



STATISTICAL POCKETBOOK

2020



# EU TRANSPORT

in figures

**CONNECTING**  
**EUROPE**

Mobility and  
Transport

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## PREFACE

Transport represents a crucial sector of the economy. This publication provides an overview of the most recent and most pertinent annual transport-related statistics in Europe. It covers the European Union and its 27 Member States (EU-27) and, as far as possible, the current EU candidate countries, the EFTA countries and the United Kingdom. As in the reference period (1990-2018) the United Kingdom was part of the European Union, aggregates for the EU-28 are presented whenever possible.

The content of this pocketbook is based on a range of sources, including Eurostat, international organisations and associations, national statistics and, where no data were available, own estimates. Own estimates have mainly been produced to get an idea of the EU total. At the level of individual countries they are merely indicative, and should by no means be interpreted as official data.

In particular, the Commission services would like to thank the following organisations and associations for their valuable contributions and to acknowledge that they agreed to the use of their data:

- **European Automobile Manufacturers' Association (ACEA)**
- **FlightGlobal**
- **International Road Federation (IRF)**
- **International Transport Forum (ITF)**
- **International Union of Railways (UIC)**
- **United Nation Economic Commission for Europe (UNECE).**

The publication consists of three parts:

- (1) a general part with general economic and other relevant data;
- (2) a transport part covering both passenger and freight transport, along with other transport-related data;
- (3) an energy and environmental part with data on the impact the transport sector has on energy use and the environment.

Most of the tables have data up to 2018; where available, more recent data have been provided.

The tables of this pocketbook can also be found on the Europa website at [http://ec.europa.eu/transport/facts-fundings/statistics/index\\_en.htm](http://ec.europa.eu/transport/facts-fundings/statistics/index_en.htm). Many tables on the internet contain more data than could be presented in this pocketbook. The reference sources are more detailed in the Excel tables presented on the internet. Some tables may be updated online before the publication of the next paper version.

Eurostat, the main data provider, can be accessed directly on the internet at: <http://epp.eurostat.ec.europa.eu/>

EEA, the data provider for the environmental part, can be accessed directly on the internet at: <https://www.eea.europa.eu/>

Comments on this publication and suggestions for improving it are appreciated. They should be sent to [move-transport-data@ec.europa.eu](mailto:move-transport-data@ec.europa.eu)

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## SYMBOLS AND ABBREVIATIONS

<b>12</b>	<i>Estimates are printed in italic</i>
<b>%</b>	per cent
<b>—</b>	not applicable, does not exist
<b>blank</b>	data not available
<b>0</b>	zero or figure less than half of unit used
<b>EUR</b>	euro
<b>DG</b>	Directorate-General of the European Commission
<b>dwt</b>	deadweight tonnage (shipping)
<b>GDP</b>	gross domestic product
<b>grt</b>	gross registered tonnage (shipping)
<b>m</b>	1 million
<b>mtow</b>	maximum take-off weight (aircraft)
<b>pkm</b>	passenger-kilometre: a unit of measure: 1 passenger transported a distance of 1 kilometre
<b>PPS</b>	purchasing power standard
<b>TEU</b>	twenty-foot equivalent unit
<b>tkm</b>	tonne-kilometre: a unit of measure: 1 tonne transported a distance of 1 kilometre
<b> </b>	break in horizontal time series
<b>—</b>	break in vertical time series



## COUNTRY ABBREVIATIONS

EUROPEAN UNION MEMBER STATES (EU-27) (ALSO EEA MEMBERS)			
		EU MEMBER STATE SINCE:	
BE	Belgium	1958	
BG	Bulgaria	2007	
CZ	Czechia	2004	
DK	Denmark	1973	
DE	Germany	1958	
EE	Estonia	2004	
IE	Ireland	1973	
EL	Greece	1981	
ES	Spain	1986	
FR	France	1958	
HR	Croatia	2013	
IT	Italy	1958	
CY	Cyprus	2004	
LV	Latvia	2004	
LT	Lithuania	2004	
LU	Luxembourg	1958	
HU	Hungary	2004	
MT	Malta	2004	
NL	Netherlands	1958	
AT	Austria	1995	
PL	Poland	2004	
PT	Portugal	1986	
RO	Romania	2007	
SI	Slovenia	2004	
SK	Slovakia	2004	
FI	Finland	1995	
SE	Sweden	1995	
OTHER EUROPEAN ECONOMIC AREA (EEA) AND IN EFTA (EUROPEAN FREE TRADE AREA)			
IS	Iceland	EEA: 1994	EFTA: 1960
LI	Liechtenstein	EEA: 1994	EFTA: 1991
NO	Norway	EEA: 1994	EFTA: 1960
OTHER EUROPEAN FREE TRADE ASSOCIATION (EFTA)			
CH	Switzerland		EFTA: 1960
EUROPEAN UNION CANDIDATE COUNTRIES			
ME	Montenegro		
MK	North Macedonia		
AL	Albania		
RS	Serbia		
TR	Turkey		
OTHER COUNTRIES			
CN	China		
CS	Czechoslovakia (until 1992)		
JP	Japan		
RU	Russia		
UK	United Kingdom	EU Member 1973–2020	
US	United States		

**NB:** The countries that were Member States of the EU in 1994 became members of the EEA in 1994, those that joined the EU in 1995 had already been EEA members since 1994 and those that joined the EU in 2004 and 2007 became members of the EEA upon accession to the EU. Croatia joined the EEA in 2014. The former GDR is always included in **DE**; unification on 3.10.1990.



PART 1

# GENERAL DATA

99 875  
150  
42.5%  
875

4381.4  
30.5  
111.0  
78.9  
43.1  
357.1  
45.2  
70.3  
64.6  
62.0  
306.0  
70.0  
4.6  
3.3  
64.6  
60.3  
4.6  
93.0  
8.1  
312.7  
15.1  
238.4  
20.3  
31.4  
12.7  
92.1  
238.4  
20.3  
49.0  
338.4  
450.3  
243.8  
13.8  
25.7  
88.4  
785.3  
103.0  
323.8  
41.3

## PART 1

### SUMMARY

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## 1.1.

## General data

	AREA	POPULA- TION	GDP (NOM- INAL)	GDP PER HEAD IN PPS	
	1 000 km <sup>2</sup>	million	billion EUR	EU-27 = 100	
	on 1.1.2019		2018	2017	2018
<b>EU-27</b>	<b>4 226.8</b>	<b>446.825</b>	<b>13 484.9</b>	<b>100</b>	<b>100</b>
<b>EU-28</b>	<b>4 470.6</b>	<b>513.472</b>	<b>15 908.6</b>	<b>101</b>	<b>101</b>
<b>BE</b>	30.5	11.456	459.5	119	118
<b>BG</b>	111.0	7.000	56.1	50	51
<b>CZ</b>	78.9	10.650	207.6	90	91
<b>DK</b>	43.1	5.806	301.3	129	129
<b>DE</b>	357.1	83.019	3 344.4	124	123
<b>EE</b>	45.2	1.325	26.0	79	82
<b>IE</b>	70.3	4.904	324.0	183	191
<b>EL</b>	132.0	10.725	184.7	68	68
<b>ES</b>	506.0	46.937	1 202.2	93	91
<b>FR</b>	633.1	67.013	2 353.1	104	104
<b>HR</b>	56.6	4.076	51.6	62	63
<b>IT</b>	301.3	60.360	1 766.2	98	97
<b>CY</b>	9.3	0.876	21.1	89	90
<b>LV</b>	64.6	1.920	29.1	67	69
<b>LT</b>	65.3	2.794	45.3	79	81
<b>LU</b>	2.6	0.614	60.1	264	263
<b>HU</b>	93.0	9.773	133.8	69	71
<b>MT</b>	0.3	0.494	12.4	97	98
<b>NL</b>	41.5	17.282	774.0	129	130
<b>AT</b>	83.9	8.859	385.7	128	128
<b>PL</b>	312.7	37.973	497.6	70	71
<b>PT</b>	92.1	10.277	204.3	77	77
<b>RO</b>	238.4	19.414	204.6	64	66
<b>SI</b>	20.3	2.081	45.8	86	88
<b>SK</b>	49.0	5.450	89.6	72	73
<b>FI</b>	338.4	5.518	233.6	111	111
<b>SE</b>	450.3	10.230	471.2	123	121
<b>UK</b>	243.8	66.647	2 423.7	108	106
<b>ME</b>	13.8	0.622	4.7	46	48
<b>MK</b>	25.7	2.077	10.7	37	37
<b>AL</b>	28.7	2.862	12.8	31	31
<b>RS</b>	88.4	6.964	42.9	39	40
<b>TR</b>	785.3	82.004	652.5	66	64
<b>IS</b>	103.0	0.357	21.8	130	130
<b>NO</b>	323.8	5.328	367.9	147	153
<b>CH</b>	41.3	8.545	597.0	157	156

**NB:** CY: Area refers to the whole island. FR: Area and population include the five French overseas departments Guyane, Martinique, Mayotte, Guadeloupe and La Réunion. GDP data based on ESA 2010 methodology.

## 1.2.

## Growth in GDP and industrial production

	GROWTH IN GDP Real growth				GROWTH IN INDUSTRIAL PRODUCTION (excl. construction)			
	% CHANGE COMPARED TO PREVIOUS YEAR				% CHANGE COMPARED TO PREVIOUS YEAR			
	2015	2016	2017	2018	2015	2016	2017	2018
<b>EU-27</b>	2.3	2.1	2.7	2.1	2.7	1.7	3.4	1.1
<b>EU-28</b>	2.3	2.0	2.6	2.0	2.5	1.7	3.3	1.0
BE	2.0	1.5	1.9	1.5	-1.2	4.5	2.9	1.1
BG	4.0	3.8	3.5	3.1	2.7	2.8	3.8	0.3
CZ	5.3	2.5	4.4	2.8	4.5	3.0	6.8	3.1
DK	2.3	3.2	2.0	2.4	0.0	3.7	2.3	2.3
DE	1.7	2.2	2.5	1.5	0.9	1.1	3.4	1.0
EE	1.8	2.6	5.7	4.8	-0.2	3.0	4.2	4.1
IE	25.2	3.7	8.1	8.2	35.9	1.8	-2.3	-4.9
EL	-0.4	-0.2	1.5	1.9	1.0	2.6	4.2	1.8
ES	3.8	3.0	2.9	2.4	3.4	1.7	3.2	0.4
FR	1.1	1.1	2.3	1.7	1.5	0.6	2.5	0.4
HR	2.4	3.5	3.1	2.7	2.6	5.0	1.9	-0.9
IT	0.8	1.3	1.7	0.8	1.1	1.9	3.6	0.7
CY	3.4	6.7	4.4	4.1	5.2	9.1	8.1	6.9
LV	3.3	1.8	3.8	4.3	3.4	4.7	8.7	2.0
LT	2.0	2.6	4.2	3.6	4.2	2.7	6.8	5.1
LU	4.3	4.6	1.8	3.1	1.1	0.2	3.7	-1.1
HU	3.8	2.2	4.3	5.1	7.1	0.7	5.4	3.8
MT	10.9	5.8	6.5	7.3	-0.2	-7.3	8.7	1.3
NL	2.0	2.2	2.9	2.6	-3.5	1.3	1.4	0.6
AT	1.0	2.1	2.5	2.4	2.1	2.0	5.9	4.9
PL	3.8	3.1	4.9	5.3	4.8	2.8	6.9	5.7
PT	1.8	2.0	3.5	2.6	2.0	2.4	3.6	0.1
RO	3.9	4.8	7.1	4.4	2.6	3.1	8.6	4.3
SI	2.2	3.1	4.8	4.1	5.0	7.7	8.1	5.3
SK	4.8	2.1	3.0	3.9	6.7	4.6	3.3	4.3
FI	0.5	2.7	3.1	1.6	-0.9	4.1	3.4	3.4
SE	4.4	2.4	2.4	2.2	3.2	1.3	4.8	2.7
UK	2.4	1.9	1.9	1.3	1.0	1.7	2.5	0.3
ME	3.4	2.9	4.7	5.1	7.9	-2.9	-4.2	22.4
MK	3.9	2.8	1.1	2.7	4.9	3.4	0.2	5.4
AL	2.3	3.2	3.8	4.1	-9.2	-19.6	8.6	9.5
RS	1.8	3.3	2.0	4.4	7.3	4.9	4.2	1.4
TR	6.1	3.2	7.5	2.8	5.8	3.4	9.0	1.3
IS	4.7	6.6	4.5	3.8	9.4	-9.0	0.9	0.4
NO	2.0	1.1	2.3	1.3	0.6	-1.6	2.1	1.2
CH	1.3	1.7	1.8	2.8	-2.1	0.0	5.5	5.4

**NB:** Industrial production: includes NACE Rev. 2 Sections B-D. Data adjusted by working days.  
 Growth in GDP section: data calculated according to the ESA 2010 methodology.  
 AL: national sources.  
 Growth in industrial production section: data for the 27 Member States, UK, NO, CH, ME, MK, RS and TR provided by Eurostat. IS estimated, based on OECD. AL data provided by UNECE.

