



# Factsheet: Northern America and Europe

## Highlights from the International Yearbook of Industrial Statistics 2023

The region of Northern America and Europe is a leading global player in industry, contributing to about half of global gross domestic product (GDP), **38 per cent** of **world manufacturing value added** (MVA) and 46 per cent of manufacturing exports. The United States is the largest manufacturer, while Germany maintains its stronghold in Europe. Other powerhouses include France, Italy, the Russian Federation and the United Kingdom. At the subregional level, Northern America remains the largest contributor to the region's MVA, followed by Western Europe. Even if Eastern Europe is the smallest subregion, it recorded a significant improvement, doubling its share in regional MVA over the last two decades.

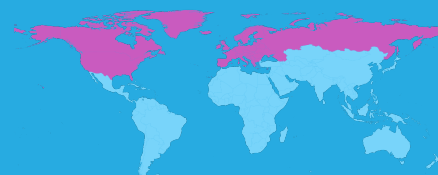
Major industries contributing to MVA include food products, machinery, chemicals, fabricated metal products, and computer, electronic and optical products. The region's manufacturing sector achieved a remarkable dynamism in the post-pandemic recovery, with **higher-technology industries** at the forefront.

Diverse manufacturing trade performance is observed by subregion. Western Europe registered a sustained **manufacturing trade surplus** in the last two decades (4 per cent of GDP in 2021), followed by Southern Europe's modest surplus. Other subregions recorded a manufacturing trade deficit, especially Northern America (5 per cent of GDP).

The region has some of the **highest industrial competitiveness** in the world, achieving an average rank of 10<sup>th</sup> in the Competitive Industrial Performance (CIP) Index. Fourteen economies of the Index's global top 20 are located in this region, with **Germany** taking the lead. Ireland, the United States, Switzerland and the Netherlands followed in the regional ranking. This positive performance is also reflected in **SDG 9 progress** since 2015, with most countries classified in the top tier of the SDG 9 Industry Index. In addition, countries such as Greece and Latvia achieved a significant improvement in recent years.

However, manufacturing employment in the region is still struggling to recover from the pandemic. Only Northern America recorded minimal growth in 2021. With the exception of Northern and Western Europe, in all subregions female employment in manufacturing recorded **lower growth** than male employment in the post-pandemic period.

The region of Northern America and Europe remains one of the most important global players in the industrial landscape, with some of the world's most competitive economies. As a higher-technology industries hub, its industries are on the path to excel in **innovation, digital transformation and green transition**, leading to sustained growth.



### OVERVIEW

- » MVA share in GDP: 13.0%
- » MVA growth rate: 2.9%
- » Manufacturing share in employment: 13.1%
- » Manufacturing employment  
♂: 31% ♀: 69%



