



Factsheet: Asia and Oceania

Highlights from the International Yearbook of Industrial Statistics 2023

Asia and Oceania is a key global player in industry. In 2022, the region alone contributed to 41 per cent of global gross domestic product (GDP), 55 per cent of global manufacturing value added (MVA) and 48 per cent of total manufacturing exports. Some of the most important industries promoting regional manufacturing growth are computer, electronic and optical products, chemicals and chemical products, as well as machinery and equipment, all considered higher-technology industries. However, this economic success translated into a high environmental impact: the region generated more than three quarters of global carbon dioxide (CO₂) emissions from energy use in 2020.

The largest manufacturing producers in the region include China, India, Indonesia, the Republic of Korea and Taiwan Province of China. Indeed, manufacturing is increasingly concentrated in Eastern Asia, subregion that explains three-quarters of the regional MVA. On the other hand, the weight of Oceania and Western Asia has continuously decreased over the last two decades. The region's positive performance is also reflected in its sustained surplus in manufacturing trade. This can be explained by the positive trade balance in the region's powerhouse, Eastern Asia (6.1 per cent in 2021), and increasingly by the positive performance of South-eastern Asia. Other subregions recorded a manufacturing trade deficit, especially Central Asia.

Asia and Oceania achieved an average rank of 12th in the Competitive Industrial Performance (CIP) Index, confirming the high industrial competitiveness of the region. Six economies (China, Taiwan Province of China, Japan, Malaysia, Republic of Korea and Singapore) reached the top 20 in the global ranking. At the subregional level, Eastern Asia and South-eastern Asia are among the best performing globally.

Manufacturing employment in the region has displayed a recovery after the pandemic in 2020, registering a modest growth equally shared between women and men. However, there are significant intra-regional disparities in employment trends. In terms of SDG 9 progress since 2015, there is a positive dynamism, but also with differences within the region. While the United Arab Emirates, Oman and Armenia achieved significant improvements, other economies, such as Cambodia, China Hong Kong SAR, Iraq, Nepal and Yemen, slipped down the ladder in recent years.

There are multiple factors supporting the region's steady recovery since the COVID-19 pandemic. They include its robust domestic demand, macroeconomic stability and a supportive industrial policy. In general, optimistic growth prospects remain valid for Asia and Oceania.



OVERVIEW

- » MVA share in GDP: 22.4%
- » MVA growth rate: 3.4%
- » Manufacturing share in employment: 15.4%
- » Manufacturing employment
👤: 41% 👤: 59%



MAIN INDUSTRIES

- » Computers and electronics
 - » Food products
 - » Machinery



INDUSTRIAL PERFORMANCE

- » CIP Index average rank: 12th
- » SDG Industry Index:
☆☆☆☆☆☆☆☆☆☆

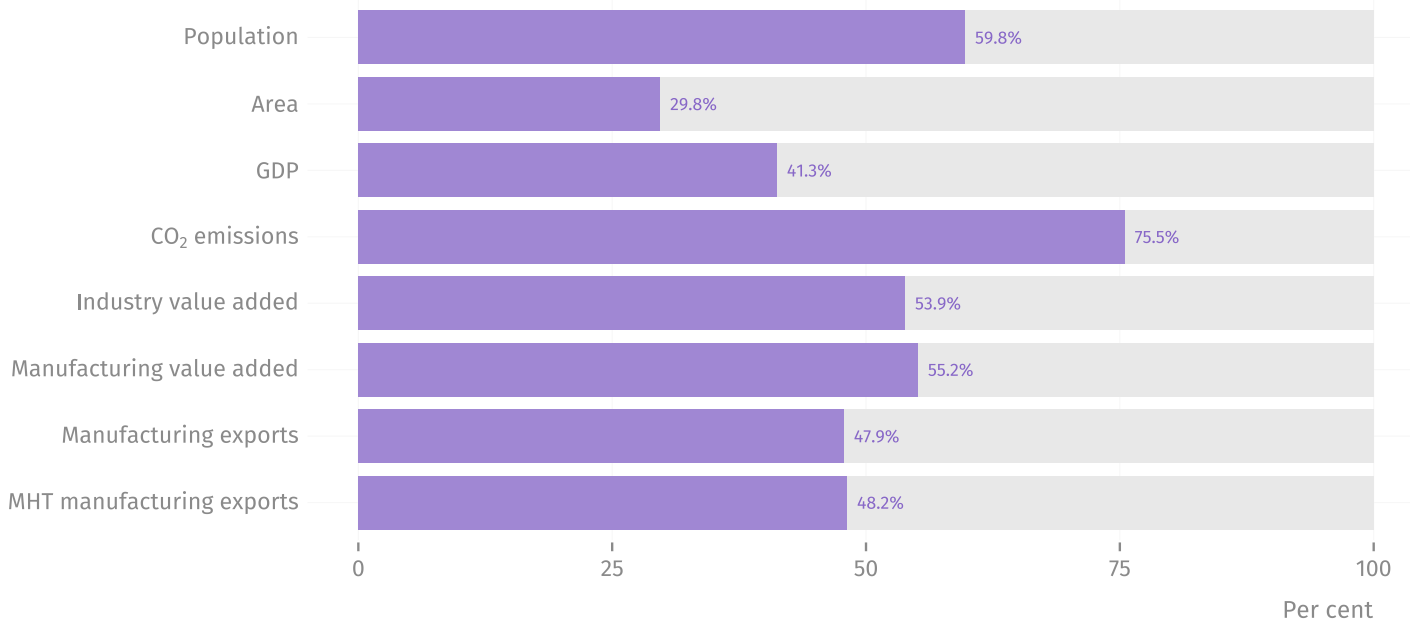


Figure 1 | Share of Asia and Oceania in the world economy, 2022

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

Note: Figures for CO₂ emissions are for 2020. CO₂ = carbon dioxide; MHT = medium-high and high technology industries.