## 1.3. Employment and unemployment

	Employment rate				Unemployment rate			
	%				%			
	2015	2016	2017	2018	2015	2016	2017	2018
<b>EU-27</b>	<b>64.6</b>	<b>65.6</b>	<b>66.7</b>	<b>67.7</b>	<b>10.2</b>	<b>9.3</b>	<b>8.3</b>	<b>7.4</b>
<b>EU-28</b>	<b>65.6</b>	<b>66.6</b>	<b>67.6</b>	<b>68.6</b>	<b>9.6</b>	<b>8.7</b>	<b>7.8</b>	<b>7.0</b>
BE	61.8	62.3	63.1	64.5	8.6	7.9	7.1	6.0
BG	62.9	63.4	66.9	67.7	9.2	7.7	6.2	5.3
CZ	70.2	72.0	73.6	74.8	5.1	4.0	2.9	2.3
DK	72.0	72.7	73.2	74.1	6.5	6.2	6.0	5.3
DE	74.0	74.7	75.2	75.9	4.7	4.2	3.8	3.5
EE	71.9	72.1	74.1	74.8	6.3	7.0	5.9	5.4
IE	64.8	66.4	67.7	68.6	10.1	8.6	6.9	5.9
EL	50.8	52.0	53.5	54.9	25.1	23.7	21.7	19.5
ES	57.8	59.5	61.1	62.4	22.2	19.7	17.3	15.4
FR	63.8	64.2	64.7	65.3	10.4	10.1	9.5	9.1
HR	56.0	56.9	58.9	60.6	16.4	13.3	11.3	8.5
IT	56.3	57.2	58.0	58.5	12.1	11.9	11.4	10.8
CY	62.7	63.7	65.6	68.6	15.2	13.2	11.3	8.6
LV	68.1	68.7	70.1	71.8	10.1	9.9	8.9	7.6
LT	67.2	69.4	70.4	72.4	9.3	8.1	7.3	6.3
LU	66.1	65.6	66.3	67.1	6.7	6.3	5.5	5.6
HU	63.9	66.5	68.2	69.2	6.8	5.1	4.2	3.7
MT	65.1	67.2	69.2	71.9	5.4	4.7	4.1	3.7
NL	74.1	74.8	75.8	77.2	6.9	6.1	4.9	3.8
AT	71.1	71.5	72.2	73.0	5.8	6.1	5.6	4.9
PL	62.9	64.5	66.1	67.4	7.6	6.2	5.0	3.9
PT	63.9	65.2	67.8	69.7	12.9	11.5	9.2	7.3
RO	61.4	61.6	63.9	64.8	7.0	6.1	5.1	4.3
SI	65.2	65.8	69.3	71.1	9.1	8.1	6.7	5.2
SK	62.7	64.9	66.2	67.6	11.5	9.7	8.2	6.6
FI	68.5	69.1	70.0	72.1	9.6	9.0	8.8	7.5
SE	75.5	76.2	76.9	77.4	7.6	7.1	6.9	6.5
UK	72.7	73.5	74.1	74.7	5.4	4.9	4.4	4.1
ME	51.4	52.0	53.1	54.7	17.8	18.0	16.4	15.5
MK	47.8	49.1	50.5	51.7	26.3	24.0	22.5	21.0
AL	52.9	55.9	57.4	59.5	17.5	15.6	14.1	12.8
RS	52.1	55.2	57.3	58.8	18.2	15.9	14.1	13.3
TR	50.2	50.6	51.5	52.0	10.4	11.1	11.1	11.1
IS	84.7	86.6	86.1	85.1	4.2	3.1	2.9	2.8
NO	74.8	74.3	74.0	74.8	4.4	4.8	4.3	3.9
CH	79.2	79.6	79.8	80.1	4.9	5.1	5.0	4.9

**NB:** Employment rate: persons in employment as a percentage of the population of working age (15–64 years).

Unemployment rate: persons unemployed as a percentage of the active population (between 15 and 64 years old).

## 1.4. Share of gross value added and employment BY SECTOR

2018

	SHARE OF GROSS VALUE ADDED (%)			SHARE OF EMPLOYMENT (%)		
	AGRI-CULTURE	INDUSTRY	SERVICES	AGRI-CULTURE	INDUSTRY	SERVICES
<b>EU-27</b>	<b>1.8</b>	<b>25.5</b>	<b>72.7</b>	<b>4.7</b>	<b>22.6</b>	<b>72.7</b>
<b>EU-28</b>	<b>1.7</b>	<b>25.0</b>	<b>73.3</b>	<b>4.4</b>	<b>21.7</b>	<b>73.9</b>
BE	0.6	21.4	78.0	1.2	17.5	81.3
BG	3.9	25.8	70.3	17.7	25.5	56.8
CZ	2.2	35.8	62.0	3.0	36.5	60.6
DK	1.2	24.4	74.4	2.3	17.2	80.5
DE	0.9	30.5	68.7	1.4	24.1	74.5
EE	3.1	27.7	69.2	3.3	28.6	68.1
IE	1.0	39.3	59.7	4.9	18.0	77.1
EL	4.3	17.5	78.2	11.4	14.1	74.5
ES	3.1	22.1	74.8	4.0	17.5	78.5
FR	1.8	19.0	79.2	2.7	16.5	80.8
HR	3.5	24.8	71.7	6.2	27.3	66.5
IT	2.2	23.9	73.9	3.7	22.9	73.4
CY	2.3	14.1	83.6	3.5	17.2	79.3
LV	4.1	22.3	73.6	7.3	23.4	69.3
LT	3.2	28.4	68.4	7.1	25.8	67.1
LU	0.3	13.0	86.7	0.8	18.6	80.6
HU	4.2	30.1	65.7	4.1	28.7	67.2
MT	1.0	13.8	85.2	1.5	17.1	81.5
NL	1.8	20.0	78.1	2.1	14.2	83.6
AT	1.3	28.8	69.9	3.5	22.6	73.9
PL	2.6	32.6	64.8	9.6	31.5	59.0
PT	2.4	22.2	75.5	8.6	23.1	68.3
RO	4.8	31.3	63.9	22.9	29.8	47.3
SI	2.4	32.7	64.9	7.2	29.7	63.1
SK	2.6	32.7	64.7	3.0	31.4	65.6
FI	2.8	27.8	69.4	3.3	22.6	74.1
SE	1.6	25.5	73.0	2.0	19.9	78.1
UK	0.7	19.6	79.7	1.2	16.3	82.5
ME	8.2	19.5	72.3	7.1	19.2	73.7
MK	9.8	27.5	62.6	14.7	31.8	53.5
AL	21.1	24.3	54.6	37.4	19.8	42.9
RS	7.7	30.8	61.6	13.9	28.1	58.0
TR	6.5	32.9	60.6	17.0	27.3	55.7
IS	4.4	22.1	73.5	3.6	19.5	76.9
NO	2.1	36.1	61.8	2.3	19.4	78.3
CH	0.7	25.8	73.6	3.0	20.8	76.2

**NB:** Agriculture covers agriculture, hunting, forestry and fishing.  
 Industry includes mining and quarrying, manufacturing, energy, gas and water supply, and construction.  
 All other sectors are included in services.  
 ME, MK, RS, TR: data on employment: Eurostat [lfsa\_egan2]; AL 2017: national sources.



## 1.5.

## Population

AT 1 JANUARY								
	million							%
	1990	2000	2005	2010	2015	2018	2019	Change 18/19
<b>EU-27</b>	<b>418.004</b>	<b>428.474</b>	<b>434.416</b>	<b>440.660</b>	<b>443.667</b>	<b>446.098</b>	<b>446.825</b>	<b>0.2</b>
<b>EU-28</b>	<b>475.161</b>	<b>487.259</b>	<b>494.598</b>	<b>503.171</b>	<b>508.542</b>	<b>512.372</b>	<b>513.472</b>	<b>0.2</b>
BE	9.948	10.239	10.446	10.840	11.237	11.399	11.456	0.5
BG	8.767	8.191	7.689	7.422	7.202	7.050	7.000	-0.7
CZ	10.362	10.278	10.199	10.462	10.538	10.610	10.650	0.4
DK	5.135	5.330	5.411	5.535	5.660	5.781	5.806	0.4
DE	79.113	82.163	82.501	81.802	81.198	82.792	83.019	0.3
EE	1.571	1.401	1.359	1.333	1.315	1.319	1.325	0.4
IE	3.507	3.778	4.112	4.549	4.678	4.830	4.904	1.5
EL	10.121	10.776	10.970	11.119	10.858	10.741	10.725	-0.2
ES	38.826	40.470	43.296	46.487	46.450	46.658	46.937	0.6
FR	56.577	60.545	62.773	64.659	66.458	66.919	67.013	0.1
HR	4.773	4.498	4.311	4.303	4.225	4.105	4.076	-0.7
IT	56.694	56.924	57.875	59.190	60.796	60.484	60.360	-0.2
CY	0.573	0.690	0.733	0.819	0.847	0.864	0.876	1.3
LV	2.668	2.382	2.250	2.121	1.986	1.934	1.920	-0.7
LT	3.694	3.512	3.355	3.142	2.921	2.809	2.794	-0.5
LU	0.379	0.434	0.461	0.502	0.563	0.602	0.614	2.0
HU	10.375	10.222	10.098	10.014	9.856	9.778	9.773	-0.1
MT	0.352	0.389	0.403	0.414	0.440	0.476	0.494	3.8
NL	14.893	15.864	16.306	16.575	16.901	17.181	17.282	0.6
AT	7.645	8.002	8.201	8.352	8.585	8.822	8.859	0.4
PL	38.038	38.263	38.174	38.023	38.006	37.977	37.973	0.0
PT	9.996	10.249	10.495	10.573	10.375	10.291	10.277	-0.1
RO	23.211	22.455	21.382	20.295	19.871	19.531	19.414	-0.6
SI	1.996	1.988	1.998	2.047	2.063	2.067	2.081	0.7
SK	5.288	5.399	5.373	5.390	5.421	5.443	5.450	0.1
FI	4.974	5.171	5.237	5.351	5.472	5.513	5.518	0.1
SE	8.527	8.861	9.011	9.341	9.747	10.120	10.230	1.1
UK	57.157	58.785	60.182	62.510	64.875	66.274	66.647	0.6
ME		0.603	0.613	0.619	0.622	0.622	0.622	0.0
MK	1.873	2.022	2.035	2.053	2.069	2.075	2.077	0.1
AL	3.287	3.058	3.135		2.892	2.870	2.862	-0.3
RS		7.528	7.456	7.307	7.114	7.001	6.964	-0.5
TR	55.495	66.889	68.010	72.561	77.696	80.811	82.004	1.5
IS	0.254	0.279	0.294	0.318	0.329	0.348	0.357	2.5
LI	0.028	0.032	0.035	0.036	0.037	0.038	0.038	0.7
NO	4.233	4.478	4.606	4.858	5.166	5.296	5.328	0.6
CH	6.674	7.164	7.415	7.786	8.238	8.484	8.545	0.7

NB: DE: population: 1990 = 16.1

CY: from 1975 onwards: government-controlled area only.

FR: as from 1991 includes the four French overseas departments, Guyane, Martinique, Guadeloupe and La Réunion and as from 2015 includes Mayotte as well.

## 1.6a. Member States external trade of goods

### IMPORTS

#### VALUE (billion EUR) FOR 2018

	IMPORTS FROM:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 5	EFTA	CHINA	UNITED STATES	UNITED KINGDOM	RUSSIA	JAPAN
<b>EU-27</b>	4866.716	2959.016	1907.700	84.336	166.853	341.852	213.294	196.577	160.902	59.431
<b>BE</b>	384.972	230.758	154.214	5.243	11.528	15.295	26.287	17.885	10.049	9.314
<b>BG</b>	32.084	19.912	12.171	2.921	0.273	1.318	0.290	0.492	3.125	0.140
<b>CZ</b>	156.458	116.206	40.251	1.650	1.089	13.174	2.994	3.525	2.920	1.557
<b>DK</b>	86.814	57.668	29.147	1.000	6.347	6.093	2.513	3.146	1.710	0.354
<b>DE</b>	1087.431	681.781	405.650	18.486	53.949	75.503	48.593	40.765	32.878	16.734
<b>EE</b>	16.218	11.995	4.222	0.089	0.203	0.691	0.168	0.429	1.446	0.050
<b>IE</b>	91.410	34.717	56.693	0.448	1.654	3.599	16.843	23.631	0.549	0.880
<b>EL</b>	54.061	27.034	27.027	2.426	0.512	3.445	0.690	1.369	4.141	0.240
<b>ES</b>	330.636	180.822	149.814	7.376	6.282	22.579	11.029	13.447	2.963	3.286
<b>FR</b>	568.339	369.370	198.969	7.441	18.684	29.369	28.559	23.068	9.550	5.865
<b>HR</b>	23.887	18.261	5.625	1.043	0.235	0.816	0.180	0.296	0.385	0.037
<b>IT</b>	426.046	239.454	186.592	12.175	12.410	30.889	15.958	11.265	14.970	3.764
<b>CY</b>	9.166	4.672	4.494	0.077	0.077	0.388	0.087	0.605	0.115	0.076
<b>LV</b>	16.696	12.036	4.660	0.114	0.173	0.491	0.267	0.457	1.380	0.026
<b>LT</b>	30.943	20.456	10.486	0.208	0.499	0.864	0.410	0.856	4.395	0.047
<b>LU</b>	20.345	17.608	2.737	0.033	0.125	0.464	0.810	0.241	0.012	0.435
<b>HU</b>	103.057	75.250	27.807	2.478	0.556	6.450	1.427	1.881	4.873	1.235
<b>MT</b>	5.734	3.620	2.114	0.120	0.045	0.212	0.119	0.513	0.005	0.066
<b>NL</b>	546.827	219.812	327.014	4.795	24.730	85.523	39.137	29.791	24.293	10.171
<b>AT</b>	164.008	124.276	39.732	2.057	7.792	5.450	3.872	2.984	2.680	1.055
<b>PL</b>	227.796	153.536	74.260	2.802	2.607	17.976	4.512	5.944	15.955	1.383
<b>PT</b>	75.364	55.220	20.143	0.904	0.485	2.350	1.411	1.893	1.292	0.378
<b>RO</b>	82.829	60.124	22.705	4.565	0.476	4.407	0.885	1.746	3.119	0.349
<b>SI</b>	35.803	23.635	12.168	3.236	0.897	1.777	0.559	0.442	0.399	0.096
<b>SK</b>	78.727	61.814	16.914	0.882	0.370	2.842	0.346	0.966	3.948	0.153
<b>FI</b>	66.577	44.989	21.588	0.408	2.081	2.131	1.387	1.727	9.199	0.335
<b>SE</b>	144.489	93.987	50.502	1.358	12.773	7.756	3.964	7.215	4.551	1.408

**NB:** Candidate 5: Albania, Serbia, North Macedonia, Montenegro and Turkey.  
EFTA: Iceland, Liechtenstein, Norway and Switzerland.