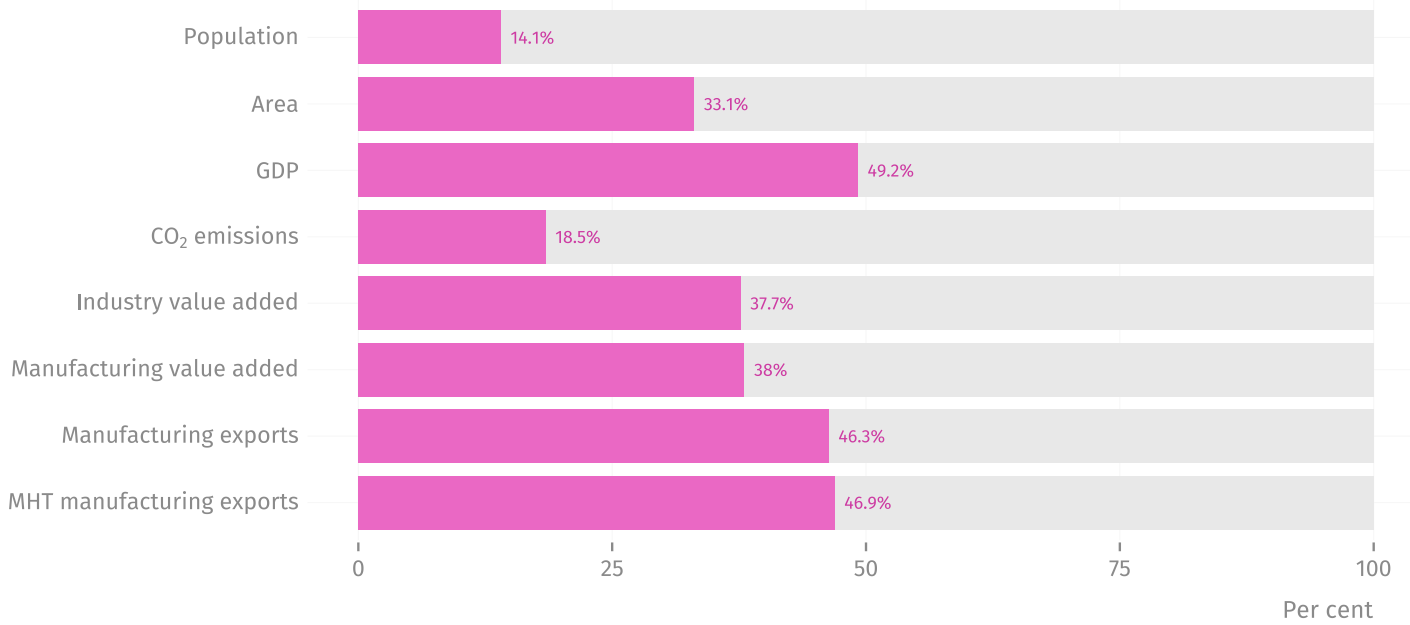
### MAIN INDUSTRIES

- » Food products
- » Machinery
- » Chemicals



### INDUSTRIAL PERFORMANCE

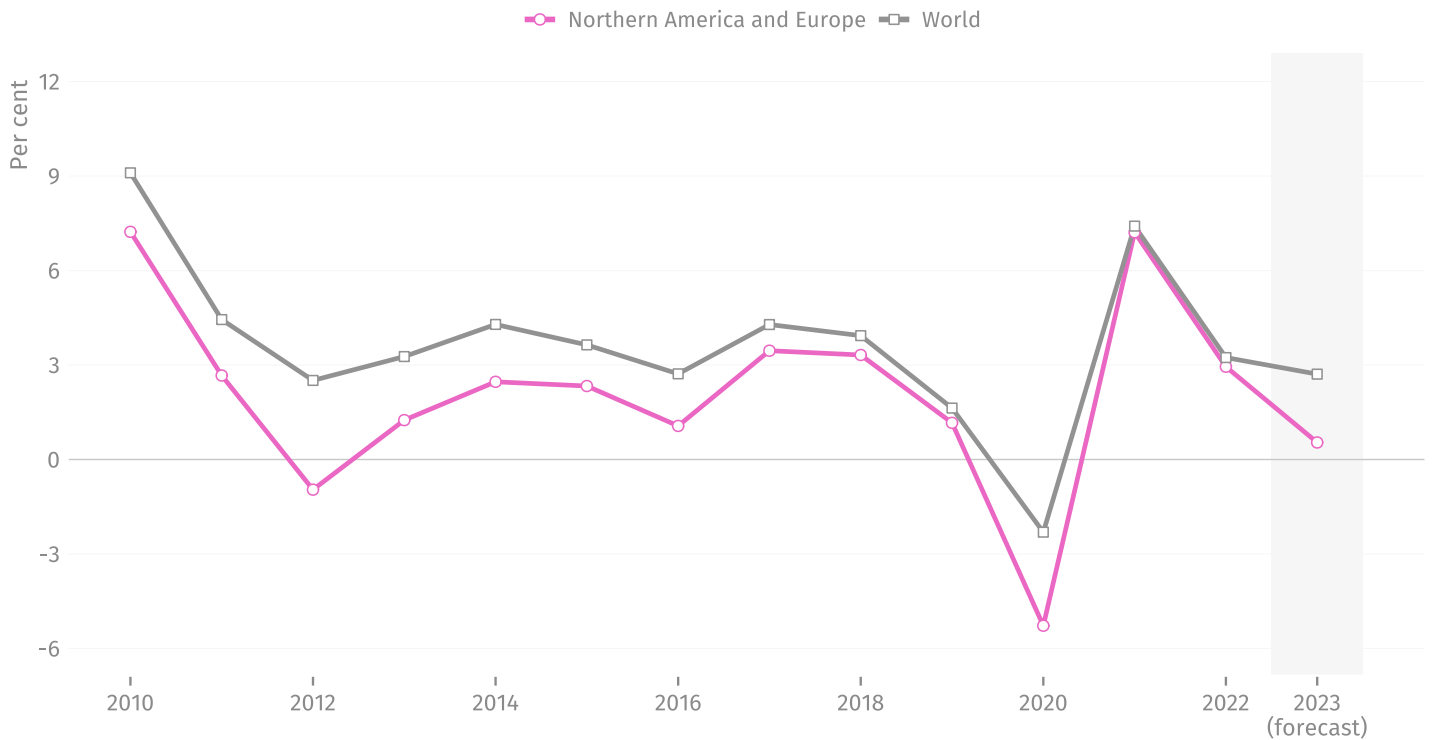
- » CIP Index average rank: 10<sup>th</sup>
- » SDG Industry Index:  
★★★★★☆☆☆☆



