2019 2020

# The Automobile Industry Pocket Guide



**BMW Group** 



DAF

**DAIMLER** 























**VOLVO** 

### Foreword

Each year, the European Automobile Manufacturers' Association (ACEA) publishes this Pocket Guide in order to provide you a clear and complete overview of one of Europe's key industries. Updated with the latest figures, this 2019-2020 Automobile Industry Pocket Guide is the point of reference for all those interested in automotive issues and related EU policies.

The automotive sector provides direct and indirect jobs to 13.8 million Europeans today, representing 6.1% of total EU employment. In 2018, EU manufacturers produced 16.5 million passenger cars − representing 21% of global car output − and more than 2.6 million commercial vehicles. Almost 6.1 million of those motor vehicles were exported in 2018, generating a trade surplus of €84.4 billion for the European Union.

But not only does our industry generate jobs and economic growth, automobiles are also a vital source of government revenue. New data shows that there are some 308 million motor vehicles in circulation on the EU's roads, of which 268 million are cars. Taxation on these vehicles is worth €428 billion per year in the EU15 countries alone – that is more than two and a half times the total EU budget!

At the same time, Europe's auto industry remains committed to addressing tomorrow's challenges. Manufacturers are working hard to decouple their environmental footprint from the production of vehicles, for example. Total CO2 emissions from car production have been reduced by 34.7% since 2005, while the use of water per car produced was cut by a staggering 44.1% during the same period.

The same level of ambition also applies to ACEA's objective of making mobility cleaner, smarter and safer in the future. To that end, EU automakers and suppliers have increased their R&D investments by 6.7%, to reach an all-time high of  $\leqslant$ 57.4 billion per year. This makes the automotive sector Europe's number one investor in innovation, responsible for 28% of total EU spending on R&D.

And these investments are clearly paying off. As the newly-added road safety chapter of this Guide shows, our vehicles are becoming increasingly safer. Because while the number of vehicles on EU roads increased by almost 46 million since 2005, the number of road fatalities fell by 45%. What is more, the EU counts 49 road fatalities per million inhabitants annually, while the global average is 182. Indeed, Europe has by far the safest roads in the world.

# ACEA represents Europe's car, van, truck and bus makers

#### **Members and partners**

The European Automobile Manufacturers' Association (ACEA) is the advocate for the automobile industry in Europe, representing the 15 major manufacturers of passenger cars, vans, trucks and buses with production sites in the EU.

ACEA's members are: BMW Group, CNH Industrial, DAF Trucks, Daimler, Fiat Chrysler Automobiles, Ford of Europe, Honda Motor Europe, Hyundai Motor Europe, Jaguar Land Rover, PSA Group, Renault Group, Toyota Motor Europe, Volkswagen Group, Volvo Cars and Volvo Group.

ACEA has permanent cooperation with the European Council for Automotive R&D (EUCAR), which is the industry body for collaborative research and development.

ACEA works closely with the 29 national automobile manufacturers' associations in Europe, and maintains a dialogue on international issues with automobile associations around the world

### ACEA's mission and priority areas

#### **ACEA's mission**

- Define and advocate the common interests, policies and positions of the European automobile industry.
- Engage in dialogue with the European institutions and other stakeholders in order to advance understanding of industry issues, and to contribute to effective policy and legislation at both European and global levels.
- Act as a portal for expert knowledge on vehicle-related regulation.
- Communicate the role and importance of the industry, using reliable data and information.
- Monitor activities that affect the automobile industry, cooperating with the other stakeholders involved
- Undertake strategic reflection on the increasingly global challenges of mobility, sustainability and competitiveness.

#### **Priority fields**

Through its member companies, ACEA taps into a wealth of technical, regulatory and practical expertise in the following priority fields:

- Connected and automated driving
- Competitiveness, market and economy
- Environment and sustainability
- International trade
- Research and innovation
- Road safety
- Transport policy

### How ACEA works

The ACEA Board of Directors is composed of the CEOs and Presidents of its member companies. Additionally, a Commercial Vehicle Board of Directors addresses the specific issues that face the commercial vehicle manufacturers that ACEA represents: DAF Trucks, Daimler Trucks, Iveco, MAN Truck & Bus, Scania, and Volvo Group.

The day-to-day work of the ACEA secretariat is overseen by the Secretary General, who ensures that the Board of Directors' priorities are addressed. Technical expertise and advisory input comes from working groups on topics as diverse as emissions, road and vehicle safety, general transport policy, and regulatory compliance. These specialist working groups are made up of experts from the member companies.



### About EUCAR

The European Council for Automotive R&D (EUCAR) is the collaborative research organisation of the major automobile manufacturers in Europe,

with the mission to strengthen their competitiveness through strategic collaborative research and innovation

EUCAR is committed to help society achieve safer, cleaner, smarter and more efficient transport solutions. Together with its members, EUCAR drives the strategy and assessment of collaborative automotive research and innovation, and establishes common work with the European Commission, member states and other key stakeholders.

EUCAR collaborative research and innovation activities cover both passenger and commercial vehicles, focused on the following strategic pillars:

- Sustainable propulsion
- Affordability and competitiveness
- Safe and integrated mobility
- Commercial vehicles
- Urban mobility

EUCAR's members participate in high-quality projects with relevant results for the industry. Projects are mainly financed through the European Union Framework Programmes for research and innovation, matched with industry funding.

Visit EUCAR's website to see the project book with an overview of all the current projects: www.eucar.be

EUCAR is governed by its Council, composed of the heads of the research and advanced development divisions of the member companies. The EUCAR Chairman is nominated annually from the Council on a rotating basis.

EUCAR's members are: BMW Group, CNH Industrial, DAF Trucks, Fiat Chrysler Automobiles, Ford of Europe, Honda Motor Europe, Hyundai Motor Europe, Jaguar Land Rover, PSA Group, Renault Group, Toyota Motor Europe, Volkswagen Group, Volvo Cars and Volvo Group.

## Key figures

	EMPLOYMENT	
Manufacture of motor vehicles (EU)	2.6 million people = 8.5% of EU employment in manufacturing	2017
Total (EU manufacturing, services and construction)	13.8 million people = 6.1% of total EU employment	2017
	PRODUCTION	
Motor vehicles (world)	98.1 million units	2018
Motor vehicles (EU)	19.2 million units = 20% of global motor vehicle production	2018
Passenger cars (world)	79.3 million units	2018
Passenger cars (EU)	16.5 million units = 21% of global passenger car production	2018
	REGISTRATIONS	
Motor vehicles (world)	97.2 million units	2018
Motor vehicles (EU)	17.6 million units = 18% of global motor vehicle registrations/sales	2018
Passenger cars (world)	78.7 million units	2018
Passenger cars (EU)	15.2 million units = 19% of global passenger car registrations/sales	2018
Petrol (EU)	56.7%	2018
Diesel (EU)	35.9%	2018
Electrically-chargeable (EU)	2.0%	2018
	TRADE	
Exports (extra-EU)	€138.4 billion	2018
Imports (extra-EU)	€54.0 billion	2018
Trade surplus	€84.4 billion	2018
	VEHICLES IN USE	
Motor vehicles (EU)	308.3 million units	2017
Passenger cars (EU)	268.0 million units	2017
Motorisation rate (EU)	602 vehicles per 1,000 inhabitants	2017
Average age of cars (EU)	11.1 years	2017
	ROAD SAFETY	
Road fatalities per million inhabitants (EU)	49 people (global average = 182)	2017
	ENVIRONMENT	
Average CO2 emissions (EU)	120.6g CO2/km	2018
	INNOVATION	
Automotive R&D investment	€57.4 billion	2017
	TAXATION	
Fiscal income from motor vehicles (EU15)	€428 billion	2017

THE AUTOMOBILE INDUSTRY

# Employment









## Automotive sector: direct and indirect employment in the EU

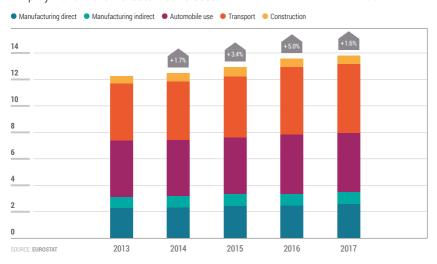
IN THOUSANDS / 20171

				DIDECT MANUFACTURING	0.607
	<b>e</b>		sqc	Motor vehicles	<b>2,607</b>
	<b>2.6n</b> s dii		2.6m jobs		1,130
	doj	ing	2.(	Bodies (coachwork), trailers and semi-trailers  Parts and accessories	1,314
		cturi		Parts and accessories	1,314
		nanufa		INDIRECT MANUFACTURING	887
		3.5m jobs manufacturing	SC	Rubber tyres and tubes, retreading and rebuilding of rubber tyres	121
		.5m	0.9m jobs	Computers and peripheral equipment	68
		(2)	0.9n	Electric motors, generators and transformers	244
				Bearings, gears, gearing and driving elements	211
				Cooling and ventilation equipment	243
sq					
<b>13.8m</b> jobs				AUTOMOBILE USE	4,526
13.8	11.2m jobs indirect		တ	Sale of motor vehicles	1,555
	b ind		4.5m jobs	Maintenance and repair of motor vehicles	1,568
	şqoí	ρc	.5m	Sale of motor vehicle parts and accessories	735
	.2m	turi		Retail sale of automotive fuel in specialised stores	469
	=	nufac		Renting and leasing of motor vehicles	198
		0.3m jobs non-manufacturing	SC	TRANSPORT	5,148
		n sq	5.1m jobs	Other passenger land transport	1,993
		.e	5.1r	Freight transport by road	3.155
		10.3		reigne danapore by road	0,100
			sqc	CONSTRUCTION	626
			0.6m jobs	Roads and motorways	583
			0.6	Bridges and tunnels	43