## 1.6b. Member States external trade of goods

### EXPORTS

#### VALUE (billion EUR) FOR 2018

	EXPORTS TO:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 5	EFTA	UNITED STATES	UNITED KINGDOM	CHINA	RUSSIA	JAPAN
EU-27	5074.731	3014.725	2060.006	92.701	189.209	351.205	319.885	187.962	82.305	57.811
BE	396.613	258.131	138.481	5.965	6.930	20.546	31.280	6.958	3.613	3.210
BG	28.496	18.579	9.917	3.142	0.205	0.536	0.697	0.764	0.407	0.043
CZ	171.260	136.544	34.716	2.648	3.081	3.504	7.947	2.130	3.456	0.769
DK	92.926	50.430	42.497	1.014	6.936	7.527	6.484	3.797	0.828	1.866
DE	1320.732	696.617	624.115	23.888	64.212	114.530	82.130	93.648	25.955	20.810
EE	14.421	9.492	4.929	0.159	0.681	0.929	0.318	0.185	0.871	0.071
IE	139.637	54.133	85.504	0.658	6.862	39.193	15.861	4.610	0.520	3.256
EL	33.451	16.460	16.991	3.784	0.231	1.371	1.211	0.901	0.231	0.121
ES	293.459	174.671	118.788	5.348	5.488	12.779	20.286	6.277	2.026	2.529
FR	492.584	257.678	234.905	6.661	18.118	38.663	32.991	20.851	5.356	6.673
HR	14.750	9.783	4.968	1.209	0.257	0.341	0.219	0.133	0.148	0.054
IT	465.325	239.283	226.043	12.334	24.219	42.406	23.798	13.127	7.567	6.465
CY	4.252	1.083	3.169	0.013	0.248	0.084	0.168	0.064	0.021	0.001
LV	13.703	8.413	5.291	0.144	0.388	0.517	0.731	0.162	1.841	0.055
LT	28.271	15.551	12.721	0.252	0.984	1.417	1.077	0.189	3.962	0.308
LU	13.825	11.185	2.640	0.177	0.246	0.373	0.460	0.222	0.134	0.078
HU	106.498	83.277	23.221	3.716	1.022	2.501	3.872	1.501	1.532	0.462
MT	2.704	1.438	1.266	0.016	0.022	0.136	0.062	0.033	0.001	0.236
NL	615.601	406.551	209.050	6.863	12.986	26.414	50.505	12.730	6.065	4.454
AT	156.429	107.352	49.076	2.273	8.239	9.939	4.321	4.257	2.124	1.475
PL	223.213	165.934	57.279	3.530	4.669	6.137	13.923	2.112	6.752	0.565
PT	57.807	40.332	17.475	0.489	0.759	2.873	3.668	0.658	0.201	0.148
RO	67.425	49.096	18.329	3.071	0.983	1.311	2.881	0.645	1.068	0.249
SI	37.423	27.935	9.488	2.028	0.905	0.580	0.600	0.528	0.802	0.119
SK	79.137	64.072	15.065	1.009	1.388	2.593	3.572	1.350	1.543	0.103
FI	64.236	35.037	29.199	0.780	2.527	4.459	2.847	3.581	3.335	1.530
SE	140.552	75.667	64.885	1.530	16.622	9.546	7.978	6.548	1.948	2.161

**NB:** Candidate 5: Albania, Serbia, North Macedonia, Montenegro and Turkey.  
EFTA: Iceland, Liechtenstein, Norway and Switzerland.

## 1.7. Comparison EU-27 – world

(DATA FOR 2018)

	EU-27	UNITED KINGDOM	UNITED STATES	JAPAN	CHINA	RUSSIA
<b>Population</b> million	446.5	66.5	326.7	126.5	1 392.7	144.5
<b>Population growth</b> % change since previous year	0.1	0.6	0.5	–0.2	0.5	0.0
<b>Urban population</b> % of total	75	83	82	92	59	74
<b>Area</b> thousand km <sup>2</sup>	4 384	244	9 832	378	9 563	17 098
<b>Population density</b> Persons/km <sup>2</sup>	105	275	36	347	148	9
<b>GDP (nominal)</b> billion EUR	13 485	2 525	17 405	4 212	11 529	1 404
<b>Real GDP growth</b> %	2.1	1.4	2.9	0.8	6.6	2.3
<b>Relative GDP per capita</b> in PPS (EU-27 = 100)	100	106	142	94	35	64
<b>Exports of goods</b> billion EUR	2 060	419	1 418	623	2 048	375
<b>Imports of goods</b> billion EUR	1 908	616	2 170	614	1 713	211

**NB:** EU-27: area, population: including French overseas departments.  
EU-27: trade: only extra-EU trade.

PART 2

# TRANSPORT



## PART 2

### SUMMARY

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## 2.1.1. Statistical overview EU transport

### Gross value added:

With around EUR 599 billion in gross value added (GVA) at current prices, the transport and storage services sector (including postal and courier activities) accounted for about 5 % of total GVA in the EU-27 in 2018 <sup>(1)</sup>. It should be noted, however, that this figure only includes the GVA of companies whose main activity is the provision of transport (and transport-related) services and that own account transport operations are not included.

### Employment:

In 2018, the transport and storage services sector (including postal and courier activities) in the EU-27 employed around 10.3 million people <sup>(2)</sup>, some 5.3 % of the total workforce <sup>(3)</sup>. Around 52 % of them worked in land transport (road, rail and pipelines), 3 % in water transport (sea and inland waterways), 4 % in air transport and 27 % in warehousing and supporting and transport activities (such as cargo handling, storage and warehousing) and the remaining 14 % in postal and courier activities.

### Household expenditure:

In 2018, private households in the EU-27 spent EUR 931 billion or roughly 13 % of their total consumption on transport-related items. Around 30 % of this sum (around EUR 262 billion) was used to purchase vehicles, around half (EUR 510 billion) was spent on the operation of personal transport equipment (e.g. to buy fuel for the car) and the rest (EUR 159 billion) was spent for transport services (e.g. bus, train, plane tickets).

### Goods transport:

In 2018, total goods transport activities in the EU-27 are estimated to amount to 3 353 billion tkm. This figure includes intra-EU air and sea transport but not transport activities between the EU and the rest of the world. Road transport accounted for 51 % of this total, rail for 12.6 %, inland waterways for 4 % and oil pipelines for 3.1 %. Intra-EU maritime transport was the second most important mode with a share of 29.2 % while intra-EU air transport only accounted for 0.1 % of the total.

### Passenger transport:

In 2018, total passenger transport activities in the EU-27 by any motorised means of transport are estimated to amount to 5 916 billion pkm or on average around 13 251 km per person. This figure includes intra-EU air and sea transport but not transport activities between the EU and the rest of the world. Passenger cars accounted for 71.7 % of this total, powered two-wheelers for 1.8 %, buses and coaches for 8 %, railways for 6.9 % and trams and metros for 1.5 %. Intra-EU air and intra-EU maritime transport contributed for 9.6 % and 0.4 % respectively.

- NB:**
- (1) The transport share amounts of 4.6 % of total GVA if postal and courier activities are not included. Estimations based on Eurostat national accounts.
  - (2) Figures on number of people employed in transport, total workforce and shares per mode based on Eurostat labour force survey (age 15–64 years).
  - (3) 4.5 % of total employment if postal and courier activities are not included.

## 2.1.1. Statistical overview EU transport

### Safety:

**Road:** 23 374 people were killed in road accidents (fatalities within 30 days) in 2018, slightly less than in 2017 (when 23 394 people lost their lives). In comparison with 2001, the number of road fatalities was lower by more than half (– 54.5 %).

**Rail:** 13 passengers lost their lives in 2018; this figure does not include casualties among railway employees or other people run over by trains.

**Air:** No life was lost in 2019.

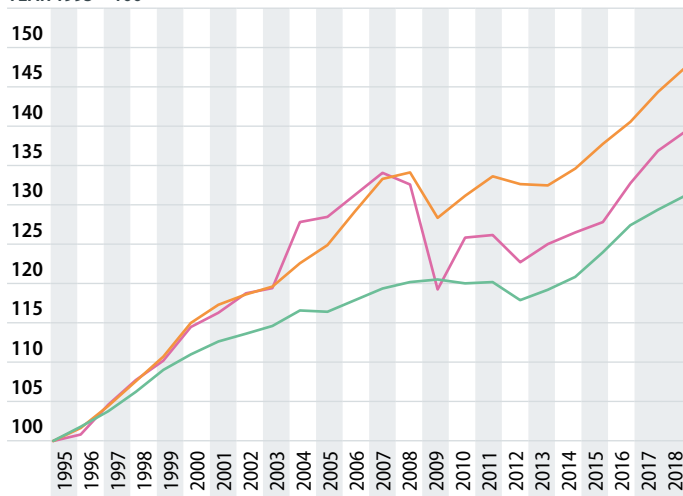


## 2.1.2.

## Transport growth EU-27

## PASSENGERS, GOODS, GDP 1995–2018

YEAR 1995 = 100

PASSENGERS <sup>(1)</sup> (pkm)GOODS <sup>(2)</sup> (tkm)

GDP (AT CONSTANT YEAR 2005 PRICES)

**NB:** <sup>(1)</sup> Passenger cars, powered two-wheelers, buses and coaches, trams and metros, railways, intra-EU air, intra-EU sea.  
<sup>(2)</sup> Road, rail, inland waterways, oil pipelines, intra-EU air, intra-EU sea.  
 GDP: at constant year 2005 prices and exchange rates.

## ANNUAL GROWTH RATES EU-27

	1995–2018 p.a.	2000–2018 p.a.	2017–2018
GDP at year 2005 prices and exchange rates	1.7 %	1.3 %	2.1 %
Passenger transport (pkm)	1.2 %	0.9 %	1.3 %
Freight transport (tkm)	1.5 %	1.0 %	1.8 %

## 2.1.3.

## Road transport

## SPEED LIMITS, BLOOD ALCOHOL LIMITS

	SPEED LIMIT, CARS (IN GENERAL), km/h			Blood alcohol limit, grams of alcohol in 1 litre of blood
	Built-up areas	Outside built-up areas	Motorways	
BE	50	70/90/120	120	0.5
BG	50	80/90	100	0.5
CZ	50	90/110	130	0.0
DK	50	80	130	0.5
DE	50	100	(130)	0.5
EE	50	90	—	0.2
IE	50	80/100	120	0.5
EL	50	90/110	130	0.5
ES	50	90	120	0.5
FR	50	80/90/110	130	0.5
HR	50	90	130	0.5
IT	50	90	130	0.5
CY	30/50	80	100	0.5
LV	50	90	—	0.5
LT	50	70/90	110/130	0.4
LU	50	90	130	0.5
HU	50	90/110	130	0.0
MT	50	80	—	0.8
NL	50	80/100	120/130	0.5
AT	50	100	130	0.5
PL	50/60	90/100	120/140	0.2
PT	50	90/100	120	0.5
RO	50	90/100	130	0.0
SI	50	90/110	130	0.5
SK	50	90	130	0.0
FI	50	80	80/120	0.22
SE	50	70	110	0.2
UK	48	96	112	0.8
ME	50	80/100	130	0.5
MK	50	80/100	120	0.5
AL	40	80/90	110	0.1
RS	50	80/100	120	0.2
TR	50	90/110	120	0.5
IS	50	80/90	—	0.5
NO	50	80	100	0.2
CH	50	80/100	120	0.5

**NB:** IE, CY, MT and UK drive on the left-hand side of the road, the other Member States drive on the right-hand side (Sweden since 3 September 1967). Signs in UK are in miles per hour.

The reported speed limits refer to general circumstances. Different speed limits might apply in residential or pedestrian areas, on the basis of weather conditions, the time of day, the vehicle driven, the season, the visibility or unless otherwise stated by traffic signs. The higher figure shown in the 'outside built-up areas' column generally refers to the speed limit on dual carriageways that are not motorways.

**Speed limits:** BE: 70 km/h outside built-up areas in the Flemish region.

DE: motorways: no general speed limit, recommended speed limit is 130 km/h (more than half the network has a speed limit of 120 km/h or less).

ES: different speed limits apply on non-urban roads according to the presence of hard shoulders, or if the vehicle is equipped with a trailer or dangerous goods.

**Blood alcohol limits:** in many countries, special (more restrictive) rules apply to novice (i.e. new, unexperienced) and professional drivers.

## 2.1.4.

## Road transport

### MAXIMUM GROSS VEHICLE WEIGHT

tonnes	WEIGHT PER BEARING AXLE	WEIGHT PER DRIVE AXLE	LORRIES		ROAD TRAIN		ARTICU- LATED VEHI- CLES
			2 axles	3 axles	4 axles	5 axles and more	5 axles and more
BE	10	12	19	26	39	44	44
BG	10	11.5	18	26 <sup>(1)</sup>	36	40	40
CZ	10	11.5	18	26 <sup>(1)</sup>	32	48	48
DK	10	11.5	18	24 <sup>(1)</sup>	38	44 <sup>(2)</sup>	44 <sup>(2)</sup>
DE	10	11.5	18 <sup>(1)</sup> <sup>(2)</sup>	26 <sup>(1)</sup> <sup>(2)</sup>	36	40	40
EE	10	11.5	18	26 <sup>(1)</sup>	36	40	40
IE	10	11.5	18	26	36	42 <sup>(1)</sup>	44
EL	7 / 10	13	19	26	33 / 38	40 / 42	40 / 42
ES	10	11.5	18	25 / 26	36 / 38	40	40 / 44
FR	12 / 13	12 / 13	19	26	38	40 / 44	40 / 44
HR	10	11.5	18	26 <sup>(1)</sup>	36	40	40 / 44
IT	12	12	18	26 <sup>(1)</sup>	40	44	44
CY	10	11,5	18	25	36	40	40 / 44
LV	10	11.5	18	25 / 26	36	40	40 / 44
LT	10	11.5	18	25 / 26	36	40	40 / 44
LU	10	12	19	26	44	44	44
HU	10	11.5	18	25	36	40	40 / 44
MT	10	11.5	18	25	36	40	40 / 44
NL <sup>(2)</sup>	10	11.5	21.5	21.5 / 30.5	40	50	50
AT	10	11.5	18	26	36	40 / 44	40 / 44
PL	10	11.5	18	26 <sup>(1)</sup>	36	40	40
PT	10 <sup>(6)</sup>	12	19	26	37	44 (6)	44/60
RO	10	11.5	18	25 / 26	36	40	40 / 44
SI	10	11.5	18	25 / 26	36	40	40 / 44
SK	10	11.5	18	26 <sup>(1)</sup>	36	40	40
FI <sup>(3)</sup>	10	11.5	18	28 <sup>(1)</sup>	36	44 <sup>(4)</sup>	44 <sup>(4)</sup>
SE	10	11.5	18	25/28	38	40 <sup>(7)</sup>	44
UK	10	11.5	18	26	36	40 / 44	40 / 44
ME	10	11.5	18	26 <sup>(1)</sup>	36	40	40 / 44
MK	10	11.5	18	25	35/36	40	40
AL	10	11.5	18	26 <sup>(1)</sup>	36	40	44
RS	10	11.5	18	25 / 26	36 / 38	40	40 / 44
TR	10	11.5	18	25 / 26	32 / 36 / 38	40 / 44	40 / 44
IS	10	11.5	18	26 <sup>(1)</sup>	36	40	44
LI	10	11.5	18	26 <sup>(1)</sup>	36	40	40
NO <sup>(2)</sup>	10	11.5	19	26	39	46 / 50	46 / 50
CH	10	11.5	18	26 <sup>(1)</sup>	36	40	40

**NB:** An articulated vehicle consists of a road tractor coupled to a semi-trailer. A road train is a goods road motor vehicle coupled to one or more trailers.

