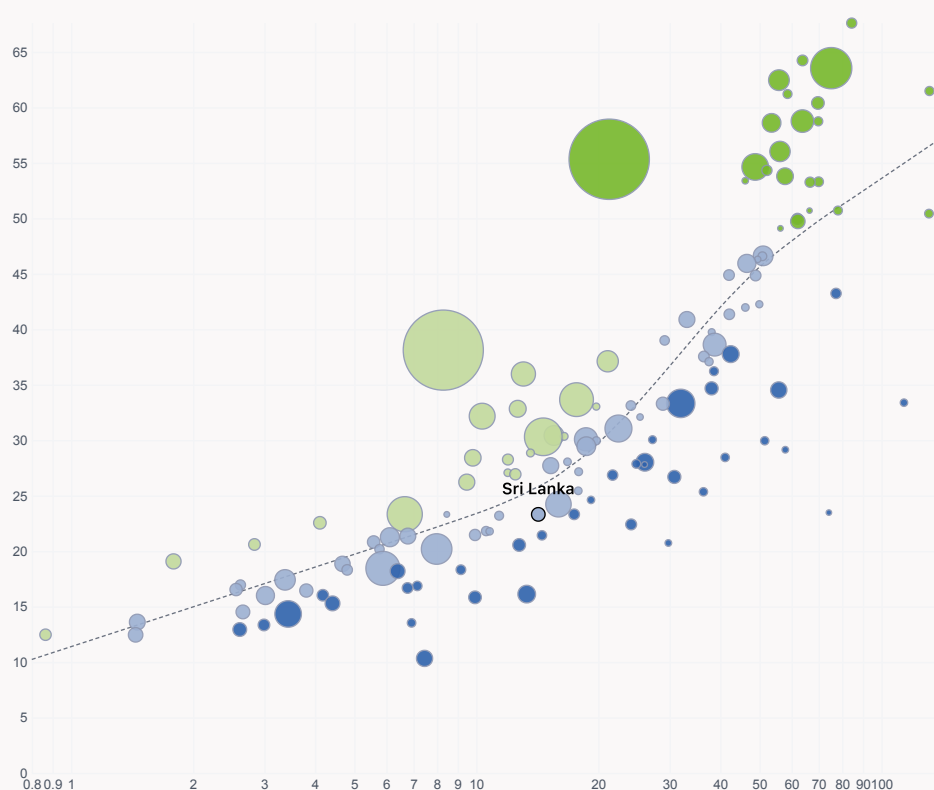
The bubble chart below shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The trend line gives an indication of the expected innovation performance according to income level. Economies appearing above the trend line are performing better than expected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



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

> Innovation overperformers relative to their economic development

↑ GI Score



- Innovation leader
- Performing above expectations for level of development
- Performing at expectations for level of development
- Performing below expectations for level of development

Size legend (Population)



→ GDP per capita, PPP logarithmic scale (thousands of \$)

Global Innovation Index 2023

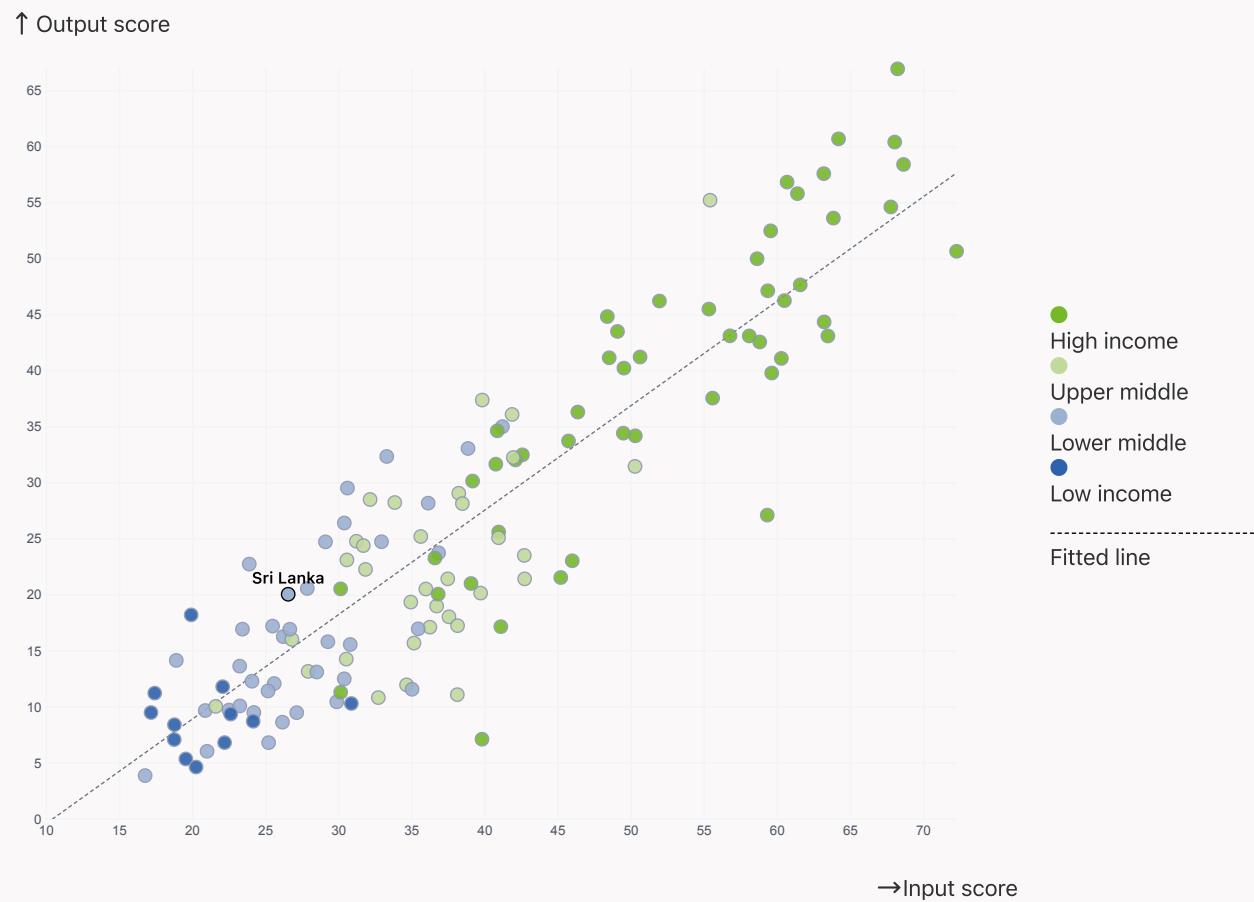
→ Effectively translating innovation investments into innovation outputs

