

GLOBAL INNOVATION INDEX 2018

Egypt

95th Egypt is ranked 95th in the GII 2018, moving up 10 positions from the previous year.

The GII indicators are grouped into innovation inputs and outputs. The following table reflects Egypt's ranking over time¹.

Egypt's ranking over time

	GII	Input	Output	Efficiency
2018	95	105	79	45
2017	105	106	97	81
2016	107	107	98	74

- Egypt jumps 10 positions in the GII ranking, taking the 95th position this year.
- It ranks better in innovation outputs than inputs. In the former, Egypt substantially improves this year, gaining 18 positions and positioning 79th.
- Over the last three years, Egypt has gradually improved also in innovation inputs, moving to the 105th position this year.
- Egypt ranks 45th in the Innovation Efficiency Ratio, leaping from the 81st spot it held last year. The country proves to be highly efficient in translating its innovation inputs into outputs, as demonstrated by this ratio. This is partly due to a higher ranking in innovation outputs (79th) compared to inputs (105th).

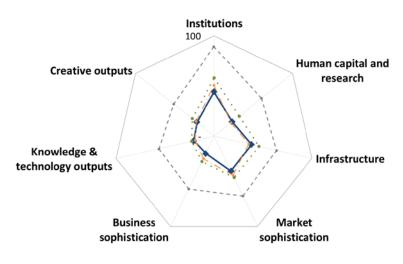
16th Egypt is ranked 16th among the 30 lower-middle-income economies in the GII 2018.

17th Egypt is ranked 17th among the 19 countries in Northern Africa and Western Asia.

¹ Note that year-on-year comparisons of the GII ranks are imperfect and influenced by changes in the GII model and data availability.

Benchmarking Egypt to other lower-middle-income countries and the Northern Africa and Western Asia region

Egypt's scores by GII area



←Egypt ← ·-Income group average • · · Regional average ← --Top 10

Lower-middle-income countries

Egypt has high scores in 3 of the 7 GII areas - Human Capital & Research, Infrastructure, and Knowledge & Technology Outputs, in which it scores above the average of the lower-middle-income group.

Top scores in areas such as Education, Information & Communication Technologies (ICTs), and Knowledge impact are behind these high rankings.

Northern Africa and Western Asia region

Compared to other countries in the Northern Africa and Western Asia region, Egypt performs below-average in all GII areas.

Egypt's innovation profile

Strengths

- The most important strength for Egypt is in the Innovation Efficiency Ratio, where it ranks 45th.
- On the **innovation input** side, Egypt exhibits a number of strengths in four of the five GII input areas.
- In **Human Capital & Research** (89th), the indicator *Quality of universities* (46th) is highlighted as a strength.
- In **Infrastructure** (90th), Egypt is strong in two indicators *Logistics performance* (48th) and *GDP per unit of energy use* (30th).
- In **Market Sophistication** (104th), the country exhibits GII strengths in the area *Trade*, competition & market scale (48th) and in the indicator *Domestic market scale* (21st).
- The indicator *Knowledge-intensive employment* (41st) is marked as a strength in **Business Sophistication** (117th).
- On the innovation output side, most of Egypt's strengths lie within Knowledge & Technology Outputs (66th), the top-ranked GII area for the country. Here Egypt performs strongly in one of its three components Knowledge impact (45th). At the indicator level, GII

strengths are shown in *Quality of scientific publications* (48th), *Productivity growth* (29th), *Computer software spending* (49th), and *Intellectual property receipts* (36th).

• The indicator *Creative goods exports* (28th) is strong within **Creative Outputs** (89th).

