

MOROCCO

75th

Morocco ranks 75th among the 131 economies featured in the GII 2020.

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.

The following table shows the rankings of Morocco over the past three years, noting that 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 Morocco in the GII 2020 is between ranks 66 and 76.

Rankings of Morocco (2018–2020)

	GII	Innovation inputs	Innovation outputs
2020	75	85	69
2019	74	83	66
2018	76	84	69

- Morocco performs better in innovation outputs than innovation inputs in 2020.
- This year Morocco ranks 85th in innovation inputs, lower than last year and lower compared to 2018.
- As for innovation outputs, Morocco ranks 69th. This position is lower than last year and the same compared to 2018.

8th

Morocco ranks 8th among the 29 lower middle-income group economies.

10th

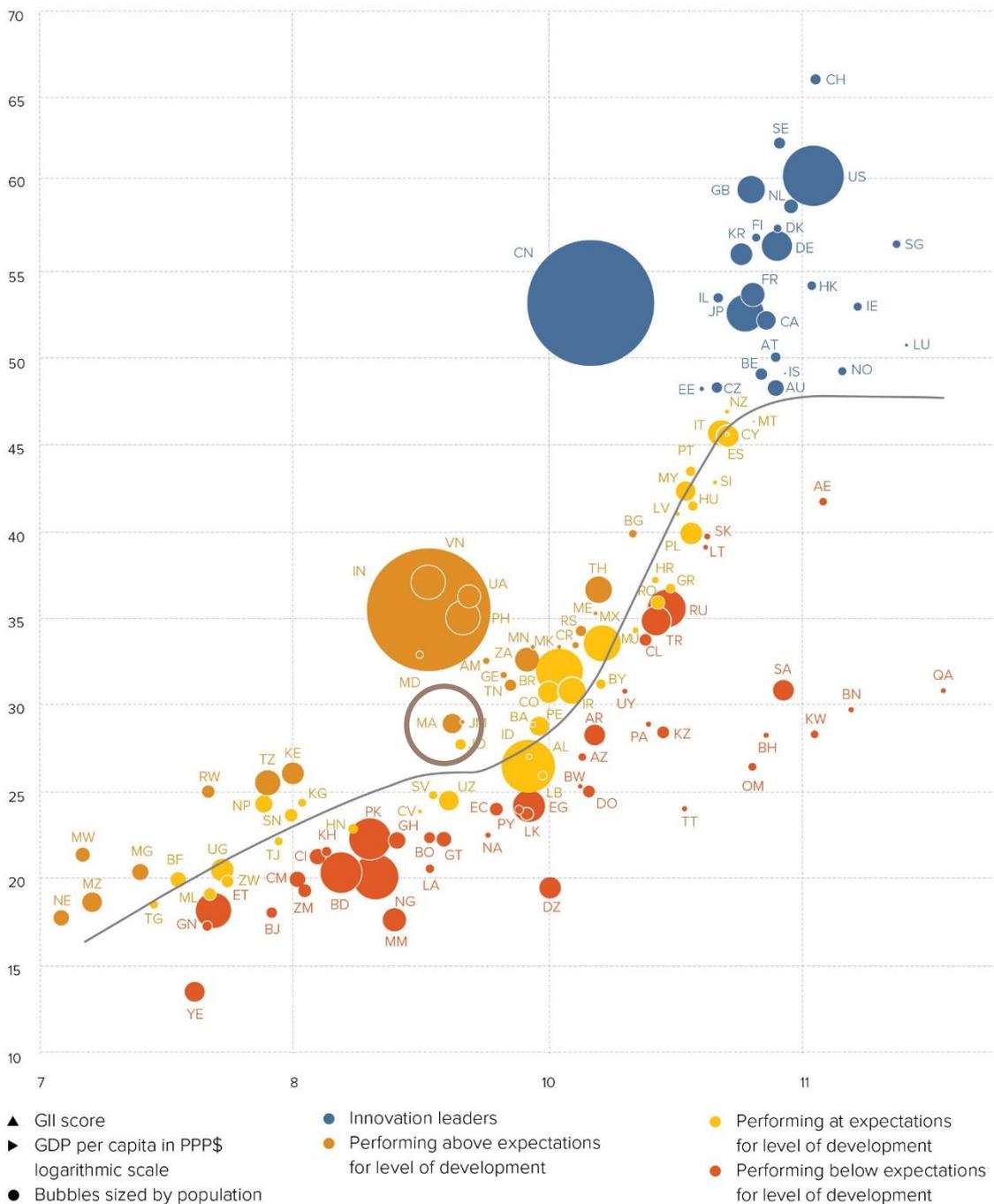
Morocco ranks 10th among the 19 economies in Northern Africa and Western Asia.