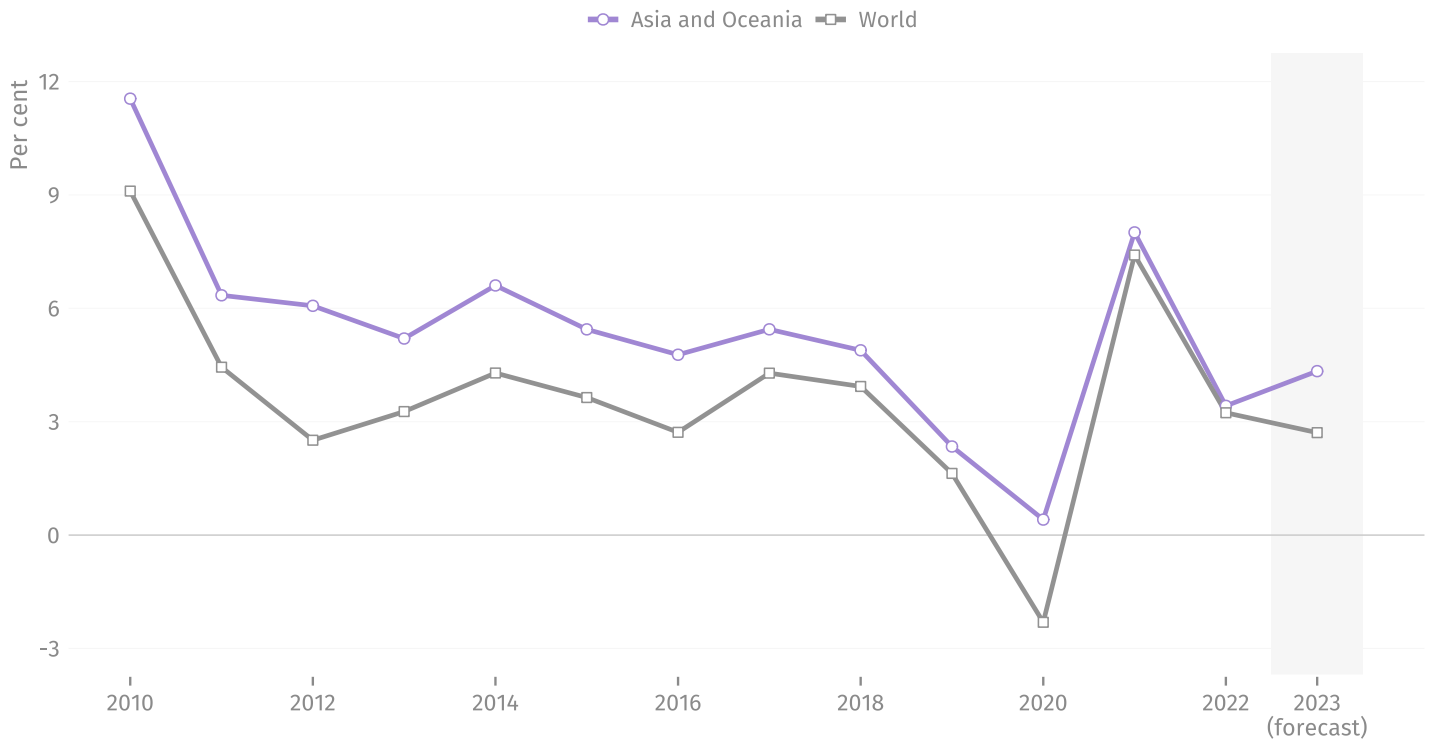


Figure 2 | Manufacturing value added growth rate

Source: [1]