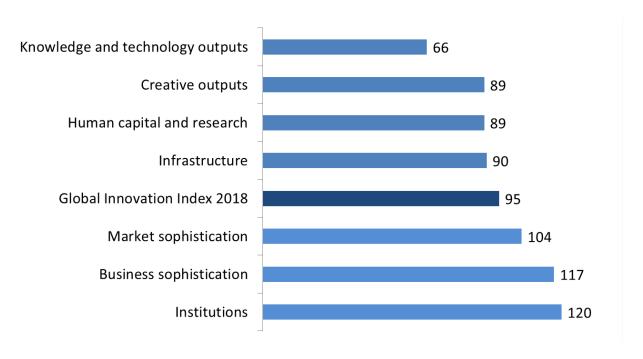
Weaknesses

- Most of relative GII weaknesses for Egypt are accrued on the innovation input side of the GII
- The GII area Institutions (120th), the lowest ranking GII area, is signaled as a weakness for the country. Here it ranks relatively weakly in three indicators: *Political stability & safety* (119th), *Regulatory quality* (118th), and *Cost of redundancy dismissal* (117th).
- In **Business Sophistication** (117th), relatively weak performance is shown in another three indicators: *Firms offering formal training* (89th), *R&D financed by abroad* (99th), and *Patent families in 2 or more offices* (107th).
- The indicators *Graduates in science* & engineering (91st) and *Global R&D companies* expenditure (40th) are signaled as GII weaknesses in **Human Capital & Research** (89th).
- One indicator *Gross capital formation* (114th) is relatively weak in **Infrastructure** (90th).
- In **innovation outputs**, only one GII weakness is found in the indicator *Country-code TLDs* (119th) within the area **Creative Outputs** (89th).

The following figure presents a summary of Egypt's ranks in the 7 GII areas, as well as the overall rank in the GII 2018.

Egypt's rank in the GII 2018 and the 7 GII areas

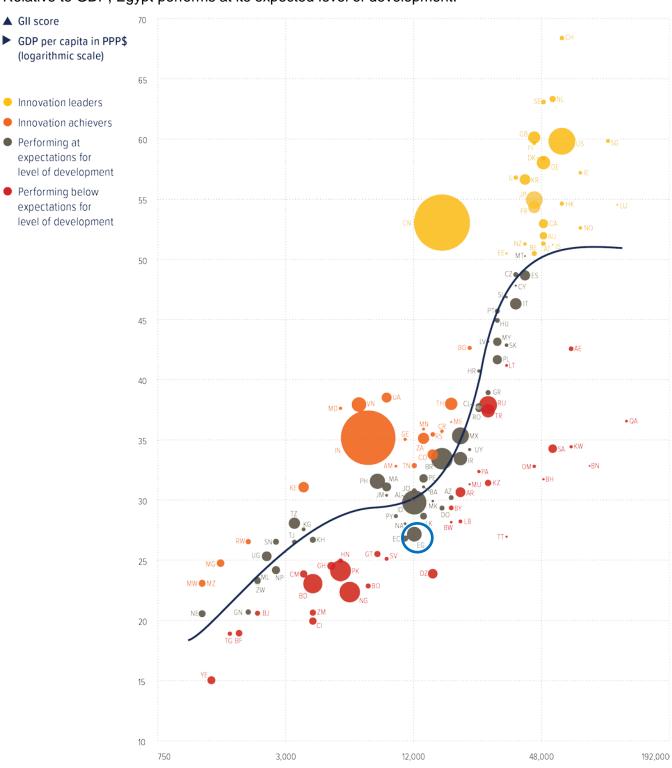
Rank 1 is the highest possible in each pillar Total number of countries: 126



Expected vs. Observed Innovation Performance

The GII bubble chart shows the relationship between income levels (GDP per capita) and innovation performance (GII score). The depicted trendline gives an indication of the expected innovation performance at different levels of income. Countries located above the trendline are performing better that what would be expected based on their income level. Countries below the line are Innovation Under-performers relative to GDP.

Relative to GDP, Egypt performs at its expected level of development.



Missing and Outdated Data

More and better data improves the ability of a country to understand its strengths and weaknesses and give policymakers greater capacity to plan and adapt public policies accordingly. The GII 2018 covers 126 countries that complied with the minimum indicator coverage of 35 indicators in the Innovation Input Sub-Index (66%) and 18 indicators in the Innovation Output Sub-Index (66%).

The following tables show data for Egypt that is not available or that is outdated.

Missing Data

Code	Indicator	Country Year	Model Year	Source
2.1.2	Government funding/pupil, secondary, % GDP/cap	n/a	2014	UNESCO Institute for Statistics
2.1.4	PISA scales in reading, maths & science	n/a	2015	OECD PISA
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2016	WIPO, Intellectual Property Statistics
6.2.2	New businesses/th pop. 15–64	n/a	2016	World Bank, Doing Business
7.2.1	Cultural & creative services exports, % total trade	n/a	2016	WTO, Trade in Commercial Services