SOURCE **EUROSTAT** 1. Provisional figures

#### Employment in the EU automotive sector

IN MILLION UNITS / 2013 - 2017

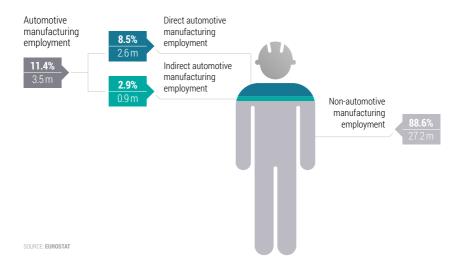


EU automotive employment	2013	2014	2015	2016	2017	% change 17/16
Manufacturing direct	2,291,594	2,369,570	2,451,219	2,503,658	2,607,477	4.1
Manufacturing indirect	811,344	818,630	890,110	882,627	887,350	0.5
Automobile use	4,261,539	4,256,382	4,303,637	4,448,071	4,525,639	1.7
Transport	4,335,551	4,450,654	4,633,609	5,120,469	5,147,575	0.5
Construction	591,269	607,908	647,600	621,334	625,658	0.7
TOTAL	12,291,297	12,503,144	12,926,175	13,576,158	13,793,699	1.6

SOURCE: EUROSTAT

#### EU manufacturing employment

% SHARE / 2017

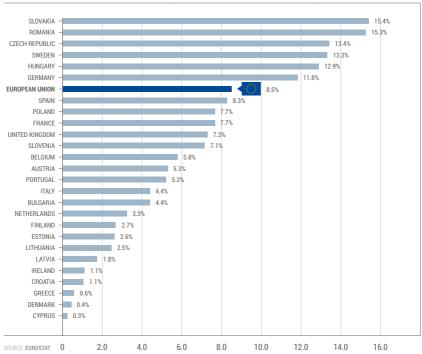


Direct automotive manufacturing employment	2.6 million people = 8.5% of EU employment in manufacturing
Direct & indirect automotive manufacturing employment	3.5 million people = 11.4% of EU employment in manufacturing
Total automotive employment (manufacturing, services and construction)	13.8 million people = 6.1% of total EU employment
EU employment in the manufacturing sector	30.7 million people = 13.5% of total EU employment
EU total employment	227.0 million people

SOURCE: EUROSTAT

#### Share of direct automotive employment in total manufacturing

BY COUNTRY / 2017



#### Direct automotive manufacturing employment

BY COUNTRY / 2017

Austria	33,843	France	223,000	Poland	202,858
Belgium	29,181	Germany	869,118	Portugal	37,071
Bulgaria	24,380	Greece	1,928	Romania	185,242
Croatia	2,861	Hungary	97,688	Slovakia	77,062
Cyprus	85	Ireland	2,359	Slovenia	14,582
Czech Republic	177,156	Italy	162,876	Spain	157,610
Denmark	1,317	Latvia	2,087	Sweden	79,600
Estonia	2,860	Lithuania	5,376	United Kingdom	186,000
Finland	8,655	Netherlands	22,682		
	C	European Union	2,607,477		

SOURCE: EUROSTA

## The EU automotive sector directly employs 2.6 million people in manufacturing

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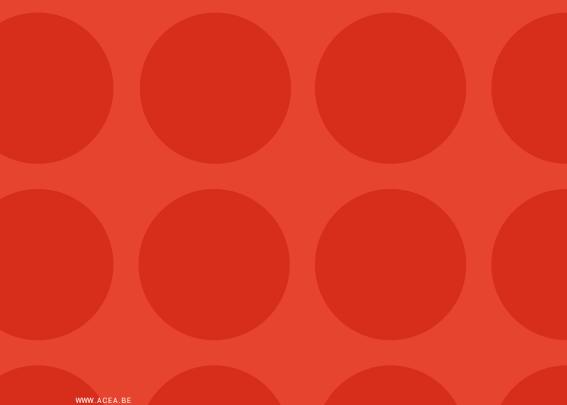
THE AUTOMOBILE INDUSTRY POCKET GUIDE 2019/2020

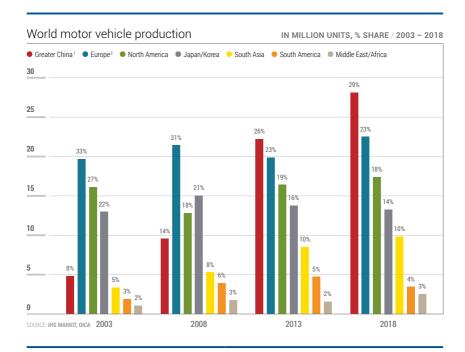
# Production











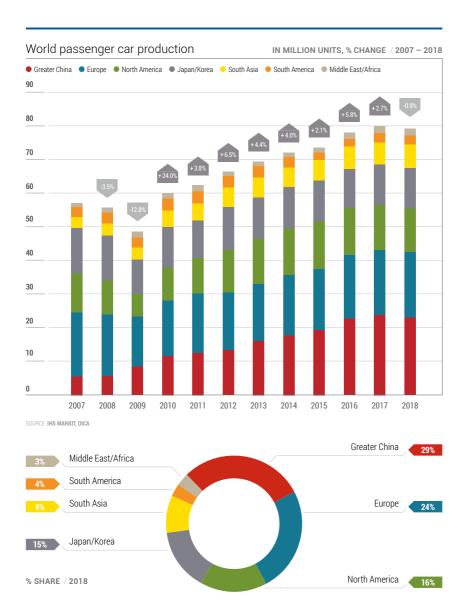
#### World motor vehicle production

IN 1,000 UNITS / 2018

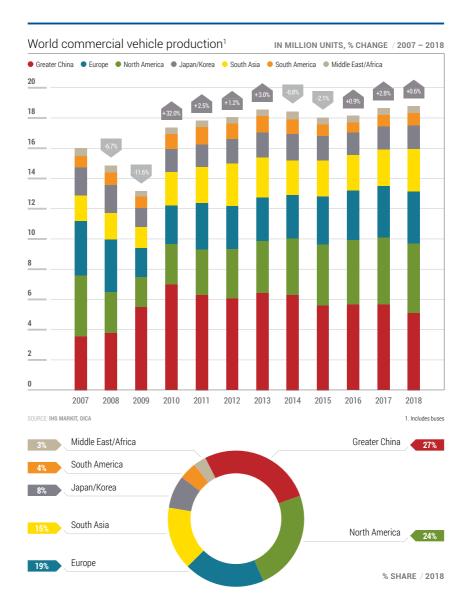
	2018	2017	% change 18/17	% share 2018
Europe <sup>2</sup>	22,777	22,831	-0.2	23.2
Greater China 1	28,399	29,581	-4.0	28.9
Japan/Korea	13,416	13,525	-0.8	13.7
Middle East/Africa	2,551	2,609	-2.2	2.6
North America	17,528	17,548	-0.1	17.9
South America	3,540	3,405	3.9	3.6
South Asia	9,890	9,222	7.2	10.1
WORLD	98,101	98,721	-0.6	100.0

SOURCE: IHS MARKIT, OICA

1. Includes Hong Kong and Taiwan 2. Includes Turkey and CIS countries



## <u>A quarter of all cars produced worldwide</u> are made in Europe



#### Motor vehicle production in the EU

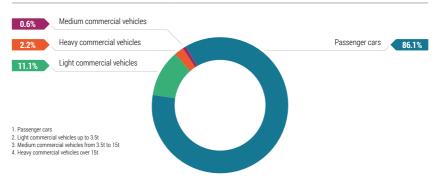
BY COUNTRY / 2018

	PC 1	LCV <sup>2</sup>	MCV <sup>3</sup>	HCV <sup>4</sup>	TOTAL
Austria	144,500	-	8,663	8,967	162,130
Belgium	265,958			42,189	308,147
Czech Republic	1,345,041	_	61	744	1,345,846
Finland	112,104		_	148	112,252
France	1,763,300	506,000	15,793	52,817	2,337,910
Germany	5,120,409	362,438	27,899	131,986	5,642,732
Hungary	430,988	_	_	_	430,988
Italy	670,932	317,885	32,223	7,276	1,028,316
Lithuania		_	_	92	92
Netherlands	215,803		_	87,193	302,996
Poland	451,600	180,058	6,392	15,650	653,700
Portugal	234,151	67,926	4,620		306,697
Romania	476,769	_	_	_	476,769
Slovakia	1,031,241		_	_	1,031,241
Slovenia	209,316	_	_	_	209,316
Spain	2,267,396	632,981	10,083	18,495	2,928,955
Sweden	281,104	_	_	48,054	329,158
United Kingdom	1,519,440	60,569	4,396	13,445	1,597,850
European Union	16,540,052	2,127,857	110,130	427,056	19,205,095

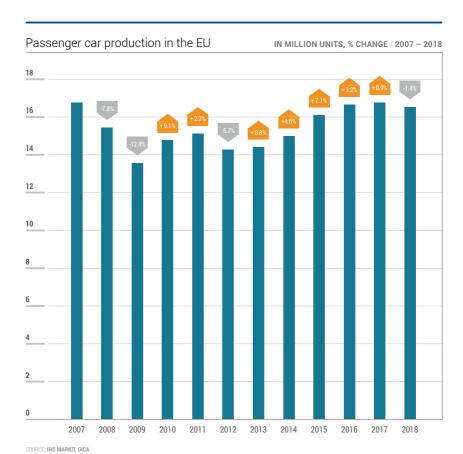
SOURCE: IHS MARKIT, OICA

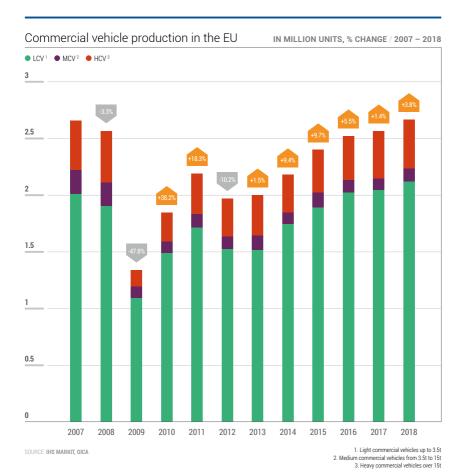
#### EU motor vehicle production by type

