



THE AUTOMOBILE INDUSTRY

POCKET GUIDE 2024/2025



CONTENTS

EMPLOYMENT		→	7
PRODUCTION		→	14
REGISTRATIONS		→	22
TRADE		→	36
VEHICLES ON ROADS		→	46
ROAD SAFETY		→	52
ENVIRONMENT		→	57
INNOVATION		→	66
TAXATION		→	70
ABOUT ACEA		→	81



FOREWORD

ACEA's Pocket Guide is the must-have resource for intelligence on the automotive industry and market, updated annually. Putting the focus on the data that matters most, we've slimmed down where relevant, while adding new chapters on electric vehicles (EVs).

The picture painted by this new edition is revealing as uncertainties and global competition mount. While there are positive takeaways from this year's update, the challenges our industry faces are monumental as we undergo the most significant transformation in over a century.

Some of the highlights: our industry continues to lead the way in R&D investment, with a sizeable €73 billion spent in 2023. Not only is that €14 billion more than the preceding year, but it's also double the amount invested by the next biggest sectoral investor.

EU car production jumped in 2023 nearing 15 million vehicles – nearly two million more than the previous year. Commercial vehicle production also rebounded, climbing by a notable 20%. Although volumes for all vehicle categories remain lower than pre-pandemic levels, this marks the fastest growth in the past decade.

Global car sales experienced a notable 10% rise last year with Europe's market share rising by a percentage point to reach 21%. EU car sales climbed for the first time since 2019 with battery-electric models nearly tripling their market share. Commercial vehicle sales performed even better with electric van and truck registrations almost quadrupling. Electric buses were not far behind, more than doubling their share in the same period.

While electric vehicle sales last year moved in the right direction, the share of vehicles on Europe's roads with a plug remains markedly low, underscoring the need for more robust measures to stimulate the market and replace older vehicles. And while most EU governments offer some form of incentive or tax scheme for EV buyers, charging infrastructure incentives are only available in a mere five member states.

Trade figures were promising despite the unpredictable context last year. The value of EU vehicle exports

outweighed imports, culminating in a healthy 5% trade surplus growth compared to 2022. Bus exports posted an outstanding increase, climbing by 286%. The US and the UK remain the top two destinations in both units and value, underscoring the importance of safeguarding smooth trade in our sector. Türkiye is also becoming an increasingly important trade partner, not only for imports but also as an attractive export market.

The EU also continues to lead in global road safety, with fatalities slashed by 9% with drops recorded in 21 member states. Our continual investment in vehicle automation and safety will bring further road safety benefits as newer models take the road. Our environmental footprint also continued its downward trajectory. CO2 production emissions per vehicle hit new lows and have now fallen by a significant 60% since 2005. Production water usage per vehicle also sank, having now fallen by nearly 60% in the same period.

The ACEA Pocket Guide underlies why it is so important to ensure critical industries like ours are allowed to thrive by investing and trading freely. A holistic and coordinated industrial strategy that exceeds other regions' ambitions and puts in place the right conditions for competitiveness matters.

Whether it's trade, investment, road safety, employment and beyond, our industry touches so many facets of our everyday lives – allowing businesses to grow and keep society on the move. We intend our Pocket Guide to continue acting as a valuable resource in guiding both law makers and industry on the road to a more competitive and sustainable shared future.



The ACEA Pocket Guide underlies why it is so important to ensure critical industries like ours are allowed to thrive by investing and trading freely. A holistic and coordinated industrial strategy that exceeds other regions' ambitions and puts in place the right conditions for competitiveness matters,,



Sigrid de Vries
ACEA Director General

KEY FIGURES



EMPLOYMENT

Motor vehicle manufacturing (EU)	2.4 million jobs = 8.1% of EU manufacturing employment	2022
Total (EU manufacturing, services, and construction)	13.2 million jobs = 6.8% of EU employment	2022



PRODUCTION

Motor vehicles (global)	93.9 million units	2023
Motor vehicles (EU)	14.8 million units = 15.8% of global vehicle production	2023
Passenger cars (global)	75.9 million units	2023
Passenger cars (EU)	12.2 million units = 16% of global car production	2023



REGISTRATIONS

Motor vehicles (global)	90.1 million units	2023
Motor vehicles (EU)	12.4 million units = 13.8% of global vehicle registrations	2023
Passenger cars (global)	72.8 million units	2023
Passenger cars (EU)	10.5 million units = 14.5% of global car registrations	2023
New cars by fuel (EU)	battery electric 14.6%, petrol 35.3% market share	2023
New vans by fuel (EU)	electric 7.4%, diesel 82.6% market share	2023
New trucks by fuel (EU)	electric 1.5%, diesel 95.7% market share	2023
New buses by fuel (EU)	electric 15.9%, diesel 62.3% market share	2023



TRADE

Motor vehicle exports (extra-EU)	€195.1 billion	2023
Motor vehicle imports (extra-EU)	€88.4 billion	2023
Trade balance (extra-EU)	€106.7 billion	2023



VEHICLES ON ROADS

Motor vehicles (EU)	289.6 million units	2022
Passenger cars (EU)	252.2 million units	2022
Motorisation rate (EU)	659 vehicles per 1,000 inhabitants	2022
Average age of cars (EU)	12.3 years	2022
Average age of vans (EU)	12.5 years	2022
Average age of trucks (EU)	13.9 years	2022
Average age of buses (EU)	12.5 years	2022



ROAD SAFETY

Road fatalities per million inhabitants (EU)	46 people	2022
Road fatalities (EU)	-28% since 2011	2022



ENVIRONMENT

Average CO2 emissions from new cars (EU)	107.8g CO2/km	2023
CO2 emissions from car production	-53.4% since 2005	2023



INNOVATION

Automobiles and parts sector (EU)	€72.8 billion = 33% of the EU's total R&D spending	2022
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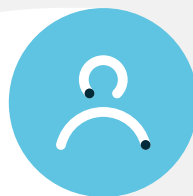
TAXATION

Fiscal income from motor vehicles (EU major markets)	€383.7 billion	2023
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EMPLOYMENT

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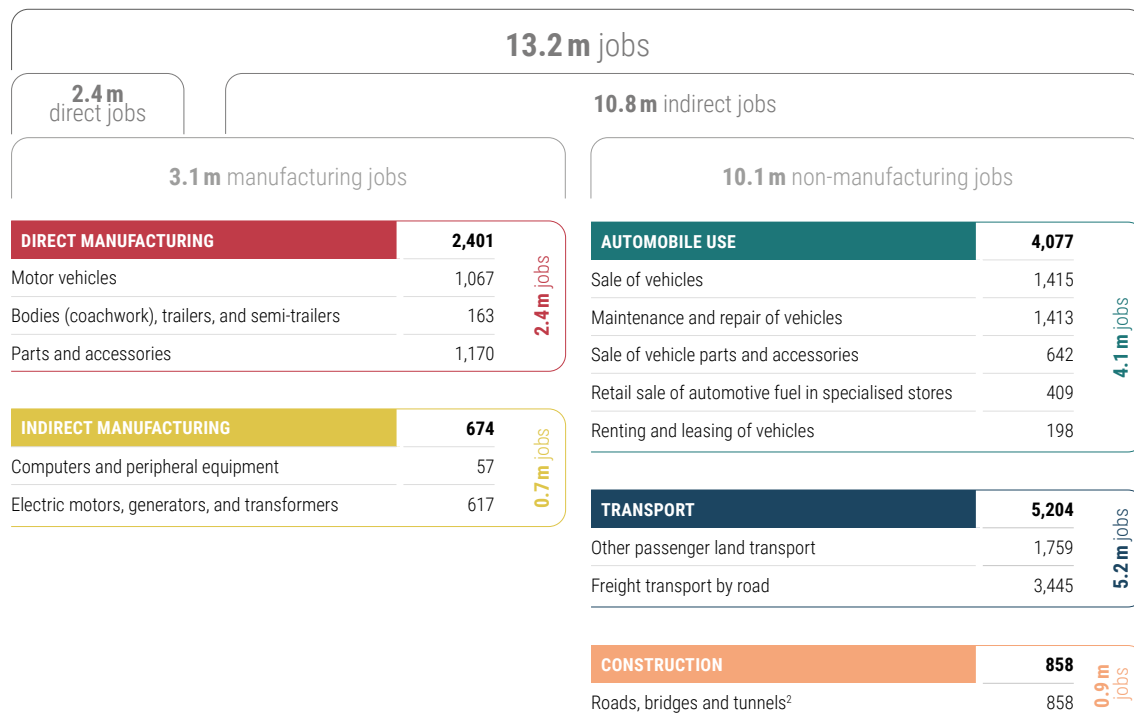
DRIVING MOBILITY FOR EUROPE



The EU auto sector employs more than 13 million across the value chain

EU AUTOMOTIVE SECTOR: DIRECT AND INDIRECT EMPLOYMENT

In thousands, 2022¹



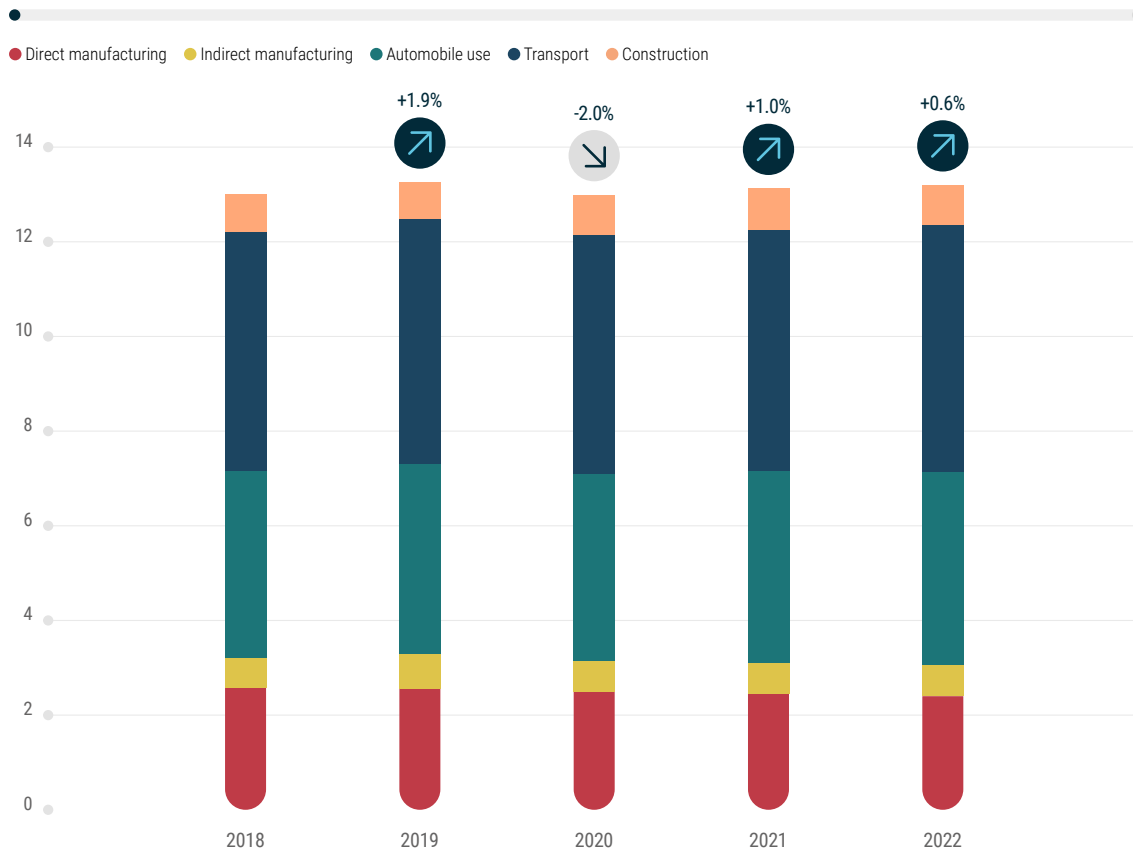
1. Provisional

2. Including railways



EU AUTOMOTIVE SECTOR EMPLOYMENT

In million jobs, 2018 – 2022¹



SOURCE: EUROSTAT

The EU auto sector accounts for around 7% of the bloc's employment

1. Provisional data for 2022. Historical data can be subject to revision in case of updates from Eurostat

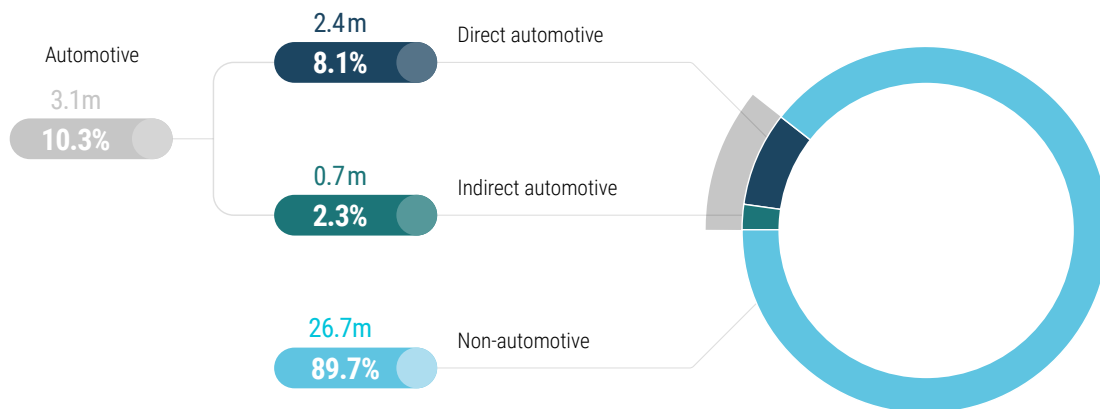


The EU
automotive
sector
accounts for
over 10% of EU
manufacturing
jobs

1. Provisional

AUTOMOTIVE SHARE OF EU MANUFACTURING JOBS

% share, 2022¹

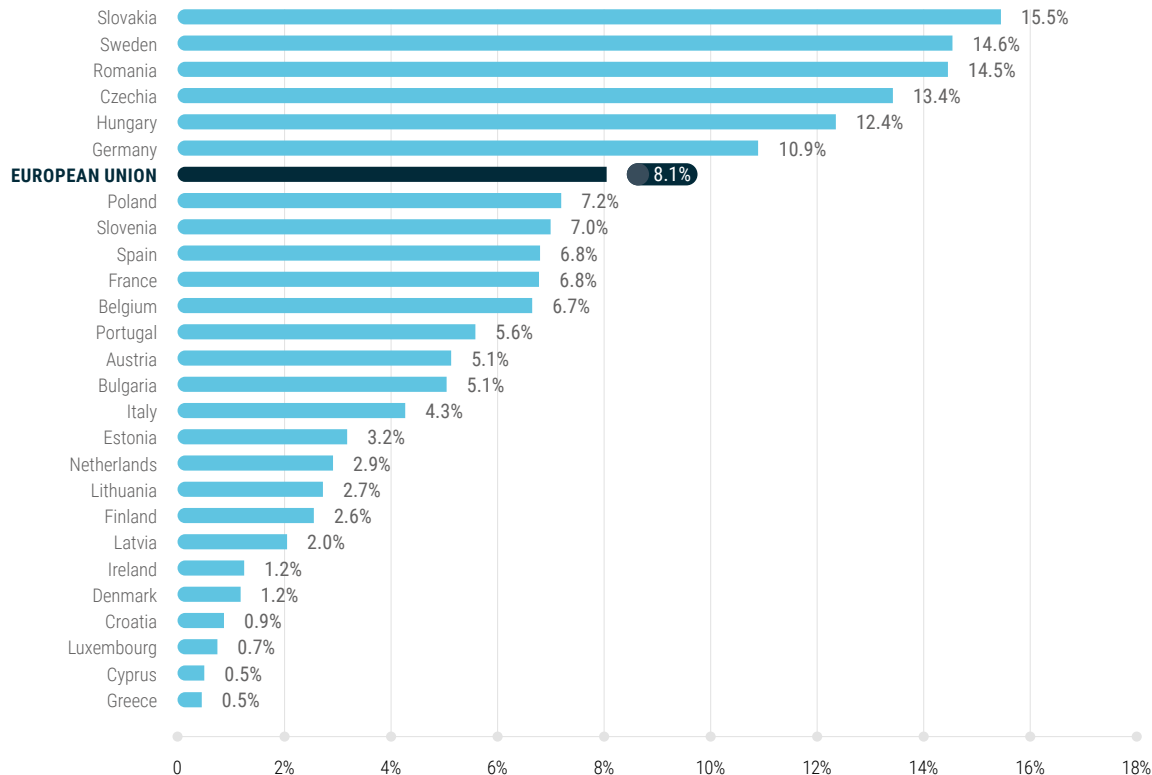


SOURCE: EUROSTAT



EU DIRECT AUTOMOTIVE EMPLOYMENT

Share of total manufacturing by country, 2022¹



SOURCE: EUROSTAT

The EU auto industry accounts for over 10% of manufacturing jobs in six member states

1. Provisional

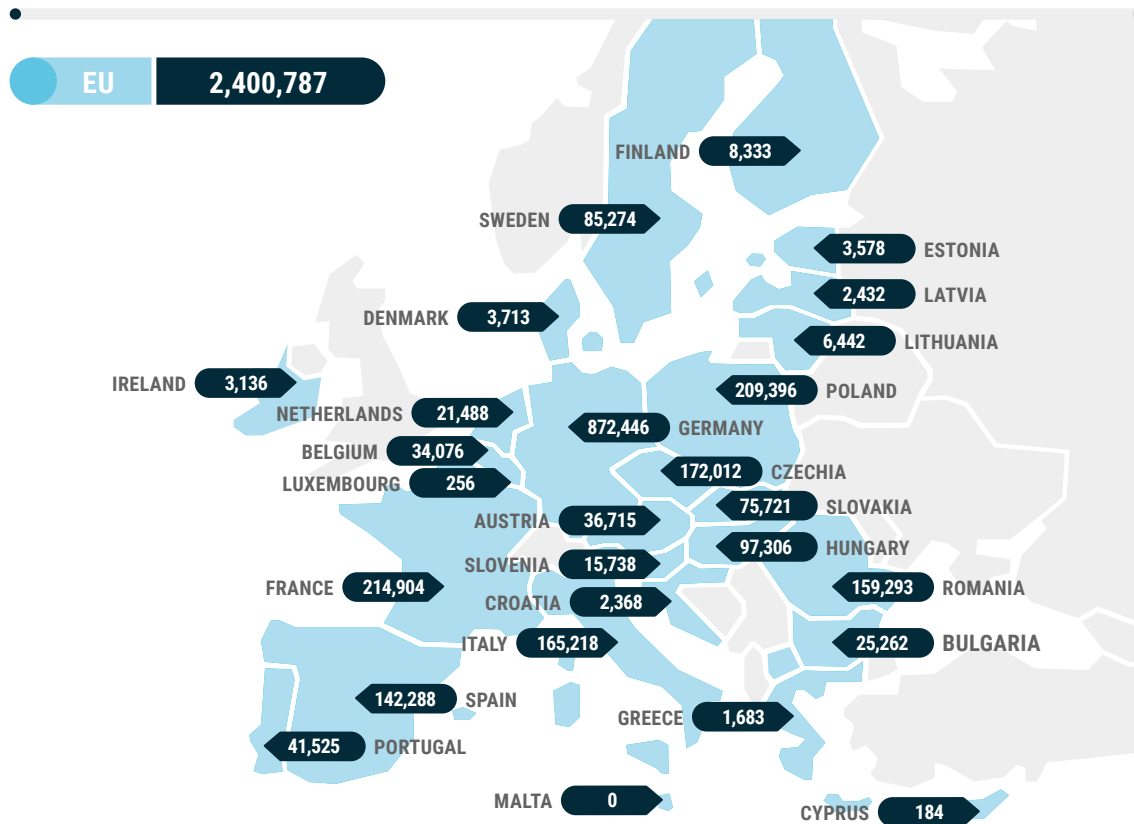


EU auto makers
directly employ
around 2.4 million
Europeans in
automotive
manufacturing

1. Provisional

DIRECT EU AUTOMOTIVE MANUFACTURING EMPLOYMENT

2022¹

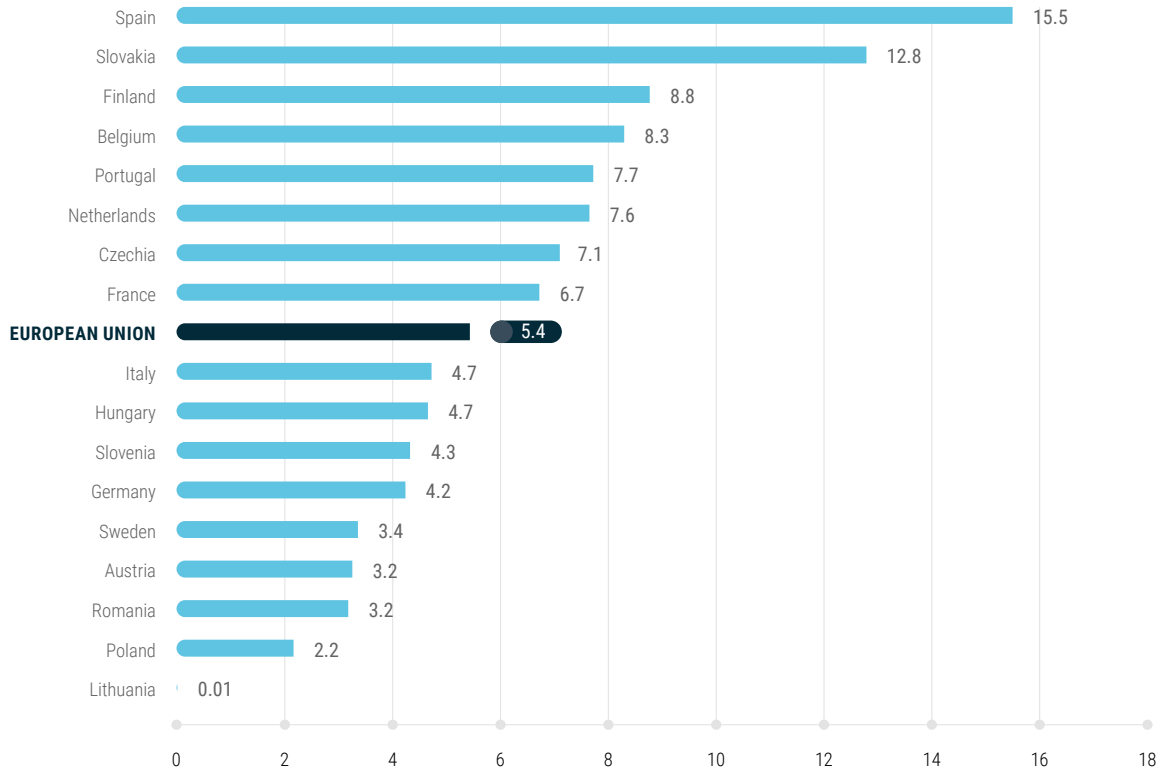


SOURCE: EUROSTAT



VEHICLE PRODUCTION PER DIRECT AUTOMOTIVE MANUFACTURING EMPLOYEE

By country, 2022¹



SOURCE: EUROSTAT, S&P GLOBAL MOBILITY

**Each EU
automotive
manufacturing
worker produces
an average of five
vehicles annually**

¹. Based on employment most recent data available



PRODUCTION

THE AUTOMOBILE INDUSTRY
POCKET GUIDE 2024/2025

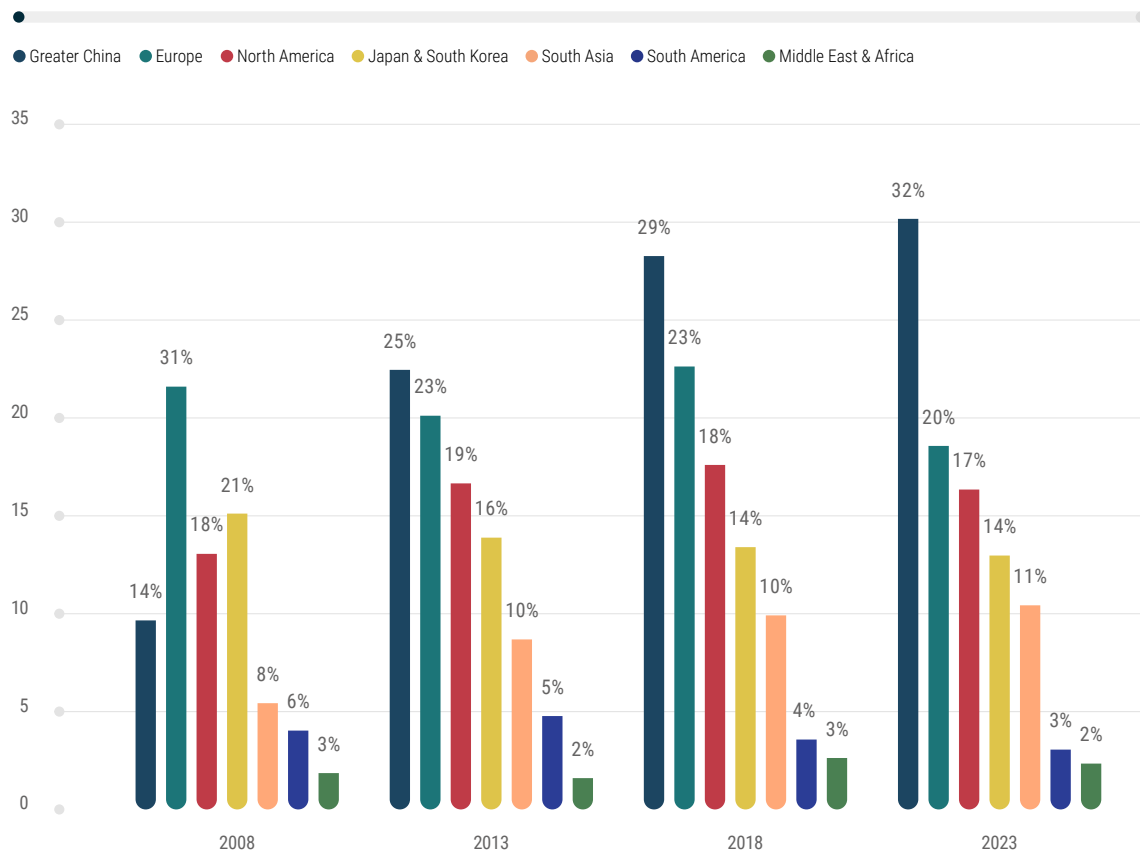




China is the
world's top
vehicle producer,
manufacturing
nearly one-third of
vehicles globally