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

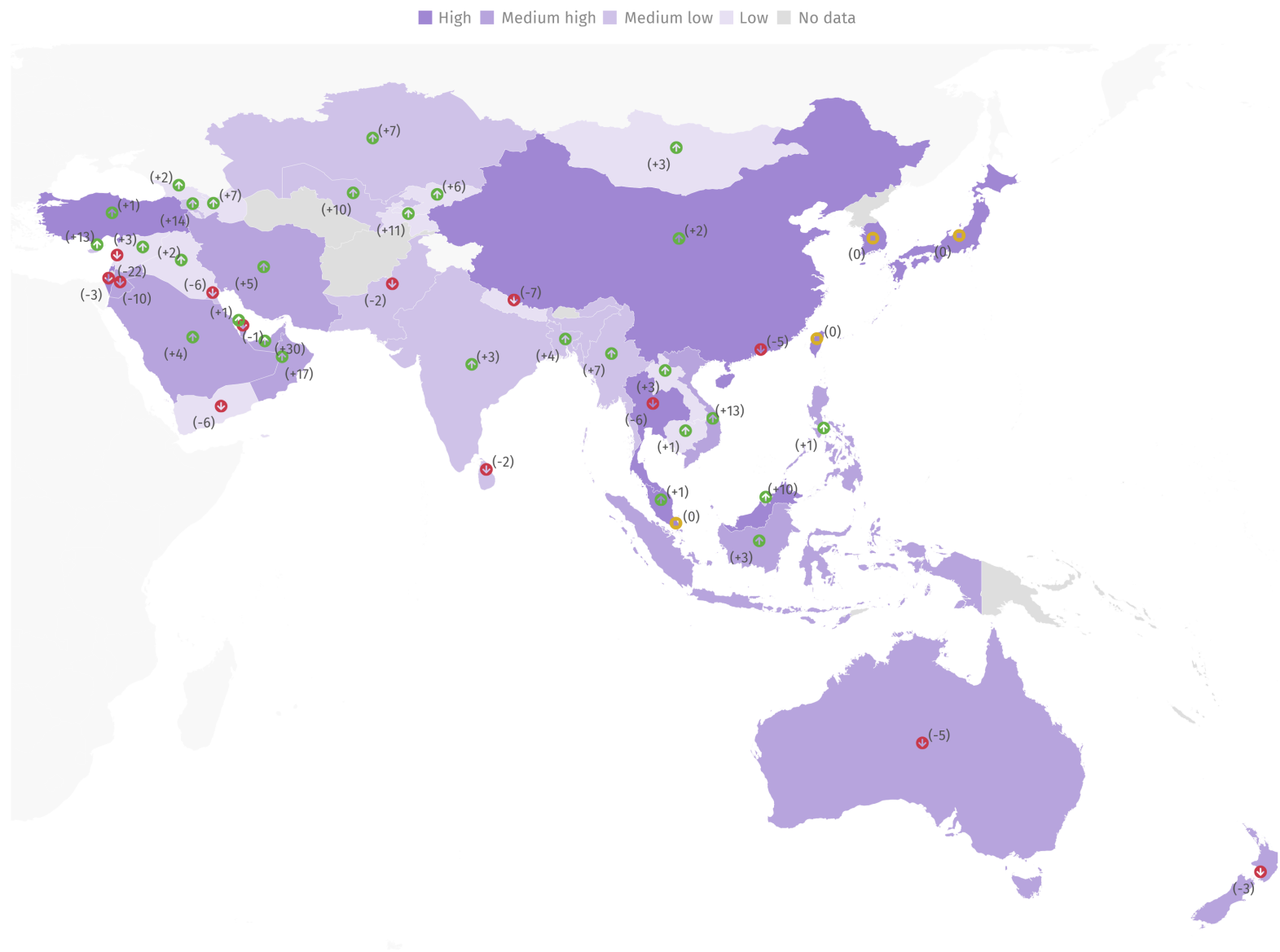


Figure 3 | SDG 9 Industry Index global ranking in Asia and Oceania, 2020

Source: [2]

Note: The map shows two indicators related to the global ranking of the SDG 9 Industry Index: (1) the fill color indicates the quartile in 2020, and (2) the icon and the text in parentheses show the change recorded in the ranking between 2015 and 2020.

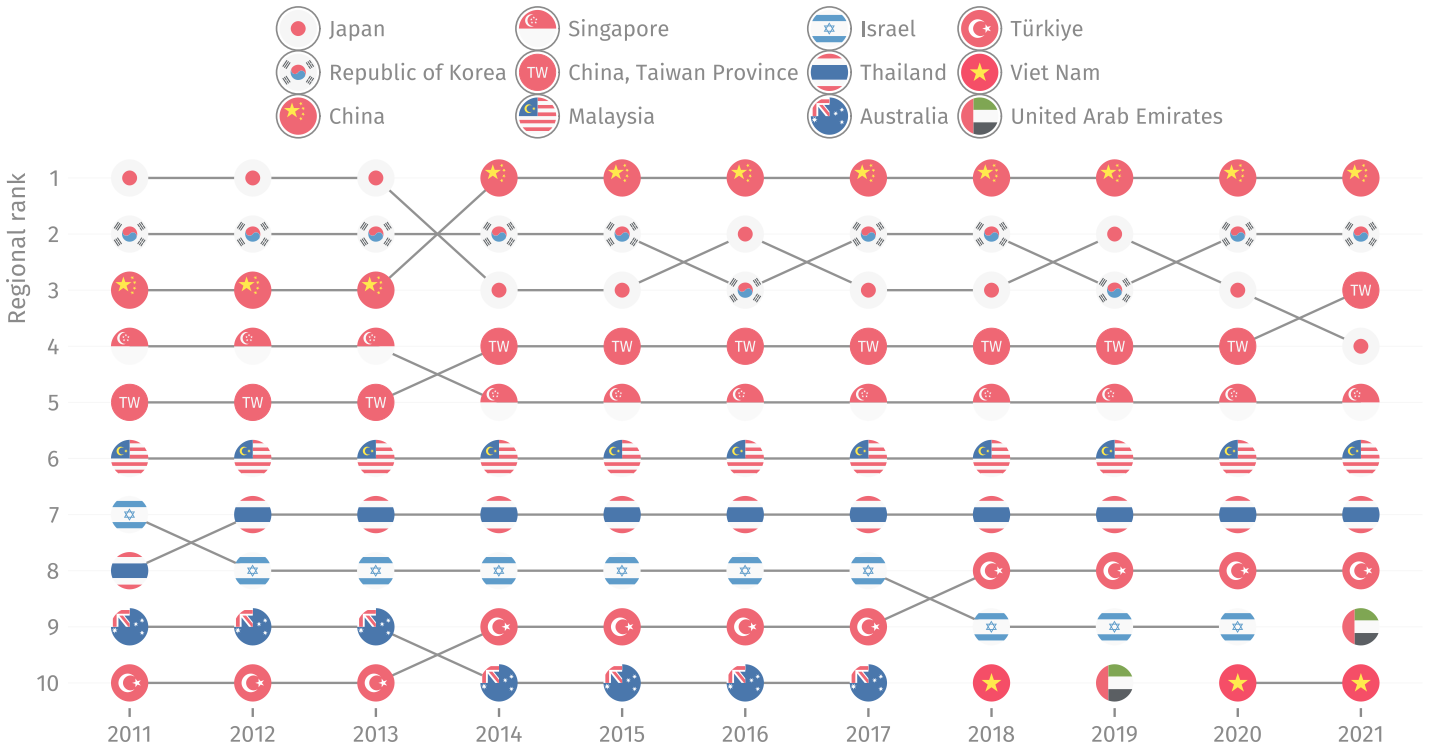


Figure 4 | Top ten economies in the Competitive Industrial Performance (CIP) Index, Asia and Oceania

Source: [3]

Note: This graph shows the ranking of countries in the region and not the global CIP ranks.