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, Morocco's performance is above expectations for its level of development.

The positive relationship between innovation and development

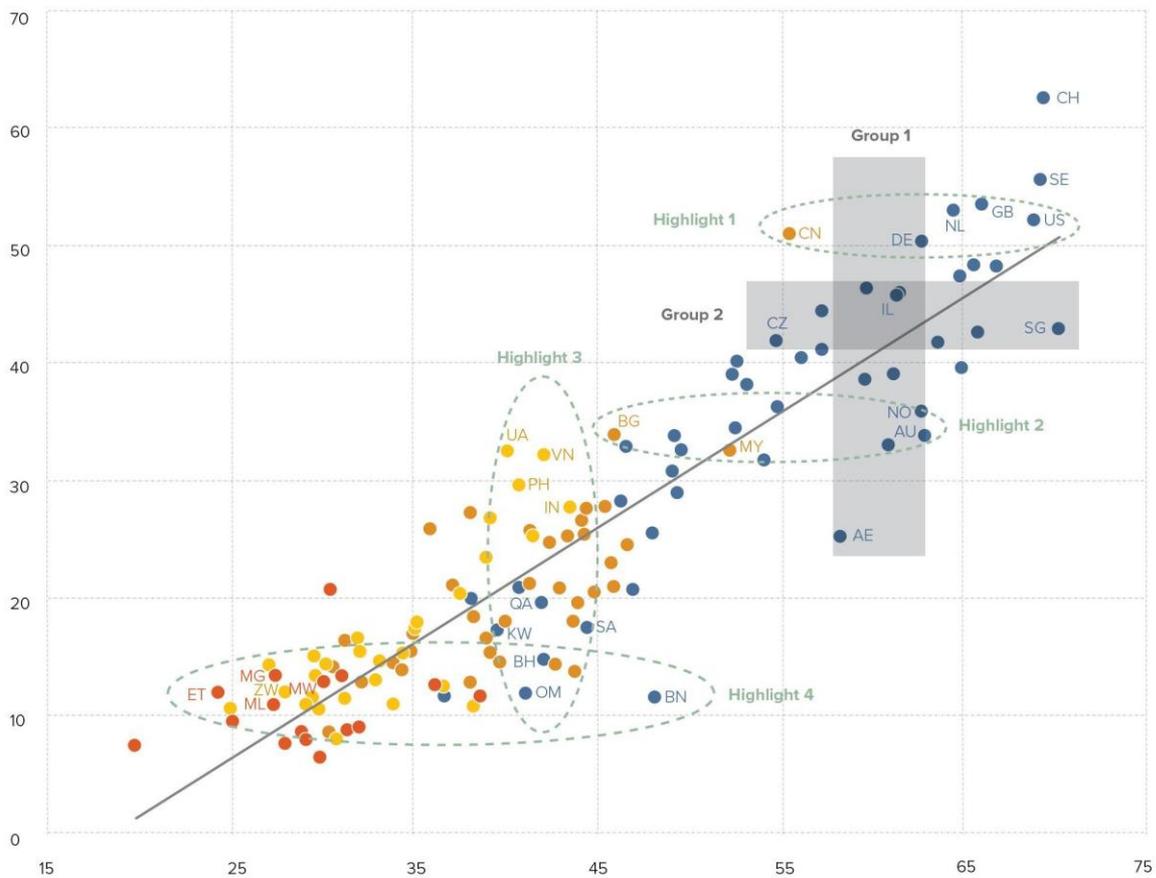


EFFECTIVELY TRANSLATING INNOVATION INVESTMENTS INTO INNOVATION OUTPUTS

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.

Morocco produces more innovation outputs relative to its level of innovation investments.