GLOBAL VEHICLE PRODUCTION

In million units, % share, 2008 – 2023

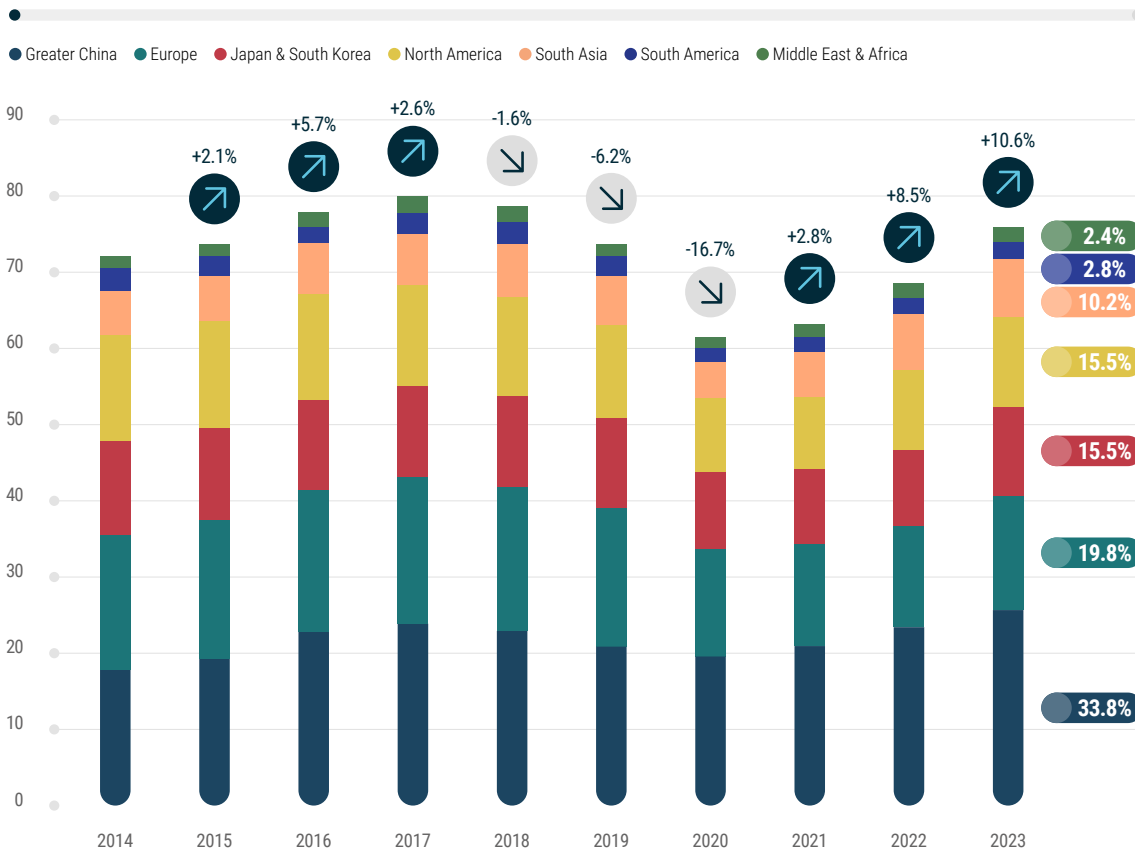


SOURCE: S&P GLOBAL MOBILITY



GLOBAL CAR PRODUCTION

In million units, % change, % share, 2014 – 2023



SOURCE: S&P GLOBAL MOBILITY

Global car production surged by around 11% in 2023, the highest year-on-year percentage increase since 2015



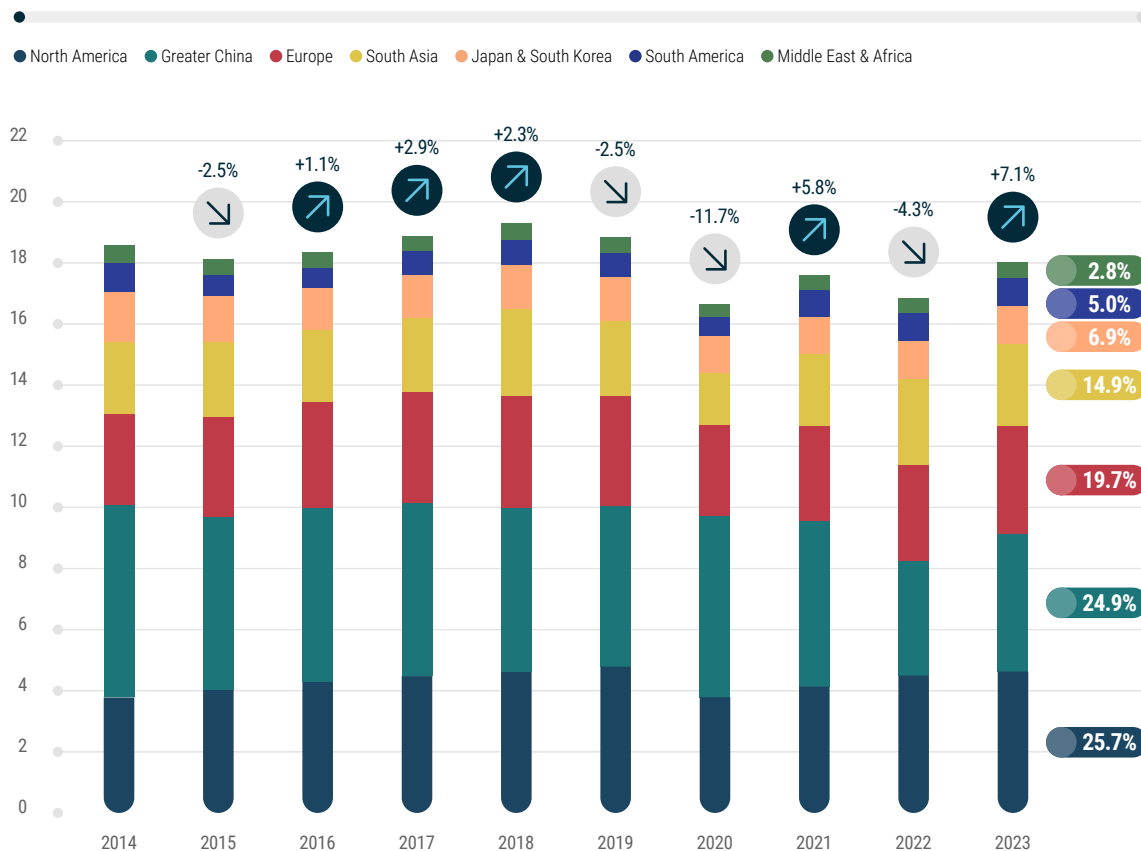
PRODUCTION

Global
commercial
vehicle
production
increased by
over 7% in 2023

1. Includes buses

GLOBAL COMMERCIAL VEHICLE PRODUCTION¹

In million units, % change, % share, 2014 – 2023

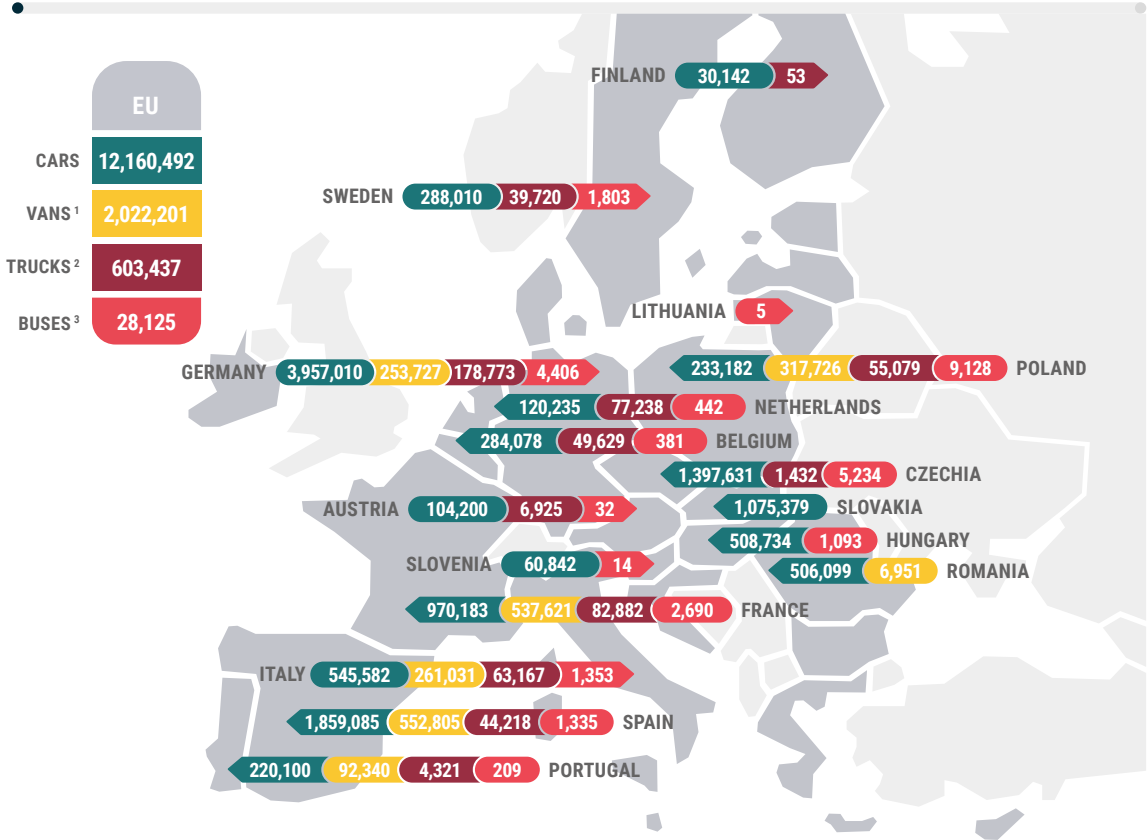


SOURCE: S&P GLOBAL MOBILITY



EU VEHICLE PRODUCTION

By country, 2023



SOURCE: S&P GLOBAL MOBILITY

About 15 million vehicles were made in the EU in 2023, nearly 2 million more compared to 2022

1. Light commercial vehicles up to 3.5 tonnes
2. Medium and heavy commercial vehicles over 3.5 tonnes
3. Includes finalised buses and chassis

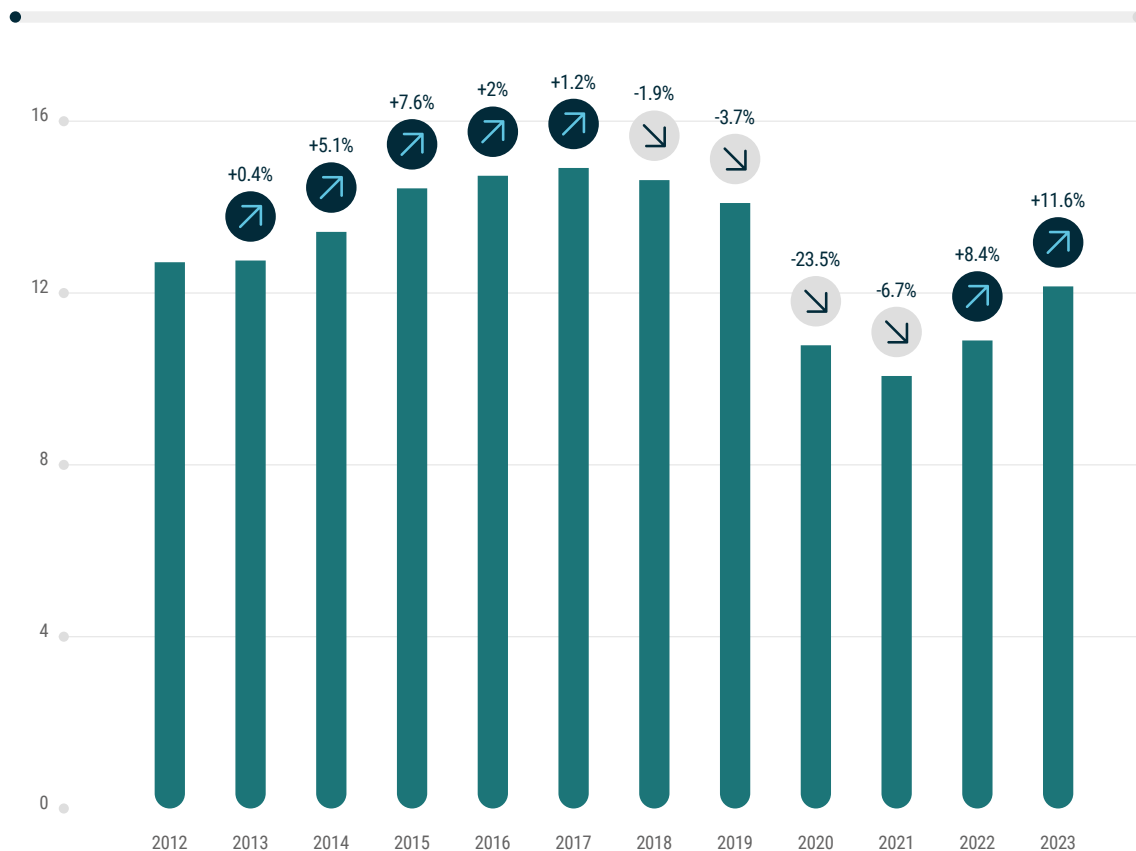


PRODUCTION

EU car production
grew at its
fastest rate in
the last decade

EU CAR PRODUCTION

In million units, % change, 2012 – 2023



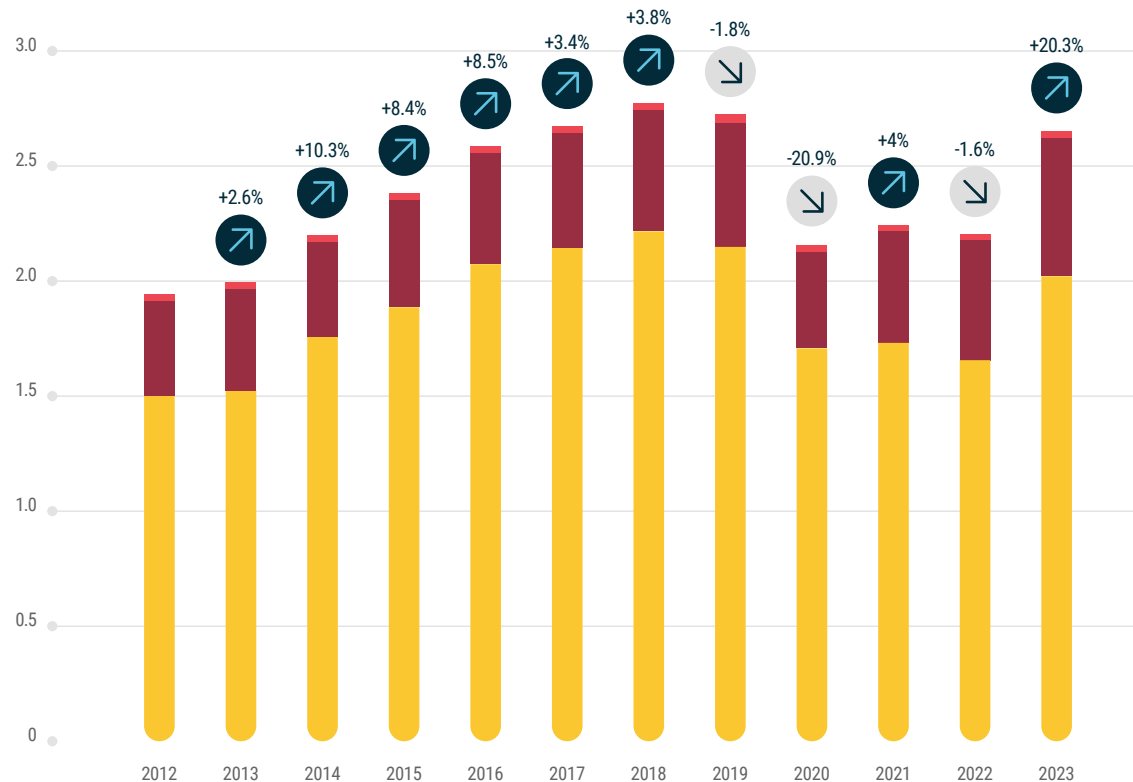
SOURCE: S&P GLOBAL MOBILITY



EU COMMERCIAL VEHICLE PRODUCTION

In million units, % change, 2012 – 2023

Vans¹ Trucks² Buses



SOURCE: S&P GLOBAL MOBILITY

EU commercial vehicle production surged by 20% in 2023

1. Light commercial vehicles up to 3.5t
2. Medium and heavy commercial vehicles over 3.5t



PRODUCTION

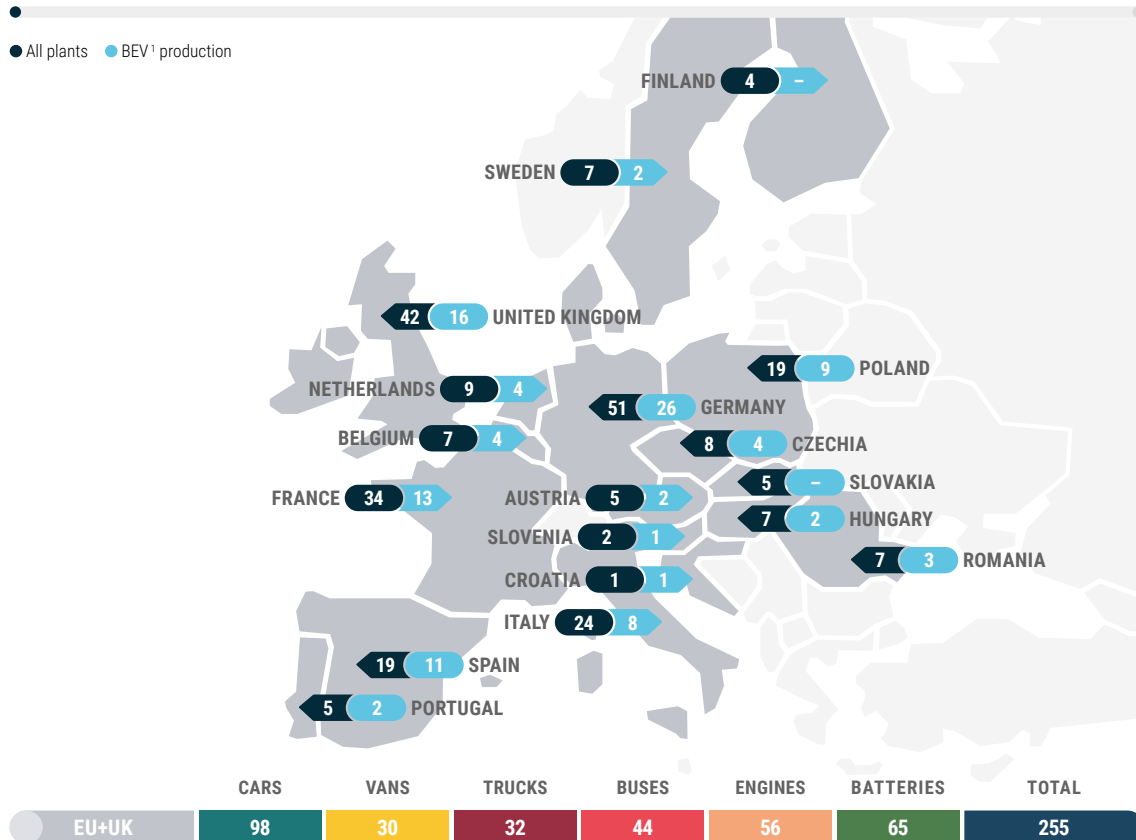
255 automotive
plants operate
in the EU

1. Battery-electric vehicle

AUTOMOBILE ASSEMBLY, BATTERY, AND ENGINE PLANTS

2024

● All plants ● BEV¹ production



SOURCE: S&P GLOBAL MOBILITY



REGISTRATIONS

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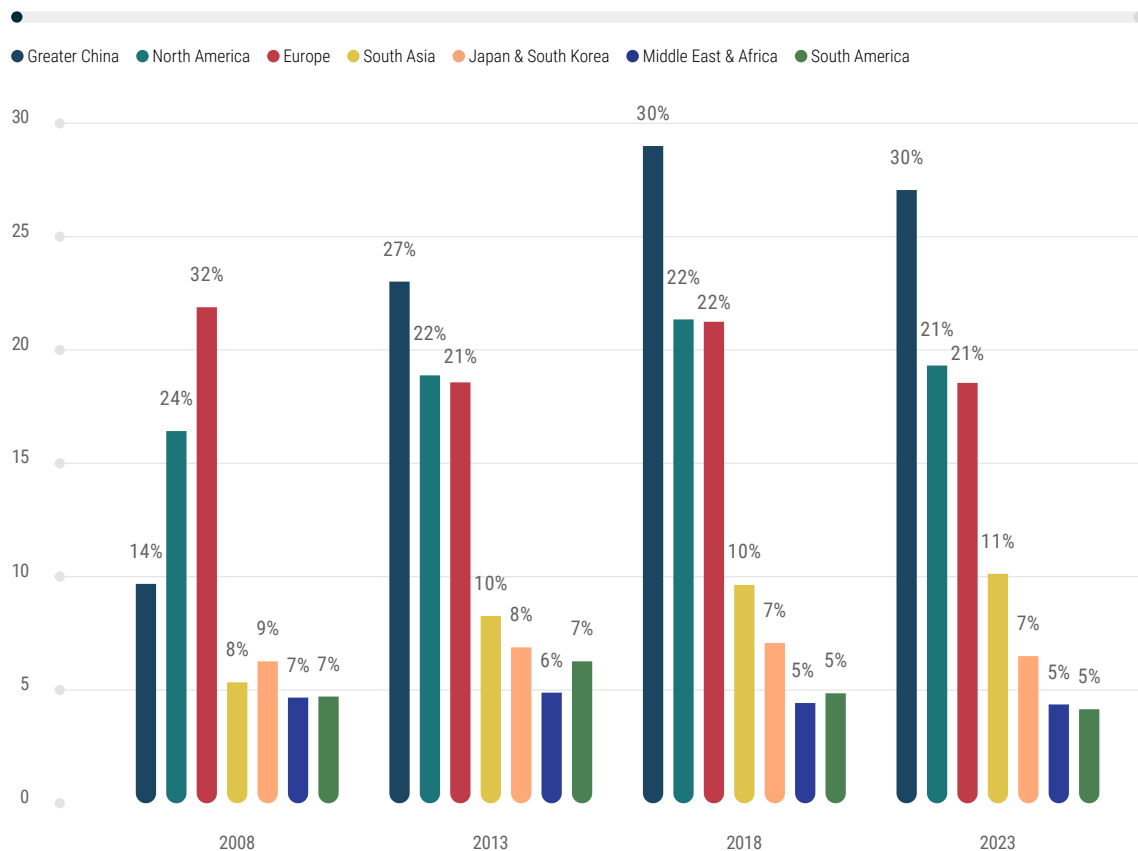
DRIVING MOBILITY FOR EUROPE