**Figure 1 |** Share of Northern America and Europe in the world economy, 2022

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

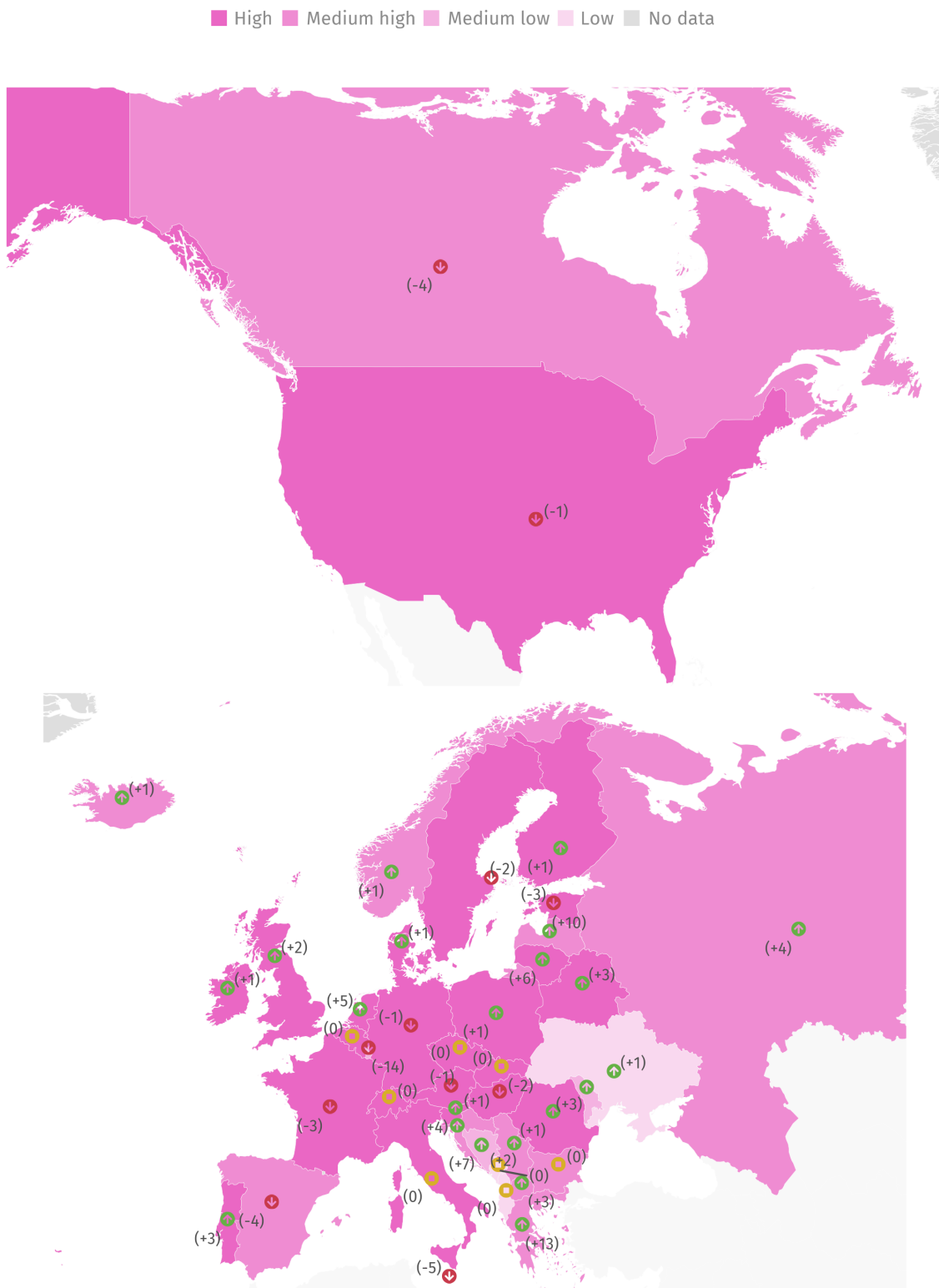
Note: Figures for CO<sub>2</sub> emissions are for 2020. CO<sub>2</sub> = carbon dioxide; MHT = medium-high and high technology industries.



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

Source: [1]

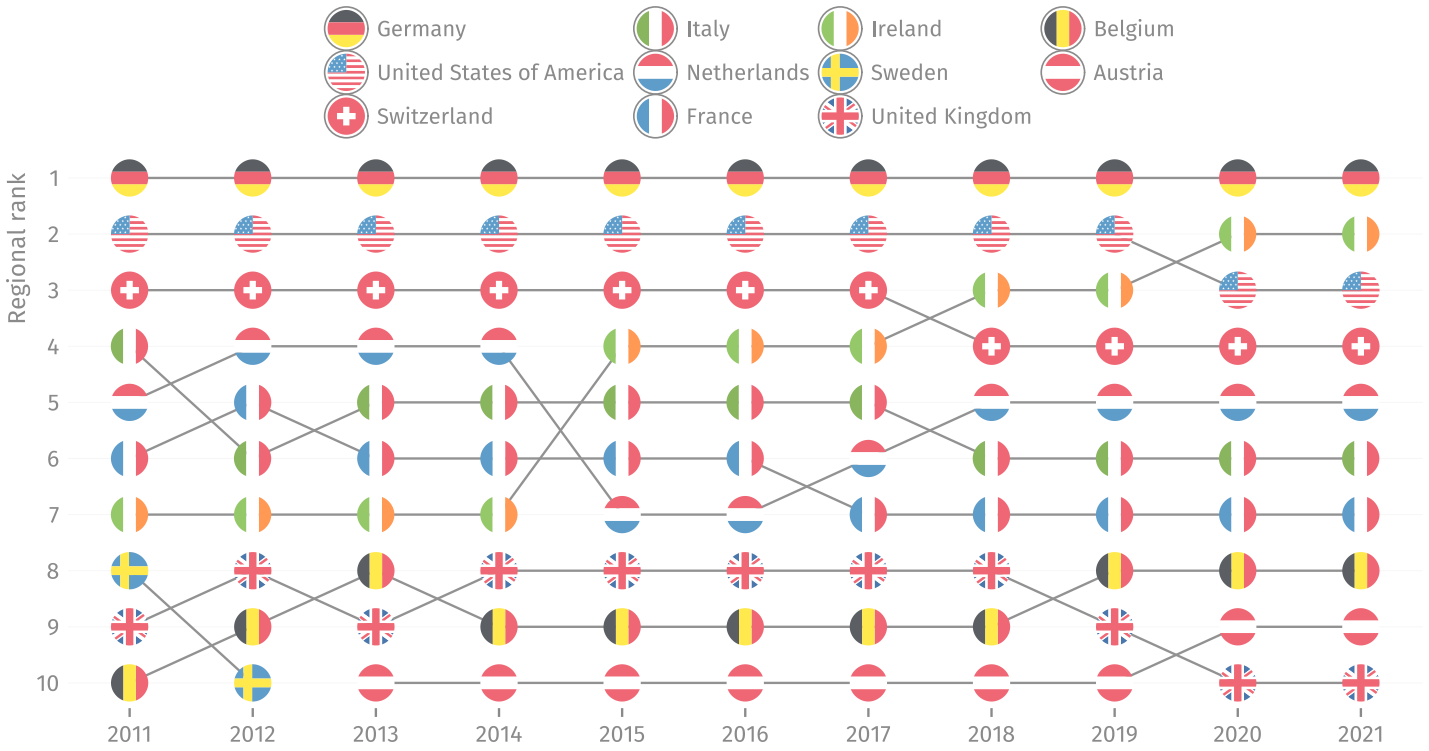
Note: Growth rates are calculated over the values in constant 2015 USD.



