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.

Côte d’Ivoire ranking in the Global Innovation Index 2023

> Côte d’Ivoire ranks 112nd among the 132 economies featured in the GII 2023.

> Côte d’Ivoire ranks 28th among the 37 lower-middle-income group economies.

> Côte d’Ivoire ranks 12th among the 28 economies in Sub-Saharan Africa.

Côte d’Ivoire GII Ranking (2020–2023)

The table shows the rankings of Côte d’Ivoire 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 Côte d’Ivoire in the GII 2023 is between ranks 108 and 122.

<table>
<thead>
<tr>
<th>Year</th>
<th>GII Position</th>
<th>Innovation Inputs</th>
<th>Innovation Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>112nd</td>
<td>105th</td>
<td>115th</td>
</tr>
<tr>
<td>2021</td>
<td>114th</td>
<td>107th</td>
<td>121st</td>
</tr>
<tr>
<td>2022</td>
<td>109th</td>
<td>109th</td>
<td>106th</td>
</tr>
<tr>
<td>2023</td>
<td>112nd</td>
<td>112nd</td>
<td>102nd</td>
</tr>
</tbody>
</table>

Côte d’Ivoire performs better in innovation outputs than innovation inputs in 2023.

This year Côte d’Ivoire ranks 112nd in innovation inputs. This position is lower than last year.

Côte d’Ivoire ranks 102nd in innovation outputs. This position is higher 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, Côte d’Ivoire’s performance is below expectations for its level of development.

> Innovation overperformers relative to their economic development

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

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)

1.49
713M
373M
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.

> Côte d’Ivoire produces more innovation outputs relative to its level of innovation investments.
Overview of Côte d'Ivoire'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 Côte d'Ivoire are those that rank above the GII (shown in blue) and the weakest are those that rank below.

- 71st Institutions
- 96th Business sophistication
- 97th Creative outputs
- 118th Knowledge and technology outputs
- 123rd Market sophistication
- 128th Human capital and research

> Highest rankings
Côte d'Ivoire ranks highest in Institutions (71st), Business sophistication (96th), Creative outputs (97th) and Infrastructure (106th).

> Lowest rankings
Côte d'Ivoire ranks lowest in Human capital and research (128th), Market sophistication (123rd) and Knowledge and technology outputs (118th).

The full WIPO Intellectual Property Statistics profile for Côte d'Ivoire can be found on this link.
Global Innovation Index 2023

Benchmark of Côte d'Ivoire against other country groupings for each of the seven areas of the GII Index

The charts show the relative position of Côte d'Ivoire (blue bar) against other country groupings (grey bars), for each of the seven areas of the GII Index.

**Lower-Middle-Income economies**
Côte d'Ivoire performs below the lower-middle-income group average in Knowledge and technology outputs, Creative outputs, Business sophistication, Market sophistication, Human capital and research, Infrastructure.

**Sub-Saharan Africa**
Côte d'Ivoire performs below the regional average in Knowledge and technology outputs, Market sophistication, Human capital and research.

### Creative outputs
- Top 10: 56.09
- Lower middle income: 16.35
- Côte d'Ivoire: 13.57
- Sub-Saharan Africa: 10.36

### Business sophistication
- Top 10: 64.39
- Lower middle income: 22.71
- Côte d'Ivoire: 22.12
- Sub-Saharan Africa: 19.85

### Human capital and research
- Top 10: 60.28
- Lower middle income: 21.73
- Sub-Saharan Africa: 17.80
- Côte d'Ivoire: 10.49

### Infrastructure
- Top 10: 62.83
- Lower middle income: 27.83
- Côte d'Ivoire: 25.85
- Sub-Saharan Africa: 23.36

### Market sophistication
- Top 10: 61.93
- Lower middle income: 28.01
- Sub-Saharan Africa: 20.00
- Côte d'Ivoire: 13.95

### Institutions
- Top 10: 79.85
- Côte d'Ivoire: 48.11
- Sub-Saharan Africa: 43.27
- Lower middle income: 39.43
Global Innovation Index 2023

Innovation strengths and weaknesses in Côte d'Ivoire

The table below gives an overview of the indicator strengths and weaknesses of Côte d'Ivoire in the GII 2023.

-Côte d'Ivoire's main innovation strengths are Loans from microfinance institutions, % GDP (rank 23), Labor productivity growth, % (rank 34) and GDP/unit of energy use (rank 38).