Innovation input to output performance, 2020

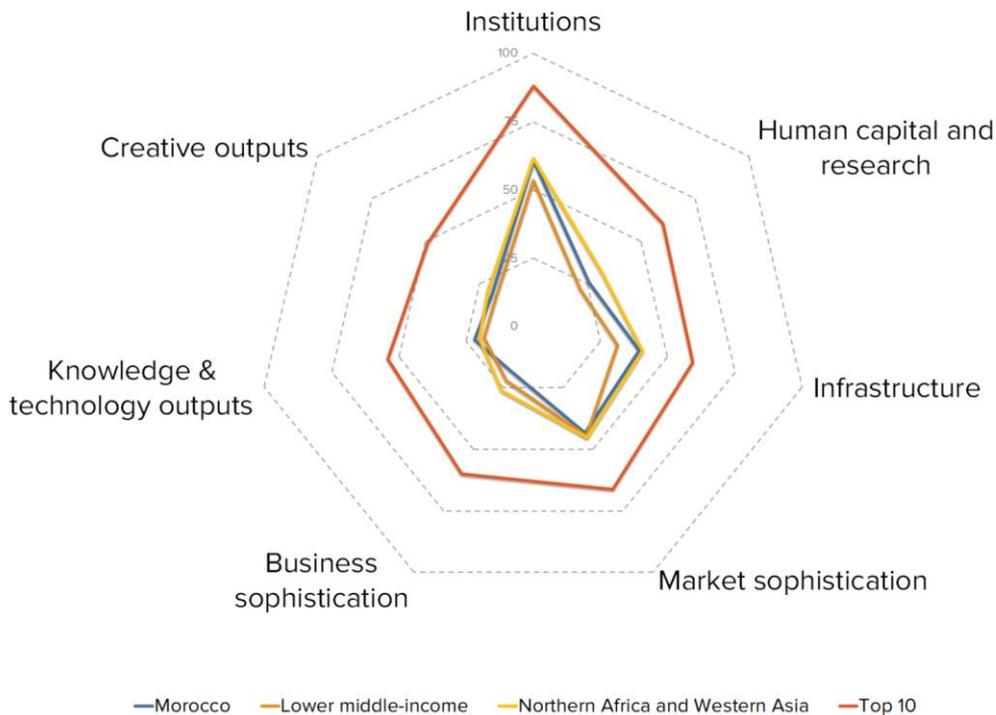


▲ Output score ● High income group ● Lower middle-income group — Fitted values
 ► Input score ● Upper middle-income group ● Low income group

AU Australia	IN India	NL Netherlands	CH Switzerland
BH Bahrain	IL Israel	NO Norway	UA Ukraine
BN Brunei Darussalam	KW Kuwait	OM Oman	AE United Arab Emirates
BG Bulgaria	MG Madagascar	PH Philippines	GB United Kingdom
CN China	MW Malawi	QA Qatar	US United States of America
CZ Czech Republic	ML Mali	SA Saudi Arabia	VN Viet Nam
ET Ethiopia	MY Malaysia	SG Singapore	ZW Zimbabwe
DE Germany		SE Sweden	

BENCHMARKING MOROCCO AGAINST OTHER LOWER MIDDLE-INCOME GROUP ECONOMIES AND NORTHERN AFRICA AND WESTERN ASIA

Morocco's scores in the seven GII pillars



Lower middle-income group economies

Morocco has high scores in five out of the seven GII pillars: Institutions, Human capital & research, Infrastructure, Knowledge & technology outputs and Creative outputs, which are above average for the lower middle-income group.

Conversely, Morocco scores below average for its income group in two GII pillars: Market sophistication and Business sophistication.

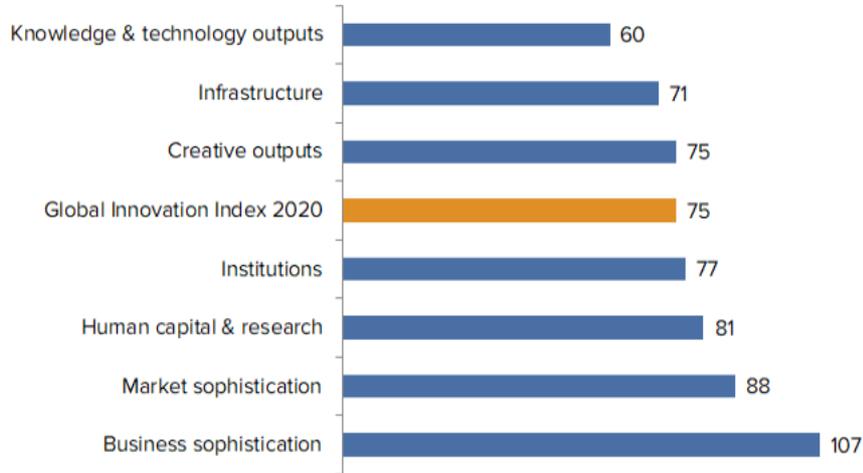
Northern Africa and Western Asia

Compared to other economies in Northern Africa and Western Asia, Morocco performs:

- above average in one out of the seven GII pillars: Knowledge & technology outputs; and
- below average in six out of the seven GII pillars: Institutions, Human capital & research, Infrastructure, Market sophistication, Business sophistication and Creative outputs.