Europe accounts
for a fifth of
global vehicle
sales, down from
a third in 2008

GLOBAL NEW VEHICLE REGISTRATIONS

In million units, % share, 2008 – 2023

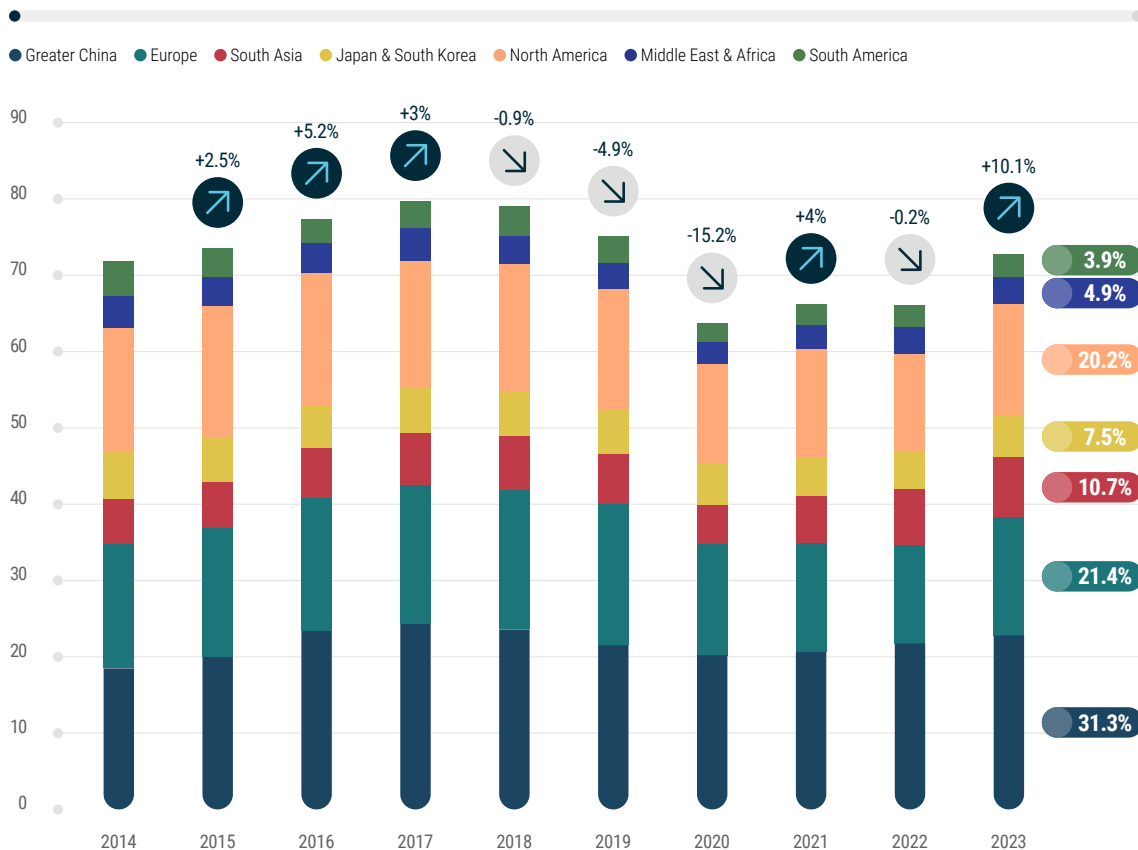


SOURCE: S&P GLOBAL MOBILITY



GLOBAL NEW CAR REGISTRATIONS

In million units, % change, % share, 2014 – 2023



SOURCE: S&P GLOBAL MOBILITY

Europe accounts for more than 21% of global car sales, up from 20% in 2022



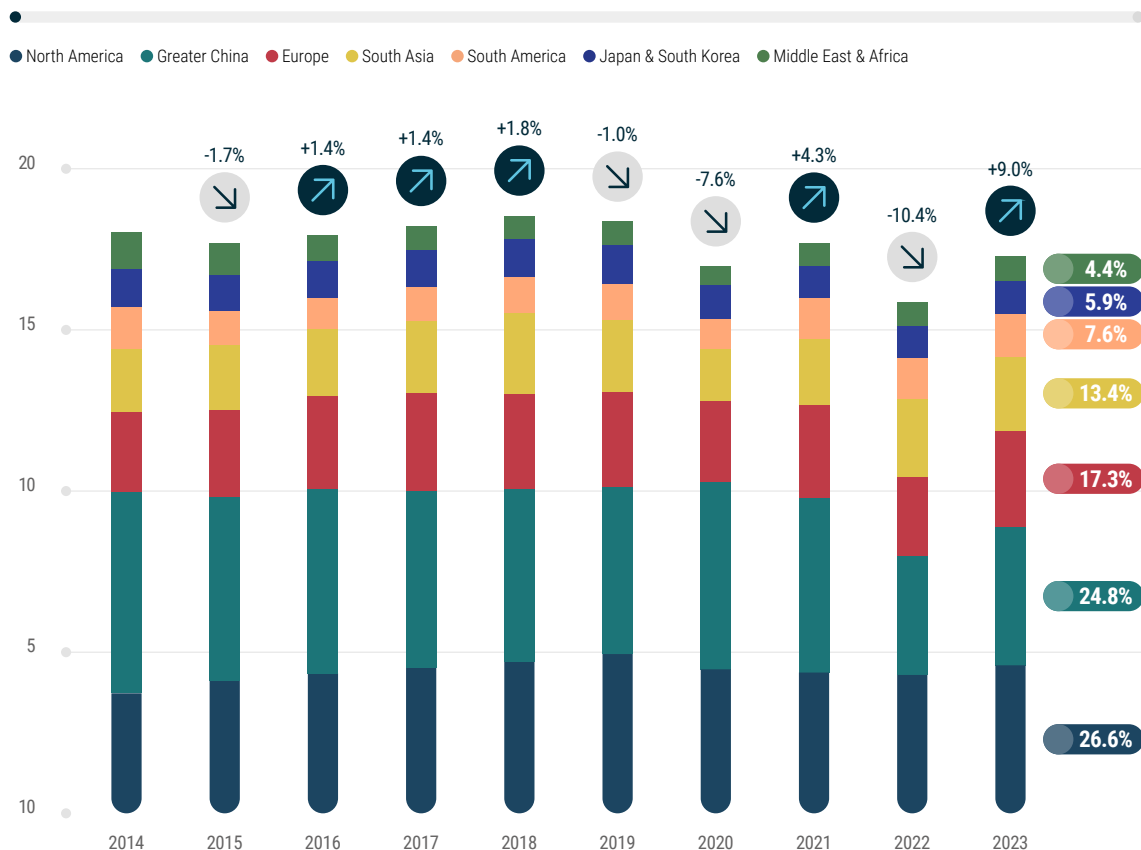
REGISTRATIONS

Europe accounts for more than 17% of global commercial vehicles sales

1. Includes buses

GLOBAL NEW COMMERCIAL VEHICLE¹ REGISTRATIONS

In million units, % change, % share, 2014 – 2023

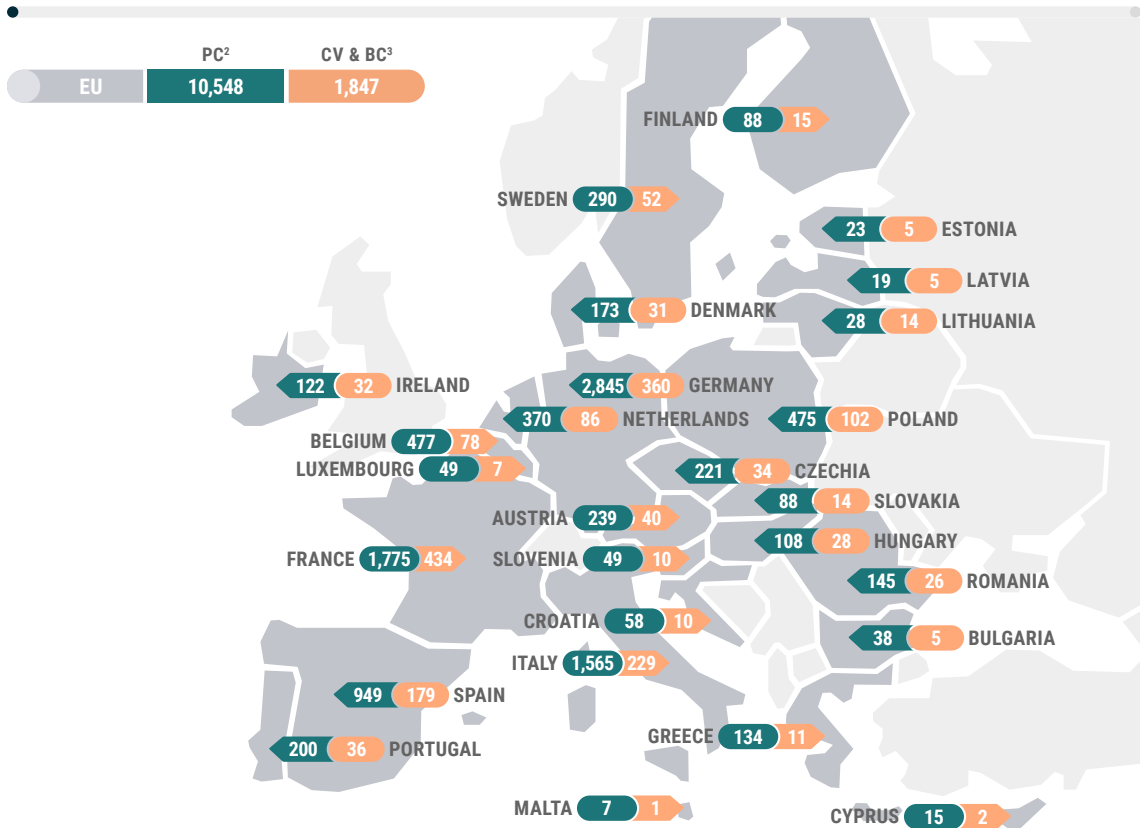


SOURCE: S&P GLOBAL MOBILITY



NEW EU VEHICLE REGISTRATIONS¹

By country, in thousand units, 2023



Auto makers sold over 12 million new vehicles in the EU in 2023, 1.5 million more than in 2022

1. Data for Malta not available

2. Passenger cars

3. Commercial vehicles, and buses and coaches



Vehicle sales largely mirror economic trends

NEW VEHICLE REGISTRATIONS AND GDP IN THE EU

2016 – 2025

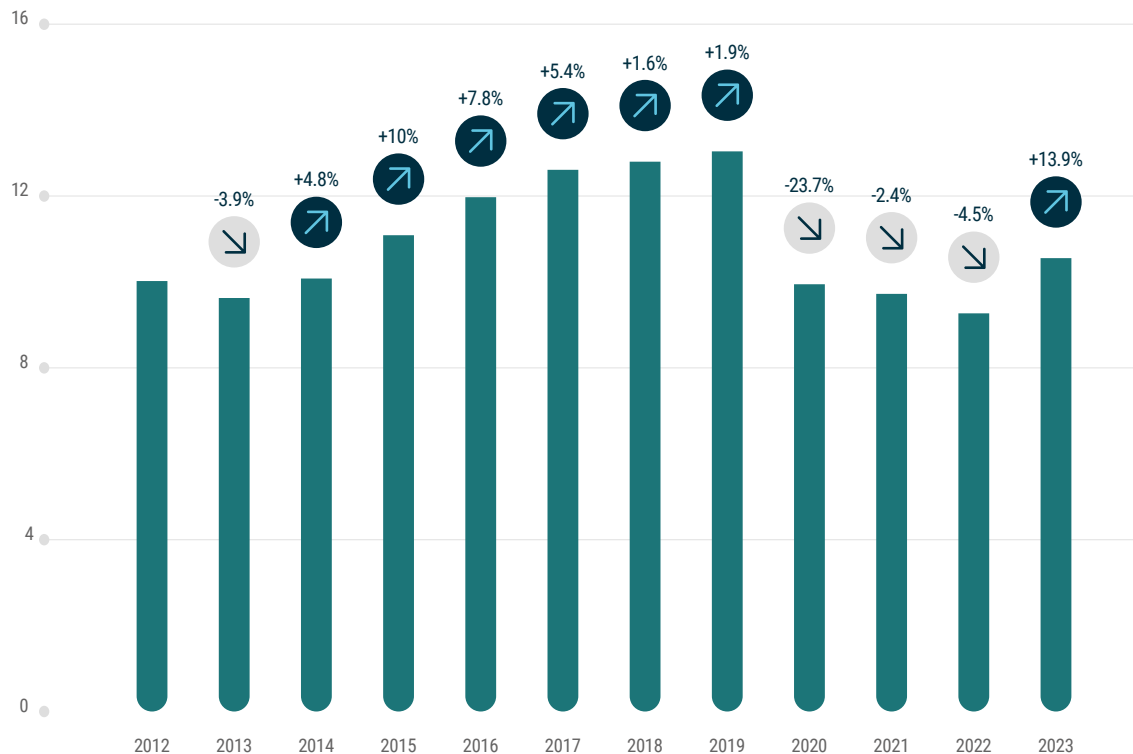


SOURCE: ACEA, DG ECFIN, S&P GLOBAL MOBILITY



NEW EU CAR REGISTRATIONS

In million units, % change, 2012 – 2023



SOURCE: ACEA

**EU car sales
climbed for the
first time since
2019**

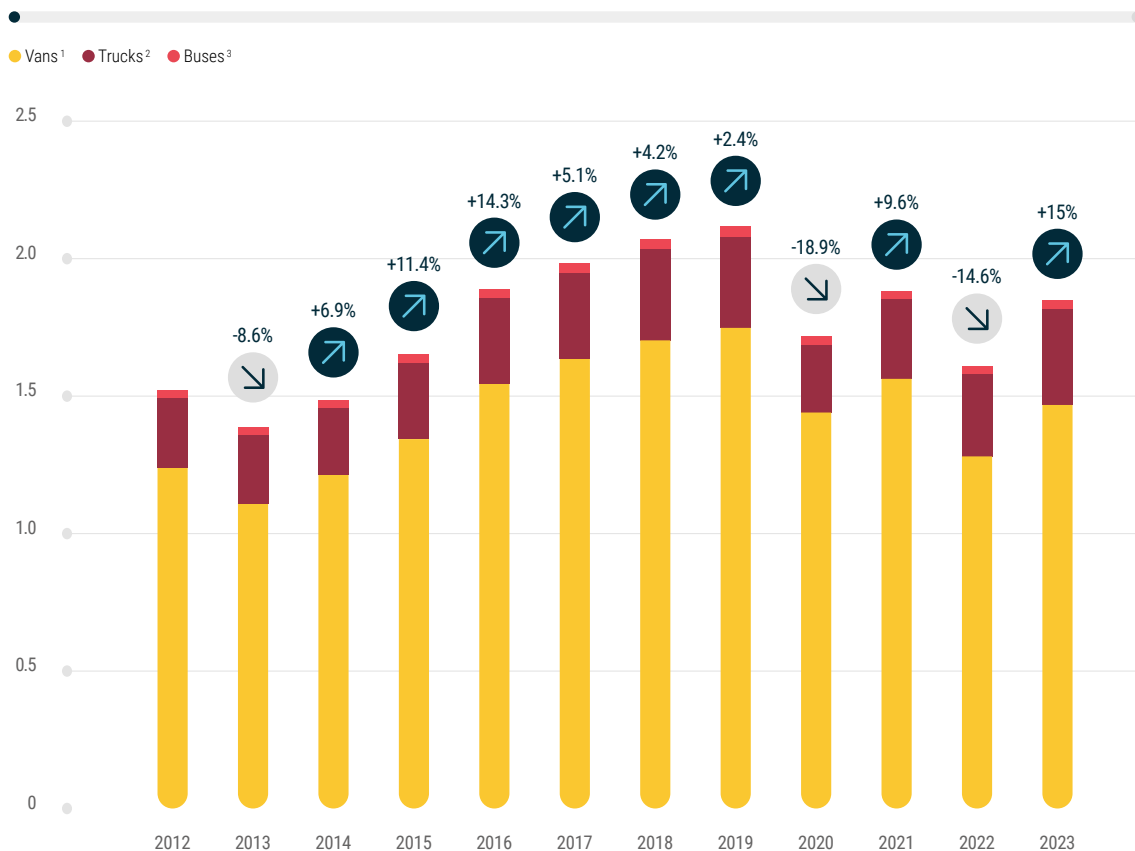


EU commercial vehicle sales rose by 15% in 2023

- 1. Light commercial vehicles up to 3.5 tonnes
- 2. Commercial vehicles over 3.5 tonnes
- 3. Buses and coaches over 3.5 tonnes