**Figure 3 |** SDG 9 Industry Index global ranking in Northern America and Europe, 2020

Source: [2]

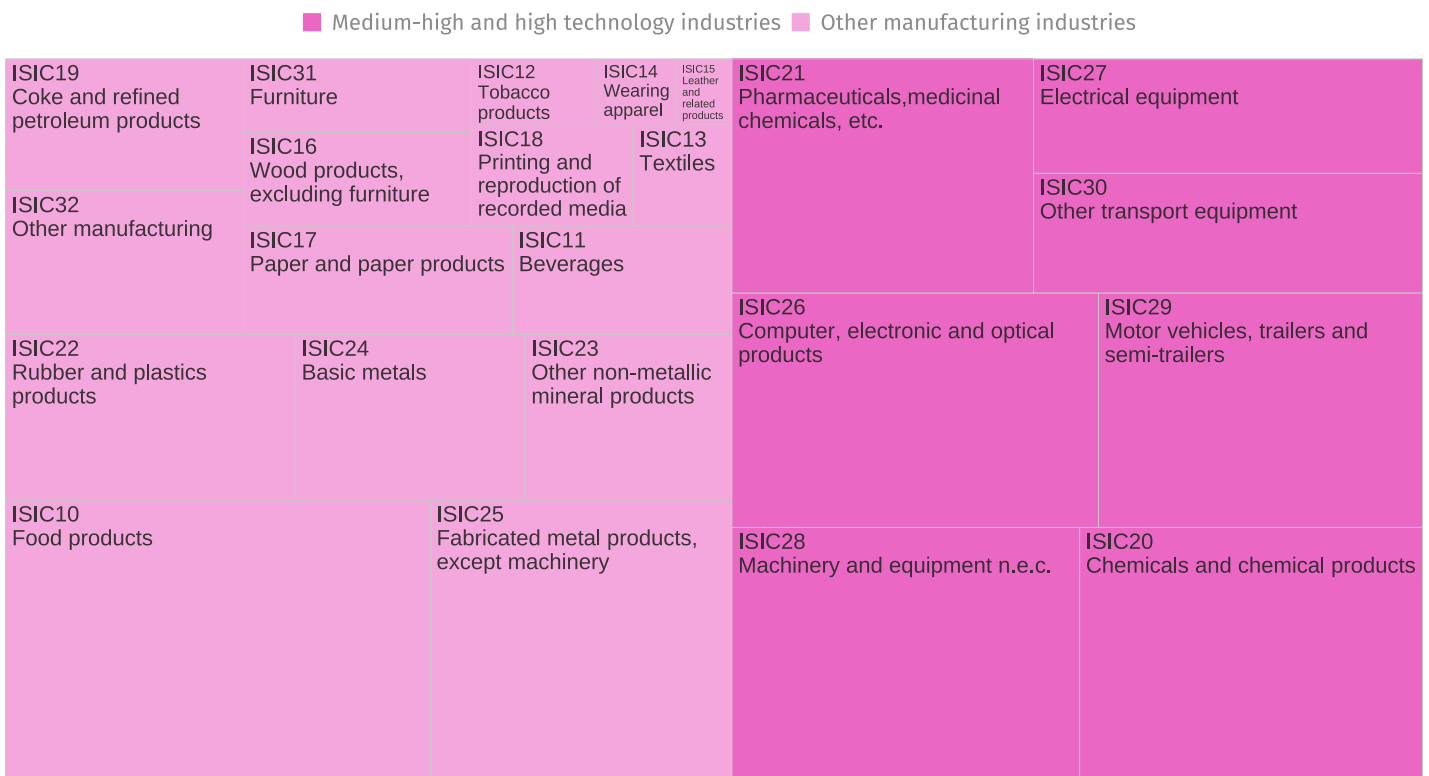
Note: The map shows two indicators related to the global ranking of the SDG 9 Industry Index: (1) the fill color indicates the quartile in 2020, and (2) the icon and the text in parentheses show the change recorded in the ranking between 2015 and 2020.



**Figure 4 |** Top ten economies in the Competitive Industrial Performance (CIP) Index, Northern America and Europe

Source: [3]