% SHARE / 2018



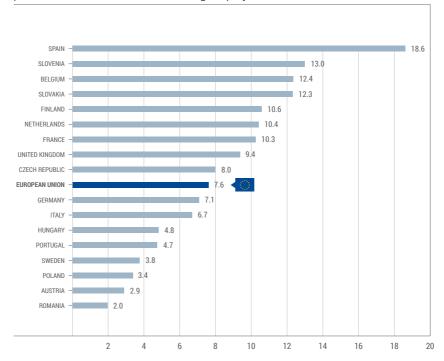
## 19.2 million motor vehicles were manufactured in the EU in 2018





Motor vehicle production per direct automotive manufacturing employee

BY COUNTRY / 2017

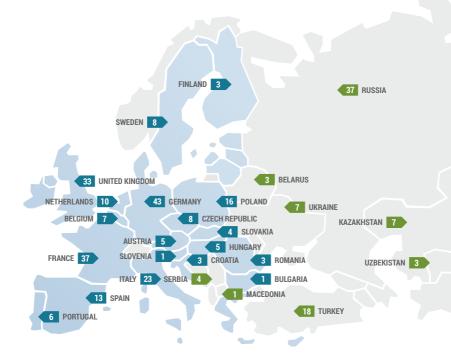


SOURCE: EUROSTAT, IHS MARKIT, OICA

1. Based on direct automotive manufacturing employment, most recent data available

#### Automobile assembly and engine production plants in Europe

2018



ALL MANUFACTURERS	EU	229	NON-EU	80	EUROPE	309	
ACEA MEMBERS	EU	168	NON-EU	25	EUROPE	193	

SOURCE: ACEA

3

THE AUTOMOBILE INDUSTRY POCKET GUIDE 2019/2020

# Registrations







World new motor vehicle registrations			MARKE	T SHARES / 2018
Motor vehicles In 1,000 units	2018	2017	% change 18/17	% share 2018
EUROPE	21,009	21,046	-0.2	21.6
EU1	17,643	17,542	0.6	18.1
EFTA	551	577	-4.5	0.6
Russia	1,901	1,688	12.6	2.0
Turkey	644	986	-34.7	0.7
Ukraine	90	91	-0.7	0.1
Others: Europe <sup>2</sup>	181	162	11.4	0.2
AMERICA	26,213	25,859	1.4	27.0
North America	21,352	21,335	0.1	22.0
of which the US	17,858	17,686	1.0	18.4
South America	4,861	4,524	7.5	5.0
of which Brazil	2,550	2,234	14.2	2.6
ASIA	45,726	46,025	-0.6	47.0
China	28,546	29,465	-3.1	29.4
Japan	5,256	5,224	0.6	5.4
India	4,445	4,052	9.7	4.6
South Korea	1,821	1,798	1.3	1.9
Others: Asia <sup>3</sup>	5,658	5,485	3.1	5.8
MIDDLE EAST/AFRICA	4,297	4,727	-9.1	4.4
WORLD	97,244	97,657	-0.4	100.0

SOURCE: ACEA, IHS MARKIT

Data for Malta not available
 Includes Belarus, Bosnia-Herzegovina, Kazakhstan, North Macedonia, Serbia, Uzbekistan
 3. Includes Hong Kong, Taiwan and all the other South Asian countries



## Europe accounts for 21.6% of the world's motor vehicle sales

N 1				
NAM	passenger	car	redictra	tione
INCVV	passenger	Cai	rcgistia	uons

MARKET SHARES / 2018

Passenger cars In 1,000 units	2018	2017	% change 18/17	% share 2018
EUROPE	18,012	18,035	-0.1	22.9
□ EU¹	15,159	15,137	0.1	19.3
EFTA	466	494	-5.7	0.6
Russia	1,682	1,476	13.9	2.1
Turkey	486	723	-32.7	0.6
Ukraine	77	79	-3.5	0.1
Others: Europe <sup>2</sup>	142	126	13.1	0.2
AMERICA	20,407	20,334	0.4	25.9
North America <sup>3</sup>	16,664	16,849	-1.1	21.2
of which the US	13,910	13,965	-0.4	17.7
South America	3,743	3,485	7.4	4.8
of which Brazil	2,090	1,855	12.7	2.7
ASIA	36,642	37,152	-1.4	46.6
China	23,220	24,016	-3.3	29.5
Japan	4,374	4,377	-0.1	5.6
India	3,464	3,301	4.9	4.4
South Korea	1,520	1,482	2.6	1.9
Others: Asia <sup>4</sup>	4,065	3,977	2.2	5.2
MIDDLE EAST/AFRICA	3,648	4,046	-9.8	4.6
WORLD	78,709	79,566	-1.1	100.0

SOURCE: ACEA, IHS MARKIT

1. Data for Malta not available

Includes Belarus, Bosnia-Herzegovina, Kazakhstan, North Macedonia, Serbia, Uzbekistan
 3. Based on production type
 4. Includes Hong Kong, Taiwan and all the other South Asian countries



New commercial vehicle registrations		MARKET SHARI		
Commercial vehicles <sup>1</sup> in 1,000 units	2018	2017	% change 18/17	% share 2018
EUROPE	2,997	3,011	-0.5	16.2
C EU <sup>2</sup>	2,484	2,405	3.3	13.4
EFTA	85	83	2.7	0.5
Russia	219	212	3.2	1.2
Turkey	157	263	-40.2	0.8
Ukraine	13	11	18.8	0.1
Others: Europe	38	36	5.7	0.2
AMERICA	5,806	5,526	5.1	31.3
North America <sup>3</sup>	4,687	4,487	4.5	25.3
of which the US	3,948	3,721	6.1	21.3
South America	1,118	1,039	7.6	6.0
of which Brazil	461	379	21.4	2.5
ASIA	9,083	8,872	2.4	49.0
China	5,326	5,449	-2.3	28.7
Japan	883	847	4.2	4.8
India	981	752	30.5	5.3
South Korea	301	317	-4.9	1.6
Others: Asia	1,593	1,508	5.6	8.6
MIDDLE EAST/AFRICA	649	681	-4.8	3.5
WORLD	18,535	18,091	2.4	100.0

SOURCE: ACEA, IHS MARKIT

Includes light, medium and heavy commercial vehicles, and buses and coaches
 Data for Malta not available
 3. Based on production type



18.5 million vans, trucks and buses were registered globally in 2018

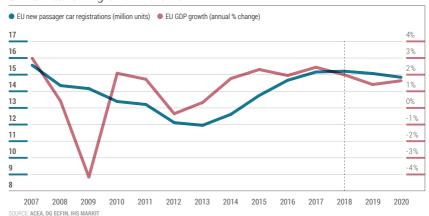
	PC <sup>2</sup>	LCV <sup>3</sup>	CV <sup>4</sup>	BC 5	TOTAL
AUSTRIA	341,068	43,641	8,204	1,125	394,038
BELGIUM	549,632	77,936	10,816	1,060	639,444
BULGARIA	34,332	6,282	_		40,614
CROATIA	59,856	8,901	1,397	224	70,378
CYPRUS	12,956	1,815	121		14,892
CZECH REPUBLIC	261,437	20,225	9,894	1,203	292,759
DENMARK	218,565	33,859	4,998	578	258,000
ESTONIA	25,387	5,012	1,078	137	31,614
FINLAND	120,499	15,515	3,897	475	140,386
FRANCE	2,173,481	457,573	55,463	6,230	2,692,747
GERMANY	3,435,778	285,191	94,404	6,687	3,822,060
GREECE	103,431	6,905	351	263	110,950
HUNGARY	136,594	22,728	6,258	659	166,239
IRELAND	125,557	25,561	2,144	446	153,708
ITALY	1,910,025	181,590	25,582	4,584	2,121,781
LATVIA	16,879	2,393	1,645	126	21,043
LITHUANIA	32,447	3,577	8,290	696	45,010
LUXEMBOURG	52,811	4,853	1,032	217	58,913
NETHERLANDS	443,812	79,171	15,971	562	539,516
POLAND	531,889	68,819	29,870	2,687	633,265
PORTUGAL	228,290	39,282	5,133	510	273,215
ROMANIA	130,919	17,585	6,903	1,324	156,731
SLOVAKIA	98,080	9,126	4,308	351	111,865
SLOVENIA	72,835	12,709	2,761	187	88,492
SPAIN	1,321,438	214,553	24,178	3,327	1,563,496
SWEDEN	353,729	56,628	6,802	931	418,090
UNITED KINGDOM	2,367,147	357,325	51,825	7,236	2,783,533
European Union	15,158,874	2,058,755	383,325	41,825	17,642,779
ICELAND	17,967	1,918	422	109	20,416
NORWAY	147,929	37,204	7,068	1,026	193,227
SWITZERLAND	299,716	32,386	4,389	681	337,172
EFTA	465,612	71,508	11,879	1,816	550,815
EU + EFTA	15,624,486	2,130,263	395,204	43,641	18,193,594
	_				

SOURCE: ACEA

Data for Malta not available
 Passenger cars
 Light commercial vehicles up to 3.5t
 Commercial vehicles over 3.5t (trucks)
 Buses and coaches over 3.5t

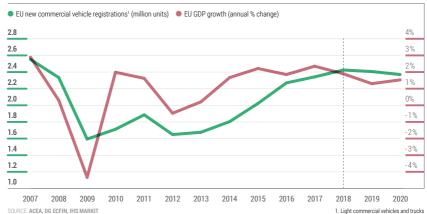
## New passenger car registrations and annual GDP growth in the EU