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.



> Sri Lanka produces more innovation outputs relative to its level of innovation investments.

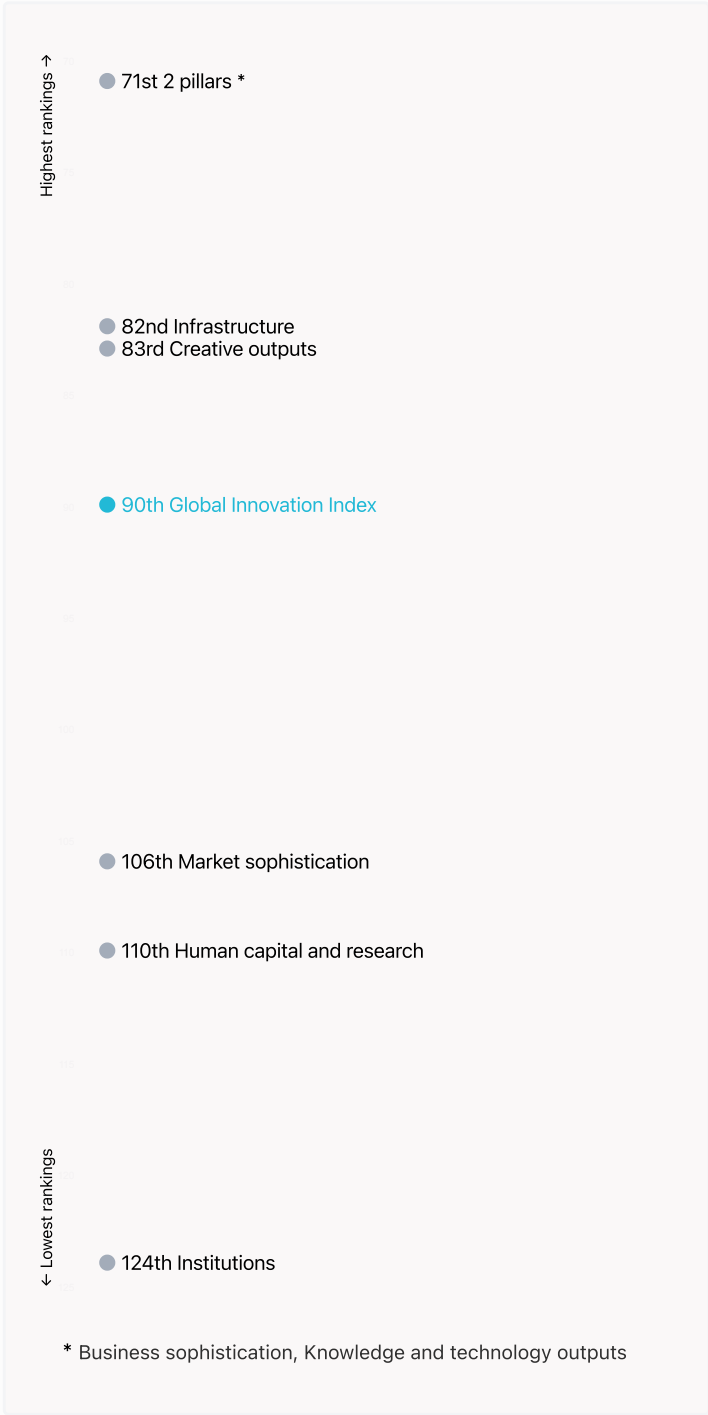
> Relationship between innovation inputs and outputs



Global Innovation Index 2023

→ Overview of Sri Lanka’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 Sri Lanka are those that rank above the GII (shown in blue) and the weakest are those that rank below.



> Highest rankings

Sri Lanka ranks highest in Business sophistication, Knowledge and technology outputs (71st), Infrastructure (82nd) and Creative outputs (83rd).