Different limits apply depending on whether the vehicle is equipped with specific tyres or road-friendly suspensions, performs combined transport operations, for national and international traffic, for specific axle configurations, in case of trailers, or for carrying specific types of goods or containers. For a more complete country overview please consult the ITF website.

<sup>(1)</sup> Only for air suspension or similar, and anti-lock braking systems.

<sup>(2)</sup> Under specific conditions European modular system combinations may have a maximum length of 25.25 m and maximum mass of 60 t.

<sup>(3)</sup> For vehicles registered in an EEA member country.

<sup>(4)</sup> 5 axles = 44 t; 6 axles = 56 t; 7 axles = 56 t, 8 axles 64–68 t (restrictions for ADR), 69–76 t (not for ADR).

<sup>(5)</sup> 5 axles = 46 t, 6 axles = 64 t, 7 axles = 64 t.

<sup>(6)</sup> Increased values are applicable for certain types of transport.

<sup>(7)</sup> On some roads the permissible maximum weight is 74 t.

## 2.1.5.

Employment by mode  
of transport (\*) 2017

in 1000

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	10 126.9	3 066.8	2 030.0	427.5	25.2	43.0	165.6	284.5	2 490.0	1 594.4
EU-28	11 471.3	3 333.6	2 258.3	506.7	26.9	44.3	178.1	365.6	2 917.2	1 840.6
BE	214.1	59.7	19.5	33.2	1.0	0.5	1.2	6.3	58.1	34.6
BG	172.6	72.2	31.6	11.3	0.4	0.6	0.8	2.1	33.3	20.4
CZ	288.0	129.6	38.7	26.7	0.3	0.6	0.0	2.5	50.1	39.5
DK	146.2	31.1	26.2	5.4	0.9	0.2	17.7	5.3	30.3	29.0
DE	2 415.0	460.0	465.4	46.1	3.3	10.3	18.4	62.8	776.6	572.2
EE	41.0	16.3	3.7	1.0	0.0	1.0	2.0	0.9	12.7	3.4
IE	100.6	22.4	29.3	4.0	0.2	0.4	0.6	8.1	17.8	17.8
EL	174.3	33.1	60.2	0.7	0.3	0.0	16.1	3.8	45.2	15.1
ES	889.9	330.1	186.1	15.4	1.6	0.6	7.3	29.8	229.9	89.0
FR	1 380.7	366.9	396.5	82.8	1.4	3.8	13.2	66.2	218.4	231.4
HR	84.5	22.9	20.1	3.8	0.7	0.1	4.3	1.1	21.1	10.4
IT	1 144.5	337.9	165.3	44.9	2.3	3.1	48.9	19.5	368.9	153.7
CY	18.7	2.0	3.3	0.0	0.0	0.0	0.3	0.4	11.0	1.6
LV	79.7	26.6	13.8	3.4	0.6	0.3	0.8	1.7	27.1	5.5
LT	127.4	70.2	16.4	9.0	0.2	0.1	1.0	0.8	22.3	7.3
LU	21.2	7.5	2.7	2.3	0.0	0.3	0.0	3.1	1.0	4.4
HU	249.1	78.5	49.3	18.8	0.9	0.8	0.1	1.1	64.4	35.2
MT	12.6	1.3	3.5	0.0	0.0	0.0	0.5	1.8	4.6	0.9
NL	408.0	123.8	65.8	8.7	0.1	13.4	8.1	25.7	97.8	64.8
AT	203.5	62.9	58.6	11.0	0.3	0.6	0.0	8.2	37.8	24.1
PL	826.2	384.4	137.8	48.9	4.0	1.2	2.0	4.6	150.4	92.9
PT	166.4	69.9	34.6	0.5	0.2	0.6	1.4	11.8	32.5	14.9
RO	379.6	155.1	78.9	27.1	6.1	2.1	0.3	4.4	66.1	39.6
SI	49.5	25.7	5.6	1.4	0.1	0.1	0.2	0.6	9.1	6.8
SK	112.2	48.0	15.5	7.1	0.3	0.4	0.0	0.4	23.6	16.9
FI	143.1	45.4	28.8	4.8	0.3	0.2	8.7	5.7	25.4	23.7
SE	278.4	83.3	72.7	9.1	0.1	1.7	11.9	5.7	54.6	39.4
UK	1 344.3	266.8	228.4	79.2	1.7	1.3	12.5	81.1	427.2	246.1

NB: (\*) Data refer to transportation and storage activities (including postal and courier services, removal services). Data are based on structural business statistics and therefore total transport employment differs from value on Overview 2.1.1. The values above in italics are not from Eurostat or other official source, but are merely indicative estimates made by DG Mobility and Transport.

(\*\*) Including all urban and suburban land transport modes (motor bus, tramway, streetcar, trolley bus, underground and elevated railways).

The above figures refer to those companies whose main activity lies in the mode concerned.

Economic activity according to NACE Rev. 2 classification.

## 2.1.6.

# Number of enterprises by mode of transport (\*) 2017

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	1 157 424	535 384	388 642	929	184	9 561	9 803	4 273	140 341	68 307
EU-28	1 266 249	585 825	401 593	1 077	193	9 820	10 931	5 260	162 861	88 689
BE	18 148	7 876	3 374	33	34	348	180	417	3 343	2 543
BG	23 191	13 504	6 003	10	4	34	48	49	2 394	1 145
CZ	39 791	31 197	3 736	34	2	87	3	59	4 380	293
DK	11 035	4 894	2 905	15	8	17	275	78	1 484	1 359
DE	109 660	38 455	31 500	223	37	1 102	1 653	591	21 658	14 442
EE	5 591	3 165	649	6	0	4	44	17	1 564	142
IE	25 736	4 799	15 875	13	3	51	157	70	1 891	2 877
EL	60 143	16 759	34 730	8	9	0	2 201	86	5 226	1 124
ES	197 093	104 396	63 631	19	6	69	443	122	16 747	11 660
FR	113 151	32 671	60 016	37	28	941	695	582	8 075	10 106
HR	8 606	5 310	1 474	8	2	17	725	19	990	61
IT	122 099	64 716	30 658	22	10	1 079	684	193	22 233	2 504
CY	3 064	799	1 215	0	0	0	58	3	778	211
LV	7 498	3 423	1 048	38	2	17	54	32	2 350	534
LT	16 118	5 949	6 743	2	1	26	12	29	2 413	943
LU	995	431	237	1	0	25	2	22	211	66
HU	28 448	14 247	8 774	33	5	114	4	73	3 914	1 283
MT	1 452	264	768	0	0	0	94	20	274	32
NL	44 541	11 607	10 695	51	10	4 235	807	371	8 862	7 903
AT	14 446	6 536	5 659	32	4	89	0	169	1 468	489
PL	155 910	87 577	49 391	169	6	449	238	545	13 761	3 774
PT	22 841	7 800	11 519	4	1	55	335	86	2 471	570
RO	48 382	29 497	13 819	90	3	160	51	78	3 055	1 629
SI	8 578	5 601	1 047	6	2	50	40	107	1 278	447
SK	20 778	9 978	5 510	11	6	61	6	63	3 806	1 337
FI	20 110	9 120	8 289	6	1	68	244	79	1 931	372
SE	30 019	14 813	9 377	58	0	463	750	313	3 784	461
UK	108 825	50 441	12 951	148	9	259	1 128	987	22 520	20 382

NB: (\*) Data refer to transportation and storage activities (including postal and courier services, removal services). The values above in italics are not from Eurostat or other official source, but are merely indicative estimates made by DG Mobility and Transport.

(\*\*) Including all urban and suburban land transport modes (motor bus, tramway, streetcar, trolley bus, underground and elevated railways).

The above figures refer to those companies whose main activity lies in the mode concerned.

Economic activity according to NACE Rev. 2 classification.

## 2.1.7. Turnover by mode of transport (\*) 2017

### MILLION EUR

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	1 349 280	324 484	120 979	68 991	16 419	6 777	111 887	117 746	478 996	103 000
EU-28	1 565 457	353 616	145 216	82 129	17 271	7 113	126 354	147 344	557 578	128 835
BE	50 886	12 067	1 402	4 364	712	235	2 240	3 922	21 937	4 007
BG	7 555	3 906	458	167	163	38	44	390	1 988	401
CZ	23 393	8 993	1 508	1 381	270	42	1	1 126	8 790	1 282
DK	55 376	6 182	3 119	1 344	334	27	28 330	2 885	11 186	1 970
DE	330 676	44 824	34 411	11 066	4 919	2 234	33 052	24 118	134 242	41 811
EE	5 201	1 288	147	85	0	162	550	105	2 708	155
IE	20 654	1 867	1 983	300	95	40	760	7 147	6 716	1 746
EL	14 429	2 363	1 476	88	459	0	1 871	2 294	5 021	859
ES	111 009	32 812	9 501	2 686	1 691	27	2 030	11 044	46 398	4 821
FR	214 854	47 648	24 379	24 625	746	867	17 653	20 685	63 206	15 045
HR	4 820	1 651	682	122	174	3	376	370	1 301	142
IT	157 567	47 648	12 219	8 018	3 382	458	11 369	9 351	55 315	9 808
CY	2 940	166	150	0	0	0	38	68	2 448	71
LV	5 514	1 448	202	403	43	30	65	532	2 666	126
LT	9 988	4 638	315	460	52	3	140	291	3 930	160
LU	6 049	1 341	376	65	0	53	0	2 831	1 191	193
HU	18 204	5 800	1 742	848	318	79	6	2 140	6 324	947
MT	2 064	200	90	0	0	0	72	615	1 006	81
NL	85 757	22 215	3 925	2 899	201	1 800	6 963	10 703	31 016	6 035
AT	43 593	10 554	4 882	3 236	400	119	0	3 134	18 205	3 064
PL	54 019	27 669	4 000	2 838	838	91	409	2 293	13 534	2 348
PT	20 389	5 670	1 287	122	60	45	377	4 450	7 429	947
RO	17 873	9 325	1 297	946	476	128	60	761	3 965	915
SI	5 828	2 760	263	245	57	3	29	213	1 921	337
SK	9 328	3 931	366	340	865	73	0	141	2 979	632
FI	22 325	6 396	2 347	519	166	17	2 049	3 116	5 970	1 746
SE	48 988	11 124	8 452	1 826	0	203	3 404	3 021	17 605	3 352
UK	216 177	29 131	24 238	13 139	851	336	14 467	29 598	78 582	25 835

**NB:** (\*) Data refer to transportation and storage activities (including postal and courier services, removal services). The values above in italics are not from Eurostat or another official source, but are merely indicative estimates made by DG Mobility and Transport.

(\*\*) Including all urban and suburban land transport modes (motor bus, tramway, streetcar, trolley bus, underground and elevated railways).

The above figures refer to those companies whose main activity lies in the mode concerned.

Economic activity according to NACE Rev. 2 classification.

## 2.1.8. Final consumption of households for transport

### BY TYPE OF EXPENDITURE – 2018

	FINAL CONSUMPTION OF HOUSEHOLDS FOR TRANSPORT	of which:			TRANSPORT AS A % OF TOTAL FINAL CONSUMPTION OF HOUSEHOLDS	EXPENDITURE PER HEAD ON TRANSPORT
		purchase of personal transport equipment	operation of personal transport equipment	purchased transport services		
		million EUR			%	EUR
EU-27	931 352	262 039	509 967	159 346	13.1	2 080
EU-28	1 138 105	318 448	596 645	223 012	13.2	2 220
BE	25 820	7 404	15 955	2 461	11.4	2 260
BG	4 722	613	2 624	1 485	13.3	670
CZ	10 619	4 224	5 079	1 317	10.4	1 000
DK	17 237	5 573	9 645	2 018	12.5	2 970
DE	229 644	78 189	111 409	40 046	13.8	2 770
EE	1 490	290	895	305	11.6	1 130
IE	12 571	4 311	4 561	3 700	12.9	2 590
EL	16 872	3 453	6 223	7 197	13.5	1 660 <sup>(1)</sup>
ES	92 028	24 830	52 853	14 345	12.7	1 970
FR	174 063	43 406	99 920	30 737	14.0	2 590
HR	3 623	964	1 786	872	9.7	890
IT	139 084	33 907	84 401	20 777	12.9	2 300
CY	2 246	630	1 157	460	14.7	2 580
LV	2 028	307	1 254	467	11.8	1 050
LT	4 417	914	3 056	447	15.8	1 580
LU	3 165	961	2 085	120	15.8	5 200
HU	9 064	2 176	5 730	1 158	13.7	930
MT	773	198	402	174	11.9	1 590
NL	41 766	10 779	23 247	7 740	12.4	2 420
AT	24 600	6 551	13 257	4 792	12.3	2 780
PL	36 815	10 250	23 333	3 232	12.9	960
PT	18 863	6 847	9 588	2 429	13.4	1 830
RO	13 455	2 219	7 325	3 911	10.7	690
SI	4 276	1 192	2 820	264	16.9	2 060
SK	3 386	853	1 770	763	6.8	620
FI	13 943	3 774	7 648	2 521	11.8	2 530
SE	24 784	7 227	11 947	5 611	12.2	2 440
UK	207 860	56 840	86 773	64 247	13.7	3 130

NB: FR, CY, NL, PT, RO: provisional data.

<sup>(1)</sup> 2017 data.