NEW EU COMMERCIAL VEHICLE REGISTRATIONS

In million units, % change, 2012 – 2023

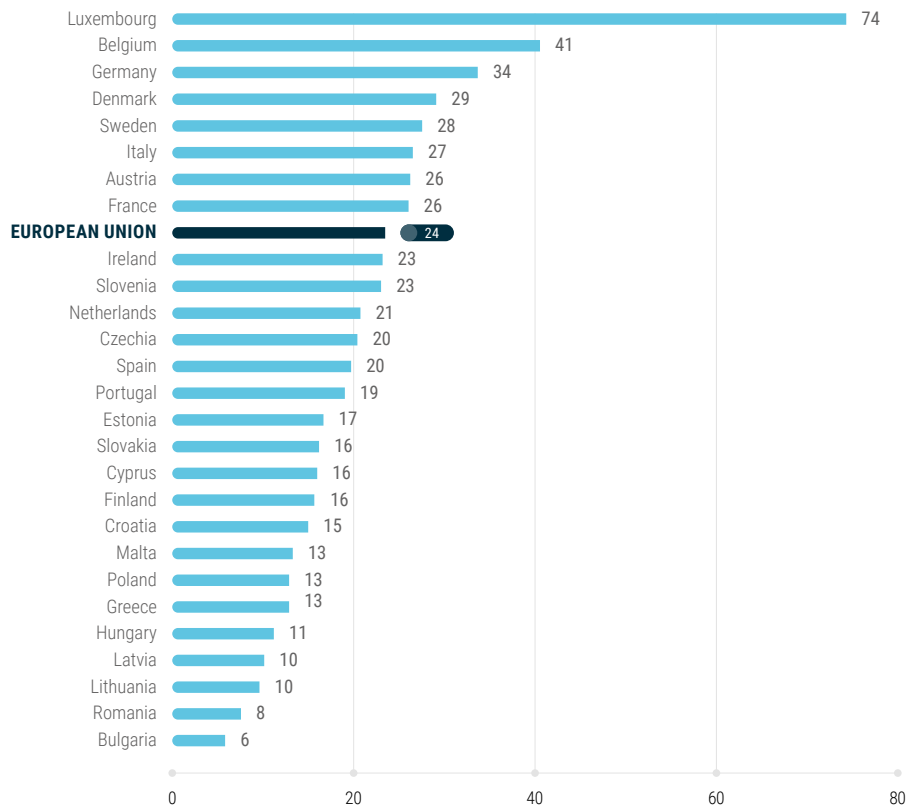


SOURCE: ACEA



NEW CARS PER 1,000 INHABITANTS

By country, in units, 2023



SOURCE: ACEA, EUROSTAT

One car is sold for every 50 persons in the EU annually

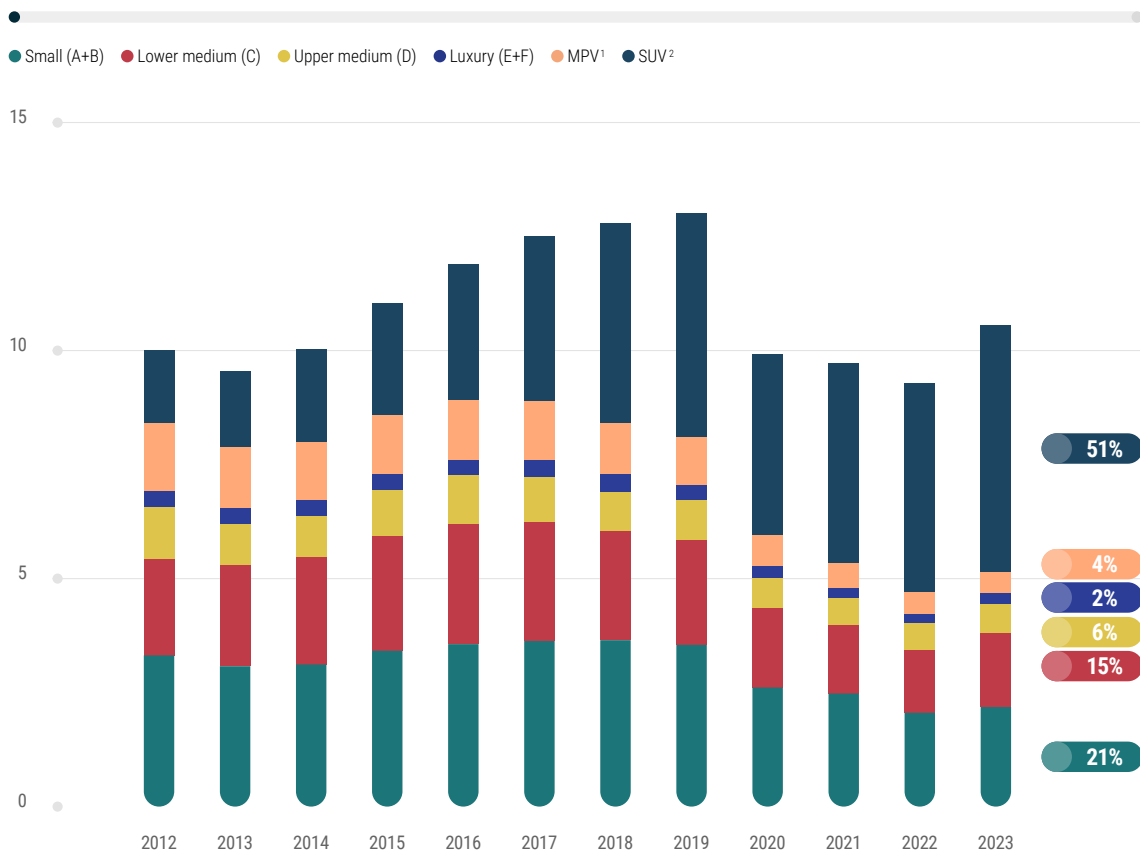


Small and medium cars make up around 42% of EU sales

1. Multi-purpose vehicles
2. Sport utility vehicles

NEW CARS IN THE EU BY SEGMENT

In million units, % share, 2012 – 2023



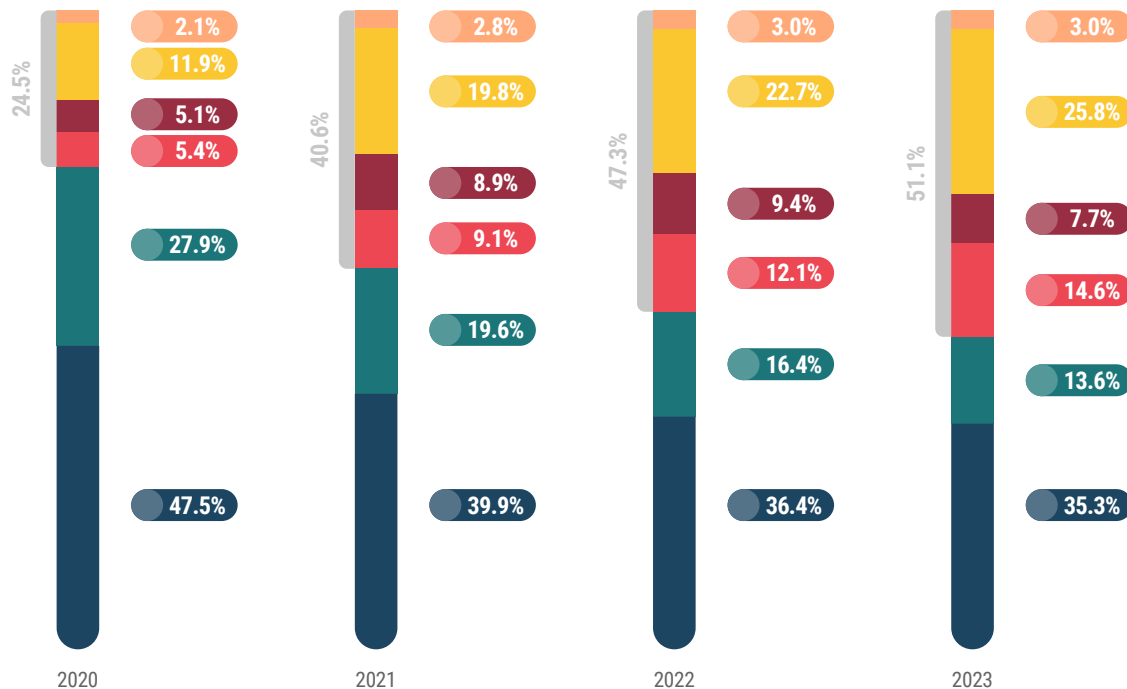
SOURCE: S&P GLOBAL MOBILITY



NEW EU CAR SALES BY POWER SOURCE

Market share, 2020 – 2023

● Petrol ● Diesel ● Battery electric ● Plug-in hybrid¹ ● Hybrid electric² ● Alternative fuels³ ● Total alternatively powered vehicles



SOURCE: ACEA

The EU market share of battery-electric cars has surged around three-fold in four years

1. Includes extended-range electric vehicle

2. Includes full and mild hybrids

3. Includes natural gas, LPG, ethanol and fuel cell electric vehicles



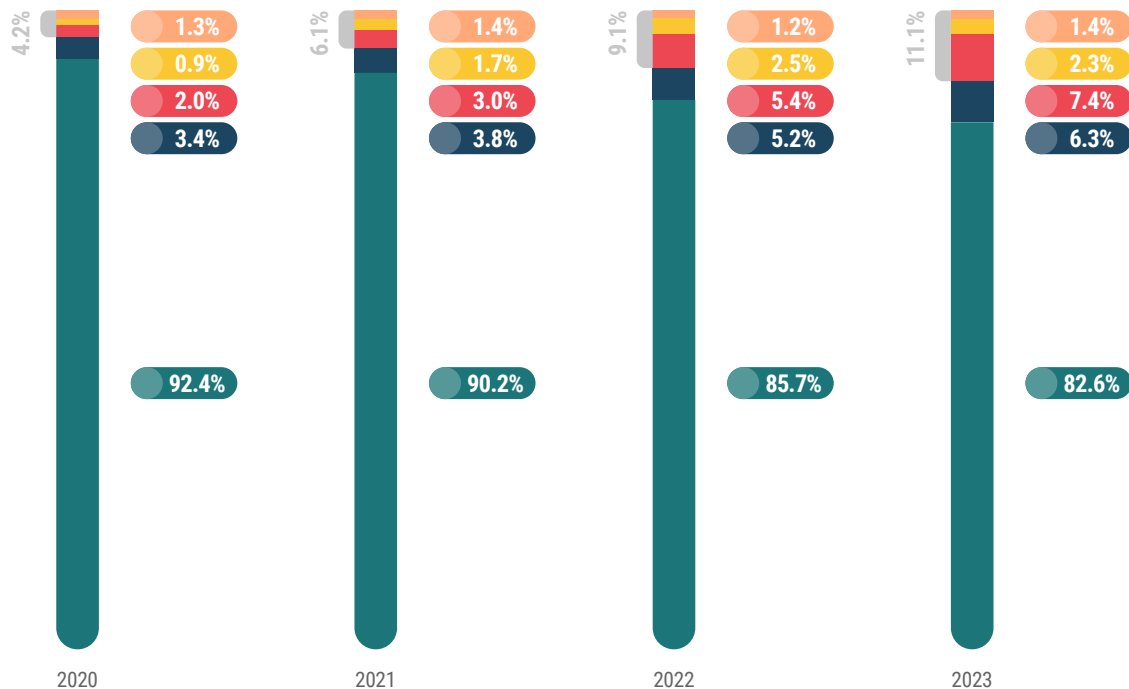
The EU market share of electrically chargeable vans has almost quadrupled in four years

1. Light commercial vehicles up to 3.5 tonnes
2. Includes battery and plug-in hybrid vehicles
3. Includes full and mild hybrids
4. Includes natural gas, LPG, ethanol and fuel cell electric vehicles

NEW EU VAN¹ SALES BY POWER SOURCE

Market share, 2020 – 2023

● Diesel ● Petrol ● Electrically chargeable² ● Hybrid electric³ ● Alternative fuels⁴ ● Total alternatively powered vehicles



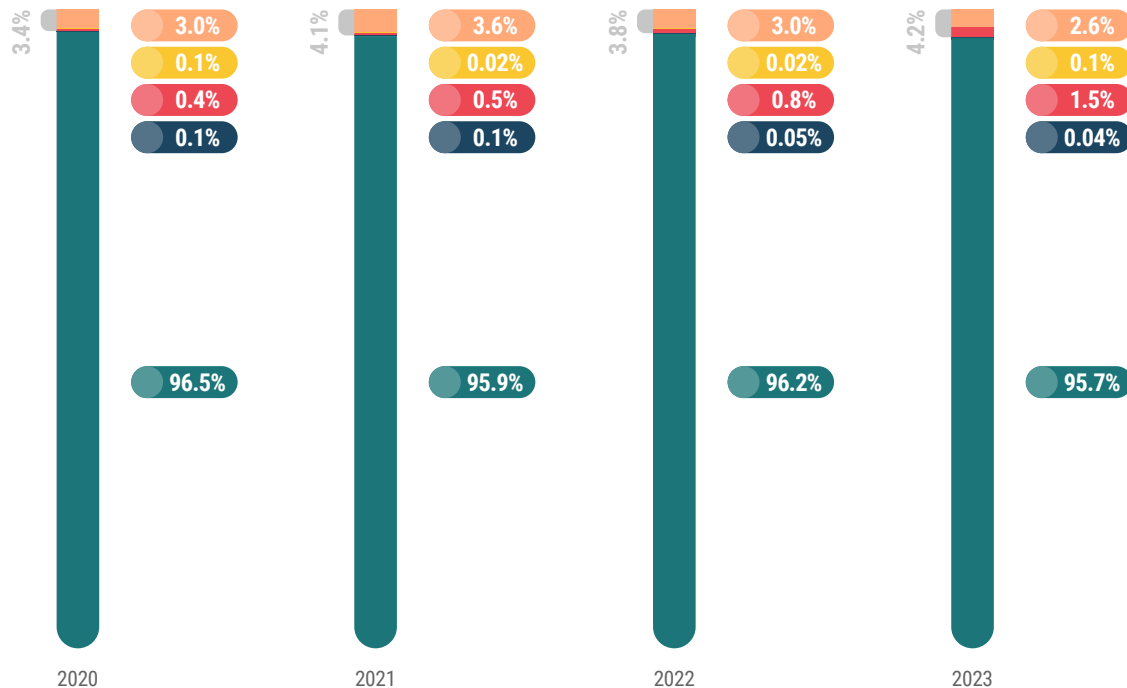
SOURCE: ACEA



NEW EU¹ TRUCK² SALES BY POWER SOURCE

Market share, 2020 – 2023

● Diesel ● Petrol ● Electrically chargeable³ ● Hybrid electric⁴ ● Alternative fuels⁵ ● Total alternatively powered vehicles



SOURCE: ACEA

The market share of alternatively powered trucks was relatively stable at around 4%

1. Data for Bulgaria and Malta not available
2. Commercial vehicles over 3.5 tonnes
3. Includes battery and plug-in hybrid vehicles
4. Includes full and mild hybrids
5. Includes natural gas, LPG, ethanol and fuel cell electric vehicles



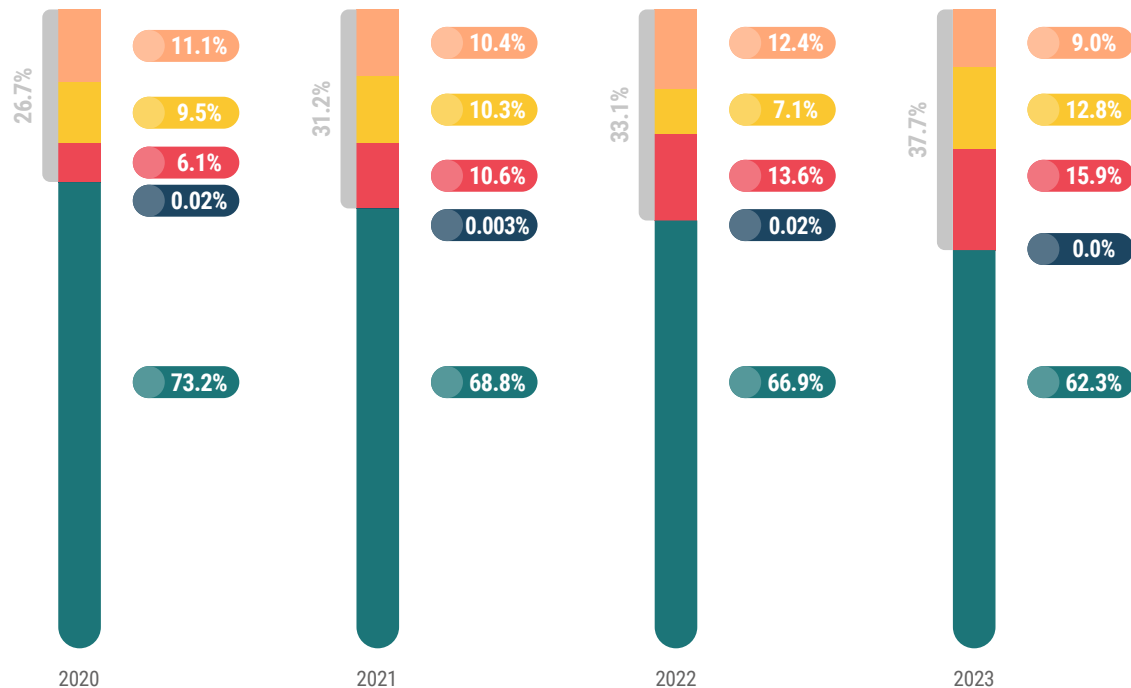
The market share
of electrically
chargeable
buses has
nearly trebled
in four years

1. Data for Bulgaria and Malta not available
2. Buses and coaches over 3.5 tonnes
3. Includes battery and plug-in hybrid vehicles
4. Includes full and mild hybrids
5. Includes natural gas, LPG, ethanol and fuel cell electric vehicles

NEW EU¹ BUS² SALES BY POWER SOURCE

Market share, 2020 – 2023

● Diesel ● Petrol ● Electrically chargeable³ ● Hybrid electric⁴ ● Alternative fuels⁵ ● Total alternatively powered vehicles



SOURCE: ACEA



TRADE



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POCKET GUIDE 2024/2025





The trade surplus
generated by the
EU auto industry
rose by 5% in 2023

1. Commercial vehicles up to 5t
2. Commercial vehicles over 5t

EU VEHICLE TRADE

By type, in million €, 2023

Trade in value	Cars	Vans ¹	Trucks ²	Buses	TOTAL
2023					
Imports	78,415	6,661	781	2,544	88,401
Exports	176,639	9,757	7,652	1,086	195,134
Trade balance	98,224	3,096	6,871	-1,458	106,733
2022					
Imports	61,836	5,551	645	1,763	69,795
Exports	157,532	6,936	6,199	796	171,464
Trade balance	95,697	1,385	5,554	-966	101,669
% change 23/22					
Imports	+26.8%	+20.0%	+21.0%	+44.3%	+26.7%
Exports	+12.1%	+40.7%	+23.4%	+36.4%	+13.8%
Trade balance	+2.6%	+123.6%	+23.7%	+50.9%	+5.0%



EU VEHICLE TRADE

By type, in units, 2023

Trade in volume	Cars	Vans ¹	Trucks ²	Buses	TOTAL
2023					
Imports	3,847,522	360,886	13,941	17,237	4,239,586
Exports	5,836,492	578,482	166,030	53,368	6,634,372
2022					
Imports	3,198,464	342,009	108,742	13,084	3,662,299
Exports	5,363,491	434,928	202,386	13,825	6,014,630
% change 23/22					
Imports	+20.3%	+5.5%	-87.2%	+31.7%	+15.8%
Exports	+8.8%	+33.0%	-18.0%	+286.0%	+10.3%

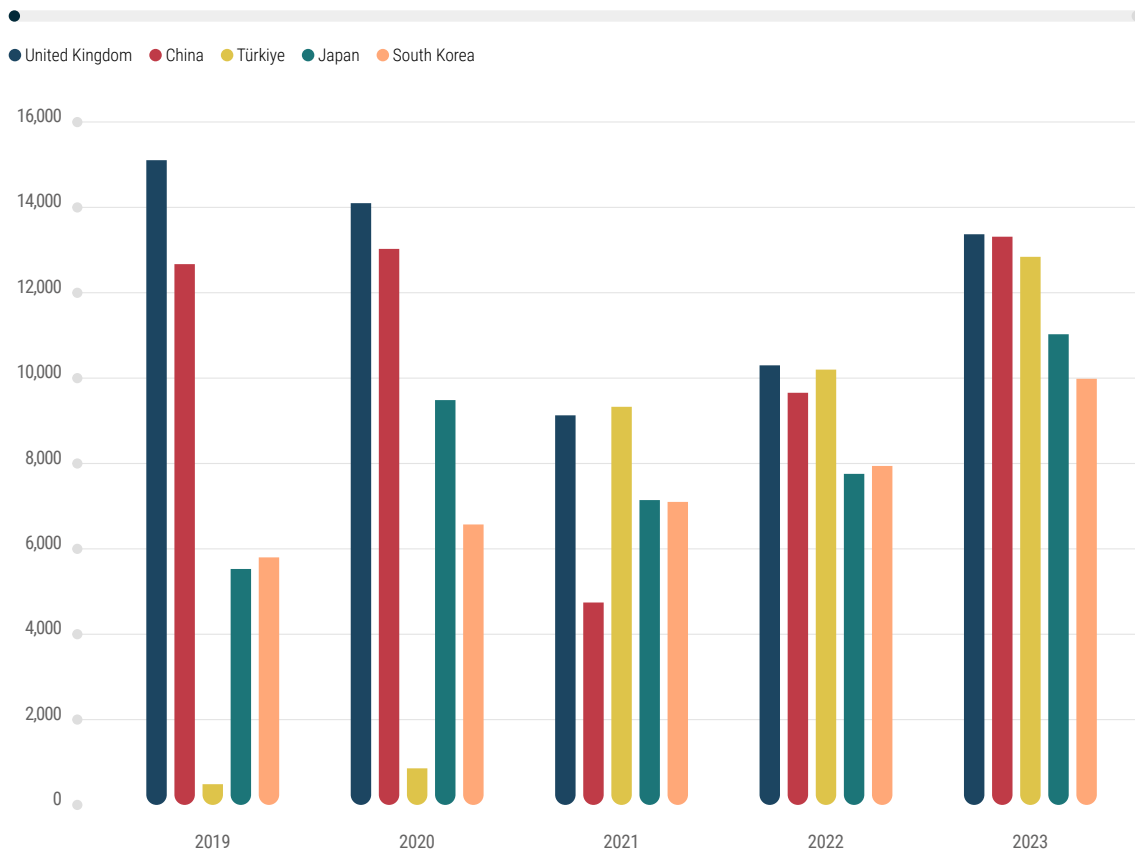
EU vehicle imports and exports grew by 16% and 10% respectively



The value of EU vehicle imports has increased from all top five countries of origin compared to 2022

MAIN COUNTRIES OF ORIGIN OF EU VEHICLE IMPORTS

In million €, 2019 – 2023

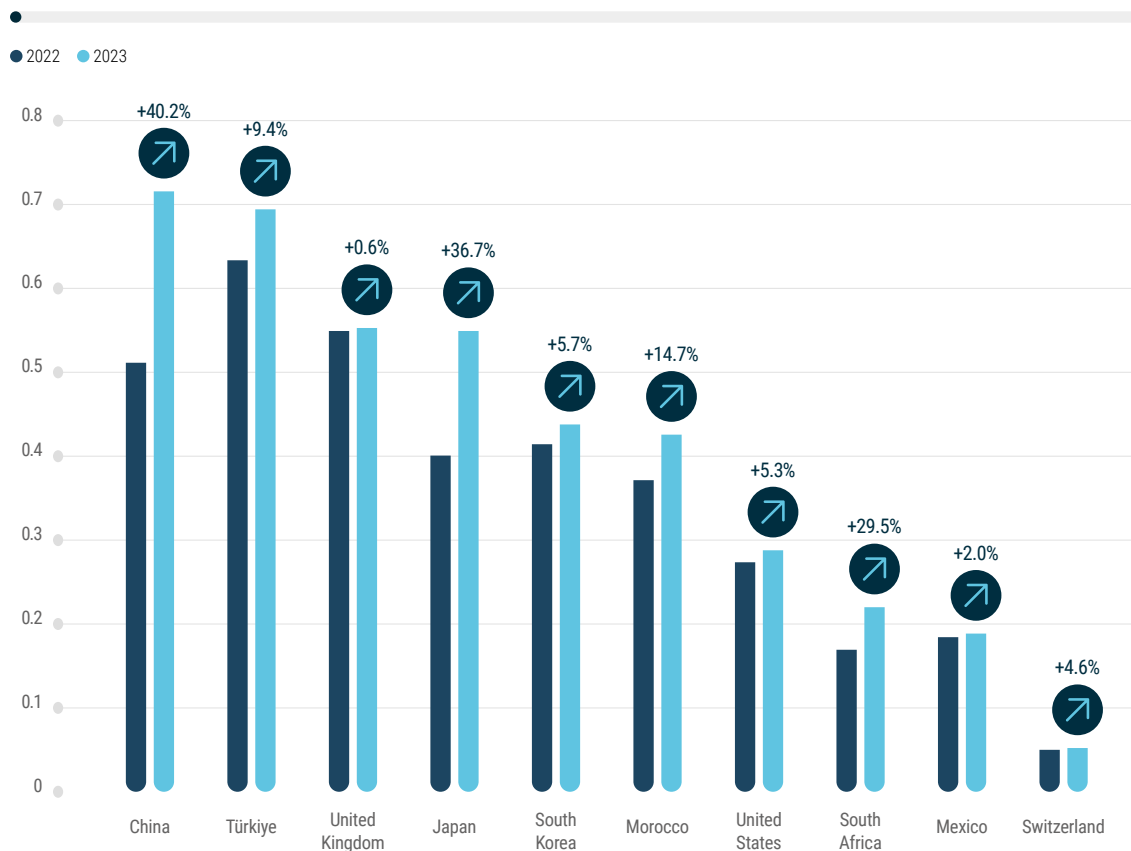


SOURCE: EUROSTAT



MAIN COUNTRIES OF ORIGIN OF EU VEHICLE IMPORTS

In million units, 2023



SOURCE: EUROSTAT

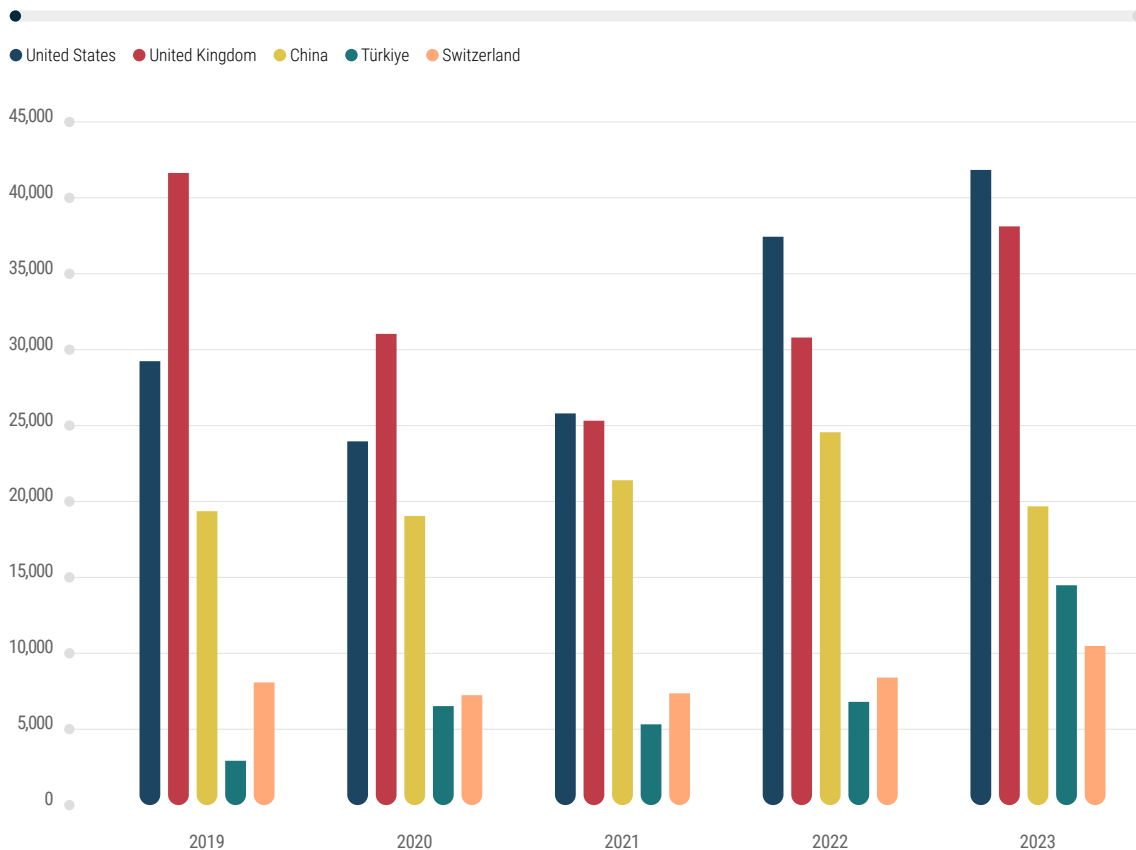
China, Türkiye, and the UK are the top three countries of origin for EU vehicle imports (in units)



