



# Factsheet: Africa

## Highlights from the International Yearbook of Industrial Statistics 2023

Africa encompasses close to one-fifth of the global population and the world's land area. Despite its significant size, its contribution to global gross domestic product (GDP) stands at only 3 per cent, with an even smaller share in **world manufacturing value added (MVA)**, at **2 per cent**. Northern Africa contributes with the highest share of MVA. This is followed by Western Africa, with a considerable improvement in the last decade at the expense of a declining weight in Southern Africa. Eastern and Central Africa consistently hold the lowest MVA share in the continent.

In terms of manufacturing industries in Africa, the largest by value added are food products, other non-metallic mineral products and beverages. Conversely, the contribution from industries such as computer, electronic and optical products as well as other transport equipment is limited. Expectations are high for **motor vehicles** and **electrical equipment**, two medium-high and high technology (MHT) industries that achieved **high growth rates** in 2021.

Despite recent crises, **manufacturing employment** in Africa has recorded sustained **growth**. Moreover, the growth of female employment has generally outpaced that of males. However, it is noteworthy that Southern Africa is the only African subregion where manufacturing employment is declining.

Within the continent, the **competitiveness** landscape is diverse. **South Africa** has consistently held the **top position** in the Competitive Industrial Performance (CIP) Index for the past decade, followed by Morocco, Egypt, Tunisia, Botswana, and Eswatini. Northern and Southern Africa have therefore concentrated the most competitive economies in terms of industrial performance.

**Egypt, Morocco, and Tunisia**, all situated in Northern Africa, emerge as the best-ranked economies in terms of the **SDG 9 Industry Index**. Noteworthy changes in the Index include significant improvements by Côte d'Ivoire and Senegal, each advancing 11 positions between 2015 and 2020, while South Africa and Zimbabwe declined by 14 ranks during the same period.

In the area of international trade, Africa's manufacturing exports constitute only one per cent of the world's total. The continent's manufacturing **trade balance** has remained in **negative** territory, although with a slight improvement over the last decade, primarily due to substantial decreases in Eastern and Central Africa's deficits.

Overall, Africa is characterized by **incipient industrial activity** but with a significant growth potential. Evidence-based policymaking at the regional and national levels are needed to sustain manufacturing's potential for achieving sustained growth and create employment.



### OVERVIEW

- » MVA share in GDP: 10.4%
- » MVA growth rate: 3.6%
- » Manufacturing share in employment: 7.4%
- » Manufacturing employment  
♂: 44% ♀: 56%