OVERVIEW OF MOROCCO RANKINGS IN THE SEVEN GII AREAS

Morocco performs best in Knowledge & technology outputs and its weakest performance is in Business sophistication.



*The highest possible ranking in each pillar is 1.

INNOVATION STRENGTHS AND WEAKNESSES

The table below gives an overview of the strengths and weaknesses of Morocco in the GII 2020.

Strengths			Weaknesses		
Code	Indicator name	Rank	Code	Indicator name	Rank
1.3.1	Ease of starting a business*	41	2.1.4	PISA scales in reading, maths, & science	75
2.1.1	Expenditure on education, % GDP	34	2.3.3	Global R&D companies, top 3, mn US\$	42
2.1.2	Government funding/pupil, secondary, % GDP/cap	5	2.3.4	QS university ranking, average score top 3*	77
3.2.3	Gross capital formation, % GDP	19	3.2.2	Logistics performance*	103
3.3.1	GDP/unit of energy use	24	4.1.1	Ease of getting credit*	101
4.1.2	Domestic credit to private sector, % GDP	33	4.2.3	Venture capital deals/bn PPP\$ GDP	81
4.2.1	Ease of protecting minority investors*	36	5.1.1	Knowledge-intensive employment, %	110
6.2.5	High- and medium-high-tech manufacturing, %	29	5.2	Innovation linkages	117
6.3.3	ICT services exports, % total trade	24	5.2.1	University/industry research collaboration [†]	113
7.1.3	Industrial designs by origin/bn PPP\$ GDP	10	5.2.4	JV–strategic alliance deals/bn PPP\$ GDP	105
			5.3	Knowledge absorption	110
			7.2.3	Entertainment & Media market/th pop. 15–69	58

STRENGTHS

GII strengths for Morocco are found in six of the seven GII pillars.

- Institutions (77): exhibits strengths in the indicator Ease of starting a business (41).
- Human capital & research (81): shows strengths in the indicators Expenditure on education (34) and Government funding/pupil (5).
- Infrastructure (71): demonstrates strengths in the indicators Gross capital formation (19) and GDP (24).
- Market sophistication (88): displays strengths in the indicators Domestic credit to private sector (33) and Ease of protecting minority investors (36).
- Knowledge & technology outputs (60): reveals strengths in the indicators High- and medium-high-tech manufacturing (29) and ICT services exports (24).
- Creative outputs (75): shows strengths in the indicator Industrial designs by origin (10).

WEAKNESSES

GII weaknesses for Morocco are found in five of the seven GII pillars.

- Human capital & research (81): exhibits weaknesses in the indicators PISA scales in reading, maths, & science (75), Global R&D companies (42) and QS university ranking (77).
- Infrastructure (71): displays weaknesses in the indicator Logistics performance (103).
- Market sophistication (88): shows weaknesses in the indicators Ease of getting credit (101) and Venture capital deals (81).
- Business sophistication (107): demonstrates weaknesses in the sub-pillars Innovation linkages (117) and Knowledge absorption (110) and in the indicators Knowledge-intensive employment (110), University/industry research collaboration (113) and JV–strategic alliance deals (105).
- Creative outputs (75): reveals weaknesses in the indicator Entertainment & Media market (58).

DATA AVAILABILITY

The following tables list data that are either missing or outdated for Morocco.