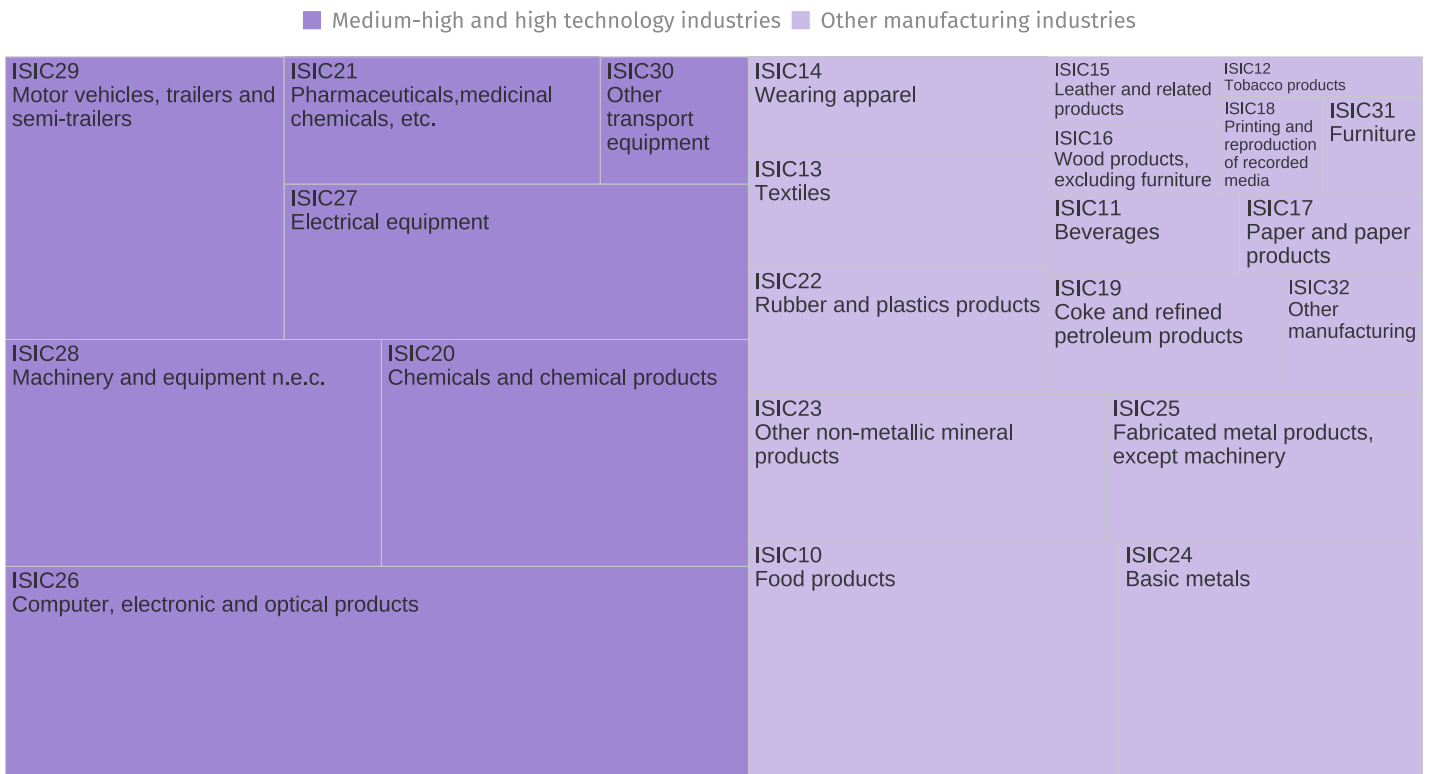


Figure 5 | Distribution of manufacturing value added by industry in Asia and Oceania, 2021

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.

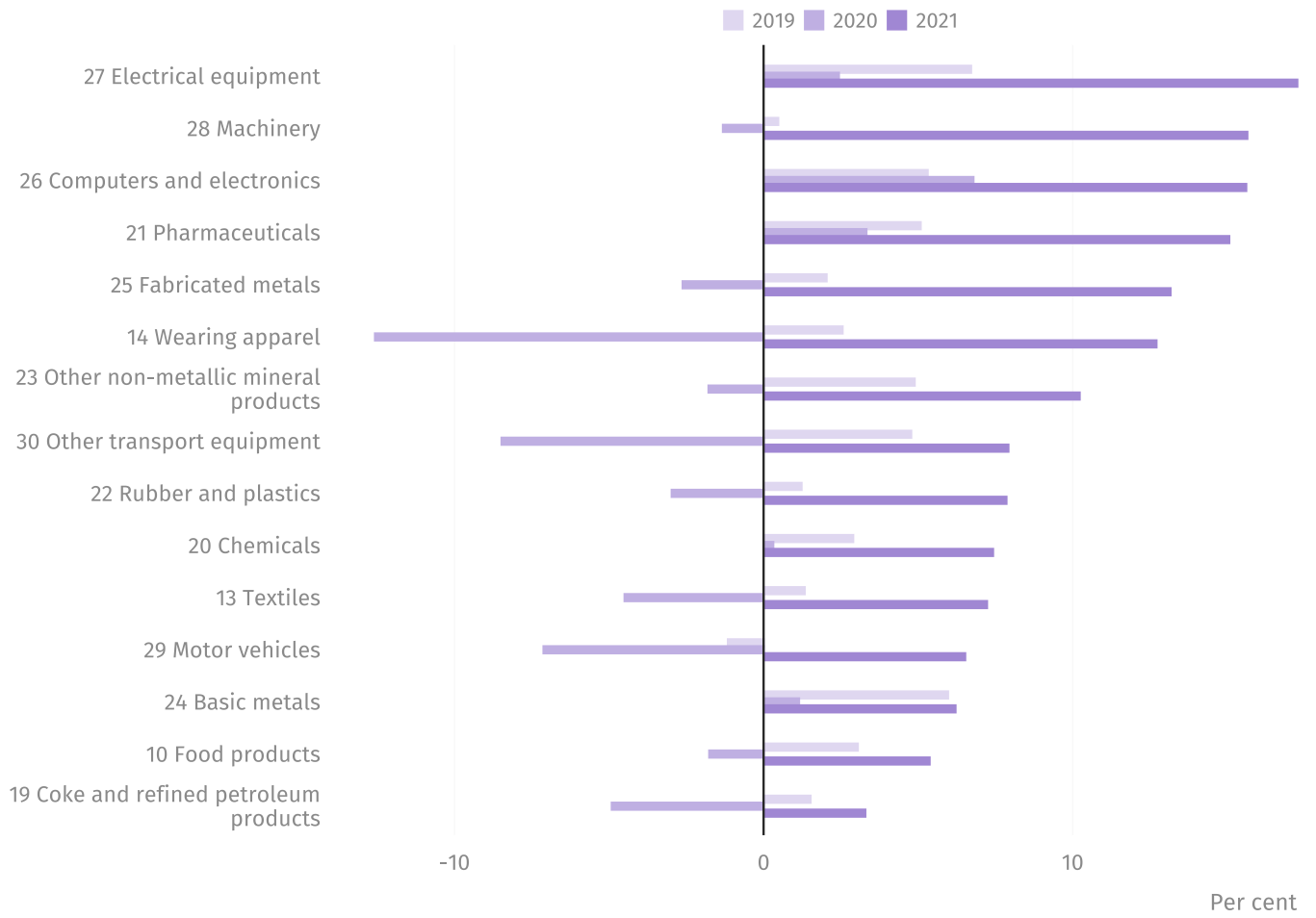


Figure 6 | Growth rate of value added by manufacturing industry, Asia and Oceania