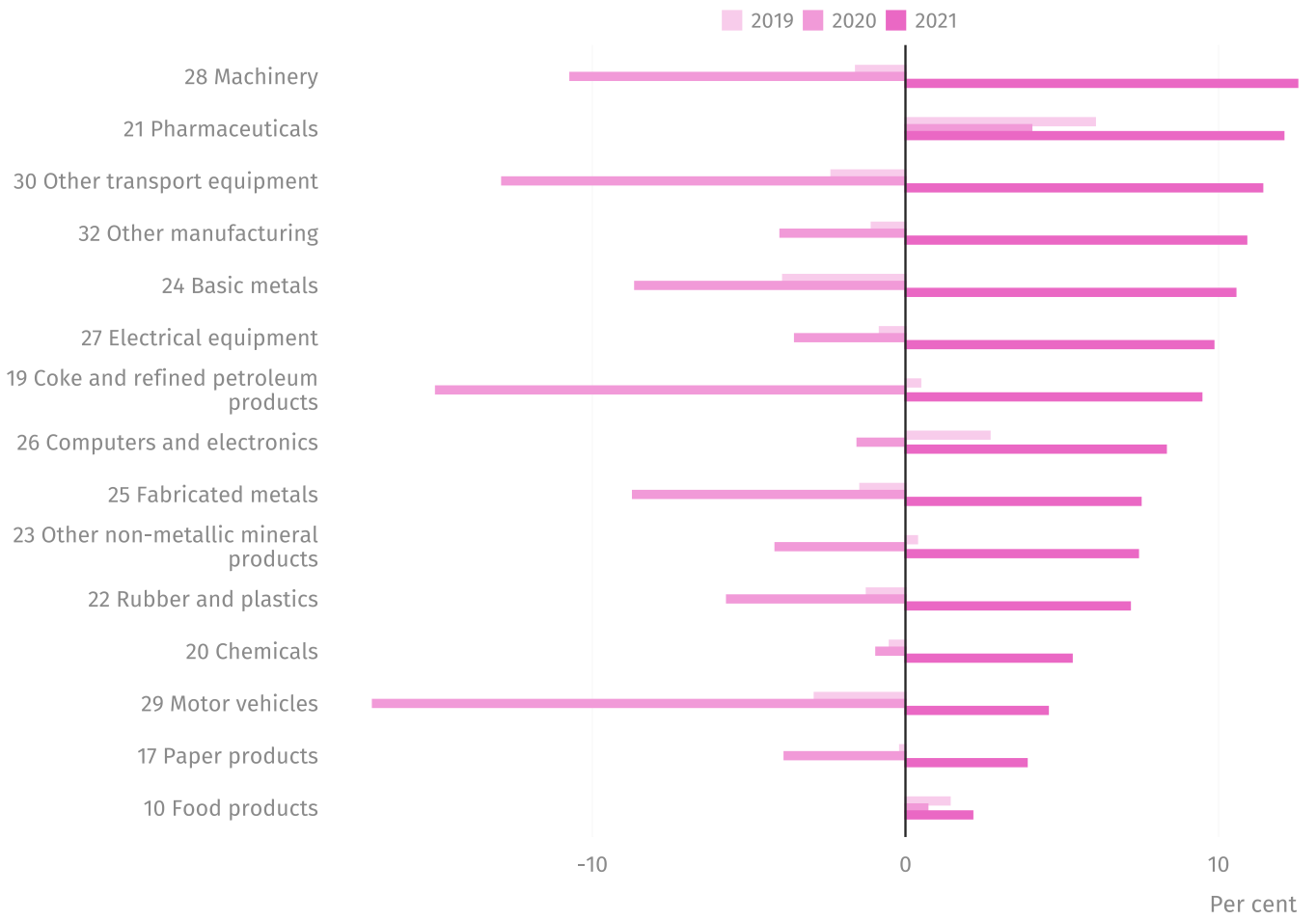
Note: This graph shows the ranking of countries in the region and not the global CIP ranks.



**Figure 5 |** Distribution of manufacturing value added by industry in Northern America and Europe, 2021

Source: [5]

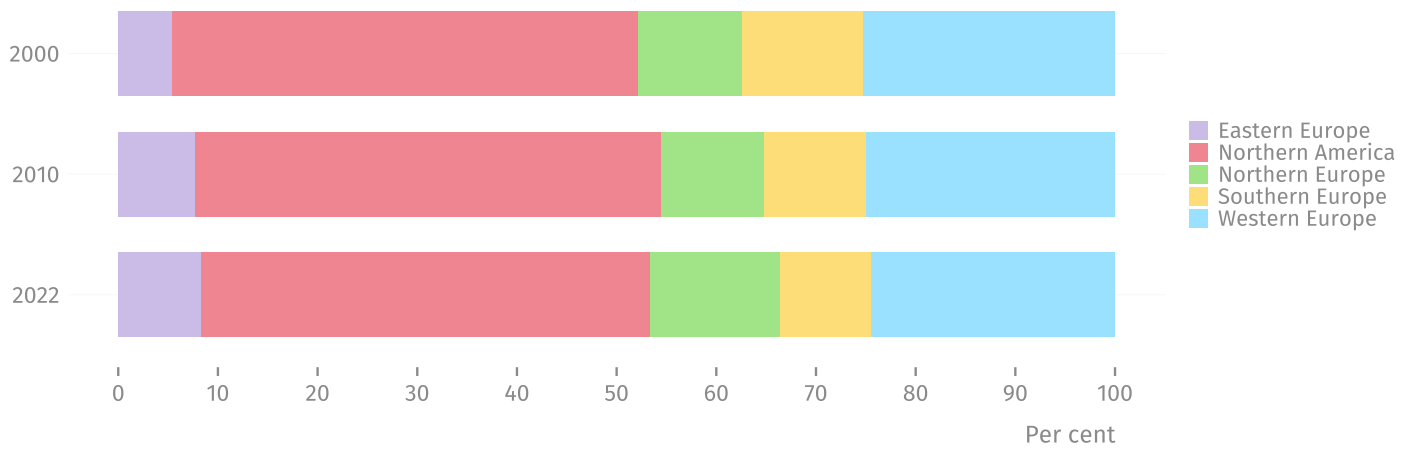
Note: The chart presents the most recent structure of regional manufacturing by industrial activity; the colours distinguish manufacturing industries according to technological intensity.