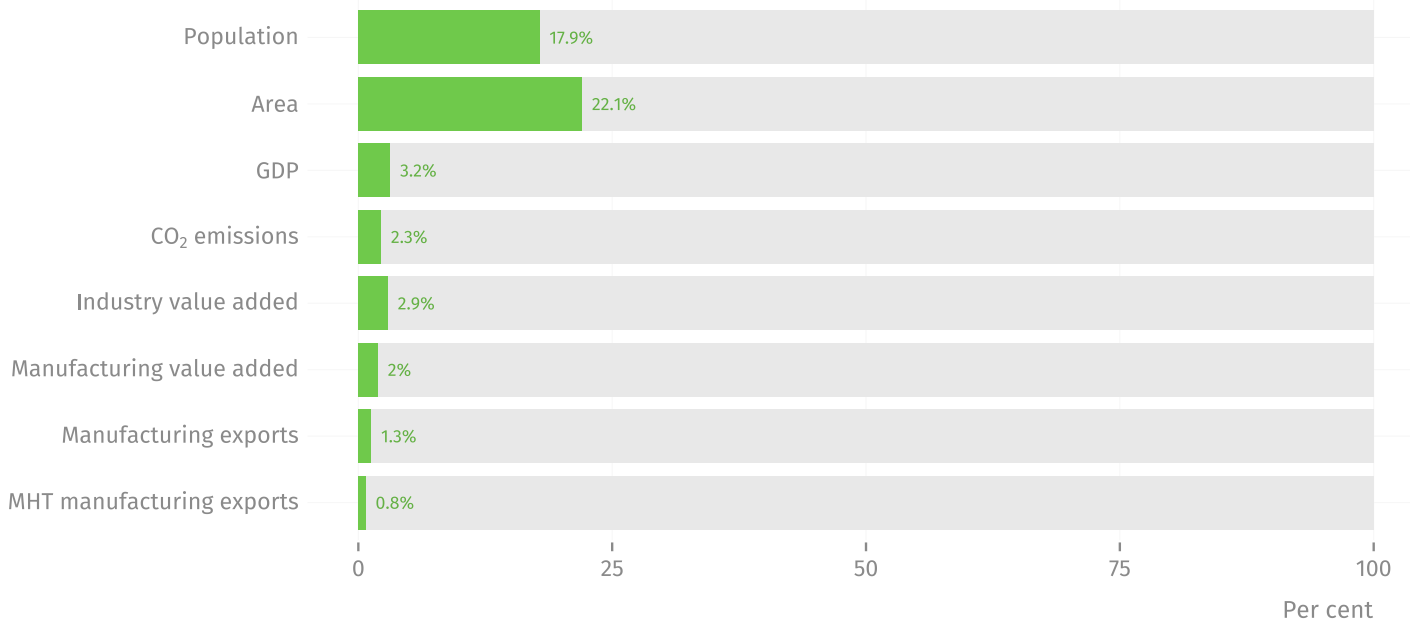
### MAIN INDUSTRIES

- » Food products
- » Other non-metallic mineral prod.
- » Beverages



### INDUSTRIAL PERFORMANCE

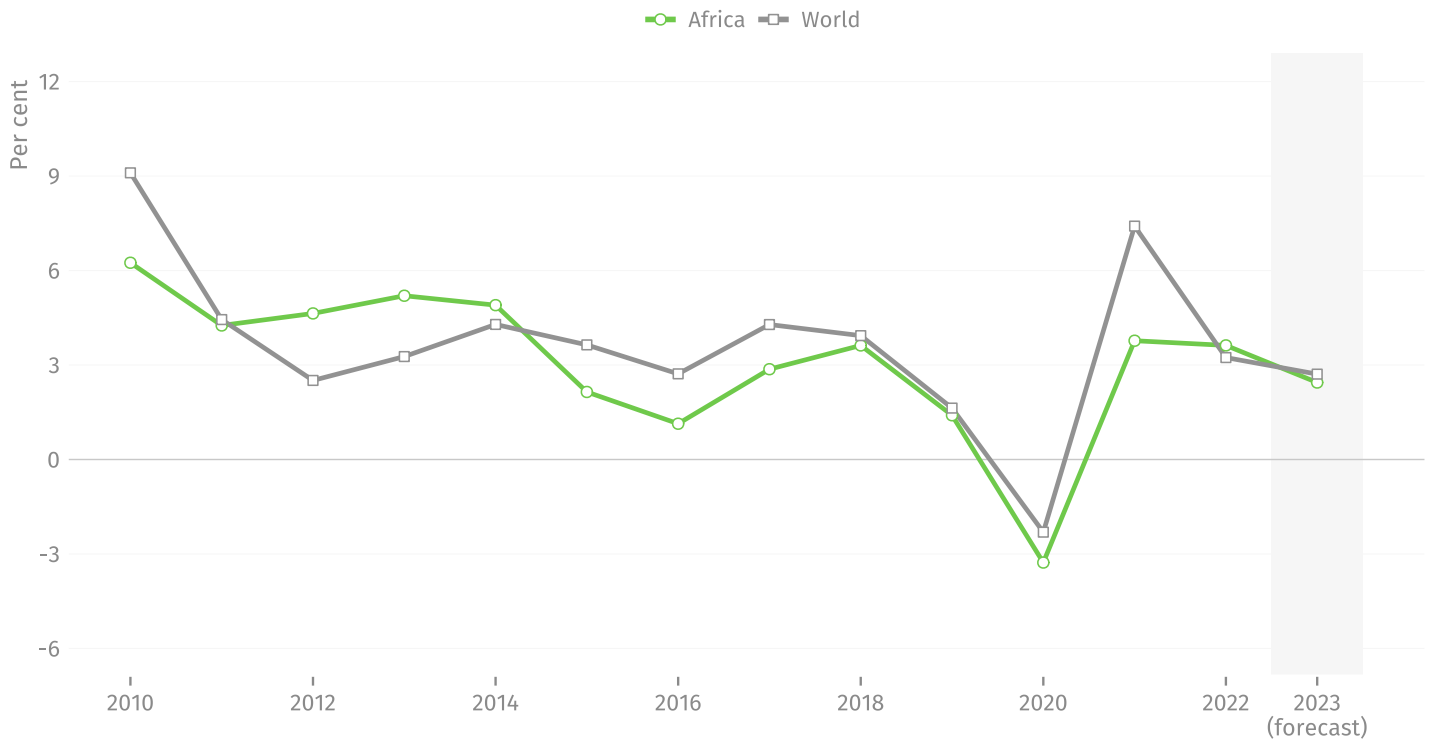
- » CIP Index average rank: 86<sup>th</sup>
- » SDG Industry Index:  
★ ★ ★ ★ ★ ★ ★ ★ ★ ★



**Figure 1 |** Share of Africa in the world economy, 2022

Source: UNIDO calculations based on data from [1; 2; 3; 4]

Note: Figures for CO<sub>2</sub> emissions are for 2020. CO<sub>2</sub> = carbon dioxide; MHT = medium-high and high technology industries.