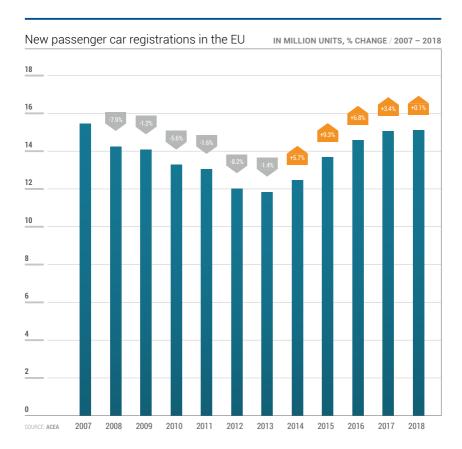
2007 - 2020



## New commercial vehicle registrations and annual GDP growth in the EU

2007 - 2020





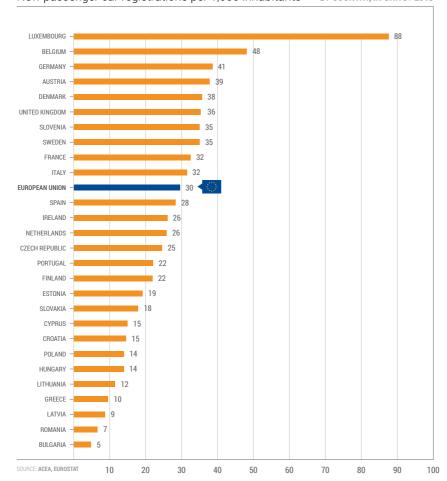


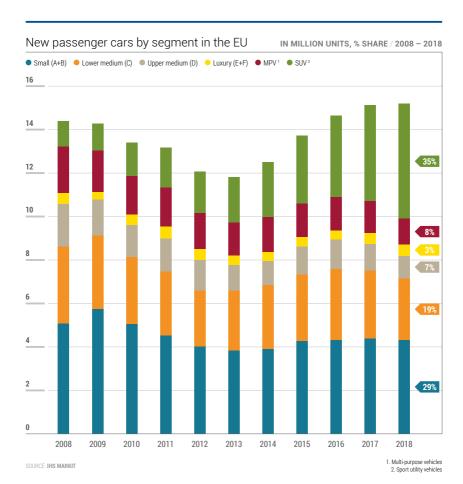


1. Up to 3.5t 2. Trucks, buses and coaches over 3.5t



BY COUNTRY, IN UNITS / 2018





### New passenger cars by fuel type in the EU<sup>1</sup> % SHARE / 2015 - 2018 Petrol Diesel Electrically-chargeable vehicles<sup>2</sup> Hybrid electric vehicles<sup>3</sup> Other than electric <sup>4</sup> Total alternatively-powered vehicles 2018 2017 2.0% 1.5% 3.89 56.7 % 50.3 % 2016 2015 1.1% 1.9% 1.6% 46.6 % 44.2%

SOURCE: ACEA

Data for Croatia, Cyprus, Luxembourg and Malta not available
 Includes battery electric vehicles, extended-range and plug-in hybrid electric vehicles, extended-range and plug-in hybrid electric vehicles
 3. Includes full and mild hybrids
 4. Includes LPG, natural gas and ethanol vehicles

# Trade



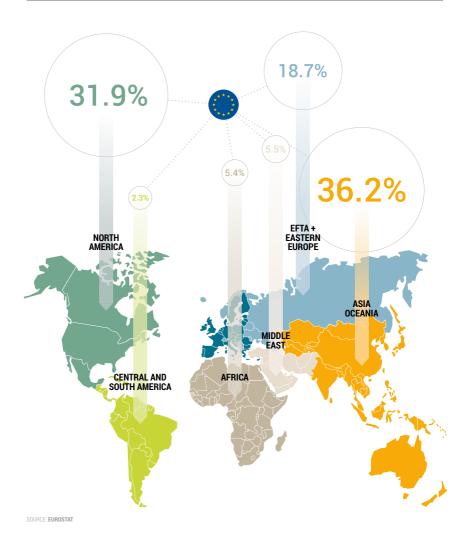






### EU exports of motor vehicles

VALUE MARKET SHARE / 2018



SOURCE: EUROSTAT

SOURCE: EUROSTAT

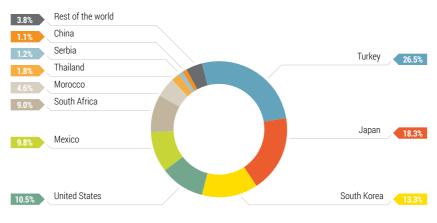
Trade in value	PC 1	LCV <sup>2</sup>	CV & BC 3	TOTAL
2018				
Imports	45,976	5,982	2,044	54,002
Exports	127,572	4,161	6,657	138,390
Trade balance	81,596	-1,822	4,614	84,388
2017				
Imports	44,834	6,065	1,808	52,708
Exports	131,612	4,138	6,663	142,412
Trade balance	86,777	-1,927	4,854	89,704
% change 18/17				
Imports	2.5%	-1.4%	13.0%	2.5%
Exports	-3.1%	0.5%	-0.1%	-2.8%
Trade balance	-6.0%	-5.5%	-5.0%	-5.9%

EU motor vehicle trade By TYPE, IN UNITS / 2018						
Trade in volume	PC 1	LCV <sup>2</sup>	CV & BC <sup>3</sup>	TOTAL		
2018						
Imports	3,650,975	457,172	94,186	4,202,333		
Exports	5,393,499	362,171	302,787	6,058,457		
2017						
Imports	3,341,407	455,359	129,287	3,926,053		
Exports	5,491,782	319,448	177,273	5,988,503		
% change 18/17						
Imports	9.3%	0.4%	-27.1%	7.0%		
Exports	-1.8%	13.4%	70.8%	1.2%		

1. Passenger cars
 2. Commercial vehicles up to 5t
 3. Commercial vehicles over 5t, including buses and coaches

### Countries of origin of EU motor vehicle imports

**VALUE MARKET SHARE / 2018** 



SOURCE: EUROSTAT

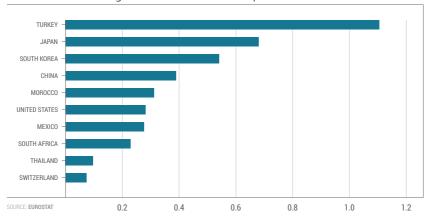
### Main countries of origin of EU motor vehicle imports

BY VALUE, IN MILLION € / 2018

_	2013	2014	2015	2016	2017	2018	% change 18/17	% share 2018
WORLD	28,286	31,327	39,109	45,932	52,708	54,002	2.5	100.0
Turkey	6,760	7,931	9,872	11,961	13,870	14,322	3.3	26.5
Japan	5,911	6,669	7,738	9,196	9,739	9,905	1.7	18.3
South Korea	4,106	4,027	4,354	4,828	6,599	7,195	9.0	13.3
United States	4,349	4,949	7,008	7,302	6,590	5,672	-13.9	10.5
Mexico	1,610	1,075	1,652	2,223	4,744	5,282	11.3	9.8
South Africa	916	1,609	2,757	3,639	3,901	4,862	24.6	9.0
Morocco	917	1,363	1,530	1,742	2,108	2,491	18.2	4.6
Thailand	506	751	931	1,134	1,139	965	-15.3	1.8
Serbia	1,083	1,152	1,049	1,032	854	672	-21.3	1.2
China	313	192	212	284	469	568	21.2	1.1

### Main countries of origin of EU motor vehicle imports

IN MILLION UNITS / 2018



### Main countries of origin of EU motor vehicle imports

IN UNITS / 2018

	2013	2014	2015	2016	2017	2018	% change 18/17	% share 2018
WORLD	2,442,098	2,629,627	3,034,580	3,406,220	3,926,053	4,202,333	7.0	100.0
Turkey	584,697	708,860	842,209	988,571	1,110,899	1,105,881	-0.5	26.3
Japan	384,699	438,278	481,314	580,691	646,679	680,484	5.2	16.2
South Korea	406,381	349,230	376,181	404,067	520,098	541,742	4.2	12.9
China	184,256	191,228	214,486	148,369	223,895	389,932	74.2	9.3
Morocco	99,503	168,995	188,370	217,969	264,607	311,305	17.6	7.4
United States	221,995	243,228	251,581	264,178	258,867	280,687	8.4	6.7
Mexico	107,429	76,142	122,005	138,477	237,580	275,412	15.9	6.6
South Africa	59,515	88,170	141,633	188,629	185,920	229,063	23.2	5.5
Thailand	41,066	68,330	94,917	106,597	106,313	96,086	-9.6	2.3
Switzerland	35,002	41,235	48,471	67,805	71,547	73,116	2.2	1.7

### Destinations for EU motor vehicle exports

VALUE MARKET SHARE / 2018



SOURCE: EUROSTAT

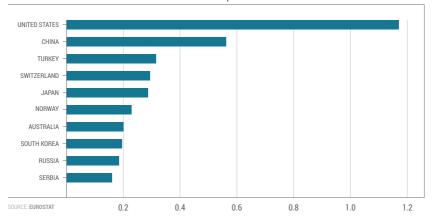
### Main destinations for EU motor vehicle exports