## 2.1.9. EU-27 Evolution of consumer prices for passenger transport

### HARMONISED INDEX OF CONSUMER PRICES

YEAR 2015 = 100	ALL ITEMS	TRANSPORT	of which:		
			PURCHASE OF VEHICLES	Motor cars	Motorcycles, bicycles and animal drawn vehicles
2019	105.0	106.1	103.4	103.4	104.0
2018	103.6	104.9	102.2	102.1	103.3
2017	101.7	101.5	101.3	101.2	102.6
2015	100.0	100.0	100.0	100.0	100.0
2010	93.0	93.6	97.2	97.3	95.7
2005	83.5	83.1	95.9	96.2	92.4

YEAR 2015 = 100	OPERATION OF PERSONAL TRANSPORT EQUIPMENT	of which:			
		Spare parts and accessories for personal transport equipment	Fuels and lubricants for personal transport equipment	Maintenance and repair of personal transport equipment	Other services in respect of personal transport equipment
2019	107.7	101.0	108.6	108.8	105.5
2018	106.6	100.5	108.6	105.6	104.1
2017	101.3	100.2	100.1	103.3	102.4
2015	100.0	100.0	100.0	100.0	100.0
2010	93.7	95.0	96.7	89.2	92.8
2005	79.8	87.5	81.8	74.6	82.6

YEAR 2015 = 100	TRANSPORT SERVICES	of which:					
		Passenger transport by railway	Passenger transport by road	Passenger transport by air	Passenger transport by sea and inland waterway	Combined passenger transport	Other purchased transport services
2019	105.7	105.0	104.7	107.0	104.5	106.0	105.1
2018	104.0	103.4	103.4	105.0	103.3	104.4	102.5
2017	102.6	102.7	102.3	102.6	104.9	102.8	100.6
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	87.2	88.8	87.8	88.0	81.8	84.3	96.1
2005	74.3	73.1	72.5	81.0	68.8	70.5	88.3



## 2.1.10. EU-27 external trade by mode of transport 2018

### PARTNER: EXTRA-EU-27

VALUE (BILLION EUR)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	866.7	42.1 %	989.2	51.7 %	1 855.9	46.7 %
Road	473.1	23.0 %	335.2	17.5 %	808.4	20.4 %
Rail	34.4	1.7 %	29.7	1.6 %	64.1	1.6 %
Inland waterway	2.6	0.1 %	4.2	0.2 %	6.8	0.2 %
Pipeline	5.0	0.2 %	89.7	4.7 %	94.7	2.4 %
Air	481.6	23.4 %	335.4	17.5 %	817.0	20.6 %
Self propulsion	65.7	3.2 %	25.1	1.3 %	90.8	2.3 %
Post	0.9	0.0 %	0.9	0.0 %	1.8	0.0 %
Unknown	130.0	6.3 %	102.5	5.4 %	232.5	5.9 %
<b>TOTAL</b>	<b>2 060.0</b>	<b>100.0 %</b>	<b>1 911.9</b>	<b>100.0 %</b>	<b>3 971.9</b>	<b>100.0 %</b>

WEIGHT (MILLION TONNES)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	526.8	70.2 %	1 209.3	70.1 %	1 736.1	70.1 %
Road	121.3	16.2 %	98.8	5.7 %	220.1	8.9 %
Rail	18.8	2.5 %	79.2	4.6 %	98.0	4.0 %
Inland waterway	6.2	0.8 %	10.3	0.6 %	16.5	0.7 %
Pipeline (*)	5.7	0.8 %	247.8	14.4 %	253.5	10.2 %
Air	15.2	2.0 %	4.2	0.2 %	19.4	0.8 %
Self propulsion (*)	0.5	0.1 %	2.0	0.1 %	2.5	0.1 %
Post (*)	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Unknown (**)	56.2	7.5 %	73.3	4.3 %	129.5	5.2 %
<b>TOTAL</b>	<b>750.7</b>	<b>100.0 %</b>	<b>1 724.9</b>	<b>100.0 %</b>	<b>2 475.6</b>	<b>100.0 %</b>

NB: (\*) Trade by post, pipeline and self propulsion not available for partner UK.

(\*\*) The trade type with UK is unknown for the reporting countries DK, FR, HR, NL, AT, SI, SE.

## 2.1.11. Environmental taxes and transport

## ENERGY TAXES AS % OF GDP –

## TRANSPORT FUEL TAXES (\*)

	%					RANKING IN 2018 EU-27
	2005	2010	2015	2017	2018	
<b>EU-27</b>		1.3	1.3	1.3	1.2	
<b>EU-28</b>		1.3	1.3	1.3	1.2	
BE	1.3	1.2	1.1	1.2	1.2	18
BG		2.4	2.4	2.1	1.8	7
CZ	2.2	1.9	1.7	1.6	1.6	9
DK	1.2	1.0	0.9	0.8	0.7	26
DE	1.5	1.4	1.2	1.1	1.1	21
EE	1.8	2.1	2.0	2.2	2.0	3
IE	1.2	1.3	0.9	0.8	0.7	25
EL	1.1	1.4	1.3	1.5	1.5	12
ES	1.3	1.1	1.1	1.1	1.1	23
FR	1.3	1.2	1.2	1.3	1.3	17
HR	2.2	1.9	2.3	2.3	2.2	2
IT	1.5	1.4	1.6	1.5	1.5	14
CY	1.5	1.6	2.0	1.9	1.8	6
LV	2.1	2.0	1.7	1.8	1.8	5
LT	1.7	1.7	1.6	1.7	1.8	8
LU	2.8	2.2	1.6	1.5	1.5	13
HU	1.8	1.8	1.7	1.6	1.6	10
MT	1.2	1.2	1.0	1.1	1.1	20
NL	1.2	1.2	1.1	1.1	1.1	24
AT	1.3	1.2	1.2	1.2	1.1	22
PL	1.9	1.8	1.9	2.0	2.0	4
PT	1.9	1.6	1.5	1.6	1.6	11
RO		1.5	1.7	1.4	1.4	15
SI	2.1	2.5	2.6	2.4	2.3	1
SK	2.1	1.5	1.3	1.4	1.4	16
FI	1.4	1.3	1.2	1.2	1.2	19
SE	1.3	0.9	0.8	0.8	0.7	27
UK	1.5	1.6	1.3	1.3	1.2	
ME						
MK						
AL						
RS						
TR						
IS						
NO	0.8	0.8	0.7	0.6	0.6	
CH						

**NB:** (\*) Transport fuel taxes include those taxes which are levied on the transport use of fuels/energy products.  
EU totals are weighted averages.

## 2.1.12. Environmental taxes and transport

### ENVIRONMENTAL TAXES AS % OF GDP – TRANSPORT (EXCL. FUEL) (\*)

	%							RANKING IN 2018 EU-27
	1995	2000	2005	2010	2015	2017	2018	
EU-27			0.5	0.5	0.5	0.5	0.5	
EU-28			0.5	0.5	0.5	0.5	0.5	
BE	0.8	0.8	0.8	0.7	0.7	0.7	0.7	9
BG	0.2	0.2	0.2	0.3	0.3	0.3	0.3	17
CZ	0.3	0.2	0.2	0.1	0.1	0.1	0.1	24
DK	2.1	1.8	2.1	1.4	1.5	1.5	1.5	1
DE	0.4	0.3	0.4	0.3	0.3	0.3	0.3	18
EE	0.3	0.2	0.1	0.1	0.1	0.1	0.1	27
IE	1.3	1.4	1.2	0.9	0.7	0.6	0.6	12
EL	0.7	0.8	0.9	0.7	0.8	0.8	0.8	7
ES	0.4	0.4	0.4	0.3	0.2	0.2	0.2	21
FR	0.4	0.3	0.3	0.3	0.3	0.3	0.3	19
HR			1.1	0.8	0.8	0.9	0.8	6
IT	0.5	0.6	0.6	0.6	0.6	0.6	0.6	10
CY	2.3	2.0	1.4	0.9	0.6	0.6	0.6	11
LV	0.0	0.3	0.3	0.3	0.5	0.4	0.4	15
LT	0.7	0.7	0.5	0.0	0.1	0.1	0.1	26
LU	0.1	0.1	0.1	0.2	0.1	0.1	0.1	25
HU	0.2	0.4	0.5	0.5	0.4	0.3	0.3	16
MT	2.3	2.2	1.7	1.3	1.1	1.1	1.1	2
NL	1.3	1.4	1.2	1.1	1.0	1.0	1.0	3
AT	0.7	0.8	0.8	0.8	0.8	0.9	0.9	5
PL	0.2	0.2	0.3	0.2	0.2	0.2	0.2	22
PT	0.9	1.1	0.9	0.6	0.6	0.7	0.7	8
RO	0.0	0.1	0.1	0.3	0.3	0.1	0.1	23
SI	1.0	0.4	0.5	0.4	0.5	0.4	0.4	14
SK	0.2	0.2	0.2	0.2	0.3	0.3	0.3	20
FI	0.8	1.1	1.1	0.9	0.9	1.0	0.9	4
SE	0.3	0.3	0.4	0.5	0.4	0.4	0.4	13
UK	0.6	0.6	0.4	0.6	0.6	0.5	0.5	
ME								
MK								
AL								
RS								
TR								
IS	1.1	1.7	1.6	0.2	0.4	0.5	0.4	
NO	1.4	1.2	1.4	1.2	1.0	0.9		
CH								

**NB:** (\*) Transport taxes (excluding fuel) mainly include taxes related to the ownership and use of motor vehicles.  
EU totals are weighted averages.

## 2.1.13. Environmental taxes and transport

### (FUEL AND OTHER TAXES)

#### AS % OF TOTAL TAXATION (\*)

	%					RANKING IN 2018 EU-27
	2005	2010	2015	2017	2018	
<b>EU-27</b>		4.7	4.4	4.3	4.2	
<b>EU-28</b>		4.9	4.6	4.4	4.4	
BE	4.8	4.4	4.0	4.1	4.2	22
BG		10.1	9.3	8.1	7.2	5
CZ	6.8	6.3	5.4	5.0	4.8	19
DK	6.9	5.5	5.2	5.1	5.0	18
DE	5.2	4.6	3.9	3.6	3.5	25
EE	6.3	6.4	6.3	6.8	6.2	8
IE	7.8	8.0	6.8	6.2	5.8	13
EL	6.1	6.5	5.7	5.9	6.0	11
ES	4.8	4.4	4.0	4.0	3.8	24
FR	3.8	3.4	3.1	3.3	3.4	26
HR	8.9	7.5	8.3	8.3	7.8	1
IT	5.4	4.6	5.0	5.1	5.0	16
CY	9.2	7.9	8.1	7.7	7.2	4
LV	8.6	8.2	7.3	7.1	7.2	3
LT	7.4	6.2	6.0	6.1	6.1	10
LU	7.7	6.2	4.8	4.3	4.2	23
HU	6.3	6.0	5.2	5.2	5.1	15
MT	9.0	7.9	6.9	7.0	6.8	6
NL	6.8	6.6	5.8	5.5	5.5	14
AT	5.2	4.9	4.7	4.9	4.6	21
PL	6.7	6.5	6.6	6.4	6.2	9
PT	9.0	7.4	6.2	6.8	6.5	7
RO		6.9	7.0	6.2	5.9	12
SI	6.8	7.6	8.0	7.7	7.3	2
SK	7.2	6.0	4.9	4.9	4.7	20
FI	5.9	5.4	4.8	5.0	5.0	5
SE	3.6	3.1	2.9	2.7	2.6	27
UK	6.0	6.4	5.8	5.3	5.2	
ME						
MK						
AL						
RS						
TR						
IS						
NO	5.2	4.6	4.2	3.9	3.6	
CH						

**NB:** (\*) Including taxes on fuel and other transport taxes.  
EU totals are weighted averages.

## 2.1.14.

## Comparison EU-27 – world

### INFRASTRUCTURE AND VEHICLES

TRANSPORT INFRASTRUCTURE					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
1 000 km	2018	2018	2017	2018	2018
Road network (paved)	4 930	4 577	1 006	4 466	1 076
Motorway network	73.8	99.0 <sup>(1)</sup>	9.0 <sup>(2)</sup>	142.6	54.2
Railway network	200.6	202.5 <sup>(3)</sup>	19.3	131.7	86.6
Electrified rail lines	111.6		11.7	75.9	44.1
Navigable inland waterways	41.3	40.2		127.1	101.5
Oil pipelines	31.8	352.4		122.3 <sup>(4)</sup>	70.5

		VEHICLE STOCK				
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2018	2018	2017	2018	2018
Passenger cars stock	million	236.7	251 <sup>(5)</sup>	61.8 <sup>(6)</sup>	125.9	47.4
Motorisation	cars / 1 000 people	530	767	488	90	328
Commercial freight vehicles	million	34.79	13.23	14.21 <sup>(7)</sup>	25.68	6.49

TRANSPORT SAFETY						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2018	2018	2018	2017	2017
Road fatalities	number	23 374	36 560	4 166	63 772	18 214
per million inhabitants		52	112	33	46	126

- NB:**
- <sup>(1)</sup> Divided highways with four or more lanes (rural or urban interstate, freeways, expressways, arterial and collector) with full access control by the authorities.
  - <sup>(2)</sup> Japan: national expressways.
  - <sup>(3)</sup> United States: a sum of partly overlapping networks.
  - <sup>(4)</sup> China: both oil and gas pipelines.
  - <sup>(5)</sup> United States: light duty vehicles, short wheel and long wheel base.
  - <sup>(6)</sup> Japan: ordinary, small and light four-wheeled vehicles.
  - <sup>(7)</sup> Japan: including 8.3 million light motor vehicles.

## 2.1.15. Comparison EU-27 – world

### Passenger and Freight Transport

PASSENGER TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion pkm	2018	2018	2017	2018	2018
Passenger car	4 243.8	7 804.1 <sup>(1)</sup>		928.0 <sup>(2)</sup>	
Bus, trolley bus and coach	474.6	624.7	69.8		122.5
Railway	407.2	37.5	437.4	1 414.7	129.5
Tram and metro	89.5	24.6	<sup>(3)</sup>		48.4 <sup>(4)</sup>
Waterborne	23.4	0.8	3.3 <sup>(5)</sup>	8.0	0.7 <sup>(4)</sup>
Air (domestic/intra-EU-27)	569.3	1 175.5	102.0	1 071.2	259.4 <sup>(4)</sup>

FREIGHT TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion tkm	2018	2018	2017	2018	2018
Road	1 708.9	2 969.5	210.8	7 124.9	241.2
Rail	412.7	2 525.2 <sup>(6)</sup>	21.7	2 882.1	2 597.8
Inland waterways	135.0	463.0			32.7
Oil pipeline	104.0	1 429.8		530.1 <sup>(7)</sup>	1 331.6
Sea (domestic/intra-EU-27)	979.2	253.5 <sup>(8)</sup>	180.9	9 905.2 <sup>(9)</sup>	28.3

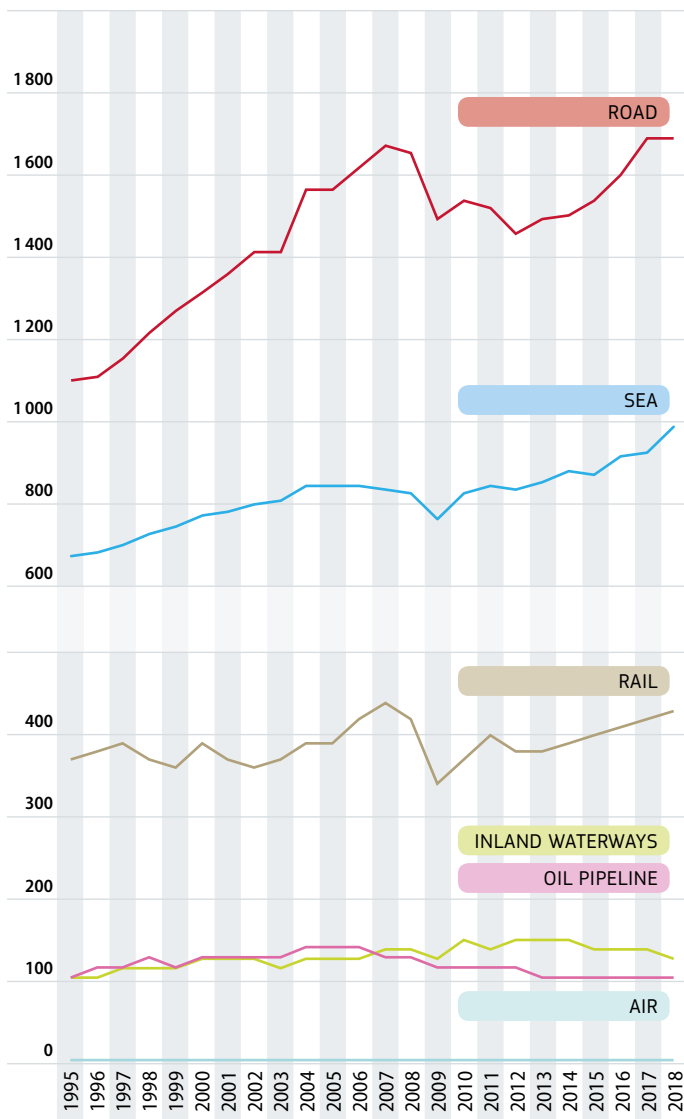
- NB:**
- <sup>(1)</sup> United States: including light trucks/vans.
  - <sup>(2)</sup> China: passenger-kilometres of highways including buses and coaches.
  - <sup>(3)</sup> Japan: included in railway pkm.
  - <sup>(4)</sup> 2017 figure.
  - <sup>(5)</sup> Japan: 2016 value.
  - <sup>(6)</sup> United States: Class I rail.
  - <sup>(7)</sup> China: oil and gas pipelines.
  - <sup>(8)</sup> United States: refers to coastal shipping.
  - <sup>(9)</sup> China: both coastwise and inland waterway transport.