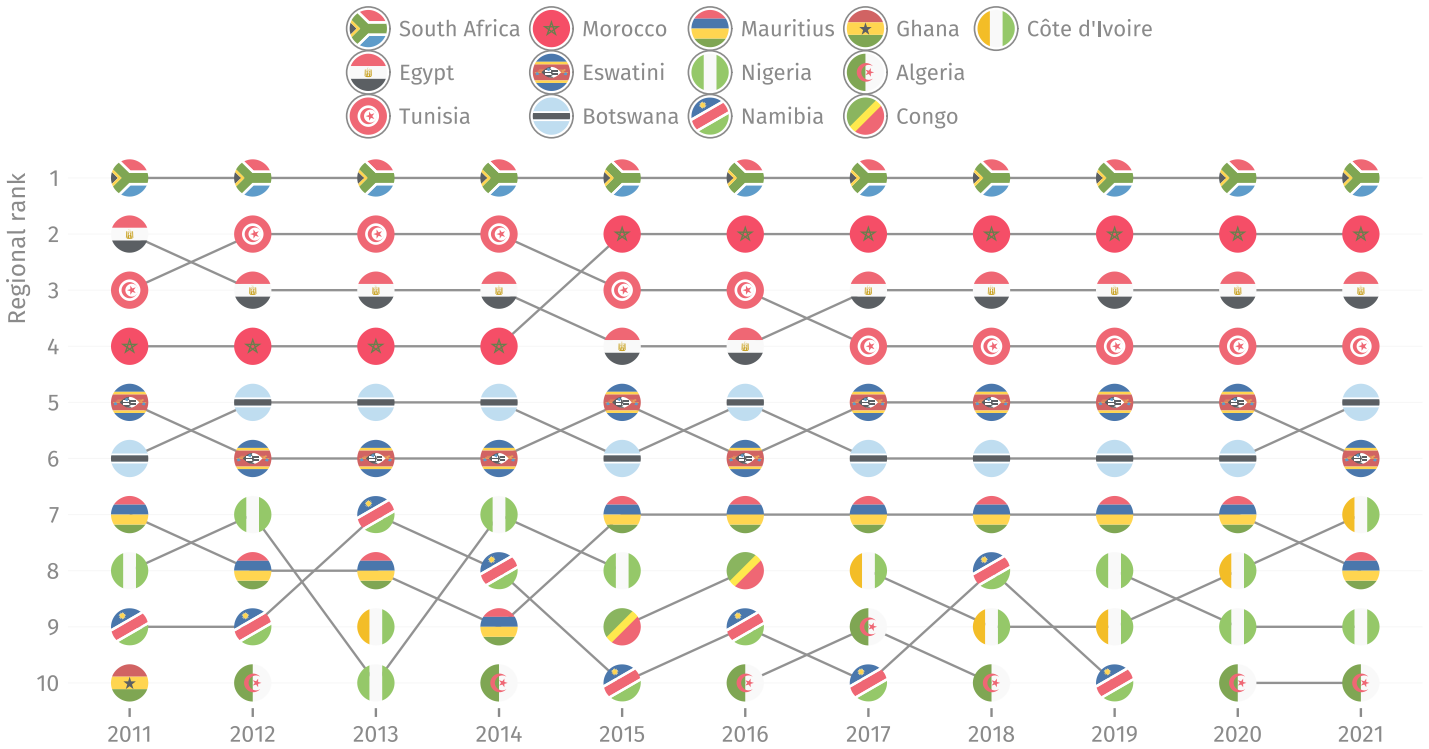


**Figure 2 |** Manufacturing value added growth rate

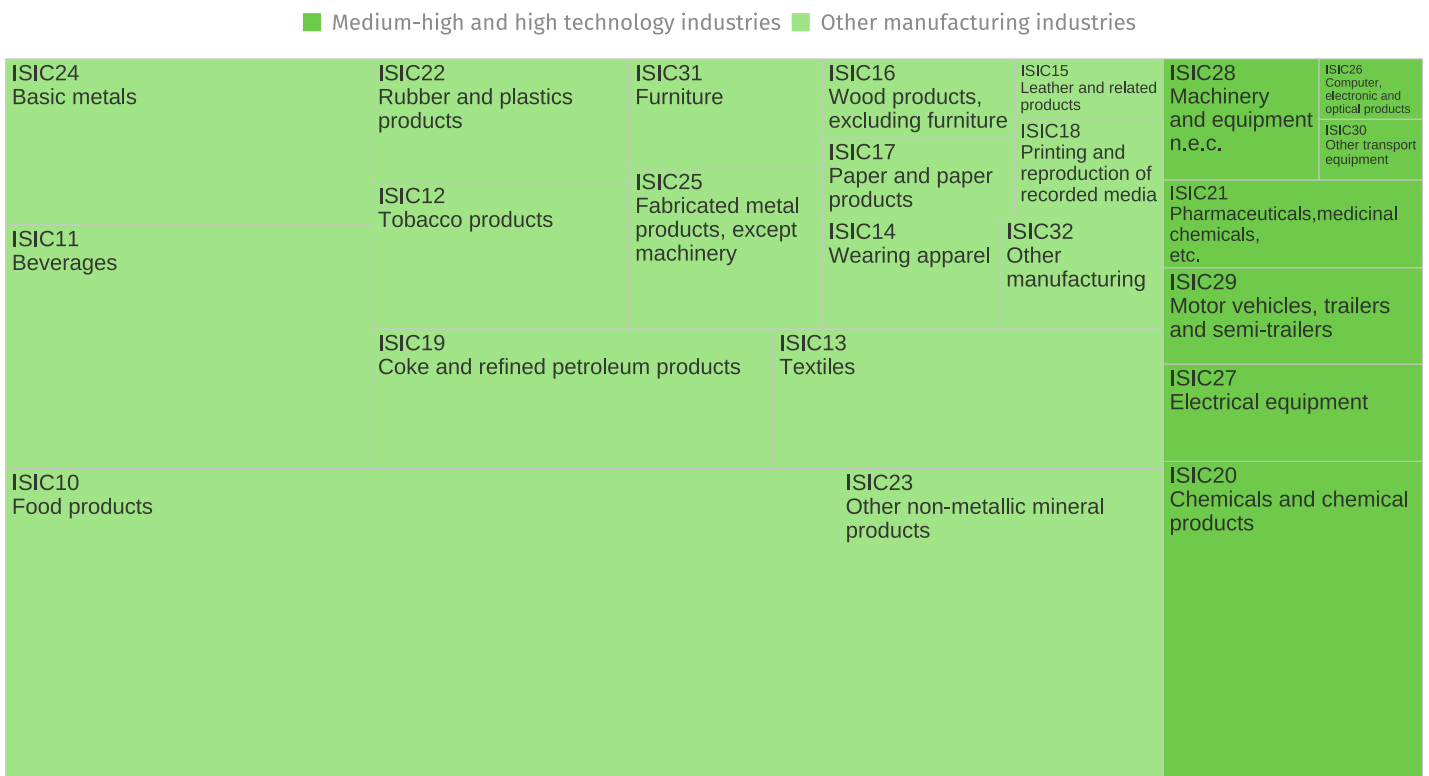
Source: [1]

Note: Growth rates are calculated over the values in constant 2015 USD.