<table>
<thead>
<tr>
<th>Strengths</th>
<th>Weaknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rank</td>
<td>Code</td>
</tr>
<tr>
<td>23</td>
<td>4.1.3</td>
</tr>
<tr>
<td>34</td>
<td>6.2.1</td>
</tr>
<tr>
<td>38</td>
<td>3.3.1</td>
</tr>
<tr>
<td>43</td>
<td>3.2.3</td>
</tr>
<tr>
<td>46</td>
<td>5.1.2</td>
</tr>
<tr>
<td>47</td>
<td>12.3</td>
</tr>
<tr>
<td>51</td>
<td>5.3.3</td>
</tr>
<tr>
<td>62</td>
<td>7.1.3</td>
</tr>
<tr>
<td>63</td>
<td>1.3.1</td>
</tr>
<tr>
<td>70</td>
<td>11.1.1</td>
</tr>
</tbody>
</table>
Côte d’Ivoire’s innovation system

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

> Innovation inputs in Côte d’Ivoire

2.1.1 Expenditure on education, % GDP was equal to 3.46% GDP in 2021, down by 0.43 percentage points from the year prior – and equivalent to an indicator rank of 92.

2.3.2 Gross expenditure on R&D, % GDP was equal to 0.07 % GDP in 2016, equivalent to an indicator rank of 107.

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 6.76 in 2021, up by 3.68% from the year prior – and equivalent to an indicator rank of 106.

4.2.4 VC received, value, % GDP was equal to 0.00021% GDP in 2022, up by 0.00018 percentage points from the year prior – and equivalent to an indicator rank of 79.

5.1.1 Knowledge-intensive employment, % was equal to 7.1% in 2019, down by 3.18 percentage points from the year prior – and equivalent to an indicator rank of 115.
6.1.1 Patents by origin
was equal to 0.041 Thousands in 2021, up by 156.25% from the year prior – and equivalent to an indicator rank of 91.

6.1.5 Citable documents H-index
was equal to an index value of 141 in 2022, up by 5.22% from the year prior – and equivalent to an indicator rank of 98.

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 0.017% GDP in 2022, down by 0.00013 percentage points from the year prior – and equivalent to an indicator rank of 123.

6.3.1 Intellectual property receipts, % total trade
was equal to 0% total trade in 2021 – and equivalent to an indicator rank of 99.

6.3.2 Production and export complexity
was equal to a score of -1.351 in 2020, down by 21.013% from the year prior – and equivalent to an indicator rank of 116.
**6.3.3 High-tech exports**
was equal to 56,250,563 USD in 2020, down by 60.33% from the year prior – and equivalent to an indicator rank of 91.

**7.1.1 Intangible asset intensity, top 15, %**
was equal to 35.86% in 2022, up by 32.28 percentage points from the year prior – and equivalent to an indicator rank of 65.

**7.1.3 Global brand value, top 5,000**
was equal to 0.381 bn USD in 2023, down by 15.91% from the year prior – and equivalent to an indicator rank of 62.

**7.2.1 Cultural and creative services exports**
was equal to 5,121,000 USD in 2021, up by 13.67% from the year prior – and equivalent to an indicator rank of 93.

**7.3.4 Mobile app creation/bn PPP$ GDP**
was equal to 1,096.32 Apps/bn PPP$ GDP in 2022, up by 186.78% from the year prior – and equivalent to an indicator rank of 115.
Global Innovation Index 2023

→ Côte d'Ivoire's innovation top performers

7.1.1 Top 15 intangible-asset intensive companies in Côte d'Ivoire

<table>
<thead>
<tr>
<th>Rank</th>
<th>Firm</th>
<th>Intensity, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CFAO MOTORS CÔTE D'IVOIRE</td>
<td>78.88</td>
</tr>
<tr>
<td>2</td>
<td>ECOBANK CÔTE D'IVOIRE</td>
<td>33.92</td>
</tr>
<tr>
<td>3</td>
<td>CIE IVOIRENNE D'ÉLECTRICITÉ SA</td>
<td>55.90</td>
</tr>
</tbody>
</table>

Note: Brand Finance only provides within economy ranks.

7.1.3 Top 5,000 companies in Côte d'Ivoire with highest global brand value

<table>
<thead>
<tr>
<th>Rank</th>
<th>Brand</th>
<th>Industry</th>
<th>Brand Value, mn USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MOOV</td>
<td>Telecoms</td>
<td>380.6</td>
</tr>
</tbody>
</table>

Note: Rank corresponds to within economy ranks.
Côte d'Ivoire

Output rank 102  Input rank 112  Income Lower middle  Region SSA

Population (mn) 28.2  GDP, PPP$ (bn) 181.5  GDP per capita, PPP$ 6,397.0

Global Innovation Index 2023

NOTES: • indicates a strength; 〇 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 Côte d'Ivoire.

> Côte d'Ivoire has missing data for fourteen indicators and outdated data for eight indicators.