The US and the UK are the two most valuable markets for EU vehicle exports

MAIN DESTINATIONS FOR EU VEHICLE EXPORTS

In million €, 2019 – 2023

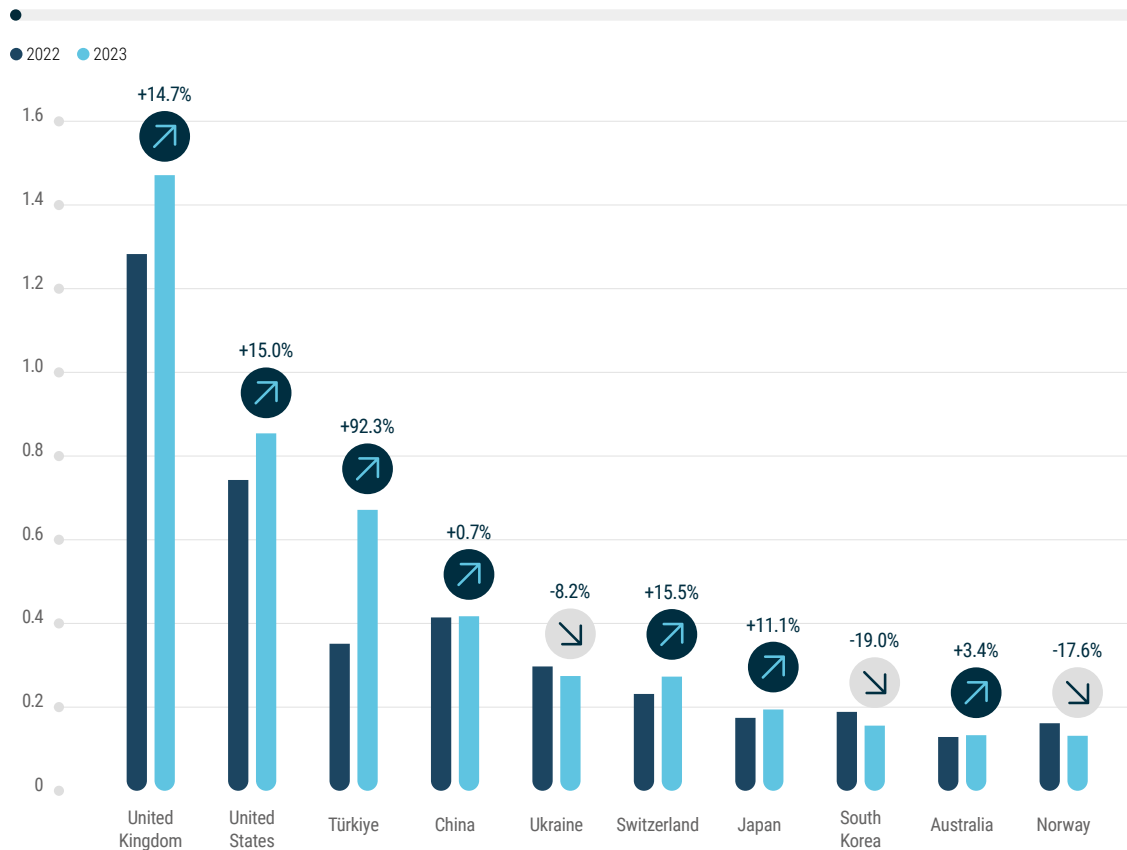


SOURCE: EUROSTAT



MAIN DESTINATIONS FOR EU VEHICLE EXPORTS

In million units, 2023



SOURCE: EUROSTAT

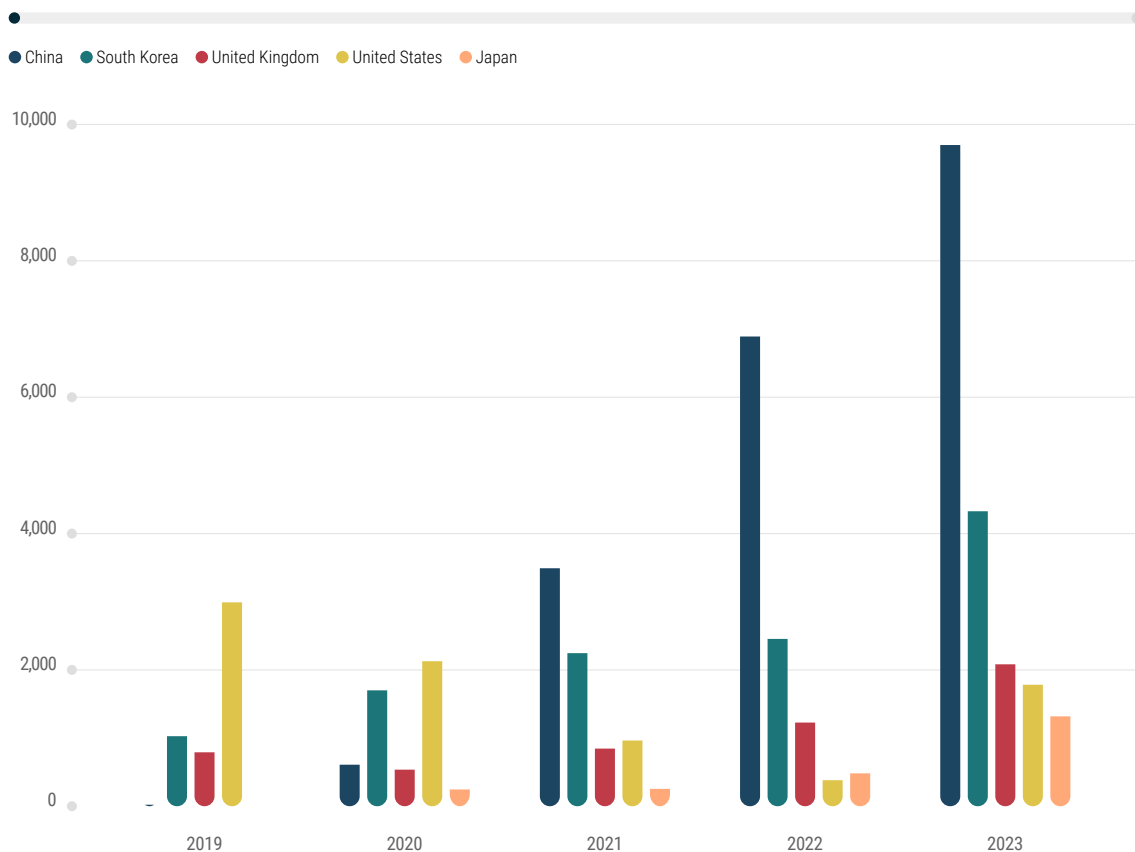
The UK, the US, and Türkiye are the top three destinations for EU vehicle exports (in units)



China is the top
country of origin
by value for EU
battery-electric
car imports

MAIN COUNTRIES OF ORIGIN OF EU BATTERY-ELECTRIC CAR IMPORTS

In million €, 2019 – 2023

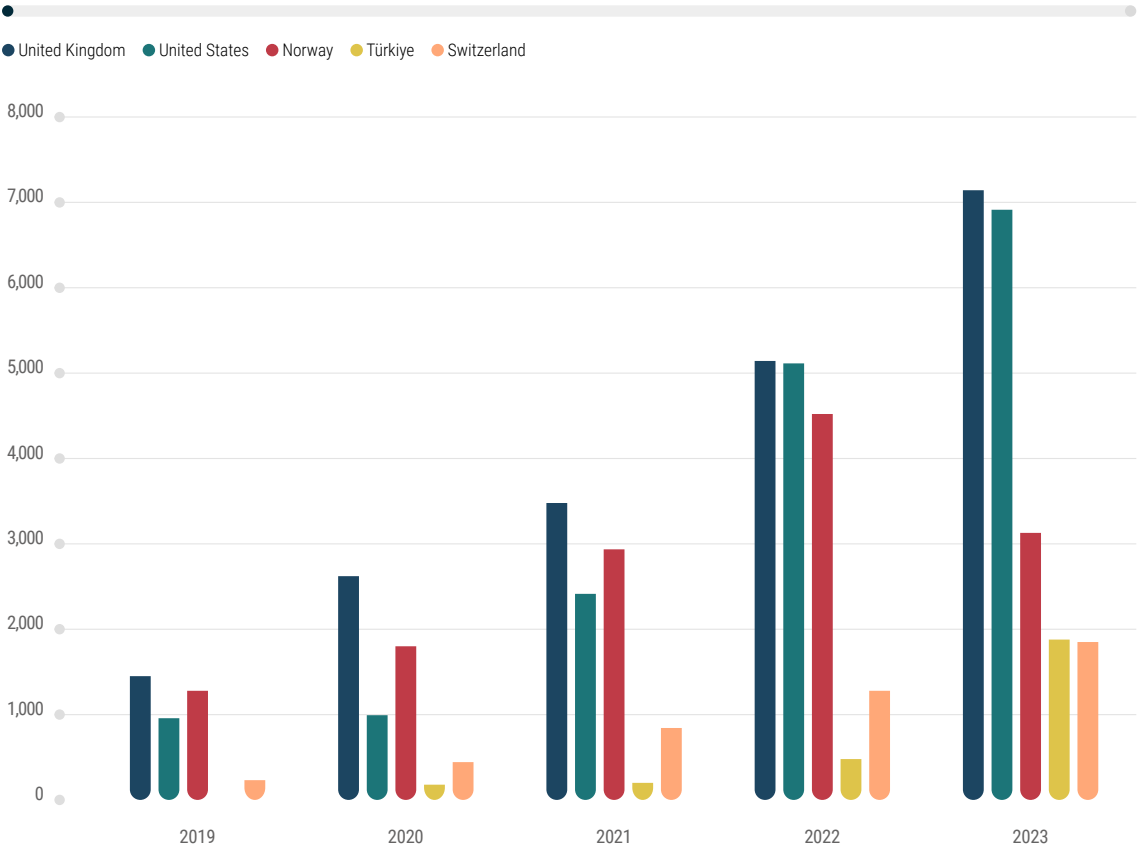


SOURCE: EUROSTAT



MAIN DESTINATIONS OF EU BATTERY-ELECTRIC CAR EXPORTS

In million €, 2019 – 2023



SOURCE: EUROSTAT

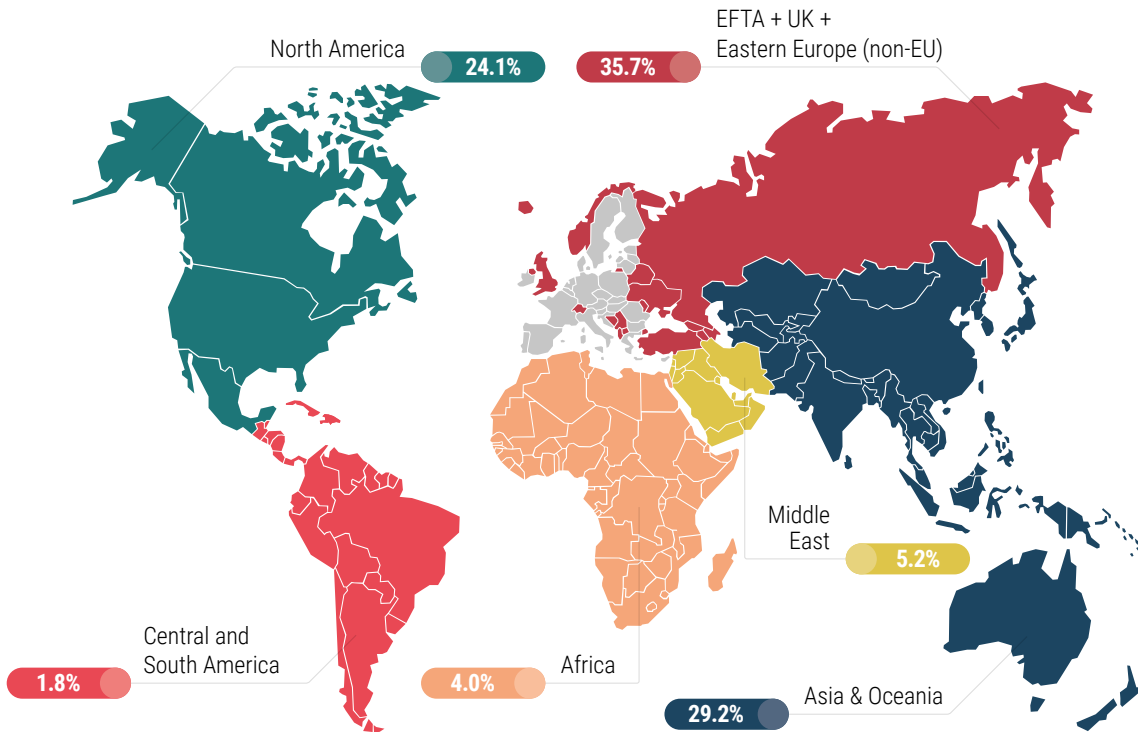
The UK and the US are the most valuable markets for EU battery-electric car exports



More than
one-third of EU
vehicle exports
go to other
European (non-EU)
countries

MAIN DESTINATIONS FOR EU VEHICLE EXPORTS

Value market share, 2023





VEHICLES ON ROADS

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POCKET GUIDE 2024/2025

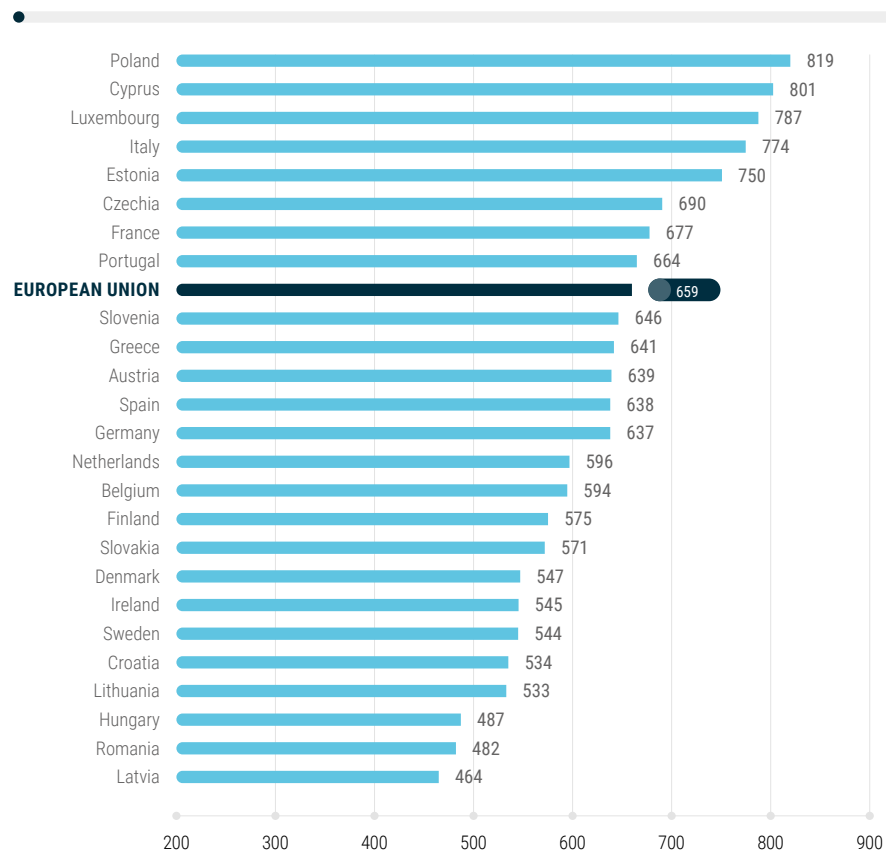


There are 659
vehicles per 1,000
inhabitants in the
EU

1. Data for Bulgaria and Malta not available

VEHICLES PER 1,000 EU INHABITANTS¹

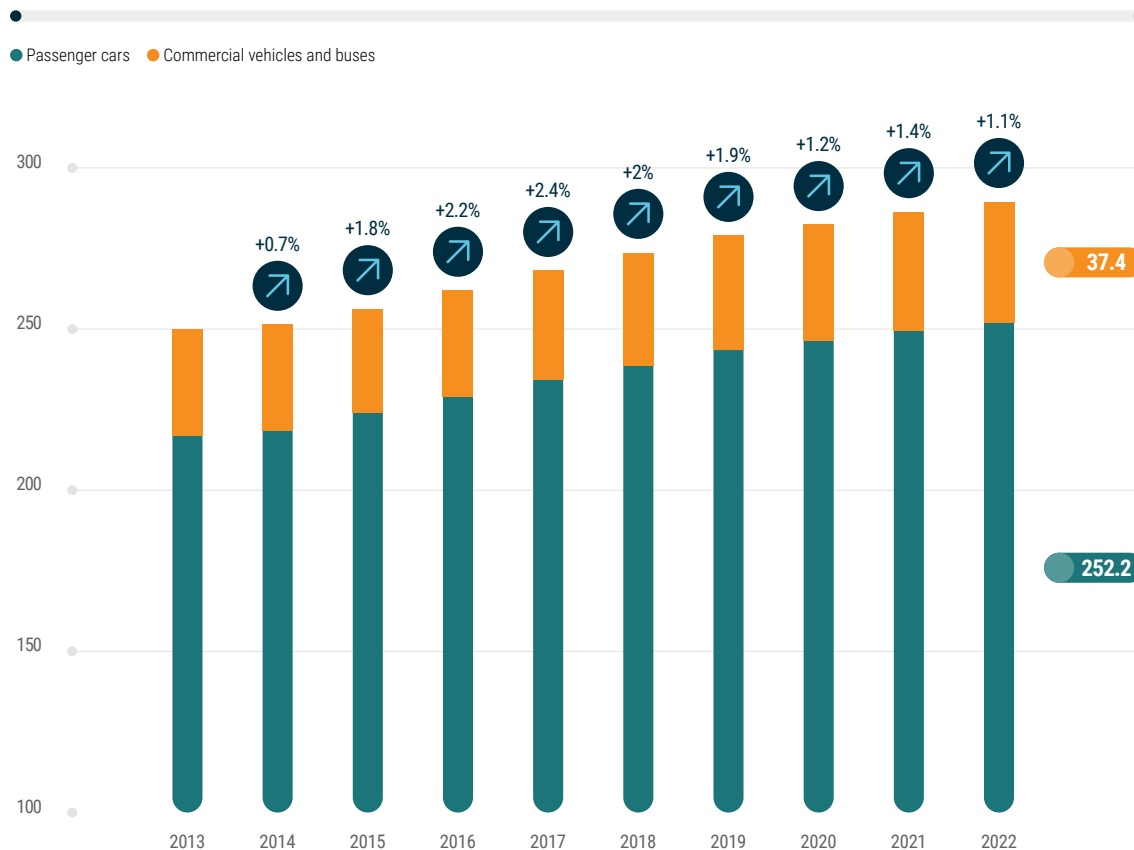
2022



SOURCE: ACEA

EU VEHICLE FLEET: SIZE AND SEGMENT DISTRIBUTION

In million units, 2013 – 2022



SOURCE: ACEA

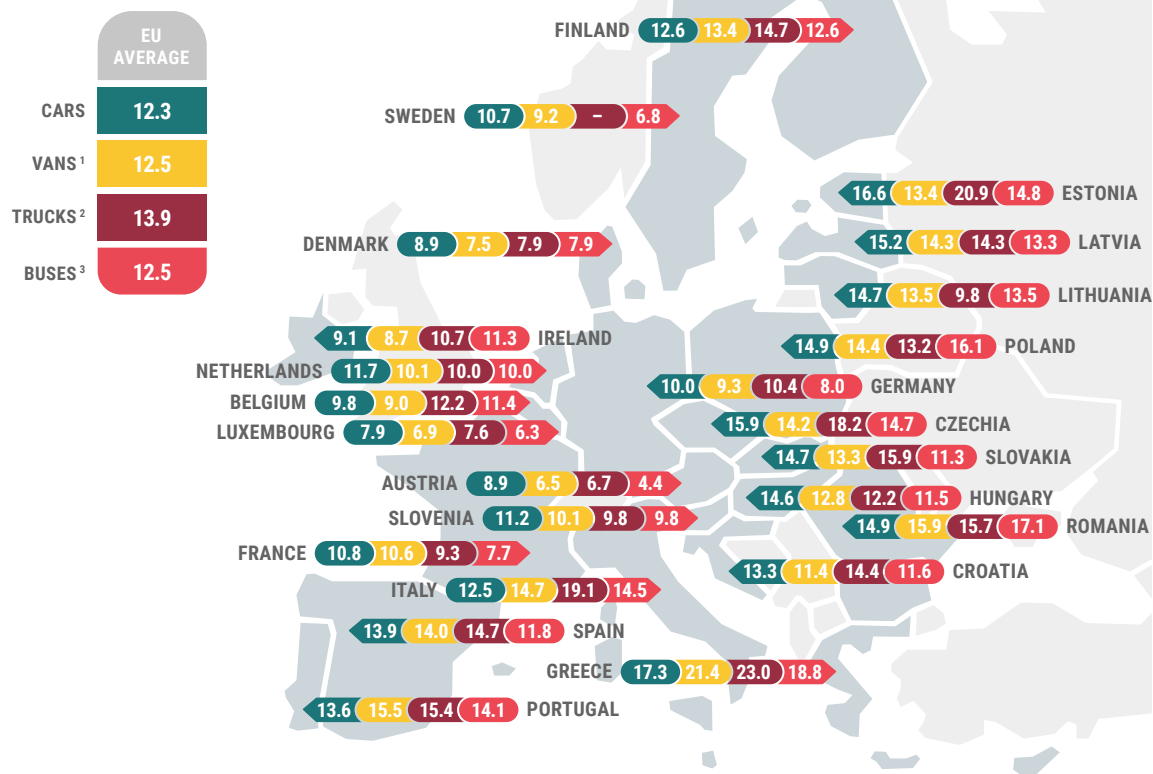
There are
almost 290
million vehicles
on EU roads