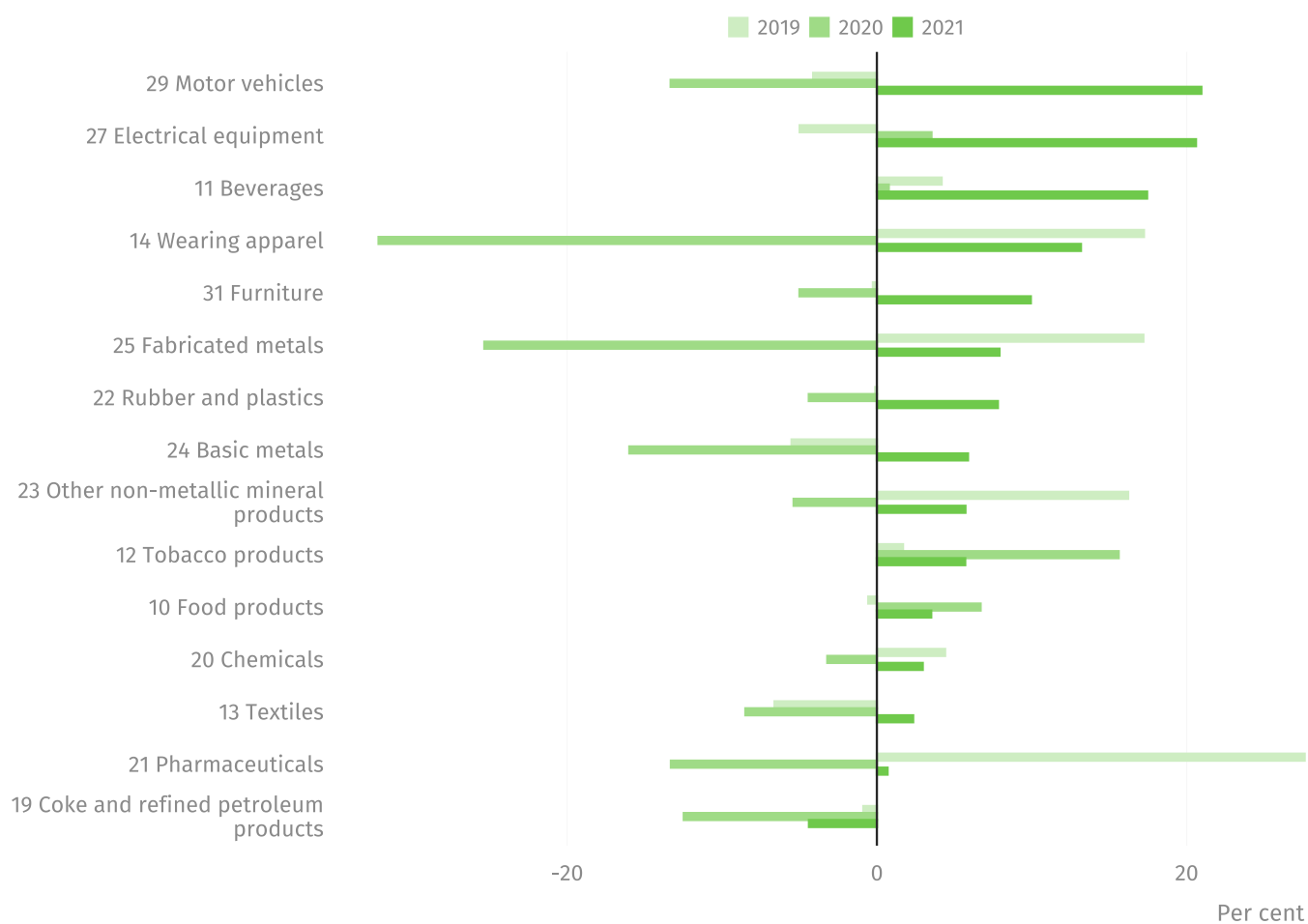




**Figure 4 |** Top ten economies in the Competitive Industrial Performance (CIP) Index, Africa  
 Source: [3]  
 Note: This graph shows the ranking of countries in the region and not the global CIP ranks.



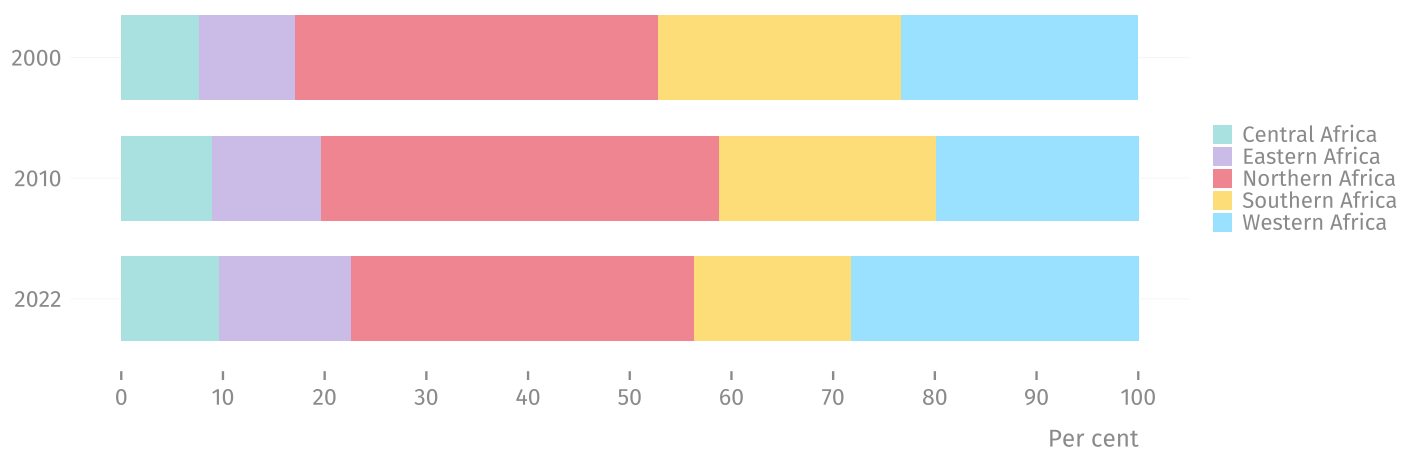
**Figure 5 |** Distribution of manufacturing value added by industry in Africa, 2021  
 Source: [5]  
 Note: The chart presents the most recent structure of regional manufacturing by industrial activity; the colours distinguish manufacturing industries according to technological intensity.



**Figure 6** | Growth rate of value added by manufacturing industry, Africa

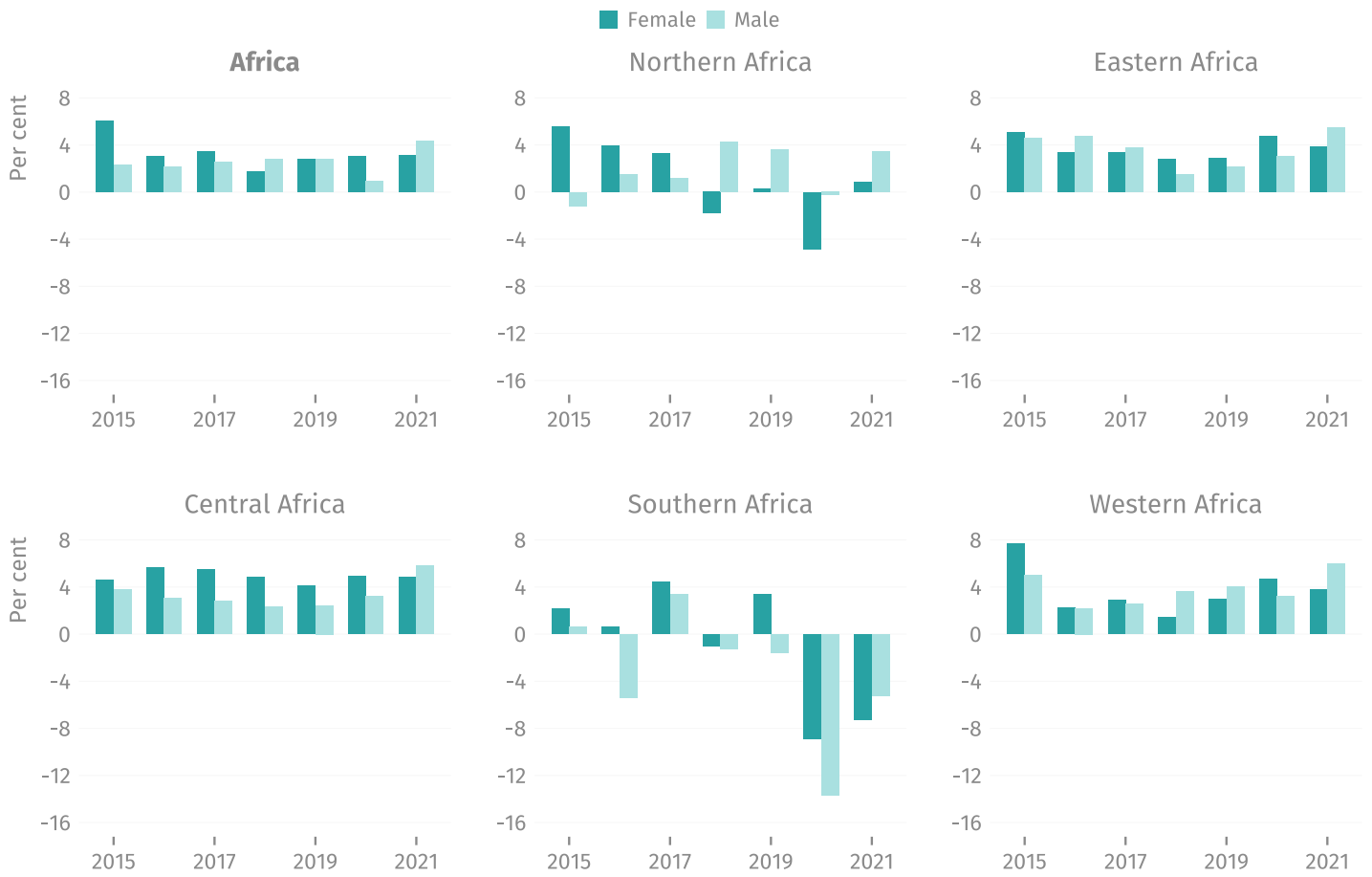
Source: [6]

Note: The bars are ordered by growth rate in 2021.