Missing data for Côte d'Ivoire

<table>
<thead>
<tr>
<th>Code</th>
<th>Indicator name</th>
<th>Economy Year</th>
<th>Model Year</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3.2</td>
<td>Entrepreneurship policies and culture</td>
<td>n/a</td>
<td>2022</td>
<td>Global Entrepreneurship Monitor</td>
</tr>
<tr>
<td>2.1.4</td>
<td>PISA scales in reading, maths and science</td>
<td>n/a</td>
<td>2018</td>
<td>OECD, PISA</td>
</tr>
<tr>
<td>2.2.2</td>
<td>Graduates in science and engineering, %</td>
<td>n/a</td>
<td>2020</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD</td>
</tr>
<tr>
<td>2.3.1</td>
<td>Researchers, FTE/mn pop.</td>
<td>n/a</td>
<td>2021</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD; RICYT</td>
</tr>
<tr>
<td>4.1.1</td>
<td>Finance for startups and scaleups</td>
<td>n/a</td>
<td>2022</td>
<td>Global Entrepreneurship Monitor</td>
</tr>
<tr>
<td>4.3.2</td>
<td>Domestic industry diversification</td>
<td>n/a</td>
<td>2020</td>
<td>United Nations Industrial Development Organization</td>
</tr>
<tr>
<td>5.1.3</td>
<td>GERD performed by business, % GDP</td>
<td>n/a</td>
<td>2021</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD; RICYT</td>
</tr>
<tr>
<td>5.1.4</td>
<td>GERD financed by business, %</td>
<td>n/a</td>
<td>2020</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD; RICYT</td>
</tr>
<tr>
<td>5.2.3</td>
<td>GERD financed by abroad, % GDP</td>
<td>n/a</td>
<td>2020</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD; RICYT</td>
</tr>
<tr>
<td>5.3.5</td>
<td>Research talent, % in businesses</td>
<td>n/a</td>
<td>2021</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD; RICYT</td>
</tr>
<tr>
<td>6.2.4</td>
<td>High-tech manufacturing, %</td>
<td>n/a</td>
<td>2020</td>
<td>United Nations Industrial Development Organization</td>
</tr>
<tr>
<td>7.2.2</td>
<td>National feature film/mn pop. 15-69</td>
<td>n/a</td>
<td>2021</td>
<td>OMDIA; United Nations, World Population Prospects</td>
</tr>
<tr>
<td>7.2.3</td>
<td>Entertainment and media marketths pop. 15-69</td>
<td>n/a</td>
<td>2022</td>
<td>PwC, GEMD; United Nations, World Population Prospects; International Monetary Fund</td>
</tr>
</tbody>
</table>
Outdated data for Côte d’Ivoire

<table>
<thead>
<tr>
<th>Code</th>
<th>Indicator name</th>
<th>Economy Year</th>
<th>Model Year</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.3.2</td>
<td>Gross expenditure on R&amp;D, % GDP</td>
<td>2016</td>
<td>2021</td>
<td>UNESCO Institute for Statistics; Eurostat; OECD; RICYT</td>
</tr>
<tr>
<td>3.2.1</td>
<td>Electricity output, GWh/mn pop.</td>
<td>2020</td>
<td>2021</td>
<td>International Energy Agency</td>
</tr>
<tr>
<td>5.1.1</td>
<td>Knowledge-intensive employment, %</td>
<td>2019</td>
<td>2022</td>
<td>International Labour Organization</td>
</tr>
<tr>
<td>5.1.2</td>
<td>Firms offering formal training, %</td>
<td>2016</td>
<td>2019</td>
<td>World Bank Enterprise Surveys</td>
</tr>
<tr>
<td>5.1.5</td>
<td>Females employed w/advanced degrees, %</td>
<td>2019</td>
<td>2022</td>
<td>International Labour Organization</td>
</tr>
<tr>
<td>5.3.2</td>
<td>High-tech imports, % total trade</td>
<td>2020</td>
<td>2021</td>
<td>United Nations Comtrade Database; World Trade Organization and United Nations Conference on Trade and Development</td>
</tr>
<tr>
<td>6.3.3</td>
<td>High-tech exports, % total trade</td>
<td>2020</td>
<td>2021</td>
<td>United Nations Comtrade Database; World Trade Organization and United Nations Conference on Trade and Development; Trade Data Monitor.</td>
</tr>
<tr>
<td>7.2.4</td>
<td>Creative goods exports, % total trade</td>
<td>2020</td>
<td>2021</td>
<td>United Nations Comtrade Database; World Trade Organization and United Nations Conference on Trade and Development</td>
</tr>
</tbody>
</table>
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.