> Lowest rankings

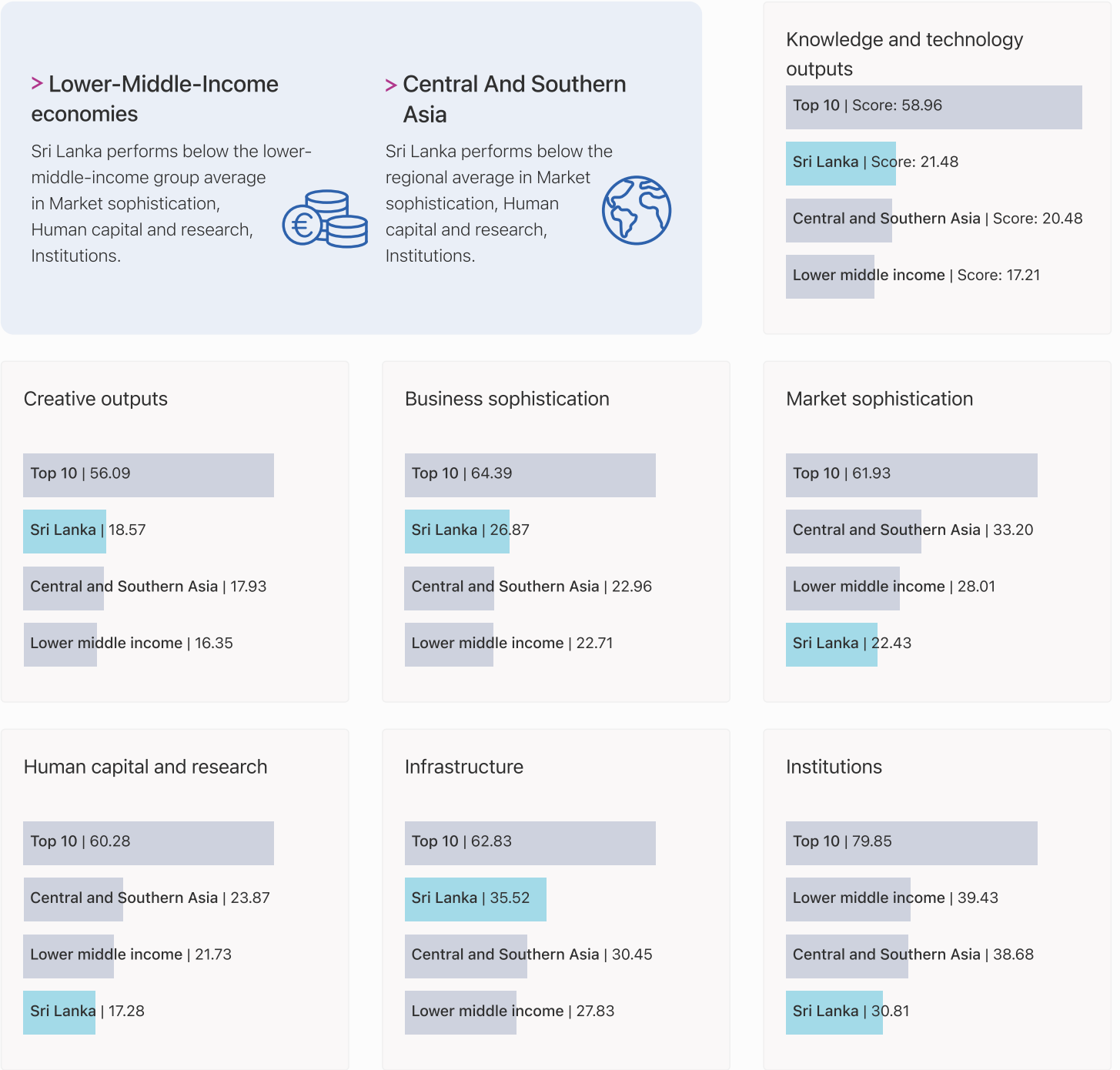
Sri Lanka ranks lowest in Institutions (124th), Human capital and research (110th) and Market sophistication (106th).

The full WIPO Intellectual Property Statistics profile for Sri Lanka can be found on [this link](#).

Global Innovation Index 2023

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

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



Global Innovation Index 2023

→ Innovation strengths and weaknesses in Sri Lanka

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



> Sri Lanka’s main innovation strengths are **GDP/unit of energy use** (rank 6), **ICT services exports, % total trade** (rank 14) and **Software spending, % GDP** (rank 20).

Strengths

Rank	Code	Indicator name
6	3.3.1	GDP/unit of energy use
14	6.3.4	ICT services exports, % total trade
20	6.2.3	Software spending, % GDP
24	5.3.2	High-tech imports, % total trade
40	5.2.4	Joint venture/strategic alliance deals/bn PPP\$ GDP
42	5.1.4	GERD financed by business, %
46	5.2.2	State of cluster development
49	5.2.1	University-industry R&D collaboration
51	7.3.3	GitHub commits/mn pop. 15-69
56	7.2.4	Creative goods exports, % total trade