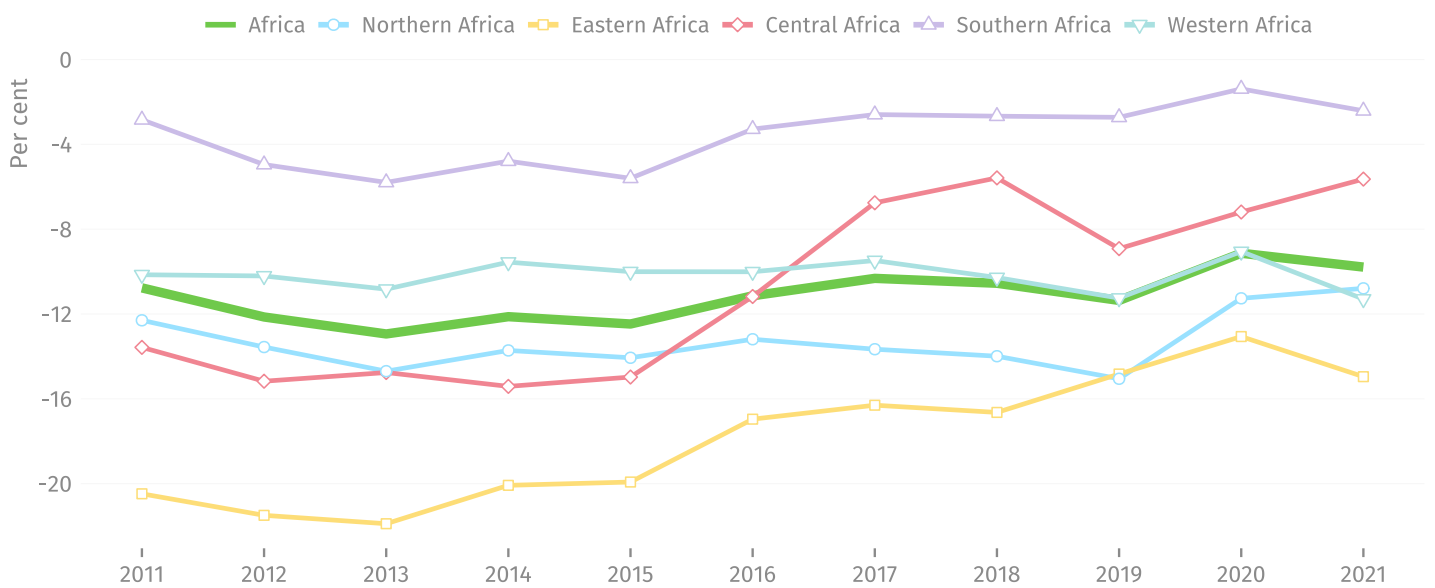


**Figure 7** | Share of manufacturing value added in Africa, by subregion

Source: [5]



**Figure 8 |** Growth rate of manufacturing employment in Africa, by sex and subregion  
 Source: [7]



**Figure 9 |** Trade balance in manufacturing goods as a share of GDP, Africa  
 Source: [1; 8]

**Table 1 | Industrial indicators by country/area, latest available year**

	MVA per capita 2022 (2015 US\$)	MVA growth rate 2022 (%)	MVA share in GDP 2022 (%)	MHT share in MVA 2020 (%)	Industry value added share in GDP 2022 (%)	Manuf. share in exports 2022 (%)	MHT share in manuf. exports 2022 (%)	Manuf. trade balance 2021 (% GDP)	Manuf. share in employment 2022 (%)	Manuf. CO <sub>2</sub> intensity 2020 (kg/US\$)	CIP Index 2021 (rank)
Algeria	197	2.8	4.9	2.7	22.9	23.1	5.1	-11.7	10.7	1.51	99
Angola	229	4.8	7.5	3.4	23.1	3.2	15.2	-12.4	2.1	0.14	127
Benin	117	3.0	9.3	...	10.3	22.8	16.9	-13.6	16.4	0.34	...
Botswana	385	6.0	5.8	8.2	23.0	93.3	6.0	-3.4	6.3	0.07	84
Burkina Faso	78	4.8	10.6	...	25.4	7.3	16.2	-18.6	15.4	...	...
Burundi	28	0.3	10.4	2.8	11.6	30.1	8.6	-21.4	1.2	...	147
Cabo Verde	250	9.4	7.3	27.1	11.7	68.6	10.8	-33.2	9.6	...	141
Cameroon	212	4.4	14.6	7.6	18.6	21.1	12.0	-10.2	10.3	0.05	122
Central African Republic	68	1.5	18.7	9.2	19.4	70.6	24.7	-13.1	...	...	145
Chad	85	6.2	10.0	...	45.7	3.1	37.1	-10.5	7.0	...	...
Comoros	88	1.8	6.0	...	6.9	51.8	49.1	-18.7	5.9	...	...
Congo	124	1.3	8.0	2.4	46.2	16.2	39.8	-1.8	10.8	0.13	125
Côte d'Ivoire	479	7.3	19.3	15.0	20.6	20.3	19.4	-8.6	6.9	0.11	90
Congo, Dem. Rep. of	80	7.0	15.1	...	46.2	48.8	16.9	7.1	5.8	0.00	...
Djibouti	99	2.7	3.2	...	8.5	71.9	29.8	-34.1	0.2	...	...
Egypt	568	6.4	13.7	22.7	26.0	60.0	37.1	-6.7	12.5	0.50	68
Equatorial Guinea	1,508	8.0	25.1	...	46.1	7.7	25.3	-10.0	...	1.09	...
Eritrea	39	3.6	6.1	9.7	16.0	63.1	2.0	-6.8	...	0.16	149
Eswatini	1,066	3.1	26.6	2.2	27.7	89.8	19.3	3.1	15.8	0.20	86
Ethiopia	46	7.6	5.6	16.1	6.9	16.6	35.2	-12.7	3.2	1.04	143
Gabon	532	6.2	8.0	5.4	40.4	37.8	14.9	0.9	...	0.42	110
Gambia	13	0.6	1.9	3.9	4.5	55.5	9.1	-24.5	1.3	...	150
Ghana	244	2.5	11.9	10.8	24.0	14.5	11.9	-11.8	11.5	0.28	113
Guinea	110	4.0	11.1	...	29.1	43.8	2.5	2.9	2.8	...	...
Guinea-Bissau	63	2.7	9.3	...	10.1	0.5	23.3	-21.7	6.7	...	...
Kenya	156	3.5	8.9	13.1	12.4	48.2	22.0	-12.9	6.8	0.32	108
Lesotho	191	4.3	19.4	...	32.3	91.7	6.8	-23.1	22.6	...	...
Liberia	23	-1.0	4.4	...	7.5	53.7	39.8	-22.5	1.7	...	...
Libya	193	-5.3	2.6	16.1	40.1	8.0	10.0	-31.8	...	1.63	120
Madagascar	37	4.3	8.2	3.3	11.4	38.2	3.6	-16.6	6.7	0.00	137
Malawi	69	3.7	12.4	11.3	16.3	24.3	20.0	-19.5	3.8	...	142
Mali	138	5.7	16.6	...	17.5	5.3	47.0	-26.6	6.5	...	...
Mauritania	101	3.5	6.1	...	13.3	47.0	1.4	-11.1	6.5	...	...
Mauritius	1,176	7.5	11.5	5.3	13.8	88.4	18.9	-21.8	11.5	0.24	92
Morocco	364	1.3	14.4	41.2	16.4	80.7	64.1	-14.1	10.8	0.40	66
Mozambique	45	3.5	7.8	10.9	16.7	22.1	8.9	-38.7	4.1	0.10	135
Namibia	457	3.3	10.6	7.3	22.8	69.3	31.0	-36.8	7.2	0.00	103
Niger	43	10.2	7.8	17.7	16.9	22.9	33.9	-15.5	20.1	0.20	138
Nigeria	212	0.7	8.6	33.4	13.7	8.4	39.1	-10.1	10.7	0.16	97