BY VALUE, IN MILLION € / 2018

	2013	2014	2015	2016	2017	2018	% change 18/17	% share 2018
WORLD	123,042	125,278	139,349	135,207	142,412	138,390	-2.8	100.0
United States	28,254	30,234	41,145	38,298	38,983	37,826	-3.0	27.3
China	20,033	23,735	18,137	19,961	22,657	22,935	1.2	16.6
Japan	6,410	6,031	6,507	7,362	8,192	8,442	3.1	6.1
Switzerland	7,092	7,374	8,648	8,269	8,429	8,097	-3.9	5.9
South Korea	3,291	4,937	7,234	6,325	6,840	7,314	6.9	5.3
Australia	4,123	3,958	4,980	5,167	5,373	4,932	-8.2	3.6
Turkey	6,788	5,971	8,577	8,673	7,554	4,840	-35.9	3.5
Norway	4,222	4,110	4,294	4,382	4,843	4,813	-0.6	3.5
Canada	2,970	3,188	3,826	4,094	4,508	4,265	-5.4	3.1
Russia	8,094	5,809	3,892	3,207	3,602	3,814	5.9	2.8

### Main destinations for EU motor vehicle exports

IN MILLION UNITS / 2018



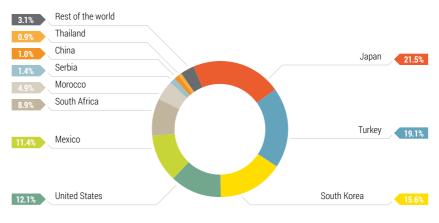
### Main destinations for EU motor vehicle exports

IN UNITS / 2018

2013	2014	2015	2016	2017	2018	% change 18/17	% share 2018
6,695,939	6,064,955	6,084,750	6,255,069	5,988,503	6,058,457	1.2	100.0
963,178	1,010,196	1,271,612	1,201,019	1,190,794	1,169,382	-1.8	19.3
596,703	613,632	472,698	535,005	580,559	561,662	-3.3	9.3
533,957	418,346	592,114	585,256	525,417	315,267	-40.0	5.2
303,550	301,777	331,908	315,256	303,729	293,301	-3.4	4.8
246,658	237,991	250,839	279,788	282,042	286,636	1.6	4.7
227,358	171,125	176,945	181,192	178,077	228,144	28.1	3.8
188,736	183,084	227,920	206,823	210,304	200,325	-4.7	3.3
118,431	177,603	230,811	182,736	190,653	196,009	2.8	3.2
491,888	328,960	191,707	145,352	160,841	185,167	15.1	3.1
115,268	77,930	97,634	129,890	131,266	160,126	22.0	2.6
	6,695,939 963,178 596,703 533,957 303,550 246,658 227,358 188,736 118,431 491,888	6,695,939         6,064,955           963,178         1,010,196           596,703         613,632           533,957         418,346           303,550         301,777           246,658         237,991           227,358         171,125           188,736         183,084           118,431         177,603           491,888         328,960	6,695,939         6,064,955         6,084,750           963,178         1,010,196         1,271,612           596,703         613,632         472,698           533,957         418,346         592,114           303,550         301,777         331,908           246,658         237,991         250,839           227,358         171,125         176,945           188,736         183,084         227,920           118,431         177,603         230,811           491,888         328,960         191,707	6,695,939         6,064,955         6,084,750         6,255,069           963,178         1,010,196         1,271,612         1,201,019           596,703         613,632         472,698         535,005           533,957         418,346         592,114         585,256           303,550         301,777         331,908         315,256           246,658         237,991         250,839         279,788           227,358         171,125         176,945         181,192           188,736         183,084         227,920         206,823           118,431         177,603         230,811         182,736           491,888         328,960         191,707         145,352	6,695,939         6,064,955         6,084,750         6,255,069         5,988,503           963,178         1,010,196         1,271,612         1,201,019         1,190,794           596,703         613,632         472,698         535,005         580,559           533,957         418,346         592,114         585,256         525,417           303,550         301,777         331,908         315,256         303,729           246,658         237,991         250,839         279,788         282,042           227,358         171,125         176,945         181,192         178,077           188,736         183,084         227,920         206,823         210,304           118,431         177,603         230,811         182,736         190,653           491,888         328,960         191,707         145,352         160,841	6,695,939         6,064,955         6,084,750         6,255,069         5,988,503         6,058,457           963,178         1,010,196         1,271,612         1,201,019         1,190,794         1,169,382           596,703         613,632         472,698         535,005         580,559         561,662           533,957         418,346         592,114         585,256         525,417         315,267           303,550         301,777         331,908         315,256         303,729         293,301           246,658         237,991         250,839         279,788         282,042         286,636           227,358         171,125         176,945         181,192         178,077         228,144           188,736         183,084         227,920         206,823         210,304         200,325           118,431         177,603         230,811         182,736         190,653         196,009           491,888         328,960         191,707         145,352         160,841         185,167	2013         2014         2015         2016         2017         2018         18/17           6,695,939         6,064,955         6,084,750         6,255,069         5,988,503         6,058,457         1.2           963,178         1,010,196         1,271,612         1,201,019         1,190,794         1,169,382         -1.8           596,703         613,632         472,698         535,005         580,559         561,662         -3.3           533,957         418,346         592,114         585,256         525,417         315,267         -40.0           303,550         301,777         331,908         315,256         303,729         293,301         -3.4           246,658         237,991         250,839         279,788         282,042         286,636         1.6           227,358         171,125         176,945         181,192         178,077         228,144         28.1           188,736         183,084         227,920         206,823         210,304         200,325         -4.7           118,431         177,603         230,811         182,736         190,653         196,009         2.8           491,888         328,960         191,707         145,352         160,841

### Countries of origin of EU passenger car imports

**VALUE MARKET SHARE / 2018** 



SOURCE: EUROSTAT

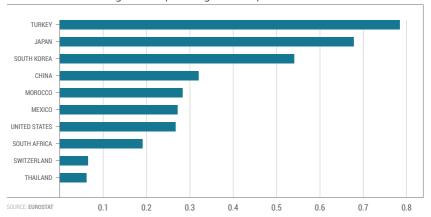
Main countries of origin of EU passenger car imports

BY VALUE, IN MILLION € / 2018

	2013	2014	2015	2016	2017	2018	% change 18/17	% share 2018
WORLD	23,785	26,216	32,530	38,168	44,834	45,976	2.5	100.0
Japan	5,894	6,654	7,718	9,154	9,709	9,882	1.8	21.5
Turkey	3,523	4,374	5,056	6,416	8,579	8,794	2.5	19.1
South Korea	4,091	4,014	4,330	4,812	6,585	7,180	9.0	15.6
United States	4,300	4,911	6,964	7,233	6,420	5,541	-13.7	12.1
Mexico	1,605	1,068	1,642	2,211	4,723	5,247	11.1	11.4
South Africa	586	1,235	2,400	3,104	3,238	4,085	26.1	8.9
Morocco	763	1,225	1,369	1,548	1,907	2,257	18.3	4.9
Serbia	1,081	1,149	1,035	999	844	655	-22.4	1.4
China	259	112	104	136	373	460	23.3	1.0
Thailand	146	218	442	472	458	434	-5.2	0.9

### Main countries of origin of EU passenger car imports

IN MILLION UNITS / 2018



### Main countries of origin of EU passenger car imports

IN UNITS / 2018

9.3	
3.0	100.0
-0.6	21.5
5.3	18.6
4.2	14.8
143.3	8.8
17.7	7.8
15.4	7.4
10.5	7.3
24.1	5.2
2.7	1.8
-3.0	1.7
	5.3 4.2 143.3 17.7 15.4 10.5 24.1 2.7

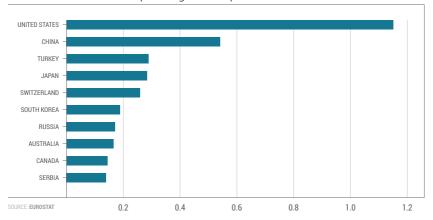
#### Destinations for EU passenger car exports **VALUE MARKET SHARE / 2018** Rest of the world 20.6% Russia Norway 2.9% Australia United States 3.1% Canada 3.1% Turkev 3.4% South Korea Switzerland 5.5% Japan 6.6% China

#### Main destinations for EU passenger car exports BY VALUE, IN MILLION € / 2018 % change % share 2013 2014 2015 2016 2017 2018 18/17 2018 WORLD 129,049 124,850 100.0 111,592 115,117 131,612 127,572 -3.1 United States 27,853 29,779 40,466 37,721 38,344 37,171 -3.1 29.1 China 19,672 23,492 17,948 19,741 22,337 22,341 0.02 17.5 5,999 6,404 6,465 7,340 8,172 8,416 Japan 3.0 6.6 Switzerland 6,193 6,393 7,619 7,332 7,432 7,046 -5.2 5.5 5,791 South Korea 3,127 4.694 6,910 6,314 6.923 9.6 5.4 6.544 Turkey 5.999 5.147 7,454 7,772 4.297 -34.3 3.4 2,849 3,014 3,640 3,904 4,317 4,017 -7.0 Canada 3.1 4,593 4,652 3,951 -15.1 3.1 Australia 3,633 3,482 4,603 3,214 3,183 3,375 3,325 3,745 3,724 -0.6 2.9 Norway 7,049 5,207 3,667 2,926 3,120 3,389 8.6 2.7 Russia