Weaknesses

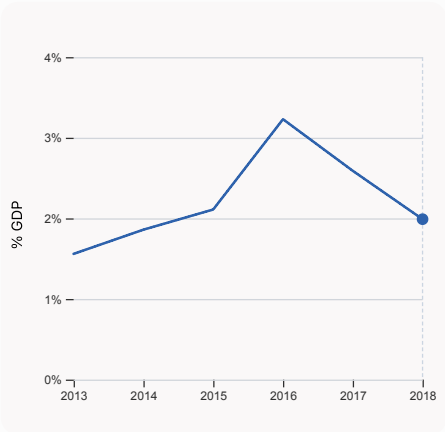
Rank	Code	Indicator name
130	1.2.3	Cost of redundancy dismissal
120	2.1.1	Expenditure on education, % GDP
105	2.2.3	Tertiary inbound mobility, %
97	2.1.2	Government funding/pupil, secondary, % GDP/cap
97	4.2.4	VC received, value, % GDP
92	4.2.2	Venture capital (VC) investors, deals/bn PPP\$ GDP
74	7.1.3	Global brand value, top 5,000
71	2.3.4	QS university ranking, top 3
48	6.2.2	Unicorn valuation, % GDP
40	2.3.3	Global corporate R&D investors, top 3, mn US\$

Global Innovation Index 2023

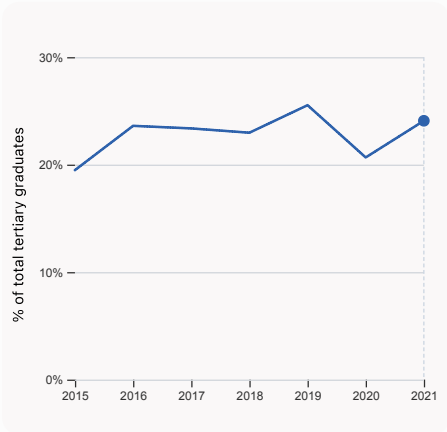
→ Sri Lanka's innovation system

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

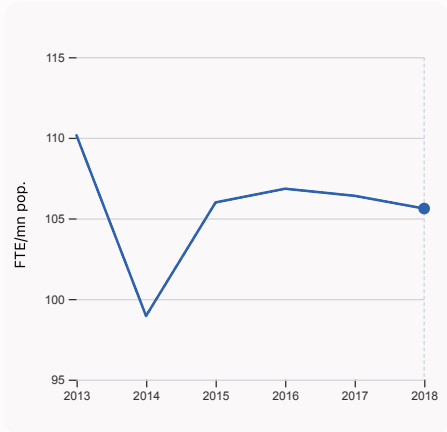
> Innovation inputs in Sri Lanka



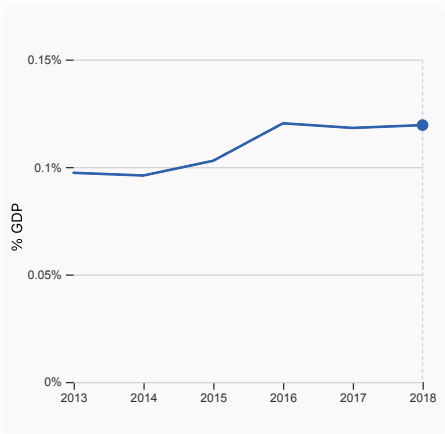
2.1.1 Expenditure on education, % GDP
was equal to 1.99% GDP in 2018, down by 0.6 percentage points from the year prior – and equivalent to an indicator rank of 120.



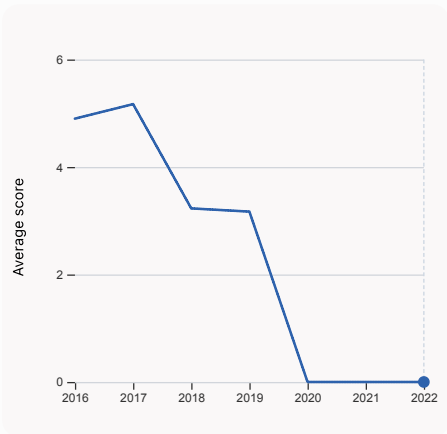
2.2.2 Graduates in science and engineering, %
was equal to 24.08% of total tertiary graduates in 2021, up by 3.41 percentage points from the year prior – and equivalent to an indicator rank of 48.



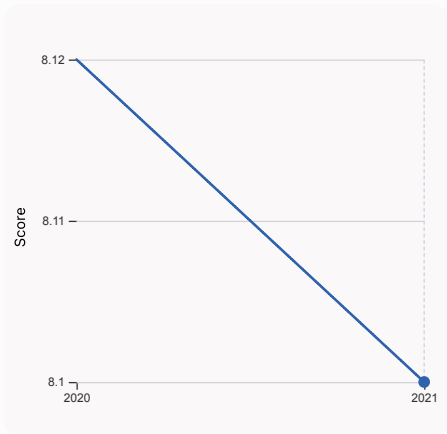
2.3.1 Researchers, FTE/mn pop.
was equal to 105.61 FTE/mn pop. in 2018, down by 0.74% from the year prior – and equivalent to an indicator rank of 89.



2.3.2 Gross expenditure on R&D, % GDP
was equal to 0.119% GDP in 2018, up by 0.0013 percentage points from the year prior – and equivalent to an indicator rank of 101.