**Table 1 |** Industrial indicators by country/area, latest available year (*continued*)

	MVA per capita 2022 (2015 US\$)	MVA growth rate 2022 (%)	MVA share in GDP 2022 (%)	MHT share in MVA 2020 (%)	Industry value added share in GDP 2022 (%)	Manuf. share in exports 2022 (%)	MHT share in manuf. exports 2022 (%)	Manuf. trade balance 2021 (% GDP)	Manuf. share in employment 2022 (%)	Manuf. CO <sub>2</sub> intensity 2020 (kg/US\$)	CIP Index 2021 (rank)
Rwanda	72	8.4	7.7	6.9	10.1	41.2	10.2	-14.7	4.0	0.34	136
Sao Tome and Principe	108	1.2	6.4	...	9.0	61.0	38.8	-22.9	6.4	...	...
Senegal	234	2.8	16.1	26.8	20.7	57.0	12.3	-17.4	12.9	0.36	102
Seychelles	1,093	14.2	7.0	...	10.6	76.5	28.3	-47.6	5.9	...	...
Sierra Leone	10	0.8	1.6	...	4.2	90.1	12.1	-20.3	4.1	...	...
Somalia	9	3.5	2.2	...	2.8	25.3	16.5	-12.7	10.7	...	...
South Africa	689	1.1	11.5	24.4	18.4	55.1	42.1	-1.3	8.8	1.11	49
South Sudan	11	-2.8	1.9	...	44.2	1.2	13.5	-21.3	...	0.18	...
Sudan	127	-1.7	6.7	...	12.5	4.9	26.6	-23.1	7.7	0.22	...
Togo	113	9.2	12.7	...	18.3	62.2	23.6	-16.6	15.3	0.17	...
Tunisia	521	2.0	12.7	27.6	17.3	86.8	48.9	-7.4	18.3	0.75	70
Uganda	143	7.2	16.8	11.1	22.4	24.4	20.7	-12.5	4.3	0.19	123
Tanzania	92	5.2	8.3	7.0	14.4	23.3	19.7	-11.4	4.4	0.38	129
Zambia	99	4.0	7.9	9.7	24.5	21.0	20.7	-18.6	5.8	0.32	126
Zimbabwe	112	1.2	8.2	9.6	17.3	31.6	25.1	-18.0	5.5	0.53	116

Source: [1-3; 8]

Note: Manufacturing value added per capita figures are in constant 2015 US dollars. Figures based on national accounts variables for 2023 are UNIDO estimates. CO<sub>2</sub> intensity is calculated as CO<sub>2</sub> emissions in kilograms per unit of manufacturing value added in constant 2015 US dollars. With the objective of maximizing data availability, the latest observed value for manufacturing share in employment is used. Manuf. = manufacturing