**Figure 6 |** Growth rate of value added by manufacturing industry, Northern America and Europe

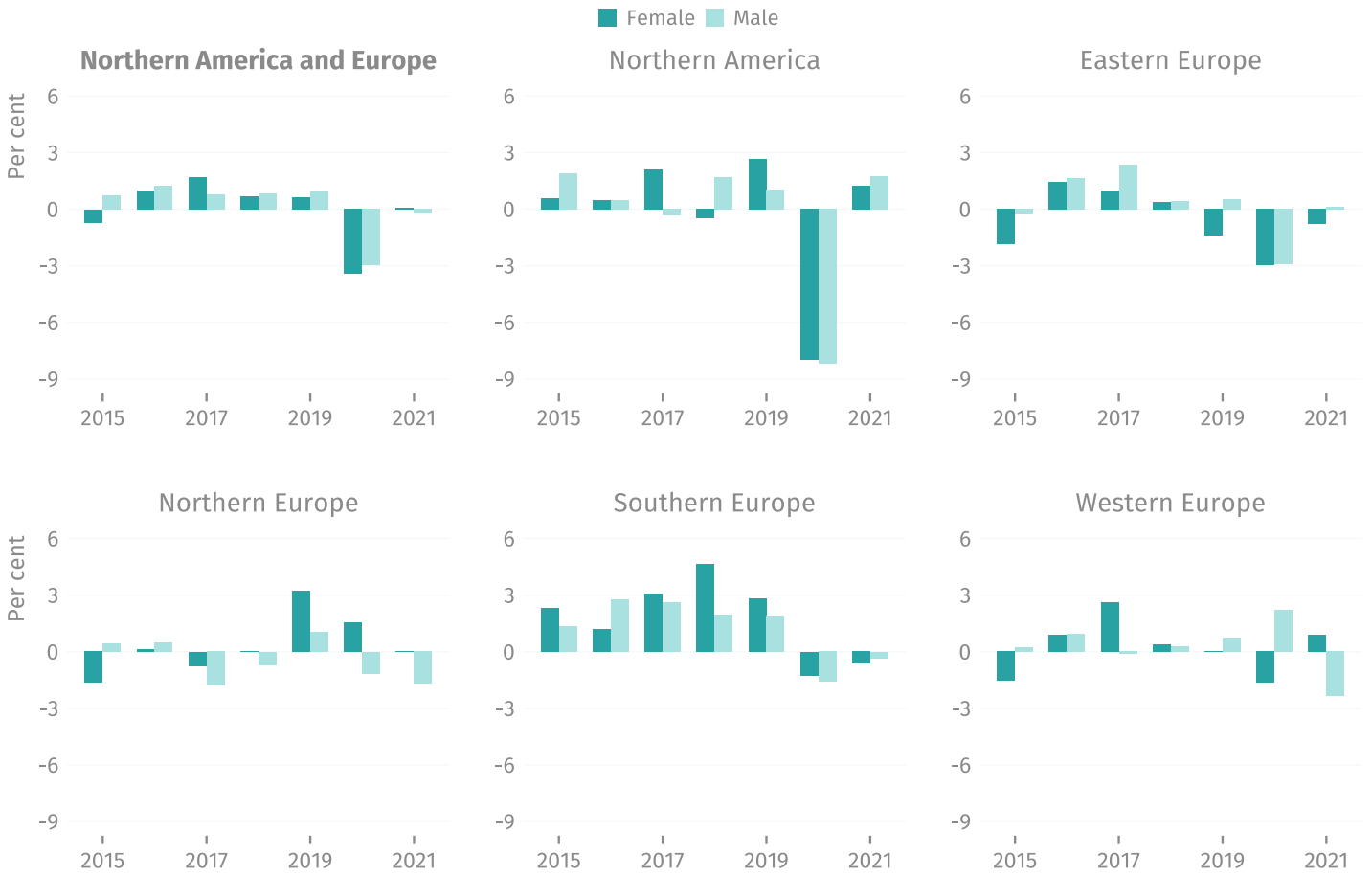
Source: [6]