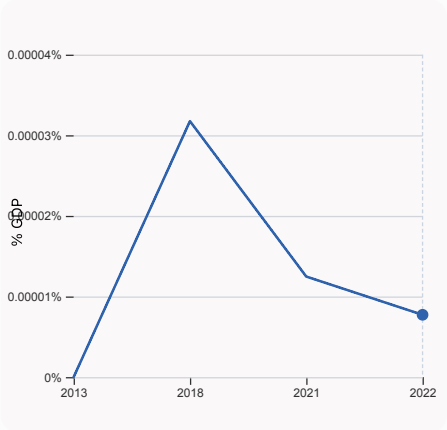


2.3.4 QS university ranking, top 3
was equal to an average score of 0 for the top 3 universities in 2022, equivalent to an indicator rank of 71.



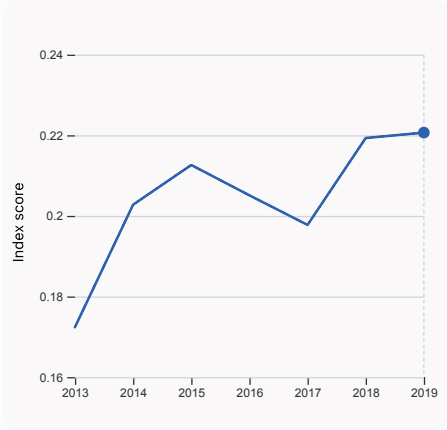
3.1.1 ICT access
was equal to a score of 8.1 in 2021, down by 0.25% from the year prior – and equivalent to an indicator rank of 88.

Global Innovation Index 2023



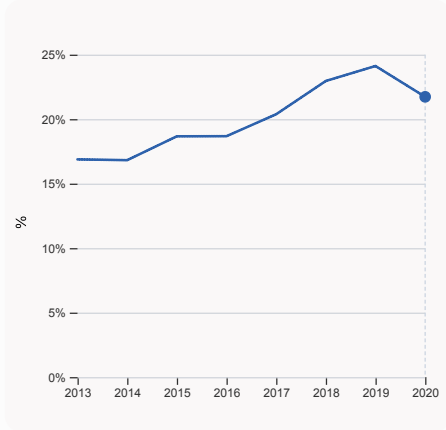
4.2.4 VC received, value, % GDP

was equal to 0.00001% GDP in 2022, down by 0.0000047 percentage points from the year prior – and equivalent to an indicator rank of 97.



4.3.2 Domestic industry diversification

was equal to an index score of 0.221 in 2019, up by 0.61% from the year prior – and equivalent to an indicator rank of 74.



5.1.1 Knowledge-intensive employment, %

was equal to 21.73% in 2020, down by 2.39 percentage points from the year prior – and equivalent to an indicator rank of 70.

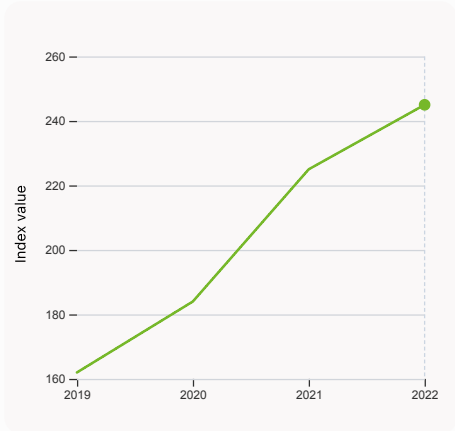
Global Innovation Index 2023

> Innovation outputs in Sri Lanka



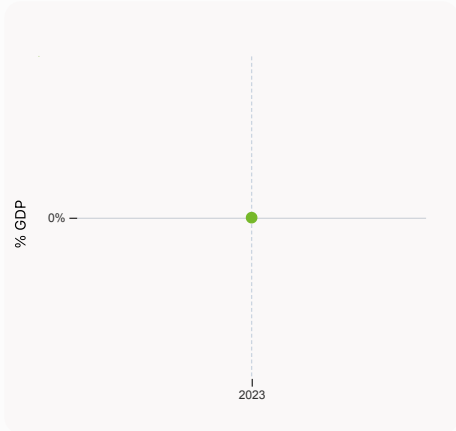
6.1.1 Patents by origin

was equal to 0.27 Thousands in 2021, down by 24.65% from the year prior – and equivalent to an indicator rank of 66.



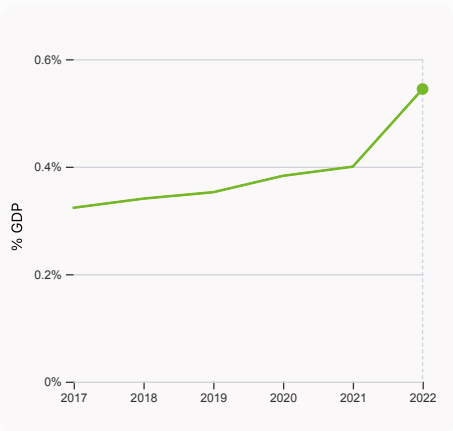
6.1.5 Citable documents H-index

was equal to an index value of 245 in 2022, up by 8.89% from the year prior – and equivalent to an indicator rank of 70.