**Table 2 | Industrial indicators by country/area group, latest available year**

	MVA per capita 2022 (2015 US\$)	MVA growth rate 2022 (%)	MVA share in GDP 2022 (%)	MHT share in MVA 2020 (%)	Industry value added share in GDP 2022 (%)	Manuf. share in exports 2022 (%)	MHT share in manuf. exports 2022 (%)	Manuf. trade balance 2021 (% GDP)	Manuf. share in employ-ment 2021 (%)	Manuf. CO <sub>2</sub> intensity 2020 (kg/US\$)
World	1,879	3.2	16.8	45.1	21.4	76.5	59.2	-0.2	13.6	0.44
Africa	207	3.6	10.4	22.9	19.8	37.0	34.5	-9.8	7.4	0.49
<b>Geographical regions</b>										
Northern Africa	383	4.4	10.7	25.1	23.4	45.4	43.1	-10.8	11.6	0.58
Sub-Saharan Africa	167	3.2	10.2	21.6	18.1	33.0	29.0	-9.3	6.7	0.44
Eastern Africa	81	5.2	8.5	10.7	13.7	33.6	20.2	-15.0	5.2	0.41
Central Africa	145	5.6	11.2	5.6	31.3	19.5	18.3	-5.6	6.6	0.16
Southern Africa	658	1.4	11.4	23.1	18.9	58.8	37.3	-2.4	8.7	1.03
Western Africa	194	2.6	10.3	28.8	15.9	17.6	19.2	-11.3	8.5	0.18
<b>Selected regional groups</b>										
African Union	207	3.6	10.4	22.9	19.8	37.0	34.5	-9.8	7.4	0.49
Central African Economic and Monetary Community (CEMAC)	201	5.3	13.3	6.6	32.5	19.6	21.7	-7.4	10.0	0.31
Central American Common Market (CACM)	666	3.3	14.5	16.9	17.7	70.7	31.1	-17.5	13.7	0.21
West African Economic and Monetary Union (WAEMU)	186	6.1	15.4	18.9	19.2	23.7	18.3	-14.6	8.5	0.19
Arab Maghreb Union (UMA)	289	1.6	8.0	29.5	22.6	42.2	44.7	-14.0	11.6	0.83
Economic Community of the Great Lakes Countries (CEPGL)	74	6.9	13.5	5.5	37.6	48.2	16.5	1.9	5.7	0.04
Economic Community of West African States (ECOWAS)	195	2.6	10.3	28.8	15.9	16.9	20.4	-11.3	8.5	0.18
Southern African Development Community (SADC)	197	2.9	10.4	18.1	20.8	42.0	32.2	-6.2	5.3	0.69
Common Market for Eastern and Southern Africa (COMESA)	182	5.3	11.0	19.4	21.8	43.6	31.1	-10.5	7.0	0.46
East African Community (EAC)	101	5.6	10.8	10.3	21.1	42.0	17.9	-9.2	5.2	0.22
Southern African Customs Union (SACU)	658	1.4	11.4	23.1	18.9	58.8	37.3	-2.4	8.7	1.03
Economic Community of Central African States (ECCAS)	133	5.6	11.0	5.6	30.0	19.9	18.0	-6.3	6.2	0.17
Intergovernmental Authority on Development (IGAD) in Eastern Africa	70	5.0	6.8	14.2	10.3	44.5	25.2	-13.2	5.8	0.60
Community of Sahel-Saharan States (CEN-SAD)	260	3.6	11.1	27.7	19.6	37.1	43.5	-11.1	9.5	0.36
<b>Other groups</b>										
LDCs, Africa	87	4.8	9.1	11.5	18.9	24.8	16.1	-13.4	5.7	0.28
LLDCs, Africa	81	5.8	9.4	...	17.6	33.3	15.1	-14.6	...	...
Small island States	618	7.7	10.2	7.3	12.8	85.1	20.7	-24.9	11.8	0.24
Low-income economies in Africa	73	5.1	9.3	...	19.0	31.1	15.7	-13.5	...	...
Middle-income economies in Africa	308	3.4	10.6	...	20.0	37.9	37.1	-9.1	...	...

Source: [1; 2]

Note: Manufacturing value added per capita figures are in constant 2015 US dollars. Figures based on national accounts variables for 2023 are UNIDO estimates. CO<sub>2</sub> intensity is calculated as CO<sub>2</sub> emissions in kilograms per unit of manufacturing value added in constant 2015 US dollars. With the objective of maximizing data availability, the latest observed values for manufacturing share in employment are used to calculate the group aggregates. Manuf. = manufacturing

**Table 3 |** Countries/areas in Africa

<b>Northern Africa</b>	Malawi	Chad	Cabo Verde
Algeria	Mauritius	Congo	Côte d'Ivoire
Egypt	Mozambique	Congo, Dem. Rep. of	Gambia
Libya	Rwanda	Equatorial Guinea	Ghana
Morocco	Seychelles	Gabon	Guinea
Sudan	Somalia	Sao Tome and Principe	Guinea-Bissau
Tunisia	South Sudan	<b>Southern Africa</b>	Liberia
<b>Eastern Africa</b>	Uganda	Botswana	Mali
Burundi	Tanzania	Eswatini	Mauritania
Comoros	Zambia	Lesotho	Niger
Djibouti	Zimbabwe	Namibia	Nigeria
Eritrea	<b>Central Africa</b>	South Africa	Senegal
Ethiopia	Angola	<b>Western Africa</b>	Sierra Leone
Kenya	Cameroon	Benin	Togo
Madagascar	Central African Republic	Burkina Faso	

## Selected regional groups

**Table 4 |** List of countries/areas included in African Union

<b>African Union</b>			
Algeria	Djibouti	Libya	Seychelles
Angola	Egypt	Madagascar	Sierra Leone
Benin	Equatorial Guinea	Malawi	Somalia
Botswana	Eritrea	Mali	South Africa
Burkina Faso	Eswatini	Mauritania	South Sudan
Burundi	Ethiopia	Mauritius	Sudan
Cabo Verde	Gabon	Morocco	Tanzania
Cameroon	Gambia	Mozambique	Togo
Central African Republic	Ghana	Namibia	Tunisia
Chad	Guinea	Niger	Uganda
Comoros	Guinea-Bissau	Nigeria	Zambia
Congo	Kenya	Rwanda	Zimbabwe
Congo, Dem. Rep. of	Lesotho	Sao Tome and Principe	
Côte d'Ivoire	Liberia	Senegal	

**Table 5 |** List of countries/areas included in Central African Economic and Monetary Community (CEMAC)

<b>Central African Economic and Monetary Community (CEMAC)</b>		
Cameroon	Chad	Equatorial Guinea
Central African Republic	Congo	Gabon

**Table 6 |** List of countries/areas included in Central American Common Market (CACM)

<b>Central American Common Market (CACM)</b>		
Costa Rica	Guatemala	Nicaragua
El Salvador	Honduras	

**Table 7 |** List of countries/areas included in West African Economic and Monetary Union (WAEMU)

<b>West African Economic and Monetary Union (WAEMU)</b>			
Benin	Côte d'Ivoire	Mali	Senegal
Burkina Faso	Guinea-Bissau	Niger	Togo

**Table 8 |** List of countries/areas included in Arab Maghreb Union (UMA)

<b>Arab Maghreb Union (UMA)</b>		
Algeria	Mauritania	Tunisia
Libya	Morocco	

**Table 9 |** List of countries/areas included in Economic Community of the Great Lakes Countries (CEPGL)

<b>Economic Community of the Great Lakes Countries (CEPGL)</b>		
Burundi	Congo, Dem. Rep. of	Rwanda

**Table 10** | List of countries/areas included in Economic Community of West African States (ECOWAS)

<b>Economic Community of West African States (ECOWAS)</b>			
Benin	Gambia	Liberia	Senegal
Burkina Faso	Ghana	Mali	Sierra Leone
Cabo Verde	Guinea	Niger	Togo
Côte d'Ivoire	Guinea-Bissau	Nigeria	