Source: [6]

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

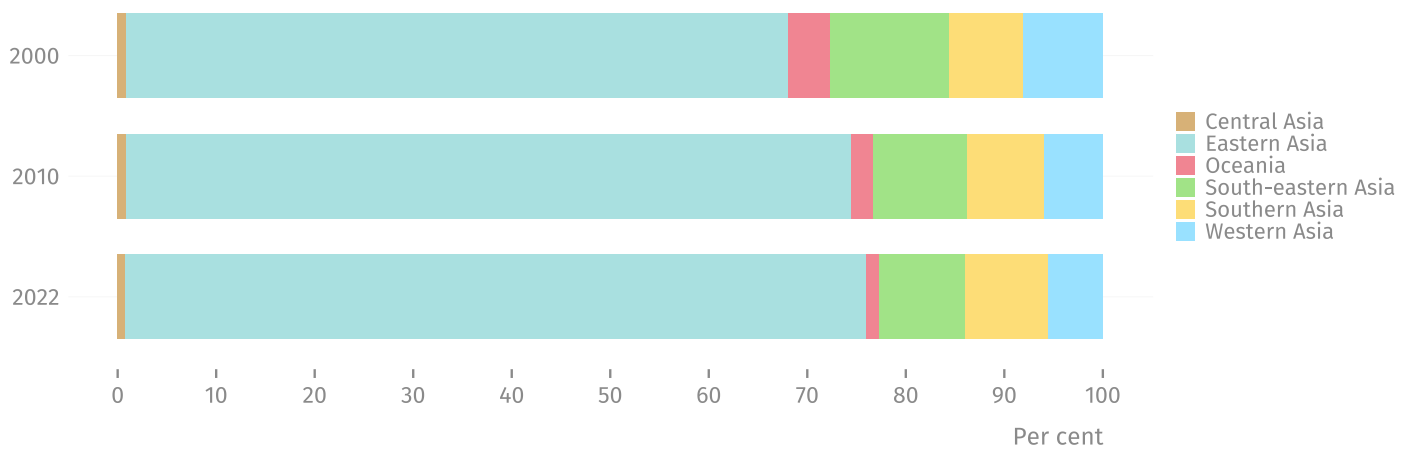


Figure 7 | Share of manufacturing value added in Asia and Oceania, by subregion

Source: [5]