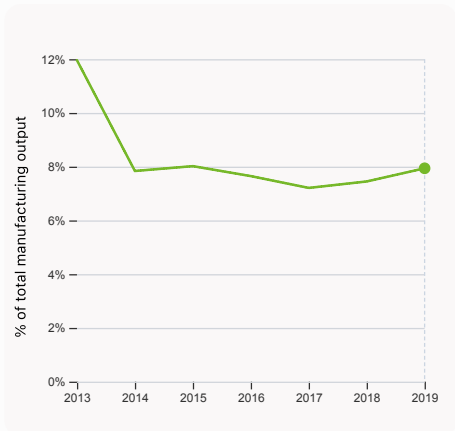
6.2.2 Unicorn valuation, % GDP

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



6.2.3 Software spending, % GDP

was equal to 0.545% GDP in 2022, up by 0.14 percentage points from the year prior – and equivalent to an indicator rank of 20.



6.2.4 High-tech manufacturing, %

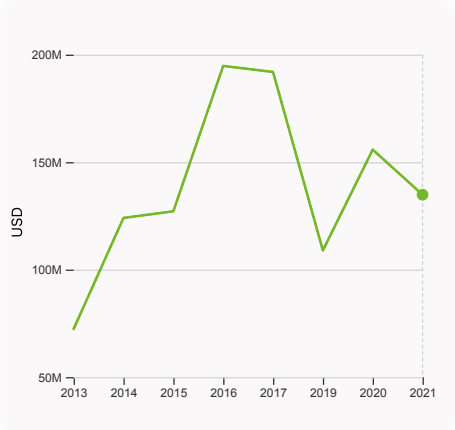
was equal to 7.94% of total manufacturing output in 2019, up by 0.49 percentage points from the year prior – and equivalent to an indicator rank of 95.



6.3.2 Production and export complexity

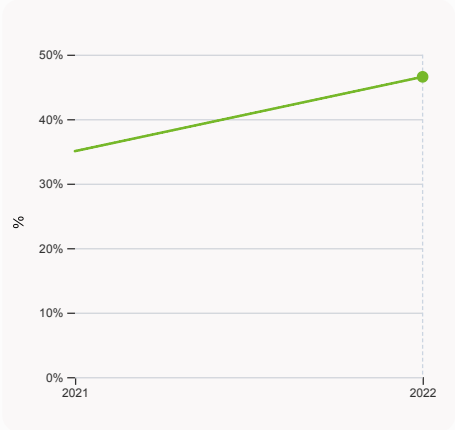
was equal to a score of -0.193 in 2020, up by 14.61% from the year prior – and equivalent to an indicator rank of 71.

Global Innovation Index 2023



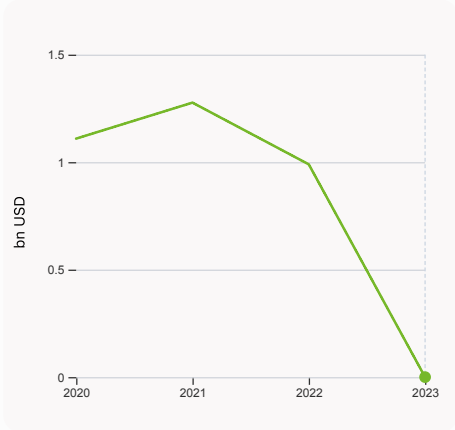
6.3.3 High-tech exports

was equal to 134,829,511 USD in 2021, down by 13.47% from the year prior – and equivalent to an indicator rank of 78.



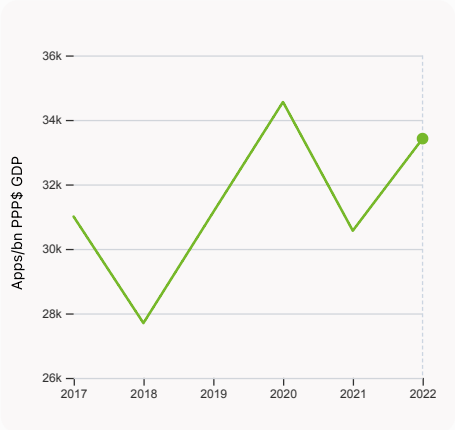
7.1.1 Intangible asset intensity, top 15, %

was equal to 46.56% in 2022, up by 11.52 percentage points from the year prior – and equivalent to an indicator rank of 54.



7.1.3 Global brand value, top 5,000

was equal to 0 bn USD in 2023, down by 100% from the year prior – and equivalent to an indicator rank of 74.



7.3.4 Mobile app creation/bn PPP\$ GDP

was equal to 33,419.7 Apps/bn PPP\$ GDP in 2022, up by 9.34% from the year prior – and equivalent to an indicator rank of 89.

Global Innovation Index 2023

→ Sri Lanka's innovation top performers

> 2.3.4 QS university ranking of Sri Lanka's top universities

Rank	University	Score
1001-1200	UNIVERSITY OF PERADENIYA	7.90
1201-1400	UNIVERSITY OF COLOMBO	6.40

Source: QS Quacquarelli Symonds Ltd (<https://www.topuniversities.com/university-rankings/world-university-rankings/2023>).

Note: QS Quacquarelli Symonds Ltd annually assesses over 1,200 universities across the globe and scores them between [0,100]. Ranks can represent a single value "x", a tie "x=" or a range "x-y".

> 7.1.1 Top 15 intangible-asset intensive companies in Sri Lanka

Rank	Firm	Intensity, %
1	LANKA IOC PLC	43.89
2	SOFTLOGIC HOLDINGS PLC	30.55
3	RICHARD PIERIS & CO PLC	31.98

Source: Brand Finance (<https://brandirectory.com/reports/gift-2022>).