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

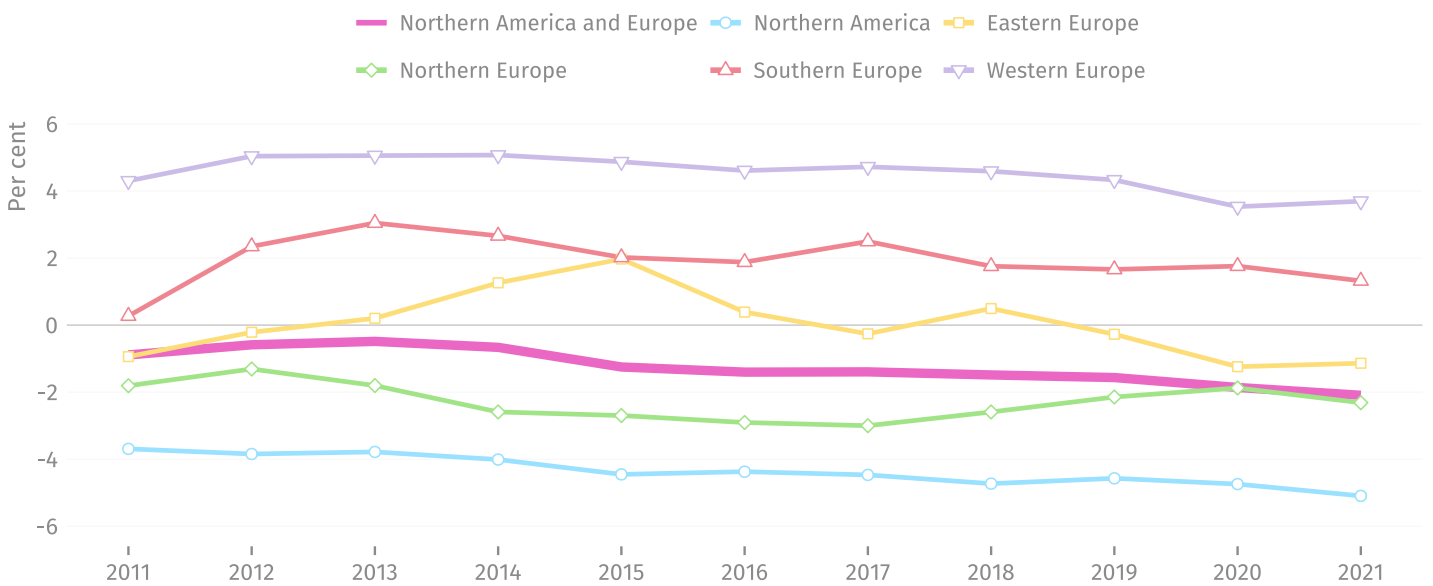


**Figure 7 |** Share of manufacturing value added in Northern America and Europe, by subregion

Source: [5]



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



**Figure 9 |** Trade balance in manufacturing goods as a share of GDP, Northern America and Europe  
 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)
Albania	349	6.6	7.0	4.2	13.1	54.5	23.8	-11.3	10.9	1.23	112
Andorra	1,577	7.1	4.0	...	4.5	42.6	66.2	-37.0	...	...	...
Austria	9,001	7.8	18.9	45.1	21.7	84.9	61.0	-1.2	16.8	0.14	14
Belarus	1,418	-3.7	23.4	41.2	28.1	84.0	44.0	10.7	17.6	0.33	53
Belgium	5,170	3.1	11.7	51.6	14.0	79.9	56.6	1.8	11.4	0.28	13
Bermuda	439	-1.1	0.4	8.8	2.0	85.7	88.7	-11.7	1.7	...	144
Bosnia and Herzegovina	785	5.4	12.7	17.9	17.1	82.0	27.6	-16.8	17.7	0.61	77
Bulgaria	1,054	3.4	11.7	32.6	17.4	70.6	45.3	-7.3	18.2	0.62	54
Canada	4,166	3.9	9.2	37.5	16.0	56.7	51.9	-5.7	8.9	0.36	19
Croatia	1,917	5.4	12.3	30.5	16.1	75.3	44.4	-13.8	17.9	0.30	52
Czechia	5,044	4.4	24.5	52.4	27.7	93.2	70.7	8.9	25.9	0.24	16
Denmark	8,521	3.7	14.3	58.5	16.5	80.8	54.4	0.6	11.3	0.07	18
Estonia	2,757	-0.5	12.7	30.2	16.7	80.7	46.4	-3.3	18.2	0.10	47
Finland	6,996	2.4	14.9	43.8	17.8	82.9	47.0	0.6	12.7	0.15	24
France	3,981	2.8	9.7	52.4	11.9	85.3	61.3	-3.2	10.9	0.14	12
Germany	8,675	2.2	20.0	61.2	22.8	88.8	71.8	7.7	19.0	0.13	1
Greece	2,133	5.1	10.4	21.7	14.7	76.5	27.6	-12.8	10.0	0.20	43
Greenland	1,205	6.0	2.4	...	5.7	28.7	39.8	-23.4	...	...	...
Hungary	2,950	7.0	18.7	53.3	20.6	88.2	76.2	5.4	21.2	0.23	26
Iceland	5,244	4.4	9.0	14.9	14.0	25.5	36.3	-22.5	8.6	0.02	78
Ireland	40,164	14.4	41.2	54.8	42.2	95.2	59.6	15.3	11.2	0.03	3
Italy	4,984	5.6	15.2	42.9	18.2	84.7	54.2	6.0	18.4	0.12	11
Kosovo	673	4.2	13.6	...	19.8	...	...	...	...	0.71	...
Latvia	2,088	1.6	12.0	21.4	14.8	71.1	39.2	-7.6	12.9	0.17	55
Liechtenstein	60,886	2.3	37.6	...	39.0	...	...	...	...	...	...
Lithuania	3,527	2.6	18.6	29.3	21.2	83.1	42.4	4.1	15.7	0.13	38
Luxembourg	5,261	-0.8	4.9	21.3	6.1	84.9	43.3	-9.1	3.0	0.27	45
Malta	1,857	3.5	6.3	31.5	7.0	85.2	66.6	-18.9	9.8	0.03	76
Monaco	7,672	2.0	3.6	...	3.6	...	...	...	...	...	...
Montenegro	302	3.9	3.9	14.9	10.2	46.5	34.5	-37.2	6.1	0.88	128
Netherlands	5,826	4.8	11.6	51.2	14.0	77.5	53.8	7.4	8.4	0.22	10
North Macedonia	589	2.2	11.1	33.7	15.1	88.6	66.9	-9.1	19.6	0.83	73
Norway	4,979	2.0	6.2	45.2	24.9	13.4	42.9	-11.0	7.3	0.21	40
Poland	2,617	7.6	16.6	33.2	21.4	86.7	53.9	-0.4	19.5	0.29	23
Portugal	2,800	6.5	12.5	27.1	15.9	91.7	42.7	-3.8	16.8	0.20	37
Moldova, Rep. of	277	-8.4	9.9	23.0	13.1	72.6	27.7	-28.6	7.0	0.78	104
Romania	2,165	5.3	18.4	44.4	22.7	84.7	59.4	-7.9	19.7	0.32	36
Russian Federation	1,361	-2.9	13.5	25.8	23.9	46.4	27.2	-2.5	14.2	1.27	34
San Marino	14,072	4.0	30.4	...	30.4	...	...	...	31.3	...	...