SOURCE: EUROSTAT

### Main destinations for EU passenger car exports

IN MILLION UNITS / 2018



### Main destinations for EU passenger car exports

IN UNITS / 2018

2013	2014	2015	2016	2017	2018	% change 18/17	% share 2018
5,970,395	5,530,256	5,562,996	5,427,788	5,491,782	5,393,499	-1.8	100.0
952,531	998,503	1,223,019	1,170,636	1,176,841	1,152,781	-2.0	21.4
592,053	608,912	469,761	531,336	575,286	544,356	-5.4	10.1
488,138	374,603	531,720	534,170	466,574	290,957	-37.6	5.4
246,550	237,149	247,832	279,198	281,749	285,619	1.4	5.3
275,535	272,946	303,103	282,383	275,097	262,060	-4.7	4.9
116,458	174,614	227,065	176,710	184,805	190,700	3.2	3.5
439,754	302,184	181,457	134,420	147,074	174,528	18.7	3.2
166,766	162,756	206,701	188,598	189,824	168,856	-11.0	3.1
106,098	123,210	131,183	145,364	152,734	145,902	-4.5	2.7
105,595	71,021	88,487	115,587	117,505	142,357	21.1	2.6
	5,970,395 952,531 592,053 488,138 246,550 275,535 116,458 439,754 166,766 106,098	5,970,395         5,530,256           952,531         998,503           592,053         608,912           488,138         374,603           246,550         237,149           275,535         272,946           116,458         174,614           439,754         302,184           166,766         162,756           106,098         123,210	5,970,395         5,530,256         5,562,996           952,531         998,503         1,223,019           592,053         608,912         469,761           488,138         374,603         531,720           246,550         237,149         247,832           275,535         272,946         303,103           116,458         174,614         227,065           439,754         302,184         181,457           166,766         162,756         206,701           106,098         123,210         131,183	5,970,395         5,530,256         5,562,996         5,427,788           952,531         998,503         1,223,019         1,170,636           592,053         608,912         469,761         531,336           488,138         374,603         531,720         534,170           246,550         237,149         247,832         279,198           275,535         272,946         303,103         282,383           116,458         174,614         227,065         176,710           439,754         302,184         181,457         134,420           166,766         162,756         206,701         188,598           106,098         123,210         131,183         145,364	5,970,395         5,530,256         5,562,996         5,427,788         5,491,782           952,531         998,503         1,223,019         1,170,636         1,176,841           592,053         608,912         469,761         531,336         575,286           488,138         374,603         531,720         534,170         466,574           246,550         237,149         247,832         279,198         281,749           275,535         272,946         303,103         282,383         275,097           116,458         174,614         227,065         176,710         184,805           439,754         302,184         181,457         134,420         147,074           166,766         162,756         206,701         188,598         189,824           106,098         123,210         131,183         145,364         152,734	5,970,395         5,530,256         5,562,996         5,427,788         5,491,782         5,393,499           952,531         998,503         1,223,019         1,170,636         1,176,841         1,152,781           592,053         608,912         469,761         531,336         575,286         544,356           488,138         374,603         531,720         534,170         466,574         290,957           246,550         237,149         247,832         279,198         281,749         285,619           275,535         272,946         303,103         282,383         275,097         262,060           116,458         174,614         227,065         176,710         184,805         190,700           439,754         302,184         181,457         134,420         147,074         174,528           166,766         162,756         206,701         188,598         189,824         168,856           106,098         123,210         131,183         145,364         152,734         145,902	2013         2014         2015         2016         2017         2018         18/17           5,970,395         5,530,256         5,562,996         5,427,788         5,491,782         5,393,499         -1.8           952,531         998,503         1,223,019         1,170,636         1,176,841         1,152,781         -2.0           592,053         608,912         469,761         531,336         575,286         544,356         -5.4           488,138         374,603         531,720         534,170         466,574         290,957         -37.6           246,550         237,149         247,832         279,198         281,749         285,619         1.4           275,535         272,946         303,103         282,383         275,097         262,060         -4.7           116,458         174,614         227,065         176,710         184,805         190,700         3.2           439,754         302,184         181,457         134,420         147,074         174,528         18.7           166,766         162,756         206,701         188,598         189,824         168,856         -11.0           106,098         123,210         131,183         145,364         152,734

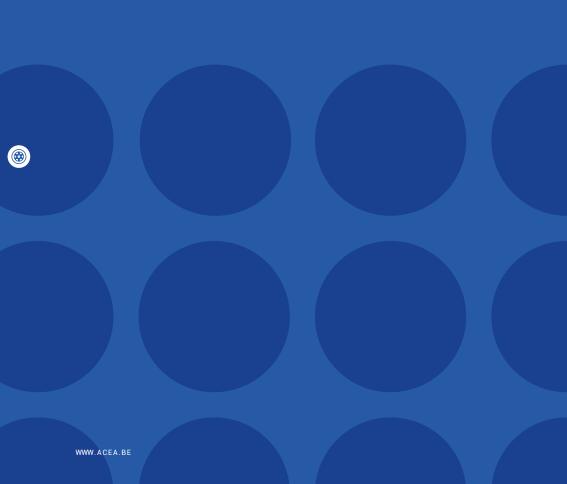
5

THE AUTOMOBILE INDUSTRY POCKET GUIDE 2019/2020

## Vehicles in use

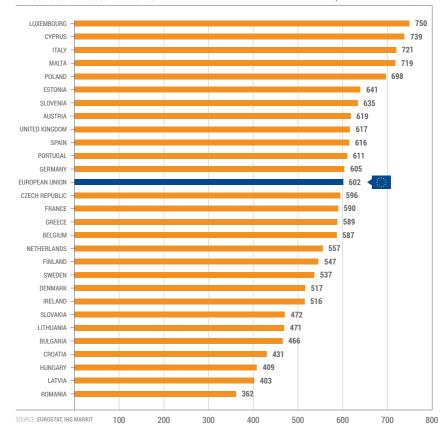


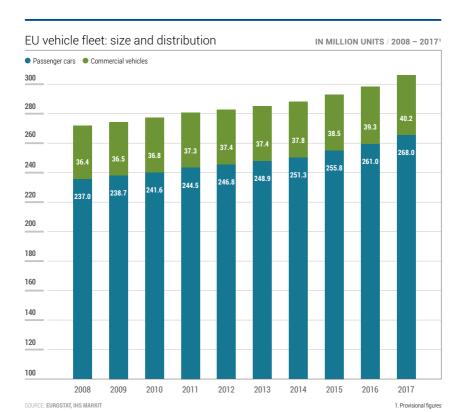






#### VEHICLES PER 1,000 INHABITANTS / 2017





### Average age of the EU vehicle fleet

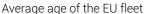
BY COUNTRY, IN YEARS / 20171

 Passenger cars
 Light commercial vehicles
 Heavy commercial vehicles FINLAND 11.2 11.6 12.0 SWEDEN 9.8 > 8.0 > 8.7 15.4 12.7 16.3 ESTONIA 16.1 12.8 13.9 LATVIA DENMARK 8.3 > 8.4 > 7.6 8.8 < 8.8 < 9.2 UNITED KINGDOM 16.9 11.9 11.6 LITHUANIA 8.5 < 8.9 < 10.3 IRELAND 17.3 16.4 16.4 POLAND NETHERLANDS 10.0 8.9 8.0 9.4 < 7.6 < 8.4 GERMANY BELGIUM 7.9 > 8.2 > 9.6 14.7 12.9 13.9 CZECH REPUBLIC LUXEMBOURG 6.4 6.3 6.5 13.7 < 12.6 < 12.5 SLOVAKIA AUSTRIA 9.0 > 8.0 > 8.4 15.3 13.8 12.6 HUNGARY SLOVENIA 11.5 9.0 9.8 16.1 < 15.3 < 15.3 ROMANIA FRANCE 9.3 > 8.6 > 7.1 14.7 12.1 14.4 CROATIA ITALY 11.3 12.4 14.0 12.1 12.6 12.9 SPAIN GREECE 14.6 17.3 18.9 12.9 14.3 13.7 PORTUGAL

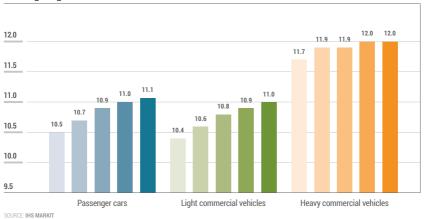
EUROPEAN UNION 2 11.1 11.0 12.0

SOURCE: IHS MARKIT

Provisional figures
 Data for Bulgaria, Cyprus and Malta not available

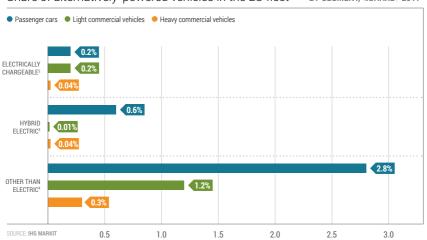


BY VEHICLE TYPE, IN YEARS / 2013 - 20171



Share of alternatively-powered vehicles in the EU fleet

BY SEGMENT, %SHARE / 20171



Provisional figures
 Includes battery electric vehicles, fuel-cell electric vehicles, extended-range and plug in hybrid electric vehicles
 S. Includes full and mild hybrids
 Includes LPG, natural gas and ethanol vehicles

0.04% of all trucks on EU roads are electrically-chargeable

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THE AUTOMOBILE INDUSTRY POCKET GUIDE 2019/2020

## Road safety



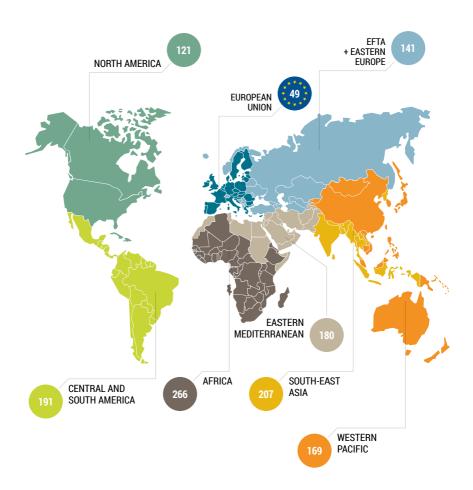






### Road fatalities per million inhabitants

BY REGION 1 / 2016

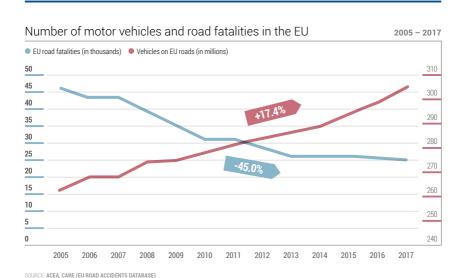


WORLD

182 road fatalities per million inhabitants

SOURCE: CARE (EU ROAD ACCIDENTS DATABASE), WHO (WORLD HEALTH ORGANIZATION)