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

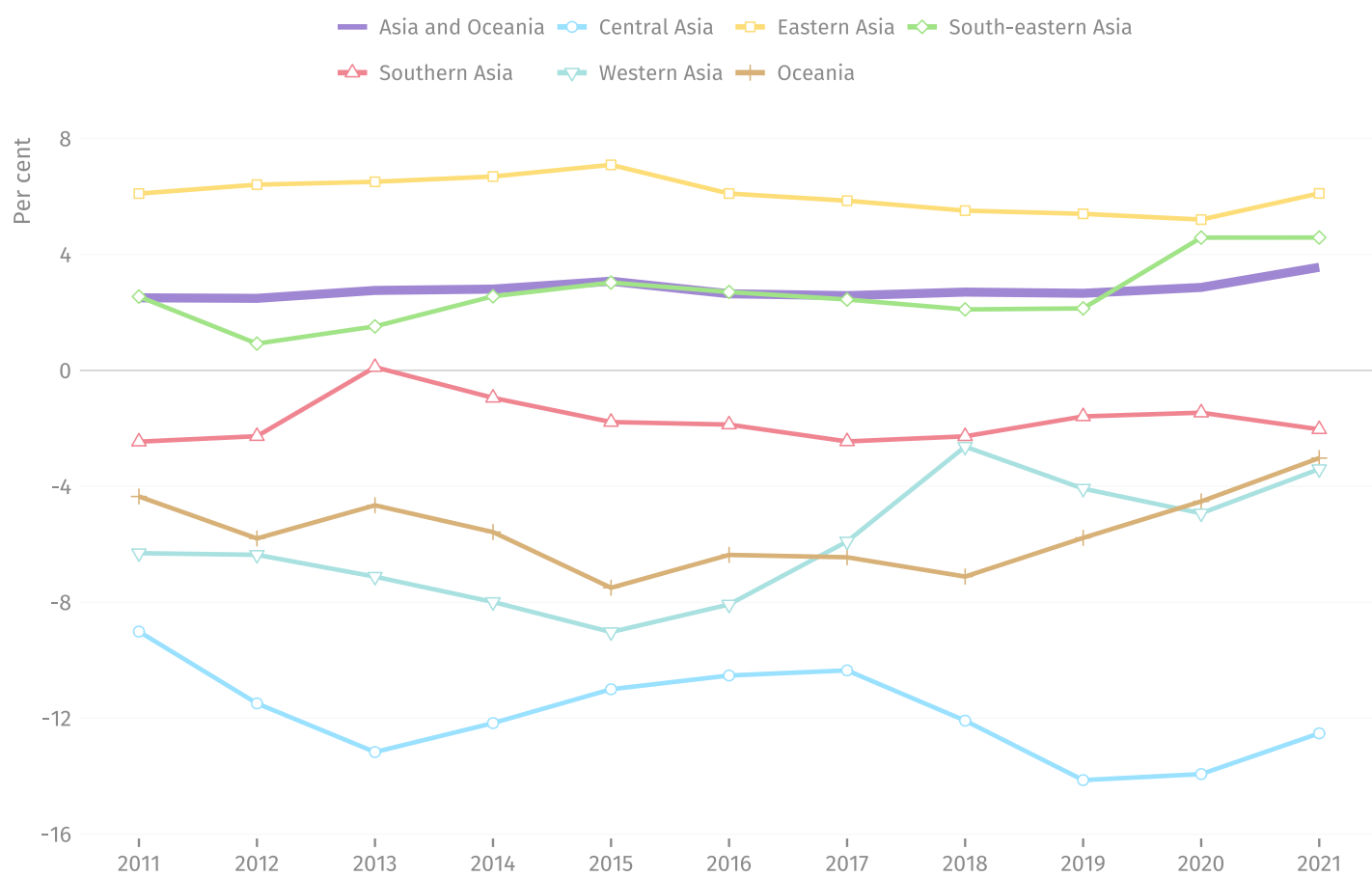


Figure 9 | Trade balance in manufacturing goods as a share of GDP, Asia and Oceania

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 ₂ intensity 2020 (kg/US\$)	CIP Index 2021 (rank)
Afghanistan	25	-4.6	7.2	8.5	11.7	7.2	14.7	-29.7	6.4	...	148
Armenia	585	10.4	11.4	8.2	19.5	82.8	25.8	-11.5	5.9	0.28	93
Australia	3,051	1.6	5.4	29.8	13.5	40.7	13.3	-2.9	6.3	0.38	33
Azerbaijan	393	2.4	7.2	15.2	31.6	5.0	44.7	-15.3	5.4	0.87	106
Bahrain	4,041	5.4	16.7	24.6	30.7	66.7	23.1	6.8	11.9	0.38	51
Bangladesh	509	10.8	23.9	7.8	27.1	96.8	1.7	-5.1	14.4	0.23	64
Bhutan	190	4.4	6.6	...	25.1	52.9	72.2	-21.7	6.8	...	...
Brunei Darussalam	5,400	-2.0	18.7	3.3	57.0	59.8	7.1	23.9	9.1	0.14	59
Cambodia	233	7.6	15.7	0.3	18.3	84.6	11.3	-25.1	16.5	0.26	83
China	3,228	2.6	28.3	41.5	32.5	95.6	60.5	6.8	28.7	0.69	2
China, Hong Kong SAR	429	-7.6	1.0	37.3	2.2	91.6	87.6	-7.7	2.5	0.73	88
China, Macao SAR	289	-9.1	1.0	2.1	2.7	94.5	42.7	-54.0	1.6	...	140
China, Taiwan Prov.	10,012	1.9	35.5	71.0	38.4	97.0	78.1	15.5	26.4	0.15	6
Cook Islands	374	-2.3	2.5	...	4.8	45.2	55.1	-28.8	3.8	...	...
Cyprus	1,199	3.0	5.6	28.1	7.6	90.1	58.5	-19.6	6.5	0.40	89
Korea, Dem. People's Rep. of	105	1.0	18.0	...	32.8	81.9	49.7	-2.9	...	...	...
Fiji	579	13.3	10.9	7.8	13.8	78.4	9.2	-28.3	5.6	...	119
French Polynesia	887	-3.6	4.9	...	7.1	74.8	27.0	-28.1	6.2	...	...
Georgia	453	13.5	8.4	12.4	13.0	87.6	46.9	-27.5	5.9	0.96	95
India	330	7.6	15.7	44.6	19.7	87.5	33.8	-0.4	11.7	1.25	41
Indonesia	817	5.5	20.1	35.0	27.5	59.8	26.2	1.0	14.0	0.63	39
Iran	825	6.5	14.7	44.7	27.7	47.7	37.1	-0.9	17.4	1.49	57
Iraq	111	4.2	2.5	9.2	36.6	5.9	6.9	-18.3	6.2	2.29	150
Israel	5,186	5.4	11.8	41.0	13.3	92.1	67.6	-5.3	9.7	0.10	31
Japan	7,279	1.4	20.1	56.9	23.3	87.9	78.4	2.5	15.5	0.19	8
Jordan	673	2.3	17.6	24.2	21.8	82.7	44.6	-14.8	9.3	0.21	75
Kazakhstan	1,327	3.2	11.3	16.9	25.4	28.3	45.0	-10.1	6.7	0.96	67
Kiribati	58	0.7	4.1	...	5.5	41.0	90.5	-60.3	4.0	...	...
Kuwait	1,890	16.7	7.0	31.9	52.0	74.0	34.8	-3.9	5.6	1.68	62
Kyrgyzstan	192	7.3	15.6	2.2	18.9	38.4	15.6	-44.4	10.7	0.38	121
Lao People's Dem. Rep	234	5.4	8.7	3.8	28.5	41.1	24.3	-9.4	5.1	0.39	109
Lebanon	241	5.3	3.9	19.9	6.7	78.7	40.6	-22.4	10.8	0.48	105
Malaysia	2,834	11.4	24.9	43.3	33.6	80.9	58.2	17.0	16.7	0.42	20
Maldives	208	9.6	1.9	2.6	4.1	29.0	14.9	-37.9	9.7	...	146
Marshall Islands	91	-5.2	1.9	...	5.9	98.0	95.0	10.7	4.3	...	...
Micronesia, Fed. States of	17	-1.6	0.6	...	3.3	3.0	34.5	-39.8	2.4	...	...
Mongolia	346	3.6	8.2	3.9	24.5	29.0	1.1	-11.8	7.3	1.22	100
Myanmar	258	2.7	22.5	23.7	28.3	48.9	8.2	-11.0	12.2	0.16	...
Nauru	1,975	10.9	21.9	...	34.2	9.7	78.0	-36.1	1.4	...	...