Missing data

Code	Indicator name	Country year	Model year	Source
5.1.5	Females employed w/advanced degrees, %	n/a	2018	International Labour Organization
6.1.3	Utility models by origin/bn PPP\$ GDP	n/a	2018	World Intellectual Property Organization

Outdated data

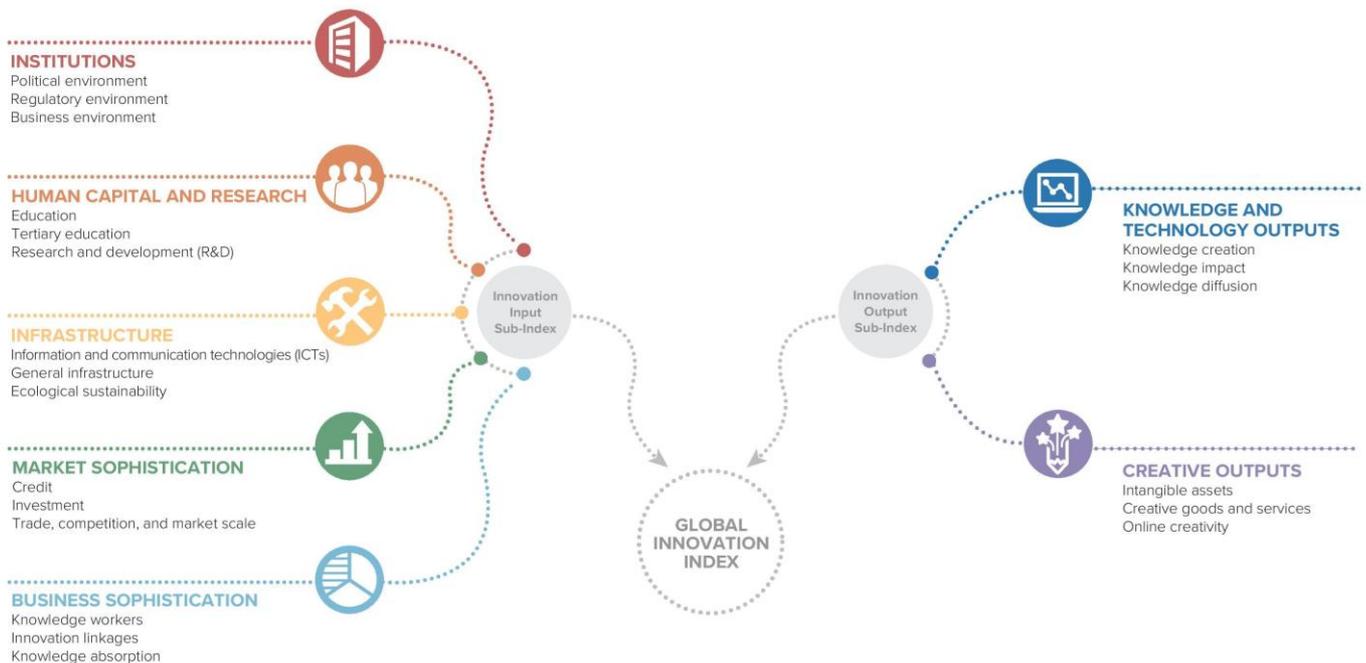
Code	Indicator name	Country year	Model year	Source
2.1.1	Expenditure on education, % GDP	2009	2018	UNESCO Institute for Statistics
2.1.2	Government funding/pupil, secondary, % GDP/cap	2012	2016	UNESCO Institute for Statistics
2.3.1	Researchers, FTE/mn pop.	2016	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
2.3.2	Gross expenditure on R&D, % GDP	2010	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
4.3.1	Applied tariff rate, weighted avg., %	2017	2018	World Bank
5.1.1	Knowledge-intensive employment, %	2011	2018	International Labour Organization
5.1.3	GERD performed by business, % GDP	2010	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
5.1.4	GERD financed by business, %	2010	2017	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
5.2.3	GERD financed by abroad, % GDP	2010	2017	UNESCO Institute for Statistics
5.3.5	Research talent, % in business enterprise	2016	2018	UNESCO Institute for Statistics; Eurostat; OECD – Main Science and Technology Indicators
6.2.5	High- and medium-high-tech manufacturing, %	2016	2017	United Nations Industrial Development Organization
7.2.4	Printing and other media, % manufacturing	2011	2017	United Nations Industrial Development Organization

ABOUT THE GLOBAL INNOVATION INDEX

The Global Innovation Index (GII) is co-published by Cornell University, INSEAD, and the World Intellectual Property Organization (WIPO), a specialized agency of the United Nations. In 2020, the GII presents its 13th edition devoted to the theme *Who Will Finance Innovation?*

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.

Framework of the Global Innovation Index 2020



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.