1. WHO regions



### Number of motor vehicles and road fatalities in the FU

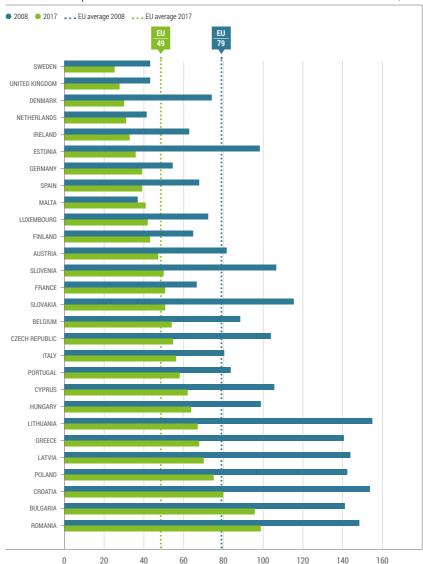
2005 - 2017

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
EU road fatalities (in thousands)	45.9	43.7	43.2	39.6	35.4	31.5	30.7	28.2	26.0	26.0	26.1	25.6	25.3
Vehicles on EU roads (in millions)	262.6	267.8	268.0	273.5	275.2	278.4	281.7	284.2	286.3	289.1	294.4	300.3	308.3

SOURCE: ACEA, CARE (EU ROAD ACCIDENTS DATABASE)

### Road fatalities per million inhabitants

BY COUNTRY / 2008, 2017



SOURCE: CARE (EU ROAD ACCIDENTS DATABASE)

### Road fatality statistics in the EU

BY COUNTRY / 2017

	2017 road fatalities	% change 17 / 16
Austria	414	-4.0
Belgium	615	-3.0
Bulgaria	682	-4.0
Croatia	331	8.0
Cyprus	53	15.0
Czech Republic	577	-6.0
Denmark	175	-17.0
Estonia	48	-32.0
Finland	230	-11.0
France	3,444	-1.0
Germany	3,180	-1.0
Greece	740	-10.0
Hungary	625	3.0
Ireland	159	-15.0
Italy	3,378	3.0
Latvia	136	-14.0
Lithuania	192	0.0
Luxembourg	25	-22.0
Malta	19	-17.0
Netherlands	535	0.0
Poland	2,831	-6.0
Portugal	602	7.0
Romania	1,951	2.0
Slovakia	276	0.0
Slovenia	104	-20.0
Spain	1,830	1.0
Sweden	253	-6.0
United Kingdom	1,856	0.0
European Union	25,261	-1.5
SOURCE: CARE (EU ROAD ACC	CIDENTS DATABASE)	







## Environment





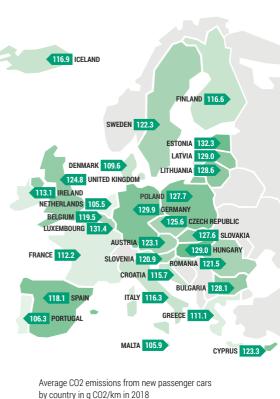




130

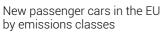
### Average CO2 emissions from new passenger cars, by country IN G CO2/KM / 2018

	2018 average emissions	% change 18 / 17
Austria	123.1	2.0
Belgium	119.5	3.1
Bulgaria	128.1	1.5
Croatia	115.7	2.3
Cyprus	123.3	0.9
Czech Republic	125.6	1.0
Denmark	109.6	2.3
Estonia	132.3	-0.4
Finland	116.6	-1.4
France	112.2	1.6
Germany	129.9	2.2
Greece	111.1	2.1
Hungary	129.0	2.7
Ireland	113.1	1.3
Italy	116.3	2.6
Latvia	129.0	0.1
Lithuania	128.6	0.9
Luxembourg	131.4	3.5
Malta	105.9	-4.0
Netherlands	105.5	-2.6
Poland	127.7	0.01
Portugal	106.3	1.6
Romania	121.5	0.7
Slovakia	127.6	1.2
Slovenia	120.9	1.1
Spain	118.1	2.7
Sweden	122.3	-0.04
United Kingdom	124.8	3.0
European Union	120.6	1.8
Iceland	116.9	
EU28 + Iceland	120.4	

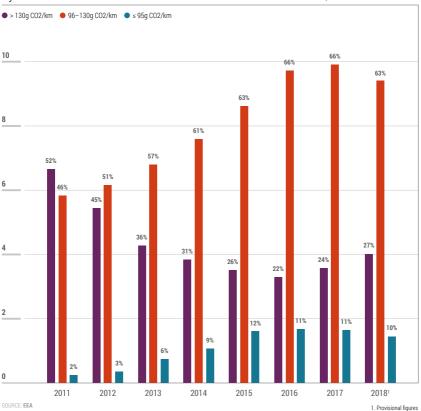


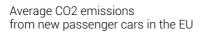
SOURCE: EEA

100

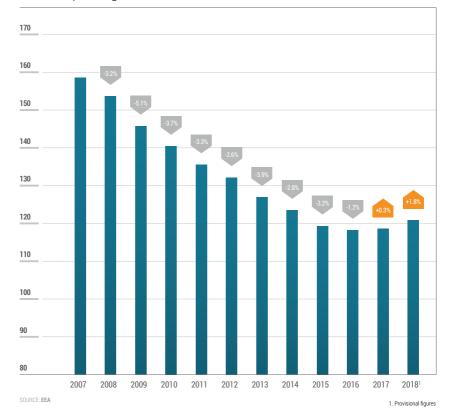


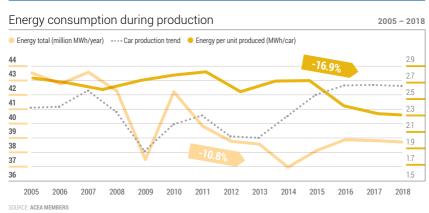
IN MILLION UNITS, % SHARE / 2011 - 2018





IN G CO2/KM, % CHANGE / 2007 - 2018





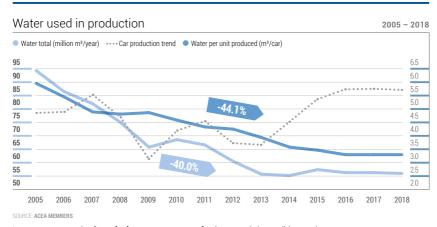
As cars have become equipped with ever more features to make them safer, cleaner and smarter, the complexity of vehicle production has increased. This increase in complexity affects energy demand. Nevertheless, manufacturers have been working continuously to **improve the energy efficiency** of production.

As a result, energy consumption per car produced has been decreased by 16.9% since 2005.

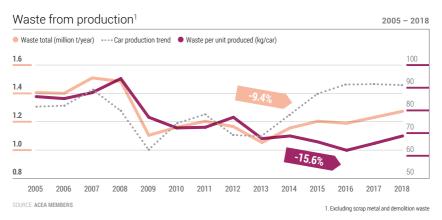


The CO2 emissions per car produced dropped by 34.7% between 2005 and 2018, while the overall figure went down by 29.9% over the same period, reflecting the industry's efforts to reduce CO2 emissions from production. Even though car production has been on the rise again since 2013, manufacturers have been able to decouple CO2 emissions from production growth by increasingly sourcing energy from renewable and/or low-carbon sources. As the chart shows, total CO2 emissions have remained stable despite substantial increase in production volume.

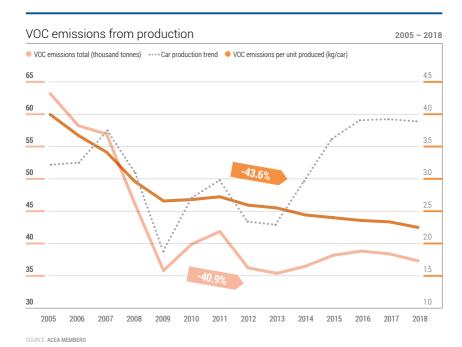
### CO2 emissions per car produced have dropped by 35% since 2005



Long-term strategies for **reducing water consumption** have made it possible to reduce water use per car produced by 44.1% between 2005 and 2018. This includes the increased application of recirculation technologies for the reuse of water.



The **waste generated per unit produced** by the manufacturing of passenger cars went down by 15.6% since records began. Waste fluctuations, both in absolute and per unit terms can be explained by the occurrence of singular events, such as a fall in total production during the economic crisis.



**Volatile organic compounds (VOC)** are organic solvents mainly emitted from paint shops. The graph shows VOC emissions per car produced and the absolute emissions of all car manufacturers combined. With new technologies, such as the replacement of solvent-based paints with solvent-free, water-based equivalents manufacturers have been able to reduce unit emissions by 43.6% over the last 14 years.