1. Includes light, medium, and heavy commercial vehicles, and buses and coaches

Trucks have the highest average age of all vehicle types

AVERAGE AGE OF EU VEHICLE FLEET

By country, in years, 2022



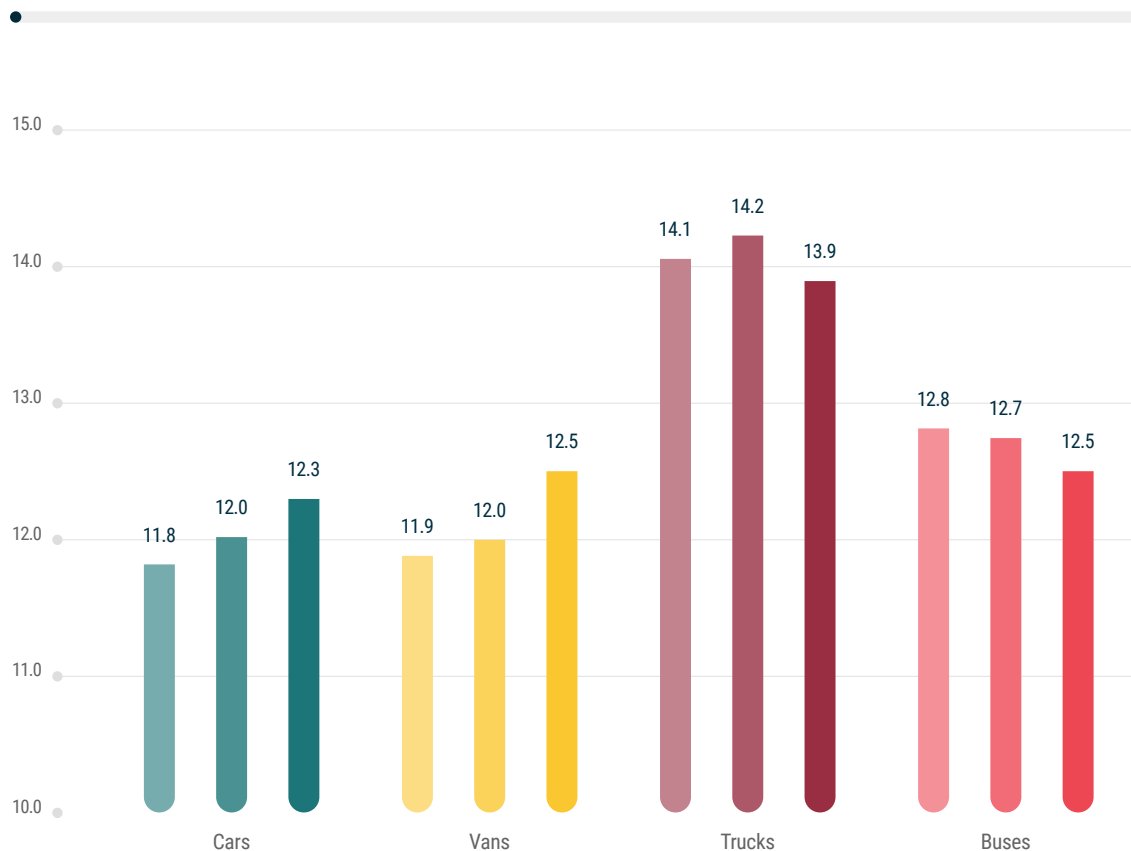
1. Light commercial vehicles up to 3.5t

2. Medium and heavy commercial vehicles over 3.5t

3. Buses and coaches over 3.5t

EVOLUTION OF AVERAGE AGE OF EU FLEET

By vehicle type, in years, 2020 – 2022



SOURCE: ACEA

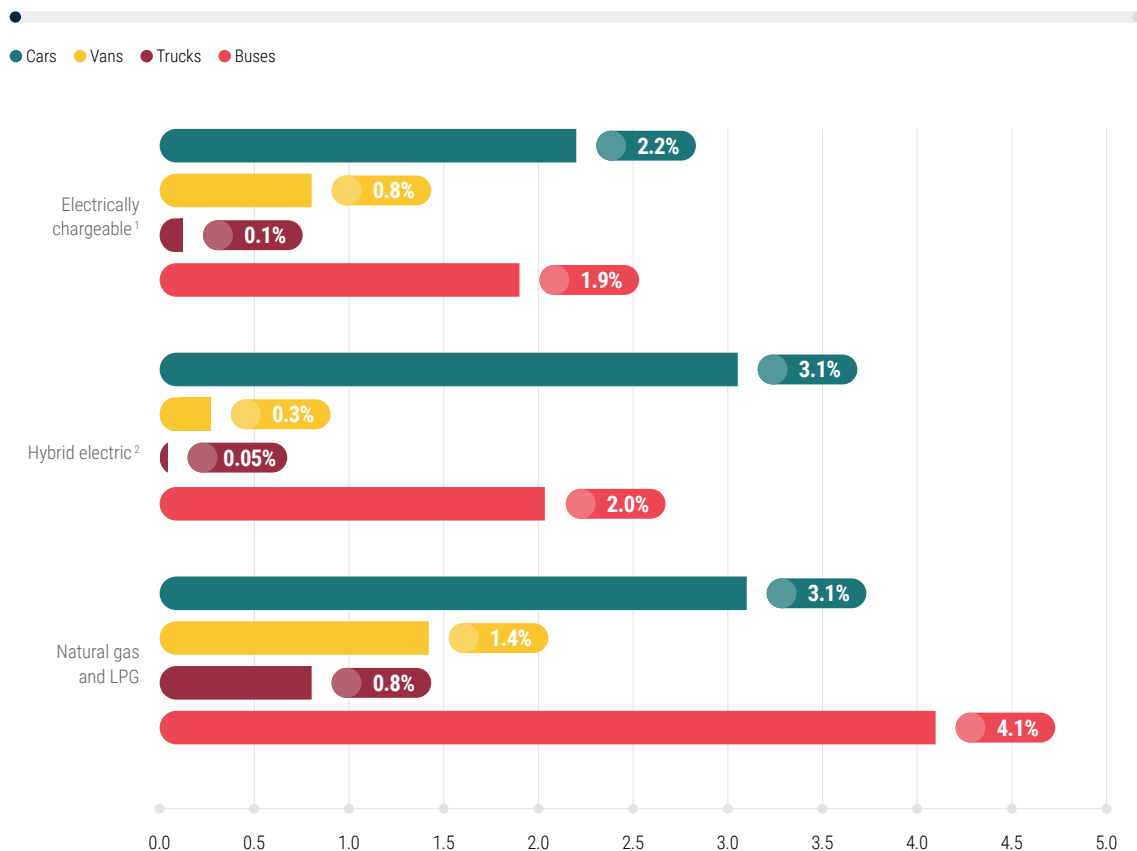
The average age of cars and vans is rising, while that of trucks and buses is declining

Just over 2% of cars on EU roads are electrically chargeable

1. Includes battery and plug-in hybrid electric vehicles
2. Includes full and mild hybrids

SHARE OF ALTERNATIVELY POWERED VEHICLES IN THE EU FLEET

By segment, % share, 2022



SOURCE: ACEA



ROAD SAFETY

THE AUTOMOBILE INDUSTRY
POCKET GUIDE 2024/2025



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DRIVING MOBILITY FOR EUROPE



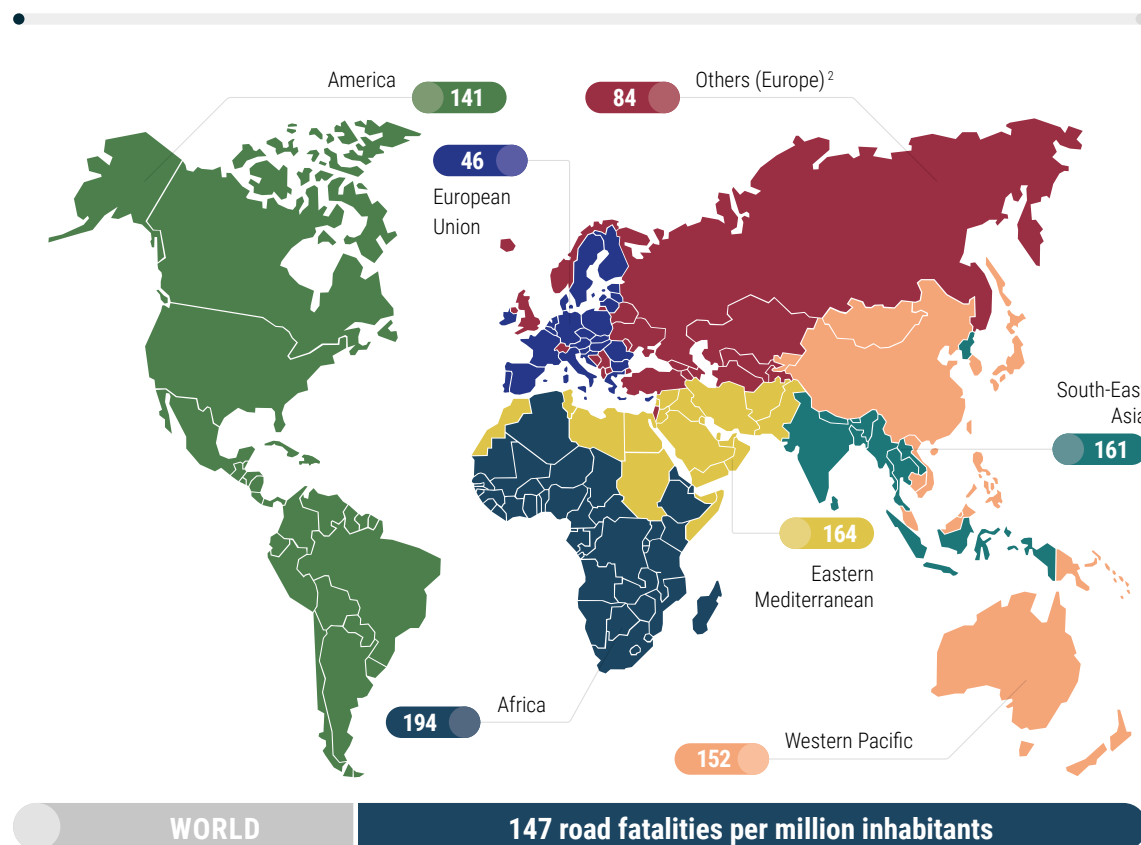
The EU has by far
the best road
safety record in
the world

1. WHO regions

2. Calculated by ACEA using data by country

ROAD FATALITIES PER MILLION INHABITANTS

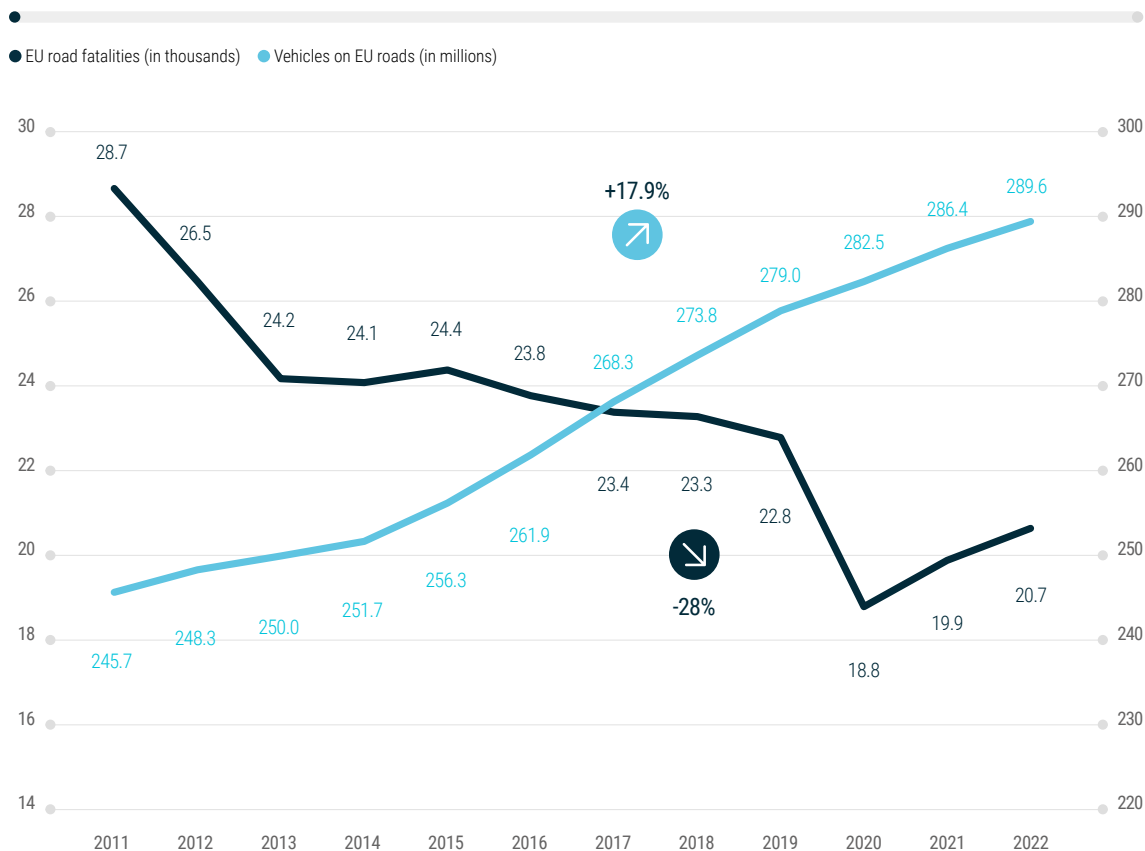
By region¹, 2021, 2022



SOURCE: CARE (COMMUNITY ROAD ACCIDENT) DATABASE, WHO GLOBAL HEALTH OBSERVATORY

NUMBER OF EU VEHICLES AND ROAD FATALITIES

2011 – 2022



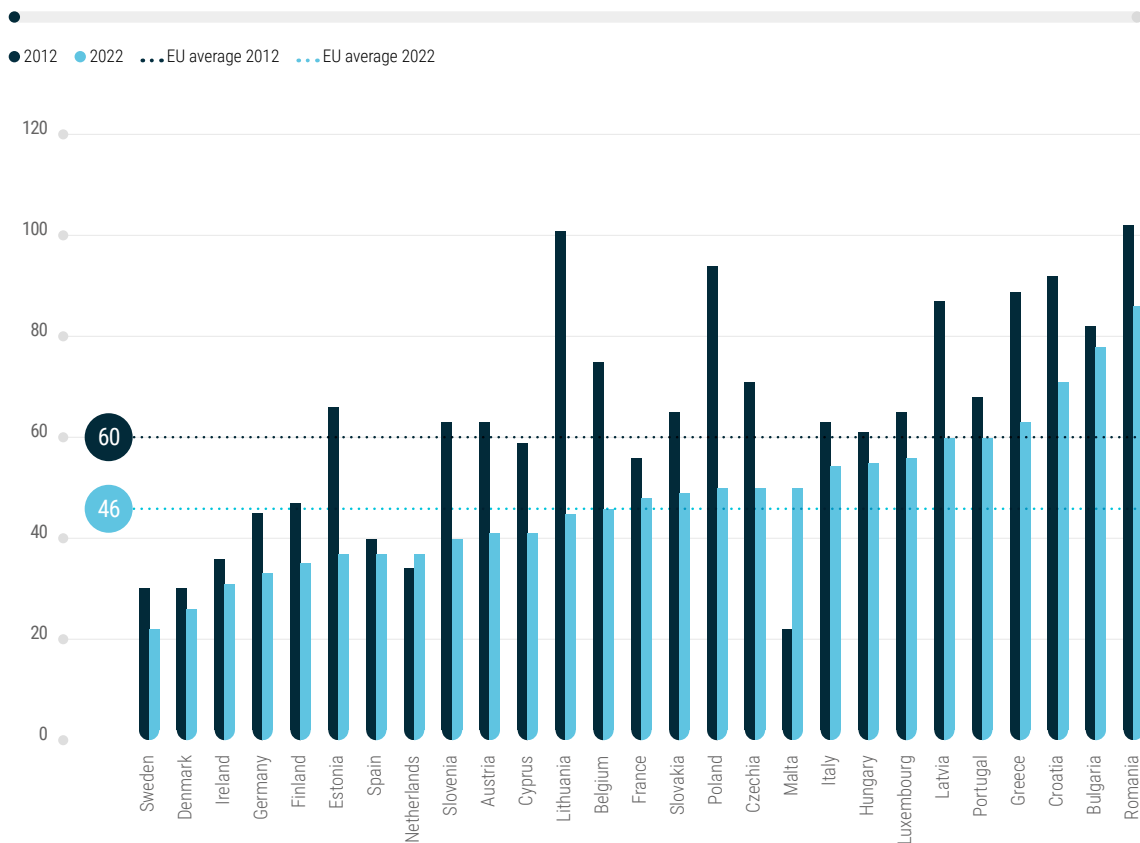
SOURCE: ACEA, CARE (COMMUNITY ROAD ACCIDENT) DATABASE

Road fatalities have fallen significantly since 2011 despite an increase in the number of cars on EU roads

Average EU road fatalities have plummeted by around a quarter since 2012

ROAD FATALITIES PER MILLION INHABITANTS

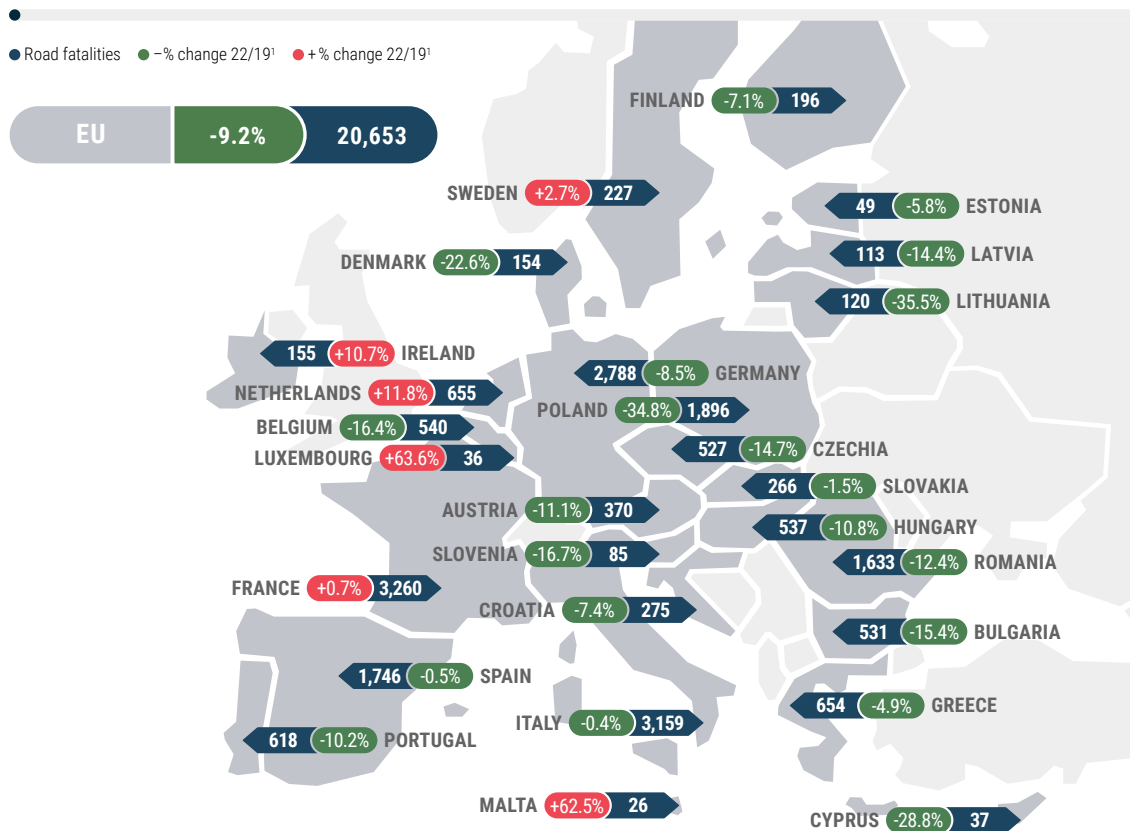
By country, 2012, 2022



SOURCE: CARE (COMMUNITY ROAD ACCIDENT) DATABASE

ROAD FATALITIES IN THE EU

By country, 2022



SOURCE: CARE (COMMUNITY ROAD ACCIDENT) DATABASE

EU road fatalities declined by 9% in 2022

1. The reference year for comparison is 2019 since the traffic levels of 2020 and 2021 were significantly impacted by the COVID-19 pandemic



ENVIRONMENT

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The average new car in the EU emits 2% less CO₂/km than in 2022