**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)
Serbia	951	1.7	13.8	25.1	20.2	85.9	43.4	-5.0	9.5	0.38	60
Slovakia	3,540	4.0	19.9	52.8	22.7	93.4	70.0	6.3	23.9	0.40	28
Slovenia	5,741	3.2	22.8	36.9	25.3	88.2	68.4	12.5	21.9	0.16	32
Spain	2,978	6.0	10.8	39.6	14.5	78.5	53.5	-1.0	12.3	0.22	21
Sweden	7,327	4.3	13.3	52.8	16.3	86.7	56.7	2.4	9.4	0.08	17
Switzerland	18,661	4.0	20.7	65.5	22.6	68.7	69.9	8.8	12.2	0.03	7
Ukraine	177	-39.0	9.8	32.7	16.8	61.5	29.2	-5.9	12.4	2.99	69
United Kingdom	4,863	3.9	10.4	48.2	13.7	67.1	66.7	-5.3	9.1	0.10	15
United States	7,112	1.7	11.5	46.1	14.3	71.0	63.1	-5.0	9.9	0.17	5

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
Northern America and Europe	5,087	2.9	13.0	47.7	16.3	75.8	59.9	-2.1	13.1	0.21
<b>Geographical regions</b>										
Northern America	6,809	1.8	11.3	45.5	14.4	67.8	61.0	-5.1	9.8	0.18
Europe	4,213	3.9	14.7	49.5	18.4	78.1	59.6	1.1	14.8	0.23
Eastern Europe	1,639	0.8	15.9	35.2	23.1	72.5	54.1	-1.1	16.1	0.79
Northern Europe	6,989	6.4	13.7	50.1	17.9	66.8	58.3	-2.3	9.8	0.09
Southern Europe	3,435	5.6	13.3	39.5	16.6	82.8	52.5	1.3	15.7	0.17
Western Europe	7,120	3.1	15.6	57.9	18.0	82.8	64.2	3.7	15.2	0.13
<b>Selected regional groups</b>										
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
Central European Free Trade Agreement (CEFTA)	661	2.2	11.8	23.0	17.3	81.7	42.5	-11.2	16.4	0.58
Eurasian Economic Union (EAEU)	1,306	-2.2	13.5	25.6	24.2	45.7	29.5	-3.0	13.7	1.18
United States Mexico Canada Agreement (USMCA)	5,525	2.0	11.6	45.5	14.9	69.7	64.4	-4.9	11.4	0.19
European Union	5,315	4.8	15.7	51.1	18.5	84.8	60.6	2.8	16.1	0.15
Eurozone	5,852	4.7	15.5	52.0	18.2	84.4	60.6	3.1	15.4	0.14
<b>Other groups</b>										
Middle-income economies in Europe	1,076	-4.2	13.5	...	23.1	52.7	31.5	-3.1	...	...

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 Northern America and Europe

<b>Northern America</b>	Slovakia	<b>Southern Europe</b>	Slovenia
Bermuda	Ukraine	Albania	Spain
Canada	<b>Northern Europe</b>	Andorra	<b>Western Europe</b>
Greenland	Denmark	Bosnia and Herzegovina	Austria
United States	Estonia	Croatia	Belgium
<b>Eastern Europe</b>	Finland	Greece	France
Belarus	Iceland	Italy	Germany
Bulgaria	Ireland	Kosovo	Liechtenstein
Czechia	Latvia	Malta	Luxembourg
Hungary	Lithuania	Montenegro	Monaco
Poland	Norway	North Macedonia	Netherlands
Moldova, Rep. of	Sweden	Portugal	Switzerland
Romania	United Kingdom	San Marino	
Russian Federation		Serbia	

## Selected regional groups

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

<b>Asia-Pacific Economic Cooperation (APEC)</b>			
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 Central European Free Trade Agreement (CEFTA)

<b>Central European Free Trade Agreement (CEFTA)</b>			
Albania	Kosovo	Montenegro	Serbia
Bosnia and Herzegovina	Moldova, Rep. of	North Macedonia	

**Table 6 |** List of countries/areas included in Eurasian Economic Union (EAEU)

<b>Eurasian Economic Union (EAEU)</b>		
Armenia	Kazakhstan	Russian Federation
Belarus	Kyrgyzstan	

**Table 7 |** List of countries/areas included in United States Mexico Canada Agreement (USMCA)

<b>United States Mexico Canada Agreement (USMCA)</b>		
Canada	Mexico	United States

**Table 8 |** List of countries/areas included in European Union

<b>European Union</b>			
Austria	Estonia	Italy	Portugal
Belgium	Finland	Latvia	Romania
Bulgaria	France	Lithuania	Slovakia
Croatia	Germany	Luxembourg	Slovenia
Cyprus	Greece	Malta	Spain
Czechia	Hungary	Netherlands	Sweden
Denmark	Ireland	Poland	

**Table 9 |** List of countries/areas included in Eurozone

<b>Eurozone</b>			
Austria	Finland	Italy	Netherlands
Belgium	France	Latvia	Portugal
Croatia	Germany	Lithuania	Slovakia
Cyprus	Greece	Luxembourg	Slovenia
Estonia	Ireland	Malta	Spain

## Other groups

**Table 10** | List of countries/areas included in Middle-income economies in Europe

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<b>Middle-income economies in Europe</b>			
Albania	Bulgaria	Montenegro	Serbia
Belarus	Kosovo	North Macedonia	Ukraine
Bosnia and Herzegovina	Moldova, Rep. of	Russian Federation	

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## References

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