Note: Brand Finance only provides within economy ranks.

Global Innovation Index 2023

Sri Lanka

GII 2023 rank

90

Output rank	Input rank	Income	Region	Population (mn)	GDP, PPP\$ (bn)	GDP per capita, PPP\$
79	103	Lower middle	CSA	21.8	318.7	14,230.1
Score / Value Rank				Score / Value Rank		
 Institutions				 Business sophistication		
1.1 Institutional environment				5.1 Knowledge workers		
1.1.1 Operational stability for businesses*				5.1.1 Knowledge-intensive employment, %		
1.1.2 Government effectiveness*				5.1.2 Firms offering formal training, %		
1.2 Regulatory environment				5.1.3 GERD performed by business, % GDP		
1.2.1 Regulatory quality*				5.1.4 GERD financed by business, %		
1.2.2 Rule of law*				5.1.5 Females employed w/advanced degrees, %		
1.2.3 Cost of redundancy dismissal				5.2 Innovation linkages		
1.3 Business environment				5.2.1 University-industry R&D collaboration†		
1.3.1 Policies for doing business†				5.2.2 State of cluster development†		
1.3.2 Entrepreneurship policies and culture†				5.2.3 GERD financed by abroad, % GDP		
 Human capital and research				5.2.4 Joint venture/strategic alliance deals/bn PPP\$ GDP		
2.1 Education				5.2.5 Patent families/bn PPP\$ GDP		
2.1.1 Expenditure on education, % GDP				5.3 Knowledge absorption		
2.1.2 Government funding/pupil, secondary, % GDP/cap				5.3.1 Intellectual property payments, % total trade		
2.1.3 School life expectancy, years				5.3.2 High-tech imports, % total trade		
2.1.4 PISA scales in reading, maths and science				5.3.3 ICT services imports, % total trade		
2.1.5 Pupil-teacher ratio, secondary				5.3.4 FDI net inflows, % GDP		
2.2 Tertiary education				5.3.5 Research talent, % in businesses		
2.2.1 Tertiary enrolment, % gross				 Knowledge and technology outputs		
2.2.2 Graduates in science and engineering, %				6.1 Knowledge creation		
2.2.3 Tertiary inbound mobility, %				6.1.1 Patents by origin/bn PPP\$ GDP		
2.3 Research and development (R&D)				6.1.2 PCT patents by origin/bn PPP\$ GDP		
2.3.1 Researchers, FTE/mn pop.				6.1.3 Utility models by origin/bn PPP\$ GDP		
2.3.2 Gross expenditure on R&D, % GDP				6.1.4 Scientific and technical articles/bn PPP\$ GDP		
2.3.3 Global corporate R&D investors, top 3, mn US\$				6.1.5 Citable documents H-index		
2.3.4 QS university ranking, top 3*				6.2 Knowledge impact		
 Infrastructure				6.2.1 Labor productivity growth, %		
3.1 Information and communication technologies (ICTs)				6.2.2 Unicorn valuation, % GDP		
3.1.1 ICT access*				6.2.3 Software spending, % GDP		
3.1.2 ICT use*				6.2.4 High-tech manufacturing, %		
3.1.3 Government's online service*				6.3 Knowledge diffusion		
3.1.4 E-participation*				6.3.1 Intellectual property receipts, % total trade		
3.2 General infrastructure				6.3.2 Production and export complexity		
3.2.1 Electricity output, GWh/mn pop.				6.3.3 High-tech exports, % total trade		
3.2.2 Logistics performance*				6.3.4 ICT services exports, % total trade		
3.2.3 Gross capital formation, % GDP				6.3.5 ISO 9001 quality/bn PPP\$ GDP		
3.3 Ecological sustainability				 Creative outputs		
3.3.1 GDP/unit of energy use				7.1 Intangible assets		
3.3.2 Environmental performance*				7.1.1 Intangible asset intensity, top 15, %		
3.3.3 ISO 14001 environment/bn PPP\$ GDP				7.1.2 Trademarks by origin/bn PPP\$ GDP		
 Market sophistication				7.1.3 Global brand value, top 5,000		
4.1 Credit				7.1.4 Industrial designs by origin/bn PPP\$ GDP		
4.1.1 Finance for startups and scaleups†				7.2 Creative goods and services		
4.1.2 Domestic credit to private sector, % GDP				7.2.1 Cultural and creative services exports, % total trade		
4.1.3 Loans from microfinance institutions, % GDP				7.2.2 National feature films/mn pop. 15-69		
4.2 Investment				7.2.3 Entertainment and media market/th pop. 15-69		
4.2.1 Market capitalization, % GDP				7.2.4 Creative goods exports, % total trade		
4.2.2 Venture capital (VC) investors, deals/bn PPP\$ GDP				7.3 Online creativity		
4.2.3 VC recipients, deals/bn PPP\$ GDP				7.3.1 Generic top-level domains (TLDs)/th pop. 15-69		
4.2.4 VC received, value, % GDP				7.3.2 Country-code TLDs/th pop. 15-69		
4.3 Trade, diversification, and market scale				7.3.3 GitHub commits/mn pop. 15-69		
4.3.1 Applied tariff rate, weighted avg., %				7.3.4 Mobile app creation/bn PPP\$ GDP		
4.3.2 Domestic industry diversification						
4.3.3 Domestic market scale, bn PPP\$						

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 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.