## 2.2.

### 2.2.1. EU-27 performance for freight transport 1995–2018

BY MODE

billion tonne-kilometres (tkm)



## 2.2.2. EU-27 performance BY MODE

### FREIGHT TRANSPORT

	billion tkilometres						
	ROAD	RAIL	INLAND WATERWAYS	PIPE- LINES	SEA	AIR	TOTAL
1995	1 127.2	374.8	121.9	103.8	671.4	1.4	2 400
2000	1 343.9	387.9	133.7	115.7	769.8	1.7	2 753
2005	1 588.2	394.6	138.6	126.8	838.0	1.8	3 088
2010	1 558.3	375.0	155.4	111.0	824.2	1.8	3 026
2011	1 541.6	401.1	141.8	108.3	839.9	1.9	3 035
2012	1 481.7	385.2	149.8	105.0	828.5	1.8	2 952
2013	1 518.4	384.3	152.6	102.1	847.1	1.8	3 006
2014	1 527.4	388.7	150.7	101.1	871.7	2.1	3 042
2015	1 560.9	395.9	147.4	104.1	861.8	2.1	3 072
2016	1 620.6	411.1	147.2	104.7	906.7	2.4	3 193
2017	1 707.3	414.8	147.2	104.0	919.0	2.2	3 294
2018	1 708.9	423.3	135.0	104.0	979.2	2.2	3 353
1995–2018 per year	51.6%	12.9%	10.7%	0.2%	45.8%	56.2%	39.7%
	1.8%	0.5%	0.4%	0.0%	1.7%	2.0%	1.5%
2000–2018 per year	27.2%	9.1%	0.9%	–10.1%	27.2%	27.5%	21.8%
	1.3%	0.5%	0.1%	–0.6%	1.3%	1.4%	1.1%
2017–2018	0.1%	2.1%	–8.3%	0.1%	6.5%	2.0%	1.8%

### MODAL SPLIT

	%					
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA	AIR
1995	47.0	15.6	5.1	4.3	28.0	0.1
2000	48.8	14.1	4.9	4.2	28.0	0.1
2005	51.4	12.8	4.5	4.1	27.1	0.1
2010	51.5	12.4	5.1	3.7	27.2	0.1
2011	50.8	13.2	4.7	3.6	27.7	0.1
2012	50.2	13.0	5.1	3.6	28.1	0.1
2013	50.5	12.8	5.1	3.4	28.2	0.1
2014	50.2	12.8	5.0	3.3	28.7	0.1
2015	50.8	12.9	4.8	3.4	28.1	0.1
2016	50.8	12.9	4.6	3.3	28.4	0.1
2017	51.8	12.6	4.5	3.2	27.9	0.1
2018	51.0	12.6	4.0	3.1	29.2	0.1

**NB:** Air and sea: only domestic and intra-EU-27 transport; estimates for air and for sea based on Eurostat data. The time series for maritime activity from 1995 to 2004 and for aviation activity from 1995 to 2007 have been recalibrated by DG Mobility and Transport in line with the new EU-27 figures to avoid break in series.  
Road: national and international haulage by vehicles registered in the EU-27 until 2004, from 2005 onwards the activity performed by European drivers within the EU territory.



## 2.2.3. Modal split of freight transport on land 2018

### BY COUNTRY

tkm in %				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
EU-27	72.1	17.9	5.7	4.4
EU-28	73.1	17.2	5.3	4.4
BE	71.5	10.2	16.0	2.3
BG	54.4	18.7	23.7	3.3
CZ	69.9	26.7	0.0	3.4
DK	80.8	10.9	—	8.4
DE	70.8	19.3	7.2	2.7
EE	53.8	46.2	—	—
IE	99.2	0.8	—	—
EL	97.8	2.1	—	0.1
ES	90.8	4.7	—	4.4
FR	84.6	9.6	2.2	3.7
HR	63.8	18.4	4.5	13.3
IT	81.8	12.4	0.0	5.8
CY	100.0	—	—	—
LV	23.1	72.4	—	4.5
LT	31.7	67.0	0.0	1.3
LU	84.3	8.2	7.5	—
HU	64.8	25.4	3.9	6.0
MT	100.0	—	—	—
NL	48.0	6.1	41.1	4.8
AT	59.1	28.1	1.9	11.0
PL	66.7	24.5	0.1	8.8
PT	83.9	13.9	—	2.2
RO	43.0	28.2	26.4	2.3
SI	64.7	35.3	—	—
SK	54.2	27.5	2.6	15.7
FI	70.7	29.0	0.3	—
SE	69.3	30.7	0.0	—
UK	85.8	8.9	0.0	5.2
ME				
MK				
AL				
RS				
TR				
IS				
NO	75.2	13.3	—	11.5
CH	64.9	34.6	0.1	0.3

2.2.4a.

# Road

## NATIONAL HAULAGE (\*)

### HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm								% OF TOTAL HAULAGE 2018	% CHANGE 2017–2018
	1995	2000	2005	2010	2015	2017	2018		
EU-27		936.1	1 074.6	1 035.4	1 002.6	1 071.3	1 090.9	0.6	1.8
EU-28		1 086.4	1 225.8	1 173.2	1 145.4	1 218.6	1 242.9	0.6	2.0
BE	18.6	19.8	19.3	17.8	21.3	20.6	20.6	0.6	–0.2
BG		3.1	5.0	6.1	7.2	8.3	7.7	0.3	–7.1
CZ		14.2	15.5	14.8	21.2	21.9	23.5	0.6	7.5
DK	9.3	11.0	11.1	10.6	12.5	12.6	12.1	0.8	–4.0
DE	201.3	226.5	237.6	252.5	269.7	271.7	276.2	0.9	1.7
EE	0.4	0.7	1.8	1.4	1.5	1.6	1.7	0.3	3.4
IE	4.7	8.3	14.0	8.2	7.8	9.3	9.4	0.8	0.8
EL	20.0	23.0	19.6	25.3	15.0	15.5	15.4	0.5	–0.5
ES	78.7	106.9	166.4	146.2	137.2	154.7	158.5	0.7	2.5
FR	135.3	163.2	177.3	164.3	141.2	155.9	161.9	0.9	3.9
HR		1.9	4.4	4.5	4.1	4.2	4.2	0.3	0.9
IT	150.3	158.3	171.6	149.2	104.1	106.7	111.7	0.9	4.7
CY		1.3	1.4	1.1	0.5	0.8	0.9	1.0	7.9
LV		1.5	2.7	2.6	2.8	3.2	3.5	0.2	6.8
LT		1.5	2.1	2.3	2.9	3.2	3.6	0.1	14.4
LU	0.5	0.4	0.5	0.6	1.0	1.0	0.6	0.1	–36.4
HU		12.1	11.4	11.3	10.4	11.9	13.0	0.3	8.7
MT		0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.0
NL	26.7	31.5	31.8	30.1	32.2	33.2	34.3	0.5	3.4
AT	11.1	12.4	12.5	13.9	15.5	16.8	16.9	0.7	0.7
PL		48.0	60.9	82.2	104.7	120.0	114.7	0.4	–4.5
PT	16.5	14.2	17.4	12.9	10.8	10.9	10.5	0.3	–3.0
RO		9.9	19.4	12.1	12.1	13.5	14.4	0.2	6.0
SI		1.9	2.4	2.3	2.1	2.3	2.3	0.1	–2.3
SK		5.1	5.6	5.2	5.2	6.3	6.5	0.2	2.4
FI	21.8	27.7	27.8	25.2	21.4	26.3	26.0	0.9	–1.4
SE	28.4	31.5	34.7	32.7	38.1	38.6	40.7	0.9	5.5
UK	146.7	150.3	151.2	137.8	142.9	147.3	152.0	1.0	3.1
ME						0.1	0.0	0.6	–19.7
MK			1.4	1.2	1.1	1.4	1.4	0.1	3.8
AL									
RS									
TR	112.5	161.6	166.8	190.4	244.3	262.8	266.5	1.0	1.4
IS	0.5	0.6	0.7	0.8	0.9	1.2	1.3	1.0	10.7
NO		12.1	15.4	16.3	20.5	18.7	18.9	0.9	1.0
CH	8.4	8.9	9.2	9.6	10.4	10.2	10.7	0.9	4.7

NB: (\*) Only haulage of heavy goods vehicles (usually > 3.5 tonnes load capacity).

2.2.4b.

Road

INTERNATIONAL HAULAGE (\*)

HAULAGE BY VEHICLES REGISTERED  
IN THE REPORTING COUNTRY

	billion tkm							% OF TOTAL HAULAGE 2018	% CHANGE 2017-2018
	1995	2000	2005	2010	2015	2017	2018		
EU-27		406.3	558.7	574.3	613.4	695.4	674.5	38.2	-3.0
EU-28		421.6	568.8	583.2	620.7	702.0	681.6	35.4	-2.9
BE	27.0	31.3	24.6	17.2	14.8	13.6	12.1	37.0	-11.0
BG		3.3	9.3	13.3	25.1	26.8	19.2	71.3	-28.4
CZ		23.1	27.9	37.1	37.5	22.4	17.5	42.7	-21.7
DK	13.1	13.0	12.2	4.4	3.0	2.9	2.9	19.5	-0.1
DE	36.5	54.2	72.5	60.6	45.2	41.5	40.6	12.8	-2.1
EE	1.1	3.2	4.0	4.2	4.7	4.6	4.1	70.8	-10.3
IE	0.8	3.9	3.9	2.7	2.1	2.5	2.2	19.0	-12.4
EL	4.0	4.5	4.2	4.6	4.7	12.9	13.9	47.4	7.6
ES	22.9	41.8	66.8	63.9	72.2	76.4	80.5	33.7	5.3
FR	42.9	40.8	28.0	17.9	12.3	11.8	11.4	6.6	-3.5
HR		1.0	4.9	4.2	6.4	7.6	8.4	66.5	10.0
IT	24.1	26.4	40.2	26.5	12.7	13.0	13.2	10.5	1.5
CY		0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.3
LV		3.3	5.7	8.0	11.9	11.7	11.5	76.9	-1.7
LT		6.2	13.8	17.1	23.6	35.9	39.9	91.6	11.2
LU	5.0	7.2	8.3	8.1	7.7	8.2	6.2	90.5	-25.0
HU		7.0	13.8	22.4	28.0	27.7	25.0	65.8	-10.0
MT		0.1	0.1	0.1	0.1	0.1	0.1	20.0	0.0
NL	40.4	48.0	52.3	46.8	36.7	34.4	34.6	50.2	0.6
AT	15.4	22.7	24.5	14.7	10.0	9.2	8.8	34.3	-3.6
PL		27.0	50.9	120.1	156.0	215.2	201.2	63.7	-6.5
PT	15.5	12.6	25.2	22.5	21.0	23.3	22.4	68.1	-3.8
RO		4.4	32.1	13.8	27.0	41.2	44.4	75.6	7.9
SI		3.4	8.7	13.6	15.8	18.5	20.0	89.8	7.9
SK		9.3	16.9	22.4	28.3	29.1	29.1	81.8	0.1
FI	2.7	4.3	4.0	4.4	3.1	1.6	2.4	8.4	45.2
SE	3.2	4.2	3.9	3.5	3.4	3.3	2.8	6.5	-14.5
UK	14.8	15.3	10.1	8.9	7.2	6.6	7.2	4.5	8.7
ME									
MK					9.1	9.5	9.2	86.5	-3.1
AL									
RS									
TR									
IS									
NO		3.0	2.9	3.4	2.7	2.6	2.4	11.3	-8.7
CH <sup>(1)</sup>	0.7	0.9	1.0	3.7	2.1	1.7	1.8	14.3	4.4

NB: (\*) Including cross-trade and cabotage.

Only haulage of heavy goods vehicles (usually > 3.5 tonnes load capacity).

(<sup>1</sup>) CH: in contrast to the data for other countries, until 2007 the Swiss data do not include that part of international journeys by Swiss hauliers that takes place outside Switzerland.