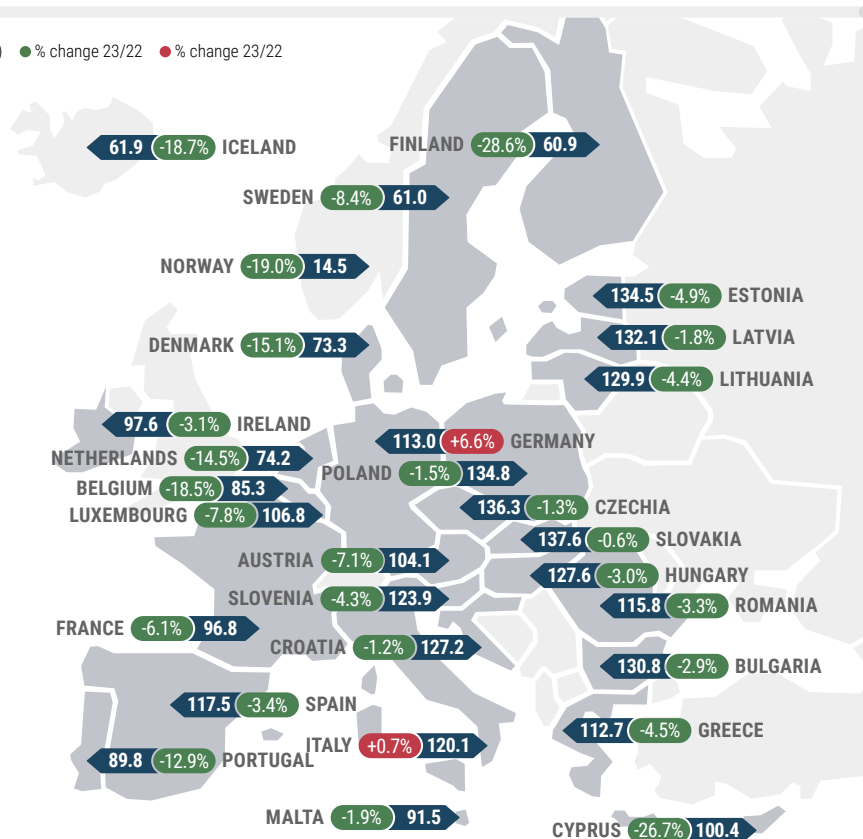


1. Provisional; from 2021 onwards the WLTP will replace fully the NEDC for the purpose of the CO₂ emission standards

CO₂ EMISSIONS FROM NEW CARS BY COUNTRY

In g CO₂/km, 2023¹

● 2023¹ average emissions (g CO₂/km) ● % change 23/22 ● % change 23/22

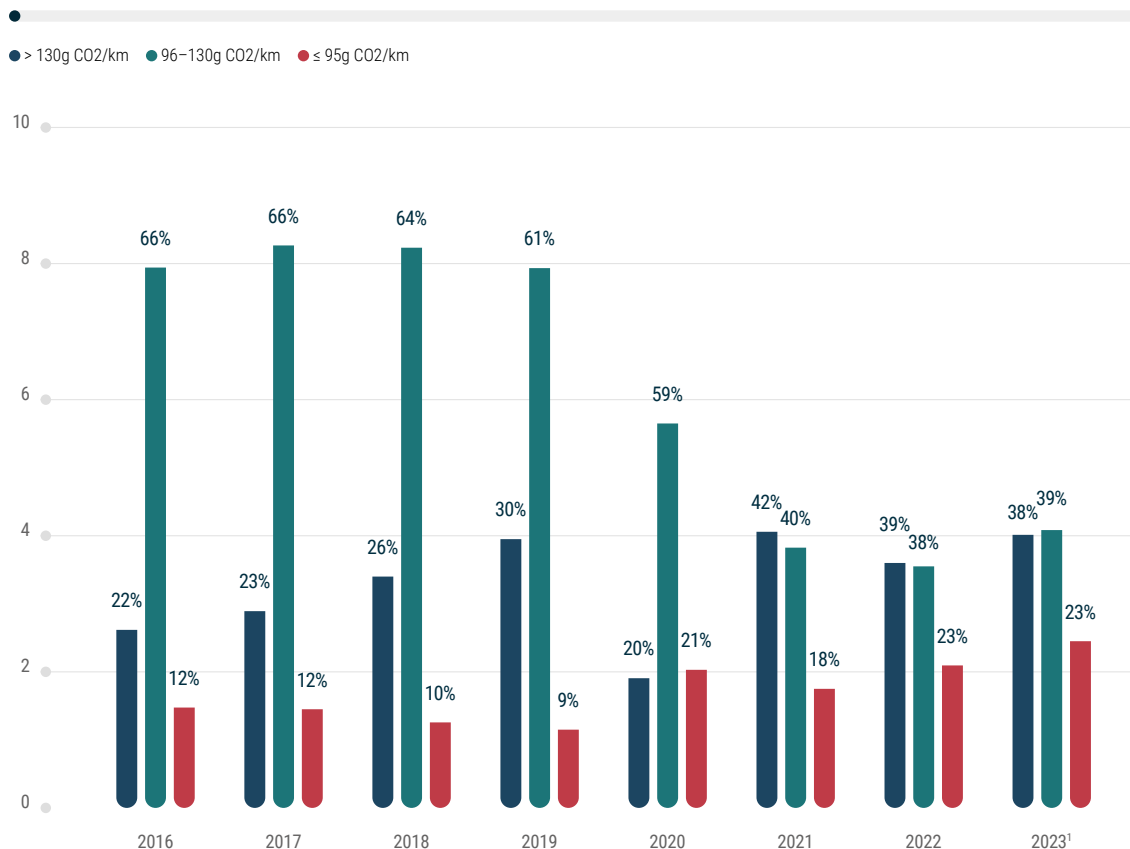


SOURCE: EEA



NEW CARS BY EMISSION CLASSES IN THE EU

In million units, % share, 2016 – 2023¹



SOURCE: EEA

**Almost a quarter
of new cars
emit 95g CO₂/
km or less**

1. Provisional; from 2021 onwards the WLTP will replace fully the NEDC for the purpose of the CO₂ emission standards

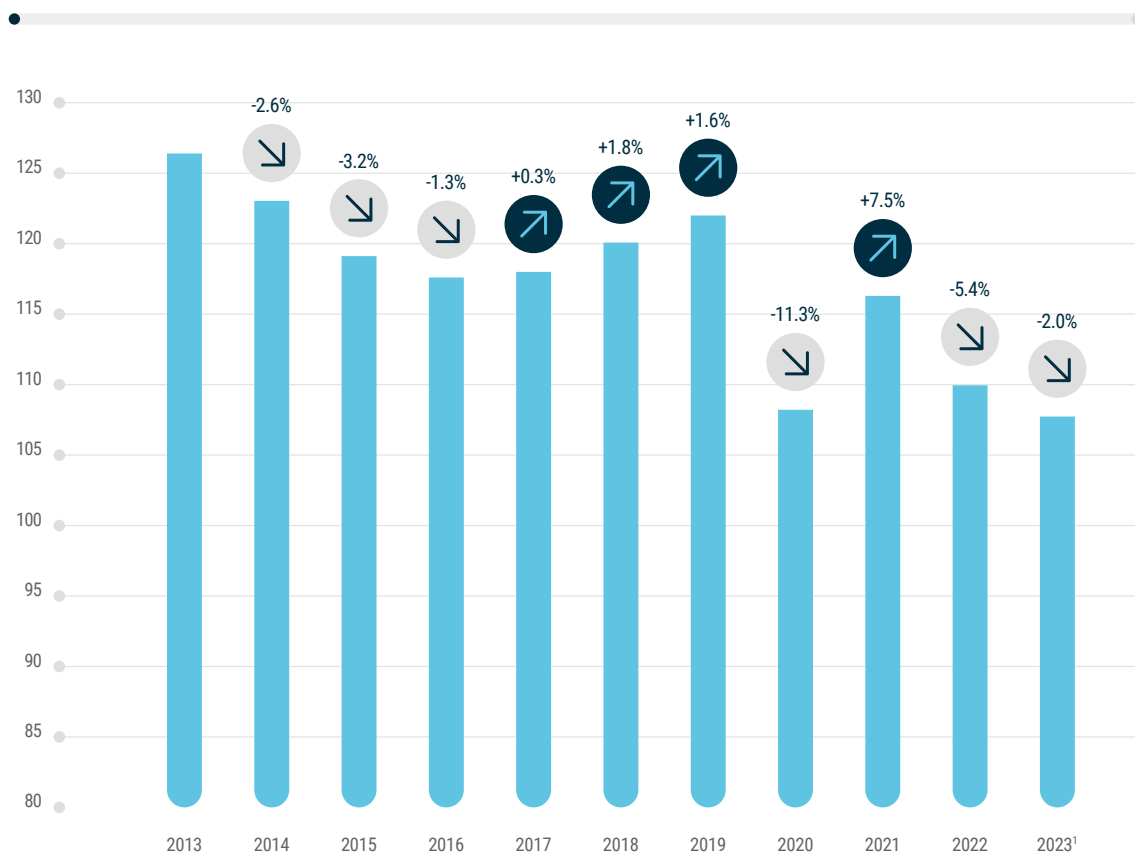


**CO₂ emissions
from new cars are
down by 15% since
2013**

1. Provisional; NECD (2013-2020), WLTP (2021-2023)

CO₂ EMISSIONS FROM NEW CARS IN THE EU

In g CO₂/km, % change, 2013 – 2023¹



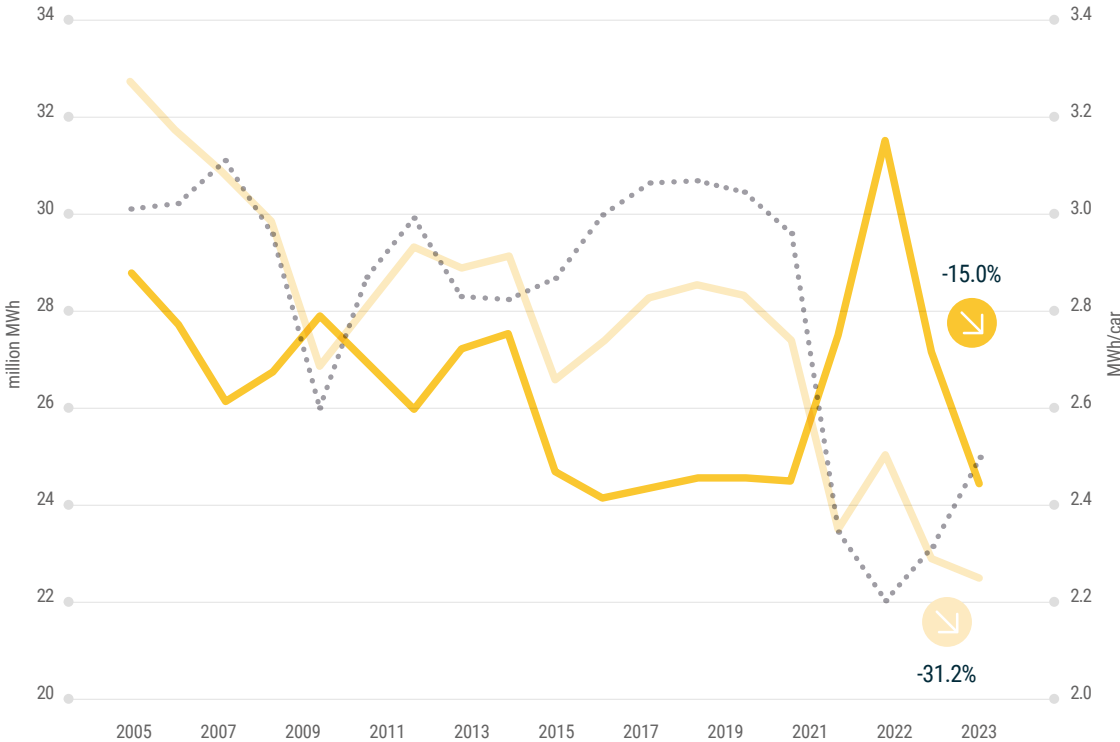
SOURCE: EEA



CAR PRODUCTION: ENERGY CONSUMPTION

2005 – 2023

Energy total (million MWh/year) Energy per unit produced (MWh/car) Car production trend



SOURCE: ACEA

**Car makers
have slashed
production energy
use per unit by
15% since 2005**



Car makers have
cut production
CO₂ emissions per
unit by over half
since 2005

CAR PRODUCTION: CO₂ EMISSIONS

2005 – 2023



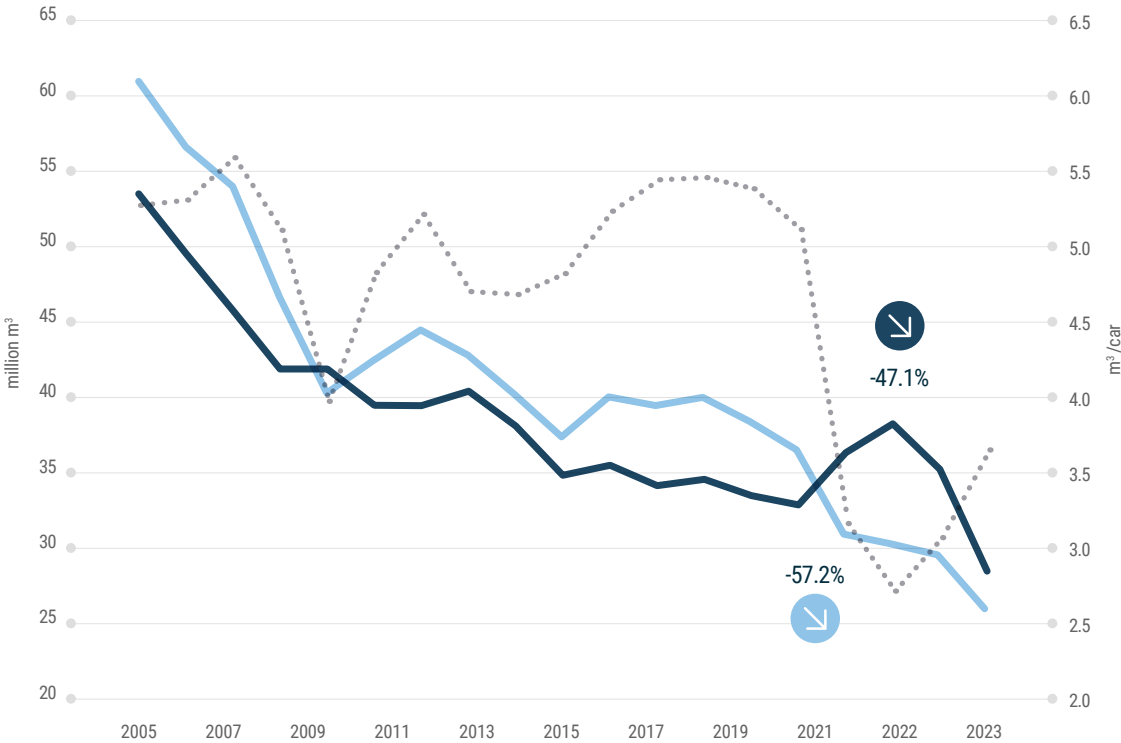
SOURCE: ACEA



CAR PRODUCTION: WATER CONSUMPTION

2005 – 2023

● Total water (million m³/year) ● Water per unit produced (m³/car) Car production trend



SOURCE: ACEA

Car makers have reduced production water use per unit by almost half since 2005



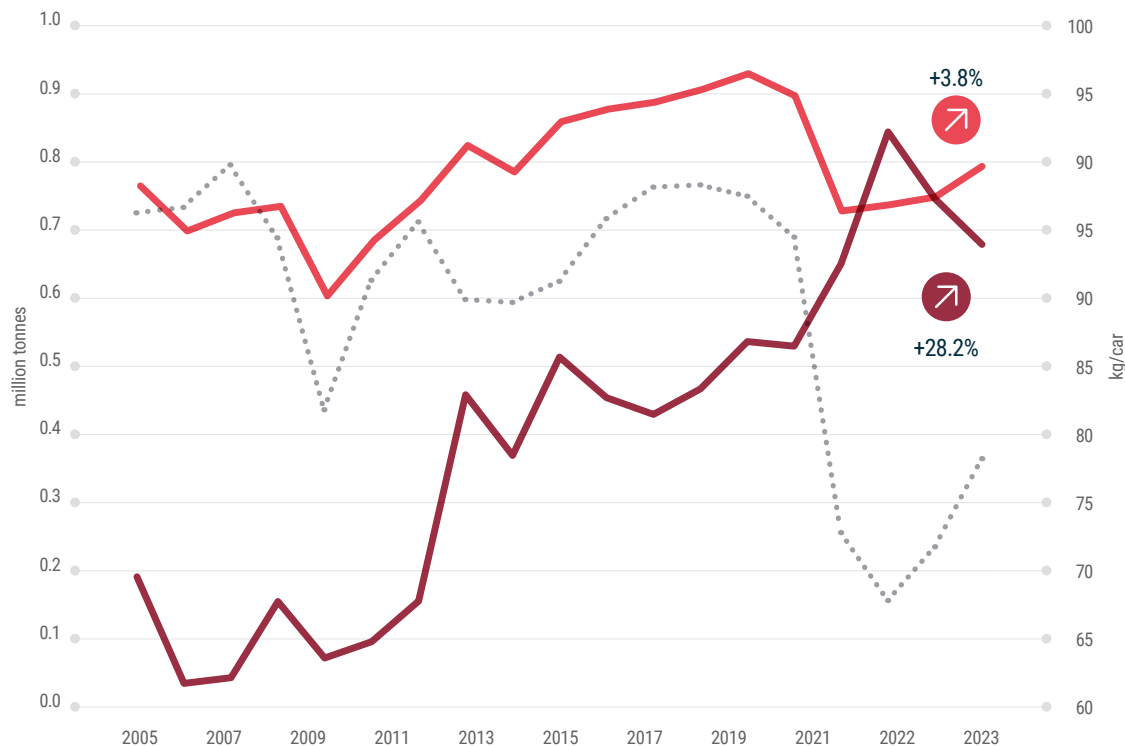
Levels of car manufacturing waste largely follow production trends

1. Excluding scrap metal and demolition waste

CAR PRODUCTION: WASTE¹

2005 – 2023

● Total waste (million t/year) ● Waste per unit produced (kg/car) Car production trend



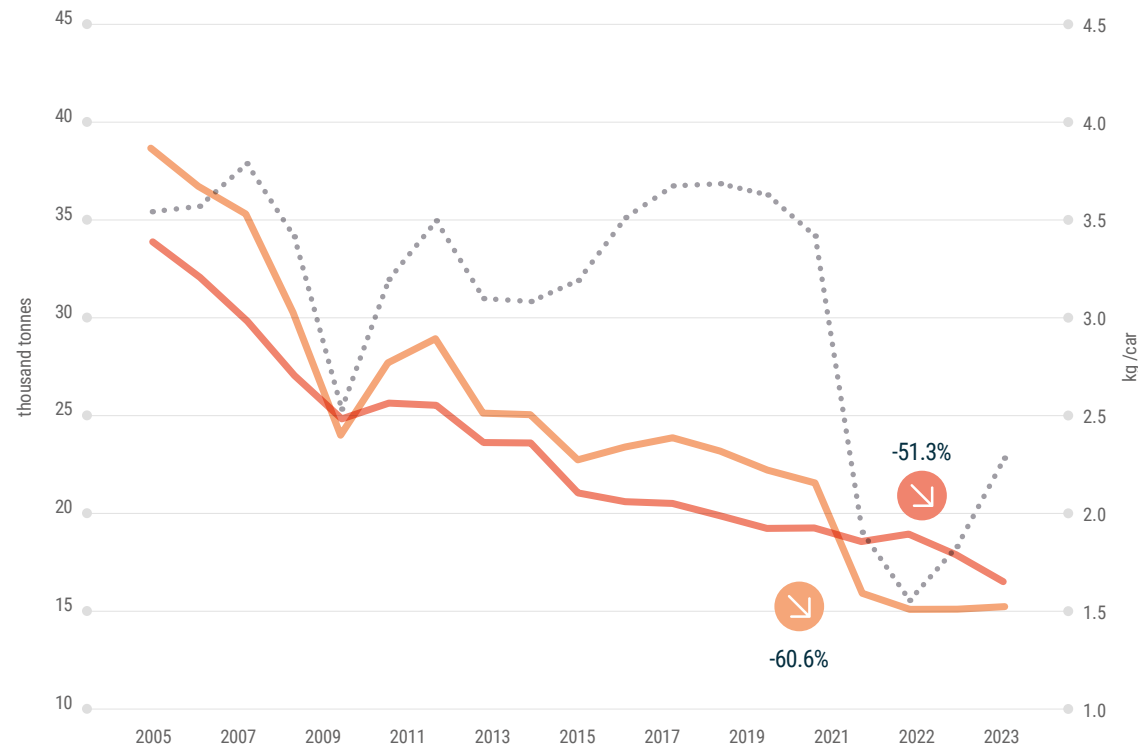
SOURCE: ACEA



CAR PRODUCTION: VOC¹ EMISSIONS

2005 – 2023

● VOC emissions total (thousand t/year) ● VOC emissions per unit produced (kg/car) Car production trend



SOURCE: ACEA

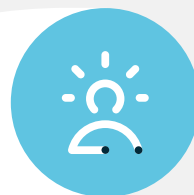
1. Volatile organic compounds

Car makers have reduced production VOC emissions per unit by over half since 2005



INNOVATION

THE AUTOMOBILE INDUSTRY
POCKET GUIDE 2024/2025

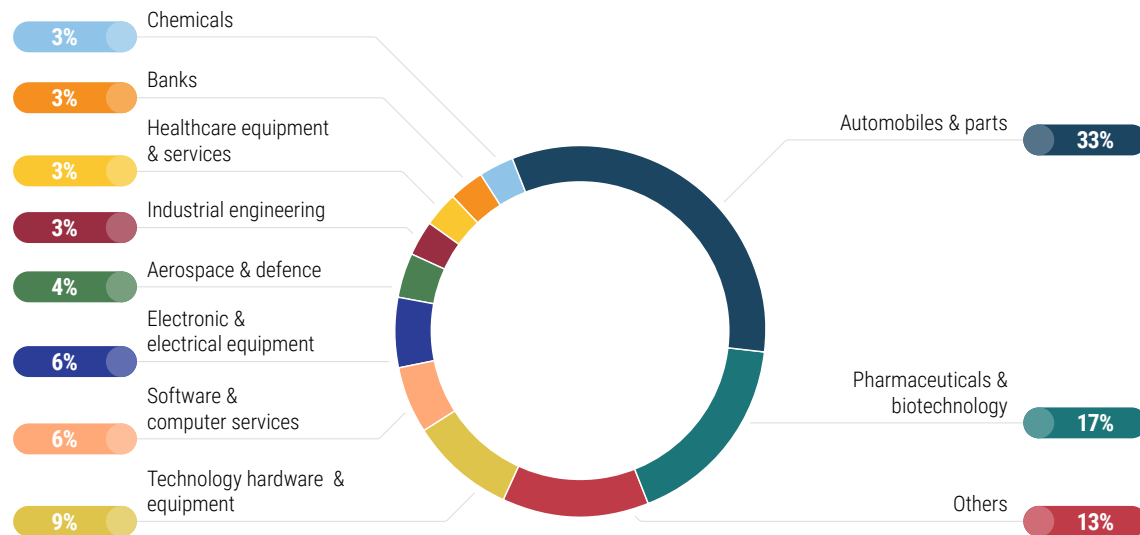




**EU auto makers
account for a
third of all EU
R&D investment**

SECTORAL R&D SHARE IN THE EU

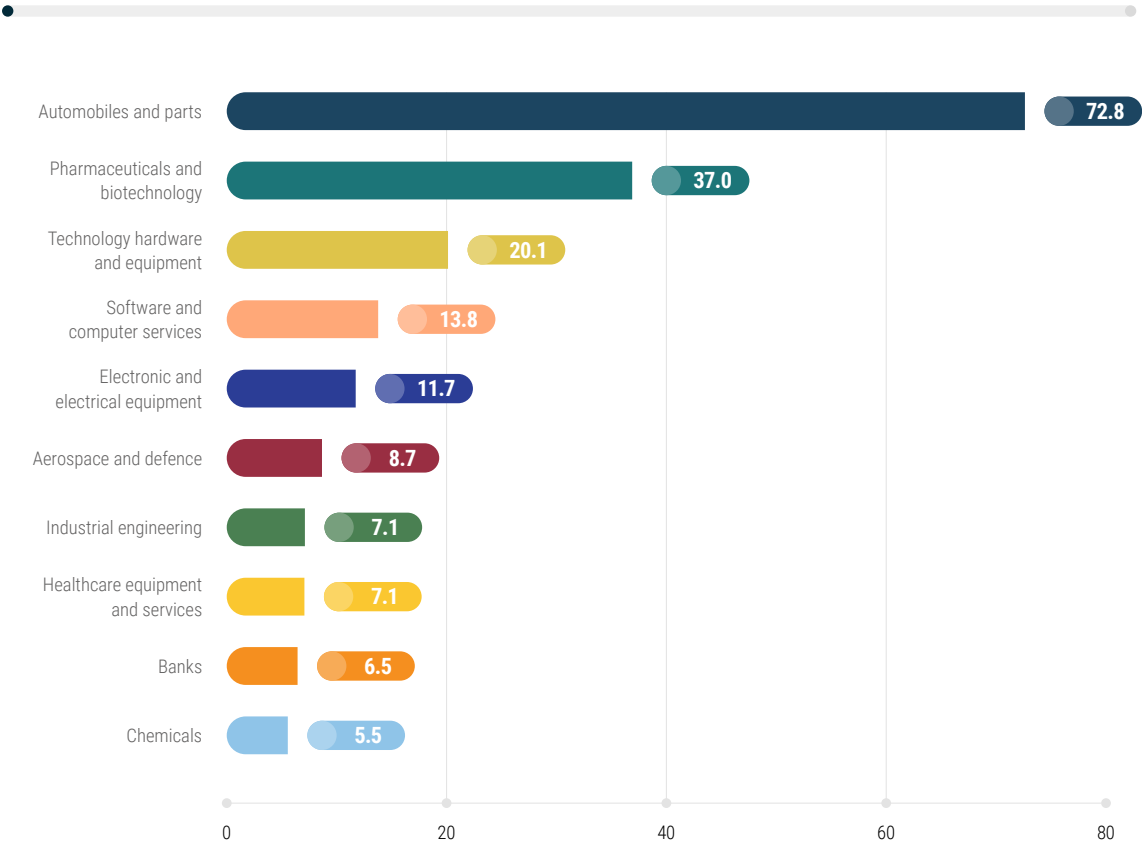
% share, 2022





EU R&D INVESTMENT IN THE TOP 10 INDUSTRIAL SECTORS

In billion €, 2022



SOURCE: THE 2023 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD

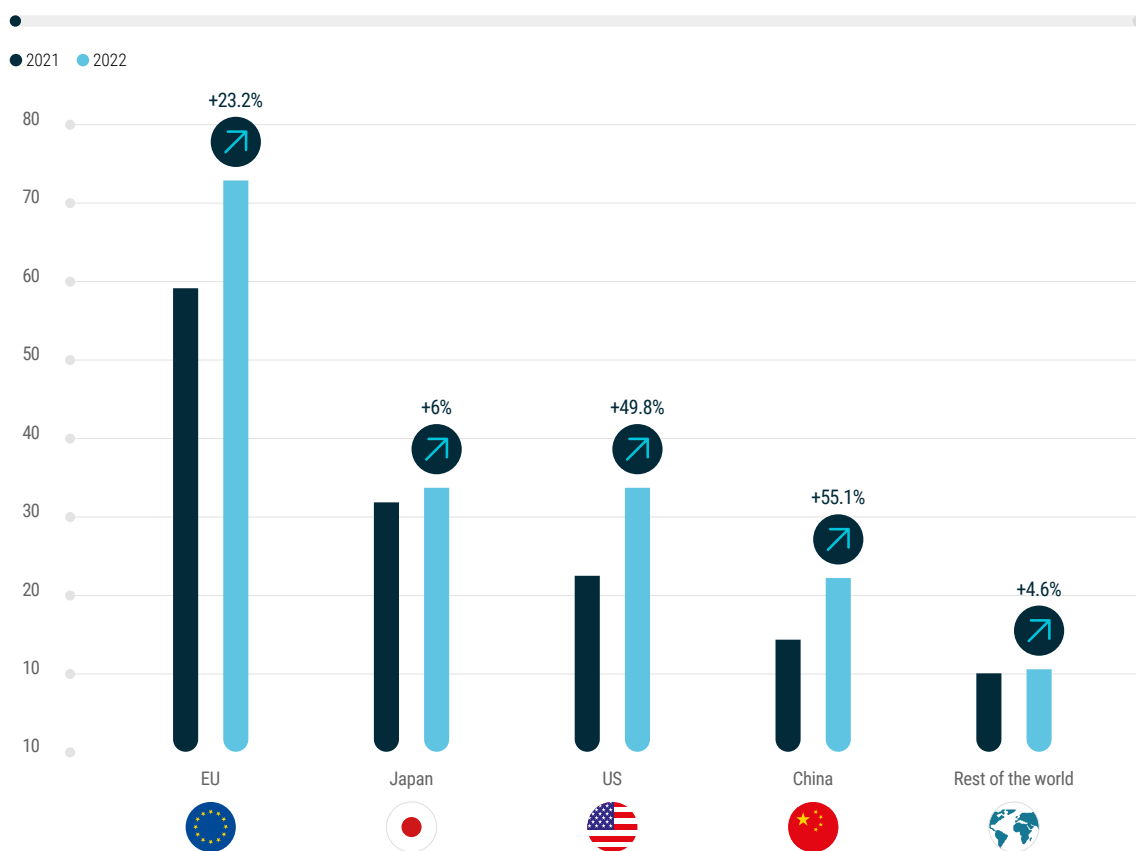
EU auto makers invest around €73 billion annually in R&D, about twice the amount as the pharmaceutical and biotech sector