Global Innovation Index 2023

→ Data availability

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



> Sri Lanka has missing data for eleven indicators and outdated data for fifteen indicators.

> Missing data for Sri Lanka

Code	Indicator name	Economy Year	Model Year	Source
1.3.2	Entrepreneurship policies and culture	n/a	2022	Global Entrepreneurship Monitor
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
4.1.3	Loans from microfinance institutions, % GDP	n/a	2021	International Monetary Fund, Financial Access Survey (FAS)
5.1.2	Firms offering formal training, %	n/a	2019	World Bank Enterprise Surveys
5.3.1	Intellectual property payments, % total trade	n/a	2021	World Trade Organization and United Nations Conference on Trade and Development
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2021	World Intellectual Property Organization; International Monetary Fund
6.3.1	Intellectual property receipts, % total trade	n/a	2021	World Trade Organization and United Nations Conference on Trade and Development
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 Sri Lanka

Code	Indicator name	Economy Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2018	2021	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	2018	2019	UNESCO Institute for Statistics

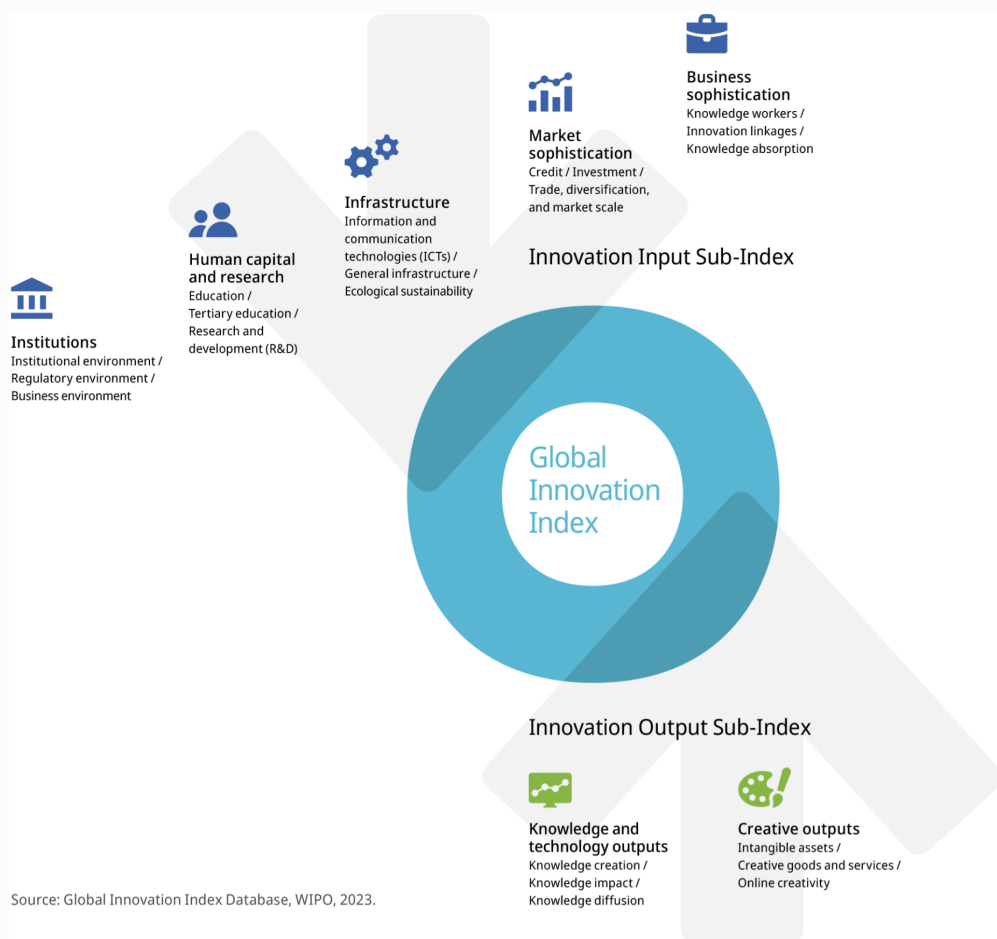
Global Innovation Index 2023

Code	Indicator name	Economy Year	Model Year	Source
2.1.3	School life expectancy, years	2018	2020	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
2.3.2	Gross expenditure on R&D, % GDP	2018	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
3.2.1	Electricity output, GWh/mn pop.	2020	2021	International Energy Agency
4.1.2	Domestic credit to private sector, % GDP	2019	2020	International Monetary Fund; World Bank and OECD GDP estimates.
4.3.2	Domestic industry diversification	2019	2020	United Nations Industrial Development Organization
5.1.1	Knowledge-intensive employment, %	2020	2022	International Labour Organization
5.1.3	GERD performed by business, % GDP	2017	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.4	GERD financed by business, %	2017	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.1.5	Females employed w/advanced degrees, %	2020	2022	International Labour Organization
5.2.3	GERD financed by abroad, % GDP	2017	2020	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
5.3.5	Research talent, % in businesses	2017	2021	UNESCO Institute for Statistics; Eurostat; OECD; RICYT
6.2.4	High-tech manufacturing, %	2019	2020	United Nations Industrial Development Organization

Global Innovation Index 2023

→ 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.