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 ₂ intensity 2020 (kg/US\$)	CIP Index 2021 (rank)
Nepal	51	5.9	4.9	8.6	7.4	86.3	6.9	-31.3	14.5	3.04	130
New Caledonia	4,412	20.3	14.5	...	18.7	99.4	55.8	-4.3	3.4	...	...
New Zealand	4,364	0.9	10.4	21.7	13.5	49.2	19.3	-3.1	8.9	0.27	46
Oman	1,692	5.9	9.0	45.0	41.5	49.1	44.4	-3.1	13.2	1.75	56
Pakistan	202	7.5	11.8	22.9	16.0	79.2	13.2	-9.0	14.9	1.13	81
Palau	131	-0.6	1.1	...	4.1	52.7	70.2	-59.6	1.5	...	...
Papua New Guinea	40	2.6	1.6	12.6	27.6	42.2	3.8	1.8	1.8	...	131
Philippines	699	7.0	19.8	47.2	23.9	89.8	80.0	-9.9	7.9	0.14	44
Qatar	5,681	4.3	8.9	63.5	43.4	26.5	28.5	9.2	5.3	1.20	50
Korea, Rep. of	9,061	2.7	27.0	63.8	29.7	96.6	71.9	8.9	15.9	0.14	4
Samoa	148	-12.0	4.3	...	7.5	66.2	53.2	-33.9	5.1	...	...
Saudi Arabia	2,512	7.9	12.5	36.7	35.9	37.1	39.2	0.7	5.5	1.11	35
Singapore	14,112	3.0	22.5	82.1	23.8	89.1	71.2	18.2	9.3	0.17	9
Solomon Islands	178	-7.1	9.4	...	11.4	88.3	1.1	-8.3	5.5	...	...
Sri Lanka	655	-6.5	16.8	8.3	19.8	80.2	11.1	-9.1	17.5	0.05	72
State of Palestine	305	2.3	10.3	7.2	11.9	83.3	14.3	-23.0	12.4	...	111
Syrian Arab Republic	45	3.8	5.7	21.5	31.7	65.1	22.4	-10.2	14.2	2.65	118
Tajikistan	258	7.5	19.1	2.8	26.6	39.0	4.6	-31.8	5.4	0.59	124
Thailand	1,684	2.8	26.8	41.4	32.1	86.8	59.3	7.0	16.0	0.49	25
Timor-Leste	28	3.2	1.7	...	87.0	38.5	39.1	-24.1	5.6	...	...
Tonga	210	-1.3	5.2	1.6	9.1	38.0	27.1	-40.9	9.2	...	150
Türkiye	2,478	6.6	17.7	36.7	21.1	88.1	40.5	0.0	19.7	0.43	27
Turkmenistan	1,903	-1.0	32.6	...	34.5	15.0	30.7	-2.7	...	0.07	...
Tuvalu	9	-0.5	0.2	...	1.5	23.7	84.0	-34.5	9.3	...	...
United Arab Emirates	4,721	11.1	10.6	39.2	32.3	54.3	34.6	-6.1	9.4	2.01	29
Uzbekistan	496	4.2	14.0	20.6	18.2	42.2	37.5	-20.6	11.4	0.74	87
Vanuatu	70	-1.4	2.7	...	5.7	48.1	13.0	-24.2	4.0	...	...
Viet Nam	971	12.2	26.6	38.2	31.3	88.9	54.4	5.9	21.4	1.10	30
Yemen	55	2.2	9.6	2.1	15.4	20.2	32.4	-36.7	5.5	0.58	150

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. CO₂ intensity is calculated as CO₂ 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 ₂ 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
Asia and Oceania	1,733	3.4	22.4	45.0	27.9	81.6	59.5	3.6	15.4	0.60
Geographical regions										
Asia	1,727	3.4	23.2	45.2	28.6	83.4	60.6	3.9	15.5	0.61
Central Asia	766	2.8	14.4	17.2	24.0	29.0	41.0	-12.5	10.8	0.68
Eastern Asia	3,741	2.4	26.4	47.1	30.2	94.3	67.8	6.1	18.6	0.55
South-eastern Asia	1,064	6.4	22.5	43.0	28.5	82.1	57.7	4.6	15.0	0.52
Southern Asia	345	7.5	15.8	37.7	20.8	83.0	29.3	-2.0	12.5	1.12
Western Asia	1,561	7.1	12.8	36.7	27.9	51.7	39.0	-3.4	11.7	0.79
Oceania	2,351	1.7	6.1	27.9	13.7	42.1	14.3	-3.0	6.7	0.38
Australia and New Zealand	3,268	1.5	6.1	28.1	13.5	41.6	14.0	-2.9	7.2	0.36
Melanesia	191	13.3	5.8	9.9	23.1	53.1	17.7	-3.6	4.3	...
Micronesia	128	5.8	4.0	...	7.8	47.2	92.5	-36.2	...	...
Polynesia	502	-4.4	4.7	1.6	7.2	68.6	33.3	-29.6	8.0	...
Selected regional groups										
Asia-Pacific Economic Cooperation (APEC)	3,380	2.5	18.6	45.6	22.6	81.5	63.0	0.5	16.4	0.46
Eurasian Economic Union (EAEU)	1,306	-2.2	13.5	25.6	24.2	45.7	29.5	-3.0	13.7	1.18
Gulf Cooperation Council (GCC)	2,941	8.6	11.1	38.9	37.2	47.3	35.6	-0.5	8.5	1.38
Association of Southeast Asian Nations (ASEAN)	1,066	6.4	22.5	43.0	28.5	82.1	57.7	4.6	15.0	0.52
South Asian Association for Regional Cooperation (SAARC)	323	7.7	15.9	36.2	19.9	87.5	28.8	-2.2	12.3	1.07
Economic Cooperation Organization (ECO)	736	6.1	15.4	35.4	22.2	62.1	38.1	-4.2	15.2	0.77
Other groups										
LDCs, Asia and Oceania	338	9.2	20.9	10.5	25.4	80.6	5.7	-9.2	14.0	0.26
LLDCs, Asia and Oceania	406	3.0	12.5	15.4	23.6	26.4	35.2	-14.6	9.3	0.73
SIDS, Asia and Oceania	4,107	3.2	20.2	81.0	23.5	87.8	70.0	14.3	7.0	0.21
Low-income economies in Asia and Oceania	54	0.8	10.0	...	22.9	50.4	23.6	-17.2	...	...
Middle-income economies in Asia and Oceania	1,439	3.7	24.4	...	29.3	86.4	54.6	4.0	...	...
High-income economies in Asia and Oceania	6,425	2.5	17.9	...	24.6	75.5	66.8	2.7	...	...