Outdated Data

Code	Indicator	Country Year	Model Year	Source
2.1.1	Expenditure on education, % GDP	2008	2014	UNESCO Institute for Statistics
5.3.1	Intellectual property payments, % total trade	2015	2016	WTO, Trade in Commercial Services
5.3.3	ICT services imports, % total trade	2015	2016	WTO, Trade in Commercial Services
6.2.5	High- & medium-high-tech manufactures, %	2014	2015	UNIDO, Industrial Statistics
6.3.1	Intellectual property receipts, % total trade	2007	2016	WTO, Trade in Commercial Services
6.3.3	ICT services exports, % total trade	2015	2016	WTO, Trade in Commercial Services
7.1.2	Industrial designs by origin/bn PPP\$ GDP	2015	2016	WIPO, Intellectual Property Statistics
7.2.4	Printing & other media, % manufacturing	2014	2015	UNIDO, Industrial Statistics
7.2.5	Creative goods exports, % total trade	2015	2016	UN COMTRADE







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			C 0''	D-, t				_		5
	Institutions		Score/Value	Rank 120 O		Rusiness	sonhisticatio	n	Score/Value	Rank 117
				117			•			
	Political environment Political stability & safety*			117	5.1 5.1.1	_		loyment, %		101 41
	Government effectivenes			107	5.1.2	_		ng, % firms		89
					5.1.3			ess, % GDP		73
	Regulatory environment			116	5.1.4			ss, %		76
	Regulatory quality* Rule of law*			118 ○ ♦ 89	5.1.5	Females e	mployed w/adva	anced degrees, %	5.4	81
	Cost of redundancy dism			117 ()	5.2	Innovation	linkages		18.2	113
	•				5.2.1			h collaboration†		106
	Business environment			93	5.2.2			ent [†]		53
	Ease of starting a busines			80	5.2.3			%		99
- 1	Ease of resolving insolve	ency*	38.9	100	5.2.4			/bn PPP\$ GDP		98
					5.2.5	Patent fam	ilies 2+ offices/b	on PPP\$ GDP	0.0	107
					5.3	Knowledge	absorption		18.6	111
	Human capital & rese	earch	23.0	89	5.3.1			ents, % total trade [©]		69
	Education			74	5.3.2			otal trade		79
	Expenditure on education			87	5.3.3			al trade [©]		85
	Government funding/pup			n/a	5.3.4					78
	School life expectancy, ye			75	5.3.5	Research t	alent, % in busir	ess enterprise	6.0	71
	PISA scales in reading, m			n/a						
-	Pupil-teacher ratio, secon	ndary	14.8	68						
	Tertiary education		11.3	106		Knowled	ge & technolo	gy outputs	21.1	66
	Tertiary enrolment, % gro	SS	34.4	74	6.1	Knowledge	- creation		9.2	73
	Graduates in science & e			91 🔿 💠	6.1.1			GDP		73
3	Tertiary inbound mobility,	, %	1.8	73	6.1.2			PP\$ GDP		89
	Research & development	t (R&D)	12.3	53 ♦	6.1.3		, ,	PPP\$ GDP		n/a
	Researchers, FTE/mn por			57	6.1.4			es/bn PPP\$ GDP		66
	Gross expenditure on R&			48 ♦	6.1.5			×		48
3 (Global R&D companies, t	top 3, mn US\$	0.0	40 ○ ♦	6.2	Vnoudodae	o impost		40 F	45
1 (QS university ranking, ave	erage score top 3*	24.6	46 ● ◆	6.2.1			worker, %		29
					6.2.2			5–64		n/a
					6.2.3			ing, % GDP		49
- 1	Infrastructure		37.9	90	6.2.4			s/bn PPP\$ GDP		85
	Information & communica	ation technologies (l	CTc) 43.8	91	6.2.5			manufactures, % [®]		52
	ICT access*			78	6.3	Vnowlodge	diffusion		12.7	103
	ICT use*			91	6.3.1			ots, % total trade [©]		36
	Government's online serv			89	6.3.2			otal trade		112
(E-participation*		40.7	97	6.3.3			al trade [©]		65
			20.2	102	6.3.4					103
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NOTES: ● indicates a strength; ○ a weakness; ◆ an income group strength; ◇ an income group weakness; * an index; † a survey question. 🕲 indicates that the country's data are older than the base year; see Appendix II for details, including the year of the data, at http://globalinnovationindex.org. $Square\ brackets\ indicate\ that\ the\ data\ minimum\ coverage\ (DMC)\ requirements\ were\ not\ met\ at\ the\ sub-pillar\ or\ pillar\ level;\ see\ page\ 75\ of\ this\ appendix\ for\ details.$