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THE AUTOMOBILE INDUSTRY

## Innovation

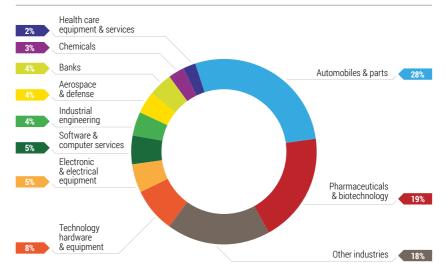






#### R&D shares of sectors in the EU

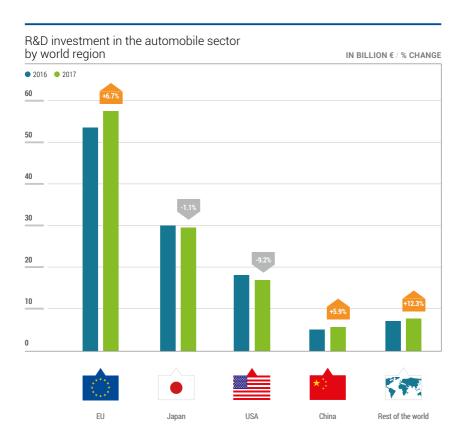
%SHARE / 2017



SOURCE: THE 2018 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD, EUROPEAN COMMISSION

IN BILLION € / 2017
57.4
39.7
36.6
15.8
10.3
9.3
9.0
8.9
8.0
5.4
5.0

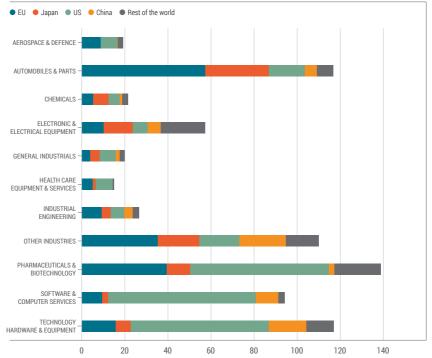
SOURCE: THE 2018 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD, EUROPEAN COMMISSION



SOURCE: THE 2018 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD, EUROPEAN COMMISSION

### R&D investment by industry and world region

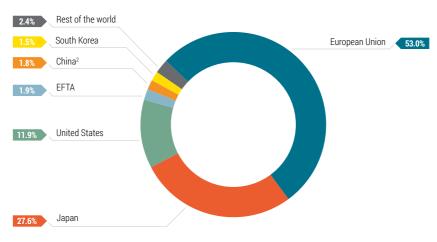
IN BILLION € / 2017



SOURCE: THE 2018 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD, EUROPEAN COMMISSION

### Patents granted in the automotive sector, worldwide 1

% SHARE / 2018



SOURCE: EPO (EUROPEAN PATENT OFFICE)

Automotive patents	BY COUNTRY / 2018
Germany	2,988
France	980
Sweden	444
Italy	403
United Kingdom	340
Rest of the EU	693
EU total	5,848
Japan	3,047
United States	1,314
EFTA countries	205
China <sup>2</sup>	196
South Korea	169
Rest of the world	265
Total	11,044
SOURCE: EPO (FUROPEAN PATENT OFFICE)	

SOURCE: EPO (EUROPEAN PATENT OFFICE)

B60: Vehicles in general

<sup>1.</sup> Includes categories B60, B62, F02 and F16

B62: Land vehicles for travelling otherwise than on rail F02: Combustion engines; hot-gas or combustion-product engine plants

F16: Engineering elements or units; general measures for producing and maintaining effective functioning of machines or installations; thermal insulation in general 2. Includes Taipei

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THE AUTOMOBILE INDUSTRY

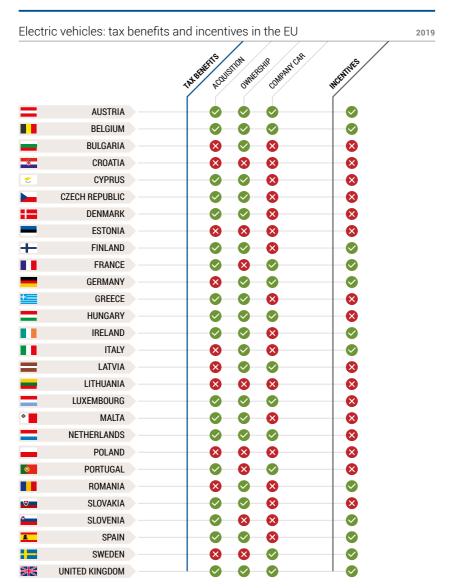
### Taxation











SOURCE: ACEA TAX GUIDE 2019

Overview of	CO2-based	motor	vehicle	tavac	in	the FII
Overview or	COZ-baseu	HOLOI	verilcie	laxes	111	the EU

2019

Overv	new of coz-basi	ed motor verificie taxes in the EO
		Takethe Rodle Hold Cherker College Col
		4 k 0 0
	AUSTRIA	<b>⊘</b> ⊗ ⊘
	BELGIUM	
_	BULGARIA	8 8 8
-8-	CROATIA	<b>⊘</b> ⊗ ⊗
<del>***</del>	CYPRUS	<b>⊘ ⊘ ⊗</b>
	CZECH REPUBLIC	<b>⊘</b> ⊗ ⊗
==	DENMARK	8 8 9
	ESTONIA	8 8 8
+	FINLAND	<b>⊘ ⊘ ⊗</b>
	FRANCE	
	GERMANY	8 9 9
	GREECE	<b>⊘ ⊘ ⊗</b>
	HUNGARY	<b>⊗</b> ⊗ ⊗
	IRELAND	<b>⊘ ⊘ ⊗</b>
	ITALY	<b>⊘</b> ⊗ ⊗
	LATVIA	<b>⊗ ⊗ ⊗</b>
=	LITHUANIA	8 8 8
	LUXEMBOURG	<b>⊗ ⊗ ⊗</b>
0	MALTA	<b>⊘ ⊘ ⊗</b>
Ē	NETHERLANDS	
	POLAND	<b>⊗</b> ⊗ ⊗
8	PORTUGAL	<b>⊘ ⊘ ⊗</b>
	ROMANIA	<b>⊗</b> ⊗ ⊗
⊎	SLOVAKIA	8 8 8
_	SLOVENIA	<b>○</b>
A	SPAIN	
	SWEDEN	<b>○</b>
	UNITED KINGDOM	
	ON TED KINODOW	

SOURCE: ACEA TAX GUIDE 2019

### Fiscal income from motor vehicles in the EU15<sup>1</sup>

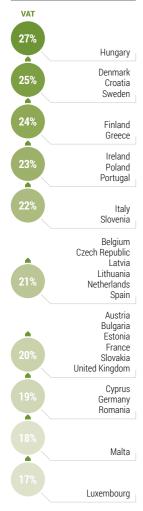
= AT	<b>●</b> BE	DE	<b>⇔</b> DK	■ ES	<b>+</b> FI	() FR
€ bn 2016	€ bn 2017	€ bn 2017	DKK bn 2017	€ bn 2017	€ bn 2017	€ bn 2017
2.9	7.3	30.3	_	_	1.7	17.8
0.4	0.4	_	20.1	4.8	1.0	2.2
2.3	1.7	8.9	10.3	2.8	1.2	0.7
5.1	7.9	42.8	17.3	19.7	4.1	39.2
_	0.02	0.2	_	0.1	_	_
0.3	1.0	4.5	1.5	_	0.4	4.8
2.0	0.7	4.7	0.5	-	-	12.2
_	_	0.6	_	_	_	_
0.3	0.6	_	-	0.8	_	1.9
13.3	19.6	92.0	49.8	28.1	8.3	79.0
13.3	19.6	92.0	6.7	28.1	8.3	79.0
<b>⊕</b> GR	() IE	Оп	⇒ NL	PT	SE SE	<b>₩</b> uk
€ bn 2017	€ bn 2015	€ bn 2017	€ bn 2017	€ bn 2018	SEK bn 2017	£ bn 2017/2018²
_	0.6	18.3	1.3	4.2	25.0	12.5
0.3	0.7	1.8	2.0	0.8		_
1.2	1.1	6.8	4.1	0.6	14.2	6.0
4.2	3.0	35.9	9.8	3.2	45.0	28.1
	_	_	0.3	_	_	_
	_	3.9	1.1	_	2.9	_
-	_	2.1	_	1.1	2.7	_
			_	_	_	_
-	-					
0.1		5.7	1.8		_	1.5
			1.8	9.9	89.8	1.5 <b>48.1</b>
	€ bn 2016  2.9  0.4  2.3  5.1  -  0.3  2.0  -  0.3  13.3  13.3  € GR  € bn 2017	€ bn 2017  2.9 7.3  0.4 0.4  2.3 1.7  5.1 7.9  - 0.02  0.3 1.0  2.0 0.7   0.3 0.6  13.3 19.6  13.3 19.6  € GR	€bn 2017 2017  2.9 7.3 30.3  0.4 0.4 2.3 1.7 8.9  5.1 7.9 42.8  - 0.02 0.2  0.3 1.0 4.5  2.0 0.7 4.7  0.6  0.3 0.6 13.3 19.6 92.0  13.3 19.6 92.0  € GR	€bn	€bn	€ bn 2016         € bn 2017         € bn 2017         DKK bn 2017         € D 2018         € D 2017         € D 2017         € D 2018         € D

### **GRAND TOTAL** = € 427.6 billion

SOURCE: ACEA TAX GUIDE 2019

Latest available data; only country for which sourced data is available are listed
 2. 2012 estimates for income from VAT and other taxes
 3. Euro foreign exchange reference rates at 3 April 2019; source: ECB

### Share of VAT in net price of cars



SOURCE: ACEA TAX GUIDE 2019

### Excise duties on fuels in €/1,000 litres

	UNLEADED PETROL	DIESEL 🗐
Austria	482	397
Belgium	600	600
Bulgaria	363	330
Croatia	519	412
Cyprus	429	400
Czech Republic	498	425
Denmark	626	426
Estonia	563	493
Finland	703	530
France	683	594
Germany	655	470
Greece	700	410
Hungary	380	349
Ireland	588	479
Italy	728	617
Latvia	476	372
Lithuania	434	347
Luxembourg	465	338
Malta	549	472
Netherlands	778	496
Poland	391	343
Portugal	643	486
Romania	437	407
Slovakia	547	393
Slovenia	547	469
Spain	504	379
Sweden	649	457
United Kingdom	651	651
EU minimum rates	359	330

SOURCE: ACEA TAX GUIDE 2019





European Automobile Manufacturers Association

ACEA represents the 15 major Europe-based car, van, truck and bus manufacturers

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