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. CO₂ intensity is calculated as CO₂ 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 Asia and Oceania

Central Asia	Lao People's Dem. Rep	Western Asia	Oceania
Kazakhstan	Malaysia	Armenia	Australia
Kyrgyzstan	Myanmar	Azerbaijan	Cook Islands
Tajikistan	Philippines	Bahrain	Fiji
Turkmenistan	Singapore	Cyprus	French Polynesia
Uzbekistan	Thailand	Georgia	Kiribati
Eastern Asia	Timor-Leste	Iraq	Marshall Islands
China	Viet Nam	Israel	Micronesia, Fed. States of
China, Hong Kong SAR	Southern Asia	Jordan	Nauru
China, Macao SAR	Afghanistan	Kuwait	New Caledonia
China, Taiwan Prov.	Bangladesh	Lebanon	New Zealand
Korea, Dem. People's Rep. of	Bhutan	Oman	Palau
Japan	India	Qatar	Papua New Guinea
Mongolia	Iran	Saudi Arabia	Samoa
Korea, Rep. of	Maldives	State of Palestine	Solomon Islands
South-eastern Asia	Nepal	Syrian Arab Republic	Tonga
Brunei Darussalam	Pakistan	Türkiye	Tuvalu
Cambodia	Sri Lanka	United Arab Emirates	Vanuatu
Indonesia		Yemen	

Selected regional groups

Table 4 | List of countries/areas included in Asia-Pacific Economic Cooperation (APEC)

Asia-Pacific Economic Cooperation (APEC)			
Australia	China, Taiwan Prov.	New Zealand	Thailand
Brunei Darussalam	Indonesia	Papua New Guinea	United States
Canada	Japan	Peru	Viet Nam
Chile	Korea, Rep. of	Philippines	
China	Malaysia	Russian Federation	
China, Hong Kong SAR	Mexico	Singapore	

Table 5 | List of countries/areas included in Eurasian Economic Union (EAEU)

Eurasian Economic Union (EAEU)		
Armenia	Kazakhstan	Russian Federation
Belarus	Kyrgyzstan	

Table 6 | List of countries/areas included in Gulf Cooperation Council (GCC)

Gulf Cooperation Council (GCC)		
Bahrain	Oman	Saudi Arabia
Kuwait	Qatar	United Arab Emirates

Table 7 | List of countries/areas included in Association of Southeast Asian Nations (ASEAN)

Association of Southeast Asian Nations (ASEAN)			
Brunei Darussalam	Lao People's Dem. Rep	Philippines	Viet Nam
Cambodia	Malaysia	Singapore	
Indonesia	Myanmar	Thailand	

Table 8 | List of countries/areas included in South Asian Association for Regional Cooperation (SAARC)

South Asian Association for Regional Cooperation (SAARC)			
Afghanistan	Bhutan	Maldives	Pakistan
Bangladesh	India	Nepal	Sri Lanka

Table 9 | List of countries/areas included in Economic Cooperation Organization (ECO)

Economic Cooperation Organization (ECO)			
Afghanistan	Kazakhstan	Tajikistan	Uzbekistan
Azerbaijan	Kyrgyzstan	Türkiye	
Iran	Pakistan	Turkmenistan	

Other groups

Table 10 | List of countries/areas included in LDCs, Asia and Oceania

LDCs, Asia and Oceania			
Afghanistan	Cambodia	Myanmar	Timor-Leste
Bangladesh	Kiribati	Nepal	Tuvalu
Bhutan	Lao People's Dem. Rep	Solomon Islands	

Table 11 | List of countries/areas included in LLDCs, Asia and Oceania

LLDCs, Asia and Oceania			
Afghanistan	Bhutan	Lao People's Dem. Rep	Tajikistan
Armenia	Kazakhstan	Mongolia	Turkmenistan
Azerbaijan	Kyrgyzstan	Nepal	Uzbekistan

Table 12 | List of countries/areas included in SIDS, Asia and Oceania

SIDS, Asia and Oceania			
Cook Islands	Marshall Islands	Papua New Guinea	Tonga
Fiji	Micronesia, Fed. States of	Samoa	Tuvalu
French Polynesia	Nauru	Singapore	Vanuatu
Kiribati	New Caledonia	Solomon Islands	
Maldives	Palau	Timor-Leste	

Table 13 | List of countries/areas included in Low-income economies in Asia and Oceania

Low-income economies in Asia and Oceania			
Afghanistan	Korea, Dem. People's Rep. of	Syrian Arab Republic	Yemen

Table 14 | List of countries/areas included in Middle-income economies in Asia and Oceania

Middle-income economies in Asia and Oceania			
Armenia	Iraq	Mongolia	Tajikistan
Azerbaijan	Jordan	Myanmar	Thailand
Bangladesh	Kazakhstan	Nepal	Timor-Leste
Bhutan	Kiribati	Pakistan	Tonga
Cambodia	Kyrgyzstan	Palau	Türkiye
China	Lao People's Dem. Rep	Papua New Guinea	Turkmenistan
Fiji	Lebanon	Philippines	Tuvalu
Georgia	Malaysia	Samoa	Uzbekistan
India	Maldives	Solomon Islands	Vanuatu
Indonesia	Marshall Islands	Sri Lanka	Viet Nam
Iran	Micronesia, Fed. States of	State of Palestine	

Table 15 | List of countries/areas included in High-income economies in Asia and Oceania

High-income economies in Asia and Oceania			
Australia	Cook Islands	Kuwait	Saudi Arabia
Bahrain	Cyprus	Nauru	Singapore
Brunei Darussalam	French Polynesia	New Caledonia	United Arab Emirates
China, Hong Kong SAR	Israel	New Zealand	
China, Macao SAR	Japan	Oman	
China, Taiwan Prov.	Korea, Rep. of	Qatar	

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