## 2.2.4c.

## Road

### NATIONAL AND INTERNATIONAL HAULAGE (\*)

#### HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm							%
	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
<b>EU-27</b>	<b>1 127.2</b>	<b>1 343.9</b>	<b>1 633.3</b>	<b>1 609.7</b>	<b>1 615.1</b>	<b>1 765.6</b>	<b>1 765.4</b>	<b>0.0</b>
<b>EU-28</b>	<b>1 288.7</b>	<b>1 509.5</b>	<b>1 794.6</b>	<b>1 756.4</b>	<b>1 765.2</b>	<b>1 919.5</b>	<b>1 924.5</b>	<b>0.3</b>
BE	45.6	51.0	43.8	35.0	36.1	34.2	32.7	–4.5
BG	5.2	6.4	14.4	19.4	32.3	35.2	27.0	–23.3
CZ	31.3	37.3	43.4	51.8	58.7	44.3	41.1	–7.2
DK	22.4	24.0	23.3	15.0	15.5	15.5	15.0	–3.3
DE	237.8	280.7	310.1	313.1	314.8	313.1	316.8	1.2
EE	1.5	3.9	5.8	5.6	6.3	6.2	5.8	–6.7
IE	5.5	12.3	17.9	10.9	9.9	11.8	11.6	–2.0
EL	24.0	29.0	23.8	29.8	19.8	28.4	29.3	3.2
ES	101.6	148.7	233.2	210.1	209.4	231.1	239.0	3.4
FR	178.2	204.0	205.3	182.2	153.6	167.7	173.3	3.4
HR		2.9	9.3	8.8	10.4	11.8	12.6	6.8
IT	174.4	184.7	211.8	175.8	116.8	119.7	124.9	4.4
CY	1.2	1.3	1.4	1.1	0.6	0.8	0.9	8.0
LV	1.8	4.8	8.4	10.6	14.7	15.0	15.0	0.2
LT	5.2	7.8	15.9	19.4	26.5	39.1	43.6	11.5
LU	5.5	7.6	8.8	8.7	7.8	8.1	6.8	–16.0
HU	13.8	19.1	25.2	33.7	38.4	39.7	37.9	–4.4
MT	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
NL	67.1	79.6	84.2	76.8	68.9	67.5	68.9	2.0
AT	26.5	35.1	37.0	28.7	25.5	26.0	25.8	–0.8
PL	51.2	75.0	111.8	202.3	260.7	335.2	315.9	–5.8
PT	32.0	26.8	42.6	35.4	31.8	34.2	33.0	–3.6
RO	19.7	14.3	51.5	25.9	39.0	54.7	58.8	7.4
SI	3.3	5.3	11.0	15.9	17.9	20.8	22.2	6.8
SK	15.9	14.3	22.6	27.6	33.5	35.4	35.6	0.5
FI	24.5	32.0	31.9	29.5	24.5	28.0	28.3	1.4
SE	31.6	35.6	38.6	36.3	41.5	41.9	43.5	3.9
UK	161.5	165.6	161.3	146.7	150.1	153.9	159.1	3.4
ME			0.1	0.2	0.1	0.1	0.1	–22.0
MK			5.6	4.2	10.2	10.9	10.6	–2.0
AL	2.1	2.2	3.2	4.6	3.4	3.5	3.5	
RS		0.6	0.7	1.7	3.0	5.0	4.0	–20.2
TR <sup>(1)</sup>	112.5	161.6	166.8	190.4	244.3	262.8	266.5	1.4
IS <sup>(1)</sup>	0.5	0.6	0.7	0.8	0.9	1.0	1.3	27.4
NO	9.7	15.1	18.2	19.8	23.1	21.4	21.3	–0.2
CH <sup>(2)</sup>	9.1	9.8	10.2	13.2	12.4	11.9	12.5	4.6

**NB:** (\*) Including cross-trade and cabotage.  
Only haulage of heavy goods vehicles (usually > 3.5 tonnes load capacity).

(1) TR, IS: national transport only.

(2) CH: in contrast to the data for other countries, until 2007 the Swiss data do not include that part of international journeys by Swiss hauliers that takes place outside Switzerland.

2.2.4d.

Road

TRANSPORT PERFORMANCE ADJUSTED  
FOR TERRITORIALITY (\*)

HAULAGE PERFORMED WITHIN THE TERRITORY  
OF EACH COUNTRY BY ANY VEHICLE

	billion tkm					%
	2005	2010	2015	2017	2018	CHANGE 2017–2018
EU-27	1588.2	1558.3	1560.9	1707.3	1708.9	0.1
EU-28	1755.5	1709.8	1718.1	1869.0	1874.2	0.3
BE	46.8	45.6	50.5	52.1	50.8	–2.6
BG	11.0	8.9	11.2	12.0	11.1	–7.4
CZ	32.3	32.0	42.5	43.1	43.5	0.9
DK	16.8	17.2	19.1	20.4	19.3	–5.2
DE	370.8	404.9	433.1	463.0	458.5	–1.0
EE	2.7	2.2	2.8	2.9	3.0	3.5
IE	15.6	9.7	9.2	10.6	10.8	2.0
EL	21.9	27.6	17.6	19.7	19.4	–1.7
ES	210.7	184.4	177.9	198.0	203.6	2.9
FR	294.5	275.1	251.2	277.8	283.4	2.0
HR	10.5	7.9	8.2	9.5	9.5	0.5
IT	204.0	183.6	134.0	142.1	146.1	2.8
CY	1.4	1.1	0.5	0.8	0.9	7.9
LV	3.7	3.7	4.8	5.3	5.7	7.8
LT	4.4	5.0	7.3	7.7	8.0	3.6
LU	1.9	2.1	2.5	2.7	2.3	–15.5
HU	22.2	21.3	22.1	25.8	27.0	4.6
MT						
NL	49.7	49.2	51.7	54.3	55.1	1.6
AT	32.4	37.9	41.0	45.8	46.3	1.0
PL	86.8	116.2	147.3	174.0	161.9	–6.9
PT	23.9	18.9	16.3	16.7	16.7	–0.5
RO	32.5	15.6	16.5	19.4	19.9	2.9
SI	7.3	7.3	7.7	9.3	9.5	1.3
SK	10.5	11.8	13.9	16.4	16.5	1.0
FI	28.8	26.5	22.8	27.5	27.3	–0.8
SE	45.1	42.4	49.3	50.4	52.8	4.8
UK	167.3	151.5	157.2	161.7	165.3	2.2
ME						
MK						
AL						
RS						
TR						
IS						
NO	17.1	19.1	23.7	22.6	22.5	–0.4
CH	23.0	21.6	20.8	21.9	22.1	1.0

NB: (\*) Including cross-trade and cabotage.

Only haulage of heavy goods vehicles (usually > 3.5 tonnes load capacity).

EU aggregates do not include road freight transport for Malta (negligible, exempt from reporting). BG and RO data for 2005 are based on their reporting for 2006; data for HR and CH for 2005–2007 are based on their reporting for 2008; road transport for CY includes only national transport (international transport is negligible).

## 2.2.5. Railways

billion tkm								%
	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
<b>EU-27</b>	<b>374.8</b>	<b>387.9</b>	<b>394.6</b>	<b>375.0</b>	<b>395.9</b>	<b>414.8</b>	<b>423.3</b>	<b>2.1</b>
<b>EU-28</b>	<b>388.1</b>	<b>406.0</b>	<b>416.0</b>	<b>393.5</b>	<b>415.2</b>	<b>432.0</b>	<b>440.5</b>	<b>2.0</b>
BE	7.3	7.7	8.1	7.5	7.3	7.3	7.3	0.0
BG	8.6	5.5	5.2	3.1	3.7	3.9	3.8	–2.7
CZ	22.6	17.5	14.9	13.8	15.3	15.8	16.6	4.6
DK	2.0	2.0	2.0	2.2	2.6	2.7	2.6	–2.2
DE	70.5	82.7	95.4	107.3	116.6	123.6	124.6	0.9
EE	3.8	8.1	10.6	6.6	3.1	2.3	2.6	11.3
IE	0.6	0.5	0.3	0.1	0.1	0.1	0.1	–11.0
EL	0.3	0.4	0.6	0.6	0.3	0.4	0.4	14.0
ES	11.0	12.2	11.6	8.9	11.0	10.5	10.7	1.0
FR	48.3	57.7	40.7	30.0	34.3	33.4	32.0	–4.2
HR	2.0	1.8	2.8	2.6	2.2	2.6	2.7	5.8
IT	21.7	22.8	22.8	18.6	20.8	22.3	22.1	–1.2
CY	—	—	—	—	—	—	—	—
LV	9.8	13.3	19.8	17.2	18.9	15.0	17.9	18.9
LT	7.2	8.9	12.5	13.4	14.0	15.4	16.9	9.5
LU	0.5	0.6	0.4	0.3	0.2	0.2	0.2	4.7
HU	8.4	8.8	9.1	8.8	10.0	13.4	10.6	–20.8
MT	—	—	—	—	—	—	—	—
NL	3.1	4.5	5.9	5.9	6.5	6.5	7.0	8.6
AT	13.2	16.6	19.0	19.8	20.3	22.3	22.0	–1.2
PL	68.2	54.0	50.0	48.7	50.6	54.8	59.4	8.4
PT	2.0	2.2	2.4	2.3	2.7	2.8	2.8	0.5
RO	17.9	16.4	16.6	12.4	13.7	13.8	13.1	–5.1
SI	3.1	2.9	3.2	3.4	4.2	5.1	5.2	0.4
SK	13.8	11.2	9.5	8.1	8.4	8.5	8.4	–1.2
FI	9.6	10.1	9.7	9.8	8.5	10.4	11.2	7.8
SE	19.4	19.5	21.7	23.5	20.7	21.8	23.4	7.0
UK	13.3	18.1	21.4	18.6	19.3	17.2	17.2	0.2
ME				0.2	0.1	0.2	0.1	–33.1
MK		0.5	0.5	0.5	0.3	0.3	0.3	10.8
AL	0.1	0.0	0.0	0.1	0.0	0.0	0.0	–20.0
RS				3.5	3.2	3.3	3.2	–2.4
TR	8.5	9.8	9.1	11.3	10.2	12.7	12.6	–0.3
IS	—	—	—	—	—	—	—	—
NO	2.7	3.0	3.2	3.5	3.5	4.0	4.0	–1.7
CH	8.9	11.1	11.7	11.1	12.4	11.7	11.8	1.0

## 2.2.6. Inland waterways

	billion tkm							%
	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
<b>EU-27</b>	<b>121.9</b>	<b>133.7</b>	<b>138.6</b>	<b>155.4</b>	<b>147.4</b>	<b>147.2</b>	<b>135.0</b>	<b>–8.3</b>
<b>EU-28</b>	<b>122.1</b>	<b>133.9</b>	<b>138.8</b>	<b>155.5</b>	<b>147.5</b>	<b>147.3</b>	<b>135.1</b>	<b>–8.3</b>
BE	5.7	7.2	8.6	9.1	10.4	11.1	11.4	2.3
BG	0.5	0.3	0.8	6.0	5.6	5.3	4.9	–8.0
CZ	0.3	0.1	0.1	0.0	0.0	0.0	0.0	–8.0
DK	—	—	—	—	—	—	—	—
DE	64.0	66.5	64.1	62.3	55.3	55.5	46.9	–15.5
EE	0.0	—	—	—	—	—	—	—
IE	—	—	—	—	—	—	—	—
EL	—	—	—	—	—	—	—	—
ES	—	—	—	—	—	—	—	—
FR	6.6	9.1	8.9	9.5	8.5	7.5	7.3	–3.3
HR	0.0	0.1	0.1	0.9	0.9	0.8	0.7	–16.6
IT	0.1	0.2	0.1	0.1	0.1	0.1	0.1	21.3
CY	—	—	—	—	—	—	—	—
LV	—	—	—	—	—	—	—	—
LT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LU	0.3	0.4	0.3	0.4	0.2	0.2	0.2	5.1
HU	1.2	0.9	2.1	2.4	1.8	2.0	1.6	–19.3
MT	—	—	—	—	—	—	—	—
NL	35.5	41.3	42.2	46.6	48.5	49.0	47.2	–3.6
AT	2.0	2.4	1.8	2.4	1.8	2.0	1.5	–26.4
PL	0.9	1.2	0.3	0.1	0.1	0.1	0.1	8.7
PT	—	—	—	—	—	—	—	—
RO	3.1	2.6	8.4	14.3	13.2	12.5	12.3	–2.0
SI	—	—	—	—	—	—	—	—
SK	1.5	1.4	0.7	1.2	0.7	0.9	0.8	–16.6
FI	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
SE	—	—	—	—	—	0.0	0.0	0.0
UK	0.2	0.2	0.2	0.2	0.1	0.1	0.1	–6.1
ME	—	—	—	—	—	—	—	—
MK	—	—	—	—	—	—	—	—
AL	—	—	—	—	—	—	—	—
RS	0.3	1.0	1.6	0.9	0.9	0.7	0.6	–19.4
TR	—	—	—	—	—	—	—	—
IS	—	—	—	—	—	—	—	—
NO	—	—	—	—	—	—	—	—
CH	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

**NB:** FI: only shipborne transport (i.e. no floating).  
IT, LT, FI and UK: data include only national traffic.  
BG and RO: data include transit traffic from 2009 (and partially in 2008).  
HR: data include transit traffic from 2008 onward.

## 2.2.7.

## Oil pipelines

billion tkm								%
	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
<b>EU-27</b>	<b>103.8</b>	<b>115.7</b>	<b>126.8</b>	<b>111.0</b>	<b>104.1</b>	<b>104.0</b>	<b>104.0</b>	<b>0.1</b>
<b>EU-28</b>	<b>114.9</b>	<b>127.1</b>	<b>137.6</b>	<b>121.1</b>	<b>114.1</b>	<b>113.9</b>	<b>114.0</b>	<b>0.1</b>
BE	1.4	1.6	1.5	1.5	1.6	1.6	1.6	0.8
BG	0.4	0.4	0.4	0.4	0.7	0.7	0.7	–5.0
CZ	2.3	1.6	2.3	2.2	2.0	2.2	2.1	–2.7
DK	3.1	4.7	5.1	3.5	2.3	2.2	2.0	–11.0
DE	14.8	15.0	16.7	16.3	17.7	18.2	17.2	–5.5
EE	—	—	—	—	—	—	—	—
IE	—	—	—	—	—	—	—	—
EL	—	—	0.2	0.2	0.02	0.03	0.03	0.0
ES	5.9	7.5	9.2	8.2	10.1	9.7	9.9	2.4
FR	22.3	21.7	20.9	17.6	11.4	11.2	12.4	11.3
HR	—	0.4	1.5	1.3	1.4	1.8	2.0	12.3
IT	9.7	10.3	11.4	10.4	9.2	10.2	10.3	1.3
CY	—	—	—	—	—	—	—	—
LV	5.3	6.5	3.4	2.4	2.0	1.4	1.1	–21.4
LT	2.0	3.5	4.4	0.6	0.5	0.4	0.3	–16.5
LU	—	—	—	—	—	—	—	—
HU	2.2	2.3	2.7	3.2	2.5	2.4	2.5	4.8
MT	—	—	—	—	—	—	—	—
NL	5.3	5.9	5.9	5.6	6.0	6.1	5.5	–9.9
AT	6.8	7.6	7.8	7.0	8.5	8.4	8.6	2.2
PL	13.5	20.4	25.4	24.2	21.8	21.1	21.3	1.1
PT	—	0.5	0.5	0.4	0.4	0.42	0.44	5.9
RO	2.9	1.4	2.2	1.0	1.0	1.1	1.1	–0.6
SI	—	—	—	—	—	—	—	—
SK	6.1	4.6	5.3	5.0	5.0	4.8	4.8	0.0
FI	—	—	—	—	—	—	—	—
SE	—	—	—	—	—	—	—	—
UK	11.1	11.4	10.8	10.2	10.0	10.0	10.0	–0.1
ME	—	—	—	—	—	—	—	—
MK	—	—	0.1	0.1	0.0	0.0	0.0	–7.7
AL	—	—	—	—	—	—	—	—
RS	—	—	—	0.4	0.4	0.5	0.4	–7.6
TR	3.2	53.1	5.7	39.6	52.5	52.1	38.7	–25.8
IS	—	—	—	—	—	—	—	—
NO	5.3	3.5	4.6	3.5	3.4	3.1	3.4	10.4
CH	1.2	0.2	0.2	0.2	0.1	0.1	0.1	4.7

**NB:** Data are not harmonised and therefore not fully comparable; in most countries, only pipelines longer than 40 km are included. Data refer to oil pipelines.  
DE: from 1995 onwards: only crude oil (i.e. no refined petroleum products).  
DK: crude oil including water.