**Table 11** | List of countries/areas included in Southern African Development Community (SADC)

<b>Southern African Development Community (SADC)</b>			
Angola	Eswatini	Mauritius	South Africa
Botswana	Lesotho	Mozambique	Tanzania
Comoros	Madagascar	Namibia	Zambia
Congo, Dem. Rep. of	Malawi	Seychelles	Zimbabwe

**Table 12** | List of countries/areas included in Common Market for Eastern and Southern Africa (COMESA)

<b>Common Market for Eastern and Southern Africa (COMESA)</b>			
Burundi	Eswatini	Mauritius	Uganda
Comoros	Ethiopia	Rwanda	Zambia
Congo, Dem. Rep. of	Kenya	Seychelles	Zimbabwe
Djibouti	Libya	Somalia	
Egypt	Madagascar	Sudan	
Eritrea	Malawi	Tunisia	

**Table 13** | List of countries/areas included in East African Community (EAC)

<b>East African Community (EAC)</b>			
Burundi	Kenya	South Sudan	Uganda
Congo, Dem. Rep. of	Rwanda	Tanzania	

**Table 14** | List of countries/areas included in Southern African Customs Union (SACU)

<b>Southern African Customs Union (SACU)</b>			
Botswana	Lesotho	South Africa	
Eswatini	Namibia		

**Table 15** | List of countries/areas included in Economic Community of Central African States (ECCAS)

<b>Economic Community of Central African States (ECCAS)</b>			
Angola	Central African Republic	Congo, Dem. Rep. of	Rwanda
Burundi	Chad	Equatorial Guinea	Sao Tome and Principe
Cameroon	Congo	Gabon	

**Table 16** | List of countries/areas included in Intergovernmental Authority on Development (IGAD) in Eastern Africa

<b>Intergovernmental Authority on Development (IGAD) in Eastern Africa</b>			
Djibouti	Ethiopia	Somalia	
Eritrea	Kenya	South Sudan	

**Table 17** | List of countries/areas included in Community of Sahel-Saharan States (CEN-SAD)

<b>Community of Sahel-Saharan States (CEN-SAD)</b>			
Benin	Djibouti	Libya	Senegal
Burkina Faso	Egypt	Mali	Sierra Leone
Central African Republic	Eritrea	Mauritania	Somalia
Chad	Gambia	Morocco	Sudan
Comoros	Ghana	Niger	Togo
Côte d'Ivoire	Guinea-Bissau	Nigeria	Tunisia

## Other groups

**Table 18** | List of countries/areas included in LDCs, Africa

<b>LDCs, Africa</b>			
Angola	Eritrea	Mali	South Sudan
Benin	Ethiopia	Mauritania	Sudan
Burkina Faso	Gambia	Mozambique	Tanzania
Burundi	Guinea	Niger	Togo
Central African Republic	Guinea-Bissau	Rwanda	Uganda
Chad	Lesotho	Sao Tome and Principe	Zambia
Comoros	Liberia	Senegal	
Congo, Dem. Rep. of	Madagascar	Sierra Leone	
Djibouti	Malawi	Somalia	

**Table 19** | List of countries/areas included in LLDCs, Africa

<b>LLDCs, Africa</b>			
Botswana	Chad	Malawi	South Sudan
Burkina Faso	Eswatini	Mali	Uganda
Burundi	Ethiopia	Niger	Zambia
Central African Republic	Lesotho	Rwanda	Zimbabwe

**Table 20** | List of countries/areas included in Small island States

<b>Small island States</b>		
Cabo Verde	Mauritius	Seychelles
Comoros	Sao Tome and Principe	

**Table 21** | List of countries/areas included in Low-income economies in Africa

<b>Low-income economies in Africa</b>			
Burkina Faso	Ethiopia	Malawi	Somalia
Burundi	Gambia	Mali	South Sudan
Central African Republic	Guinea	Mozambique	Sudan
Chad	Guinea-Bissau	Niger	Togo
Congo, Dem. Rep. of	Liberia	Rwanda	Uganda
Eritrea	Madagascar	Sierra Leone	Zambia

**Table 22** | List of countries/areas included in Middle-income economies in Africa

<b>Middle-income economies in Africa</b>			
Algeria	Côte d'Ivoire	Lesotho	Senegal
Angola	Djibouti	Libya	South Africa
Benin	Egypt	Mauritania	Tanzania
Botswana	Equatorial Guinea	Mauritius	Tunisia
Cabo Verde	Eswatini	Morocco	Zimbabwe
Cameroon	Gabon	Namibia	
Comoros	Ghana	Nigeria	
Congo	Kenya	Sao Tome and Principe	

## References

- [1] United Nations Industrial Development Organization (UNIDO). *National Accounts Database*. Available at <https://stat.unido.org> (accessed on Nov. 2023). Vienna, 2023 (cited on pages 2, 6, 8, 9).
- [2] United Nations Industrial Development Organization (UNIDO). *SDG 9 Database*. Available at <https://stat.unido.org> (accessed on Oct. 2023). Vienna, 2023 (cited on pages 2, 3, 8, 9).
- [3] United Nations Industrial Development Organization (UNIDO). *CIP Competitive Industrial Performance Index Database*. Available at <https://stat.unido.org> (accessed on Oct. 2023). Vienna, 2022 (cited on pages 2, 4, 8).
- [4] United Nations Statistics Division. *Demographic Yearbook 2017*. Available at <https://unstats.un.org/unsd> (accessed on Nov. 2023). 2017 (cited on page 2).
- [5] United Nations Industrial Development Organization (UNIDO). *INDSTAT 2 2022, ISIC Revision 3*. Available at <https://stat.unido.org> (accessed on Nov. 2023). Vienna, 2022 (cited on pages 4, 5).
- [6] United Nations Industrial Development Organization (UNIDO). *Quarterly IIP Database*. Available at <https://stat.unido.org> (accessed on Nov. 2023). Vienna, 2023 (cited on page 5).
- [7] International Labour Organization (ILO). *Employment by Sex and Age: ILO Modelled Estimates, Nov. 2022*. Available at <https://www.ilo.org> (accessed on Aug. 2023). 2022 (cited on page 6).
- [8] United Nations Industrial Development Organization (UNIDO). *Manufacturing Trade Database*. Available at <https://stat.unido.org> (accessed on Nov. 2023). Vienna, 2023 (cited on pages 6, 8).



Vienna International Centre  
Wagramerstr. 5, P.O. Box 300,  
A-1400 Vienna, Austria



+43 1 26026-0



[stat.unido.org](http://stat.unido.org)



[stat@unido.org](mailto:stat@unido.org)



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



ISBN 978-92-13584-92-7



9 789213 584927