Auto makers
invest over €70
billion in R&D in
the EU

AUTOMOTIVE R&D INVESTMENT BY REGION

In billion €, % change



SOURCE: THE 2023 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD



TAXATION

THE AUTOMOBILE INDUSTRY
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DRIVING MOBILITY FOR EUROPE

















TAX BENEFITS AND PURCHASE INCENTIVES: ELECTRIC CARS

2023

		TAX BENEFITS			INCENTIVES	
		Acquisition	Ownership	Company car	Purchase	Infrastructure
	Austria	✓	✓	✓	✓	✓
	Belgium	✓	✓	✓	✓	✓
	Bulgaria	✗	✓	✗	✗	✗
	Croatia	✓	✓	✗	✓	✗
	Cyprus	✓	✓	✗	✓	✗
	Czechia	✓	✓	✓	✓	✓
	Denmark	✓	✓	✓	✗	✗
	Estonia	✗	✗	✗	✓	✗
	Finland	✓	✗	✓	✗	✗
	France	✓	✗	✓	✓	✗
	Germany	✗	✓	✓	✓	✗
	Greece	✓	✓	✓	✓	✗
	Hungary	✓	✓	✓	✓	✗

TAX BENEFITS AND PURCHASE INCENTIVES: ELECTRIC CARS














2023

	TAX BENEFITS			INCENTIVES	
	Acquisition	Ownership	Company car	Purchase	Infrastructure
 Ireland	✓	✓	✓	✓	✗
 Italy	✗	✓	✗	✓	✓
 Latvia	✓	✓	✓	✗	✗
 Lithuania	✓	✓	✓	✓	✓
 Luxembourg	✓	✓	✓	✓	✓
 Malta	✓	✓	✗	✓	✗
 Netherlands	✓	✓	✓	✓	✗
 Poland	✓	✓	✗	✓	✗
 Portugal	✓	✓	✓	✓	✗
 Romania	✗	✓	✗	✓	✗
 Slovakia	✓	✓	✗	✗	✗
 Slovenia	✓	✗	✗	✓	✗
 Spain	✓	✓	✓	✓	✓
 Sweden	✗	✓	✓	✓	✓

Only a handful
of EU countries
offer incentives
for electric
car charging
infrastructure















TAX BENEFITS AND PURCHASE INCENTIVES: ELECTRIC COMMERCIAL VEHICLES

2023

		TAX BENEFITS		INCENTIVES	
		Acquisition	Ownership	Acquisition	Infrastructure
	Austria	✓	✓	✓	✓
	Belgium	✗	✓	✓	✗
	Bulgaria	✗	✓	✗	✗
	Croatia	✓	✓	✓	✗
	Cyprus	✓	✓	✓	✗
	Czechia	✓	✓	✓	✓
	Denmark	✓	✓	✗	✗
	Estonia	✗	✗	✓	✗
	Finland	✓	✗	✓	✗
	France	✓	✗	✓	✗
	Germany	✗	✓	✗	✗
	Greece	✓	✗	✓	✗
	Hungary	✗	✗	✗	✗

TAX BENEFITS AND PURCHASE INCENTIVES: ELECTRIC COMMERCIAL VEHICLES

2023

	TAX BENEFITS		INCENTIVES	
	Acquisition	Ownership	Acquisition	Infrastructure
 Ireland	✓	✓	✓	✗
 Italy	✗	✓	✓	✗
 Latvia	✓	✓	✗	✗
 Lithuania	✓	✗	✗	✗
 Luxembourg	✓	✓	✓	✗
 Malta	✓	✓	✓	✗
 Netherlands	✗	✗	✓	✗
 Poland	✓	✓	✗	✗
 Portugal	✗	✓	✓	✗
 Romania	✗	✓	✗	✗
 Slovakia	✓	✓	✗	✗
 Slovenia	✓	✗	✗	✗
 Spain	✓	✓	✓	✓
 Sweden	✗	✓	✓	✓








SOURCE: ACEA

TAXATION



Only four EU countries provide incentives for electric commercial vehicle infrastructure

FISCAL INCOME FROM VEHICLES IN MAJOR EU MARKETS¹







	 Austria	 Belgium	 Denmark	 Finland	 France	 Germany	 Greece
	€ bn 2022	€ bn 2020	DKK bn 2024 ³	€ bn 2021	€ bn 2022	€ bn 2022	€ bn 2022
Purchase or transfer							
1. VAT on vehicle sales servicing, repair & parts	3.2	7.6	–	1.6	20.2	30.1	0.8
2. Sales & registration taxes	0.4	0.5	10.1	0.5	1.9	–	0.4
3. Annual ownership taxes	2.8	1.7	10.9	1.1	0.7	9.5	1.2
4. Fuels & lubricants	5.6	7.3	19.3	4.0	41.7	34.9	4.8
5. Others:							
Driving license fees	–	0.0	–	–	0.01	0.2	0.03
Insurance taxes	0.4	1.0	1.4	0.4	5.7	5.5	0.5
Tolls	2.4	0.7	0.6	–	13.9	7.4	–
Customs duties	–	–	–	–	–	0.5	–
Other taxes	0.3	0.8	–	–	1.8	–	0.2
TOTAL (national currencies)	15.2	19.6	42.3	7.6	85.9	88.2	7.9
TOTAL (€)²	15.2	19.6	5.7	7.6	85.9	88.2	7.9

1. Latest available data; only country for which sourced data is available are listed

2. Euro foreign exchange reference rates at 26 March 2024; source: ECB

3. Estimates

FISCAL INCOME FROM VEHICLES IN MAJOR EU MARKETS¹

	 Ireland	 Italy	 Netherlands	 Portugal	 Spain	 Sweden
	€ bn 2019	€ bn 2022	€ bn 2022	€ bn 2021	€ bn 2023	SEK bn 2021
Purchase or transfer						
1. VAT on vehicle sales servicing, repair & parts	0.7	19.2	1.4	2.8	11.1	25.5
2. Sales & registration taxes	1.0	1.6	1.6	0.4	0.6	–
3. Annual ownership taxes	0.9	7.2	4.4	0.7	3.0	15.5
4. Fuels & lubricants	3.5	32.8	9.6	2.8	22.8	57.0
5. Others:						
Driving license fees	0.0	–	0.4	–	0.1	0.0
Insurance taxes	0.1	3.7	1.2	–	1.1	2.8
Tolls	–	2.2	–	0.2	–	2.8
Customs duties	–	–	–	–	–	–
Other taxes	–	4.3	0.6	1.5	0.8	1.3
TOTAL (national currencies)	6.2	71.0	19.2	8.5	39.5	104.9
TOTAL (€)²	6.2	71.0	19.2	8.5	39.5	9.2

Vehicles contribute over €380 billion to public budgets in major EU markets

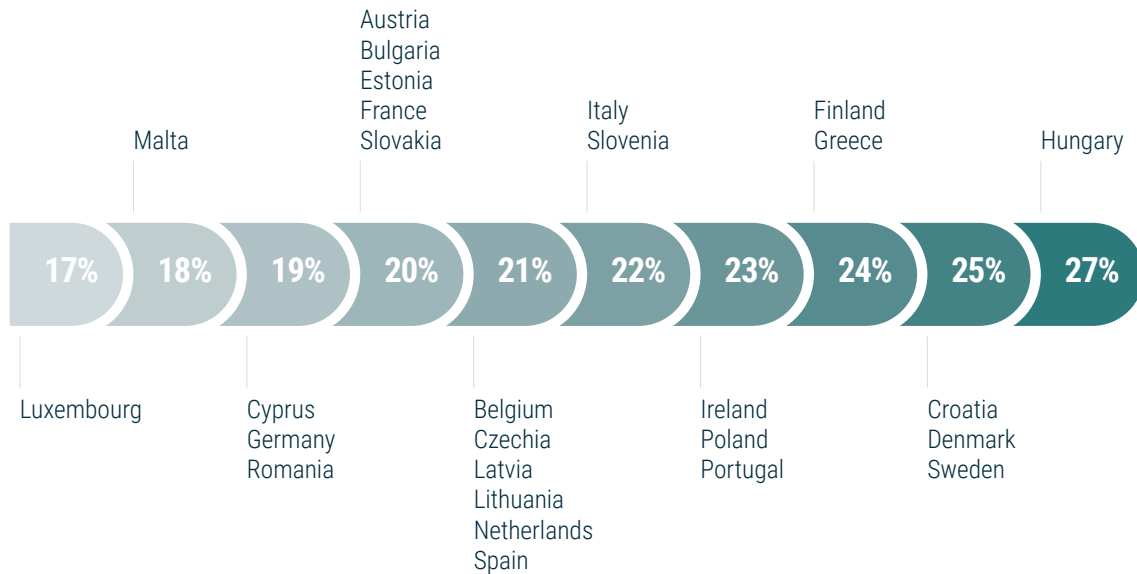
1. Latest available data; only country for which sourced data is available are listed
2. Euro foreign exchange reference rates at 26 March 2024; source: ECB
3. Estimates



Car VAT rates in the EU range from 17% to 27%

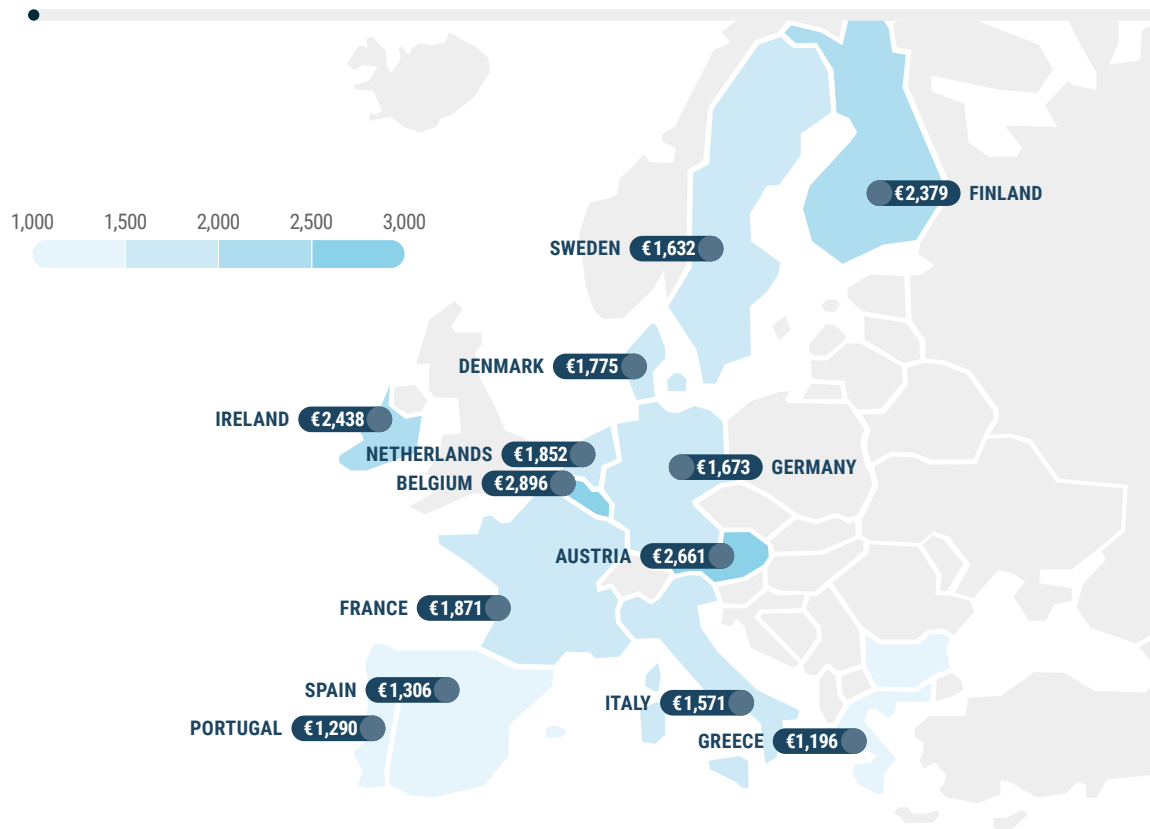
VAT SHARE IN NET CAR PRICES

% share, 2024



AVERAGE ANNUAL TAX PER VEHICLE IN MAJOR EU MARKETS¹

In € per vehicle, 2023



SOURCE: ACEA

**Annual tax
income averages
at €1,900 per
vehicle in major
EU markets**

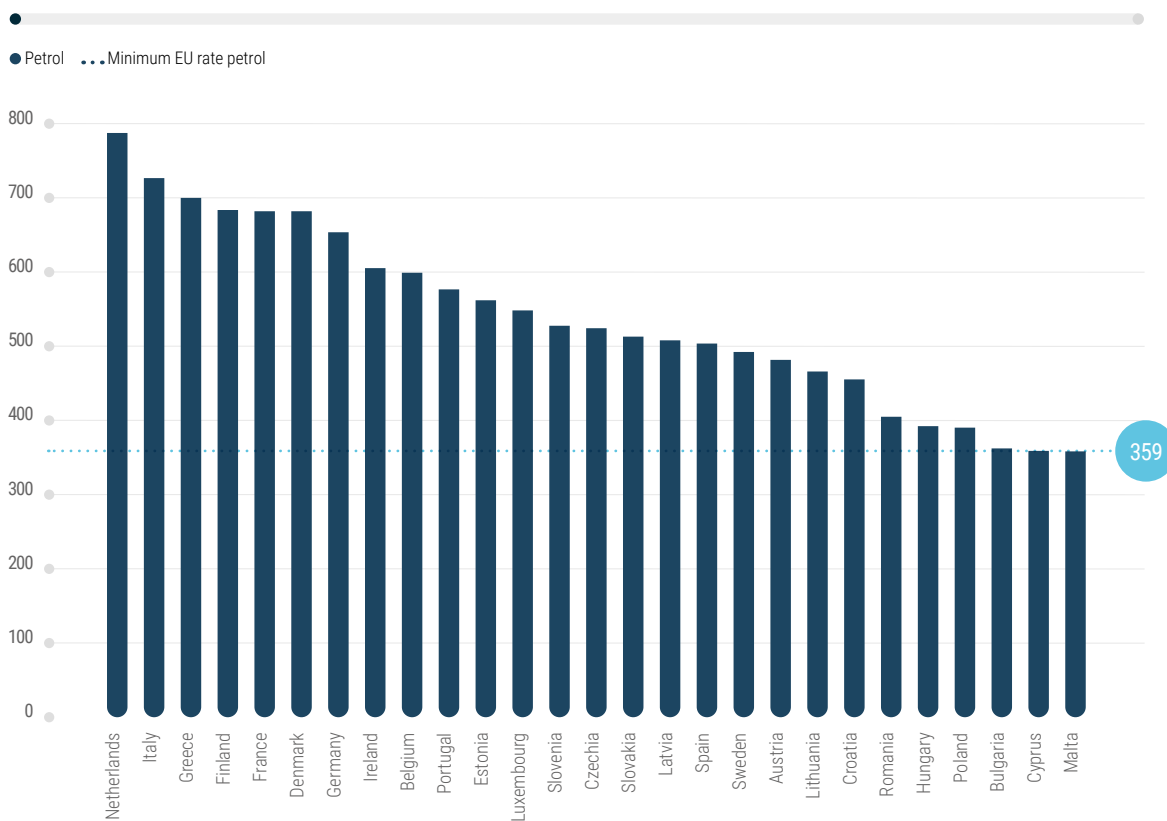
1. Per country estimates based on total number of vehicles on roads



The Netherlands,
Italy, and Greece
rank top for the
highest petrol
excise duties

EXCISE DUTIES ON UNLEADED PETROL

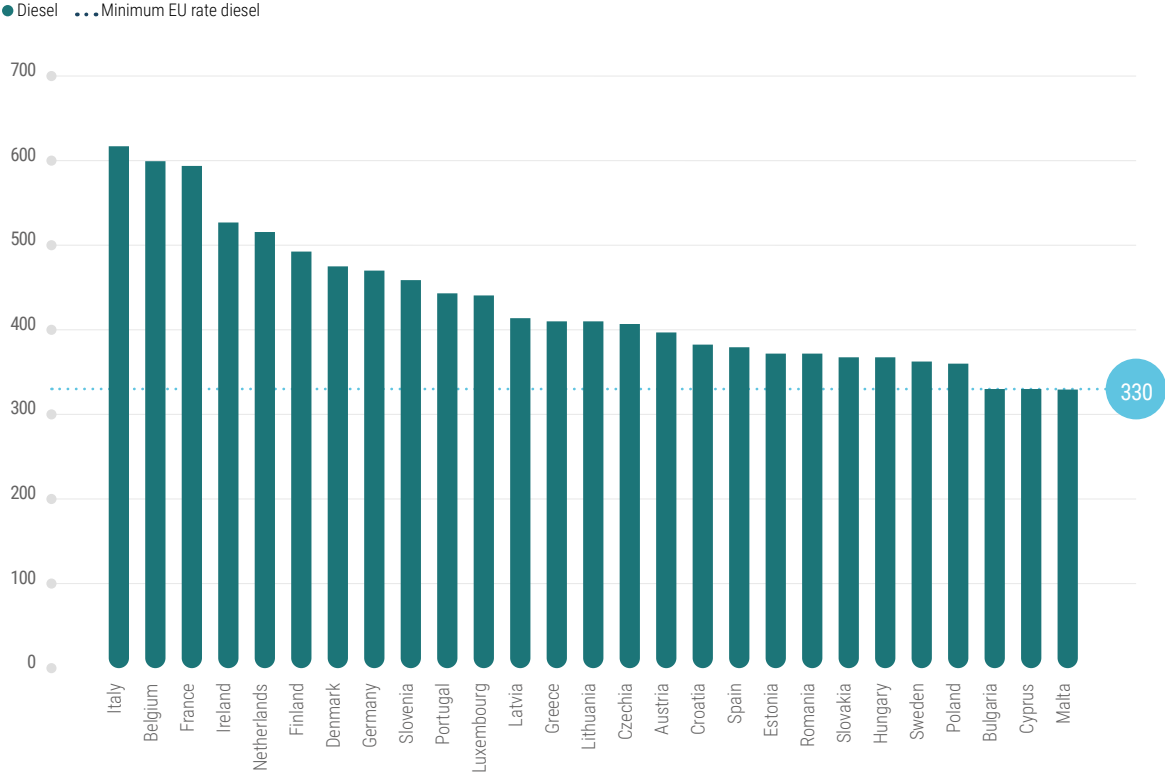
In €/1,000 litres, 2023













EXCISE DUTIES ON DIESEL

In €/1,000 litres, 2023



Italy, Belgium, and France rank top for the highest diesel excise duties

SOURCE: ACEA

<p>BMW GROUP</p> 		<p>DAIMLER TRUCK</p>	
	<p>HONDA</p>	 HYUNDAI	<p>IVECO • GROUP</p>
<p>JLR</p>			<p>Renault Group</p>
<p>STELLANTIS</p> 	<p>TOYOTA</p>	<p>VOLKSWAGEN GROUP</p>	<p>V O L V O</p>



ABOUT ACEA

DRIVING MOBILITY FOR EUROPE

The European Automobile Manufacturers' Association, or ACEA, unites Europe's 15 major car, truck, van and bus makers.

We are the voice of the auto industry: a technological world leader and the backbone of the EU economy. Our members keep Europe on the move, providing diverse solutions for moving people and goods from A to B.

Together, we are progressing on the road to zero-emission and zero-fatality transport. We are addressing major technology shifts and the changing mobility needs of Europeans.

ACEA is working towards a new era of mobility, where all Europeans can access affordable transport solutions that are:

- **Green & Clean**
- **Smart & Efficient**
- **Safe & Reliable**

Our aim is to drive Europe's mobility transformation – while at the same time ensuring that the auto industry remains a strong **Global & Competitive** player.

WHAT ACEA DOES

ACEA acts as one with common industry positions that also reflect the overarching interests of European citizens, transport users and operators, and auto industry workers.

We bring our collective expertise to policy makers, sharing a wealth of factual information to enable well-informed decisions.

We foster a societal debate around mobility, and are open to working with all interested parties to advance the common aim of clean, smart, and safe mobility.



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