## 2.2.8.

## United States

### PERFORMANCE BY MODE OF TRANSPORT: FREIGHT

	billion tkm				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	TOTAL
1990	2 492.7	1 554.0	515.8	1 519.9	6 082.5
1995	3 036.8	1 922.8	534.4	1 564.1	7 058.1
2000	3 396.7	2 257.6	526.2	1 413.0	7 593.5
2005	3 581.8	2 530.6	476.4	1 263.9	7 852.7
2010	3 668.1	2 491.5	450.5	1 395.7	8 005.8
2011	3 859.5	2 524.7	464.7	1 486.3	8 335.1
2012	2 660.3	2 500.3	461.9	1 251.0	6 873.5
2013	2 926.5	2 541.4	438.3	1 195.5	7 101.5
2014	2 856.9	2 702.7	483.0	1 247.7	7 290.3
2015	2 899.3	2 537.8	458.3	1 288.6	7 183.9
2016	3 008.7	2 314.7	445.3	1 269.8	7 038.4
2017	2 955.4	2 445.1	454.9	1 304.7	7 160.2
2018	2 969.5	2 525.2	463.0	1 429.8	7 387.5

### AVERAGE ANNUAL CHANGE

	% PER YEAR				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	TOTAL
2001	1.5	3.4	-4.1	-4.5	0.6
2002	2.8	0.4	0.4	-4.7	0.6
2003	2.1	-0.1	-6.1	-0.6	0.4
2004	-2.1	5.0	4.3	-0.6	0.7
2005	1.1	2.9	-4.0	-0.6	1.1
2006	-1.9	7.1	2.0	-0.6	1.4
2007	3.7	-2.0	-2.8	-0.6	0.7
2008	10.3	-4.9	-3.8	14.7	5.1
2009	-11.0	-8.5	-10.5	-3.5	-9.0
2010	2.6	7.9	10.8	0.9	4.3
2011	5.2	1.3	3.1	6.5	4.1
2012	-31.1	-1.0	-0.6	-15.8	-17.5
2013	10.0	1.6	-5.1	-4.4	3.3
2014	-2.4	6.4	10.2	4.4	2.7
2015	-2.4	6.4	10.2	4.4	2.7
2016	1.5	-6.1	-5.1	3.3	-1.5
1990–1995	4.0	4.4	0.7	0.6	3.0
1995–2000	2.3	3.3	-0.3	-2.0	1.5
2000–2010	0.8	1.0	-1.5	-0.1	0.5
2011–2018	-3.7	0.0	-0.1	-0.6	-1.7

**NB:** Time series for road transport revised according to the estimates based on the Freight Analysis Framework (FAF). From the break onwards, the source is the Bureau of Transportation Statistics.

2.2.8.

# United States

## MODAL SPLIT – FREIGHT TRANSPORT

	%			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
1995	43.0	27.2	7.6	22.2
1996	43.0	27.7	7.1	22.2
1997	44.0	27.4	7.0	21.6
1998	44.3	28.2	6.9	20.6
1999	44.4	29.1	7.0	19.5
2000	44.7	29.7	6.9	18.6
2001	45.2	30.6	6.6	17.7
2002	46.1	30.5	6.6	16.7
2003	46.9	30.3	6.2	16.6
2004	45.6	31.6	6.4	16.4
2005	45.6	32.2	6.1	16.1
2006	44.1	34.0	6.1	15.8
2007	45.4	33.1	5.9	15.6
2008	47.7	30.0	5.4	17.0
2009	46.6	30.1	5.3	18.0
2010	45.8	31.1	5.6	17.4
2011	46.3	30.3	5.6	17.8
2012	38.7	36.4	6.7	18.2
2013	41.2	35.8	6.2	16.8
2014	39.2	37.1	6.6	17.1
2015	40.4	35.3	6.4	17.9
2016	42.7	32.9	6.3	18.0
2017	41.3	34.1	6.4	18.2
2018	40.2	34.2	6.3	19.4

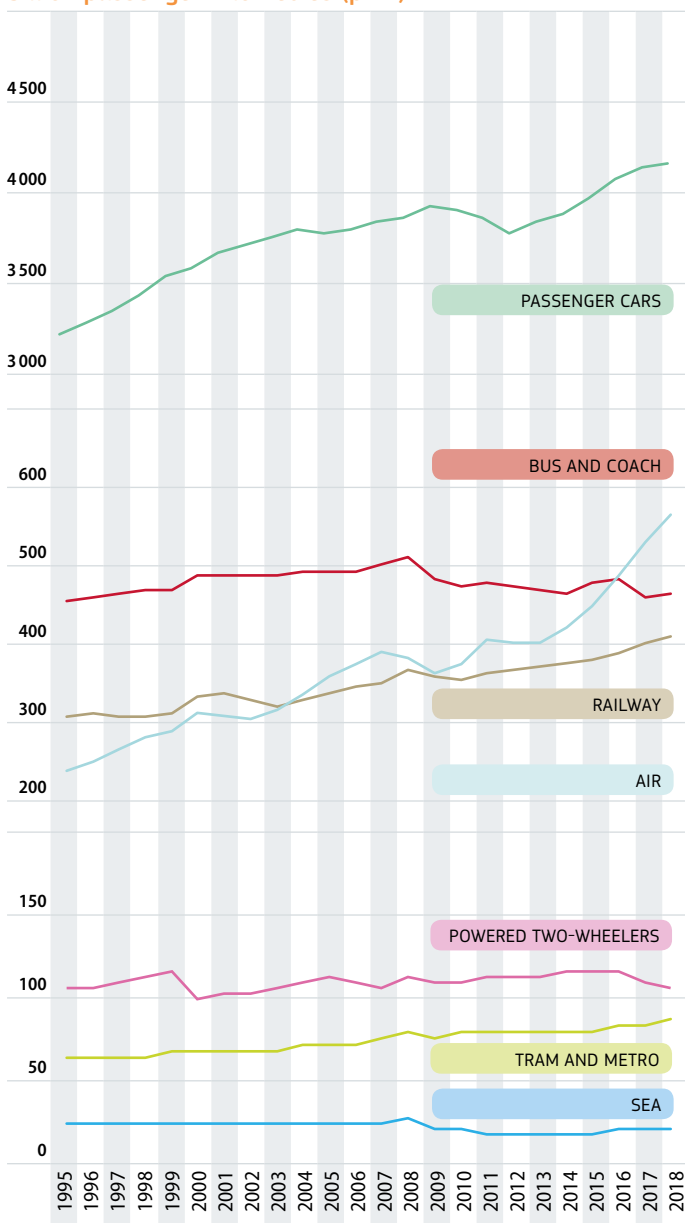
**NB:** Time series for road transport revised according to the estimates based on the FAF. From the break onwards, the source is the Bureau of Transportation Statistics.

## 2.3.

### 2.3.1. EU-27 performance for passenger transport 1995–2018

BY MODE

billion passenger-kilometres (pkm)



## 2.3.2. EU-27 performance BY MODE

### PASSENGER TRANSPORT

	billion pkm							
	PASSEN- GER CARS	P2W	BUS AND COACH	RAILWAY	TRAM AND METRO	AIR	SEA	TOTAL
1995	3 283.8	108.2	468.0	312.7	63.8	237.2	26.3	4 500
2000	3 660.4	99.2	496.5	338.6	67.8	313.3	24.7	5 001
2005	3 839.2	114.6	497.8	339.8	73.2	361.3	24.6	5 250
2006	3 875.3	113.6	497.8	349.4	74.6	376.4	24.5	5 312
2007	3 921.3	109.6	507.9	353.4	76.4	392.2	24.4	5 385
2008	3 931.6	114.5	514.1	366.6	79.3	384.2	28.4	5 419
2009	4 009.2	112.0	489.7	359.3	78.6	362.8	23.3	5 435
2010	3 975.9	113.8	482.2	358.3	80.7	377.9	21.2	5 410
2011	3 943.6	116.9	485.6	364.1	81.1	409.2	19.2	5 420
2012	3 845.9	117.0	481.7	367.3	81.9	402.1	17.7	5 314
2013	3 902.7	116.6	480.3	371.8	81.8	405.4	18.0	5 377
2014	3 955.5	119.2	475.8	376.3	81.9	424.7	18.6	5 452
2015	4 051.2	119.0	485.7	381.7	82.5	450.9	18.4	5 589
2016	4 155.6	120.1	489.6	386.6	85.3	491.0	21.6	5 750
2017	4 210.2	113.6	469.9	400.8	86.4	536.0	21.4	5 838
2018	4 243.8	108.1	474.6	407.2	89.5	569.3	23.4	5 916
1995–2018	29.2 %	–0.0 %	1.4 %	30.2 %	40.2 %	140.0 %	–11.1 %	31.5 %
/year	1.1 %	–0.0 %	0.1 %	1.2 %	1.5 %	3.9 %	–0.5 %	1.2 %
2000–2017	15.9 %	9.0 %	–4.4 %	20.3 %	31.9 %	81.7 %	–5.4 %	18.3 %
/year	0.8 %	0.5 %	–0.2 %	1.0 %	1.5 %	3.4 %	–0.3 %	0.9 %
2017–2018	0.8 %	–4.8 %	1.0 %	1.6 %	3.5 %	6.2 %	9.4 %	1.3 %

### MODAL SPLIT

	%						
	PASSEN- GER CARS	P2W	BUS AND COACH	RAILWAY	TRAM AND METRO	AIR	SEA
1995	73.0	2.4	10.4	6.9	1.4	5.3	0.6
2000	73.2	2.0	9.9	6.8	1.4	6.3	0.5
2005	73.1	2.2	9.5	6.5	1.4	6.9	0.5
2006	73.0	2.1	9.4	6.6	1.4	7.1	0.5
2007	72.8	2.0	9.4	6.6	1.4	7.3	0.5
2008	72.6	2.1	9.5	6.8	1.5	7.1	0.5
2009	73.8	2.1	9.0	6.6	1.4	6.7	0.4
2010	73.5	2.1	8.9	6.6	1.5	7.0	0.4
2011	72.8	2.2	9.0	6.7	1.5	7.5	0.4
2012	72.4	2.2	9.1	6.9	1.5	7.6	0.3
2013	72.6	2.2	8.9	6.9	1.5	7.5	0.3
2014	72.6	2.2	8.7	6.9	1.5	7.8	0.3
2015	72.5	2.1	8.7	6.8	1.5	8.1	0.3
2016	72.3	2.1	8.5	6.7	1.5	8.5	0.4
2017	72.1	1.9	8.0	6.9	1.5	9.2	0.4
2018	71.7	1.8	8.0	6.9	1.5	9.6	0.4

**NB:** Air and sea: only domestic and intra-EU-27 transport; estimates for air and for sea based on Eurostat data. The time series for maritime activity from 1995 to 2004 and for aviation activity from 1995 to 2007 have been recalibrated by DG Mobility and Transport in line with the new EU-27 figures to avoid break in series.  
P2W: powered two-wheelers.

### 2.3.3. Modal split of passenger transport on land 2018

BY COUNTRY

	pkm in %			
	PASSENGER CARS	BUSES AND COACHES	RAILWAYS	TRAM AND METRO
EU-27	81.4	9.1	7.8	1.7
EU-28	81.8	8.5	7.9	1.7
BE	80.7	10.2	8.1	1.1
BG	82.1	14.2	2.1	1.6
CZ	66.6	15.5	8.7	9.2
DK	81.6	9.6	8.3	0.5
DE	83.8	5.7	8.9	1.6
EE	80.0	16.7	2.5	0.8
IE	81.4	14.9	3.2	0.5
EL	81.6	16.2	0.9	1.3
ES	83.1	7.9	6.9	2.1
FR	82.1	6.2	10.5	1.2
HR	83.2	12.5	2.4	1.9
IT	81.4	11.6	6.2	0.8
CY	81.1	18.9	–	–
LV	84.0	11.9	3.4	0.7
LT	90.4	8.5	1.1	–
LU	81.3	12.1	4.6	2.0
HU	68.5	20.2	8.3	2.9
MT	82.5	17.5	–	–
NL	85.2	3.1	11.1	0.6
AT	71.9	9.4	12.1	6.6
PL	78.0	12.7	7.7	1.6
PT	87.5	7.3	4.2	1.1
RO	75.2	14.4	4.0	6.3
SI	86.4	11.8	1.8	–
SK	73.4	16.1	9.8	0.7
FI	83.5	10.0	5.7	0.8
SE	81.5	7.0	9.5	1.9
UK	84.8	4.6	8.8	1.8
ME	96.4	2.3	1.3	–
MK	84.8	14.5	0.7	–
AL	89.2	10.8	0.0	–
RS	72.5	25.1	0.8	1.6
TR	71.0	27.3	1.7	0.0
IS	86.4	13.6	0.0	–
NO	88.0	5.7	4.9	1.3
CH	77.6	5.0	16.5	0.9

**NB:** If powered two-wheelers are included, they account for 2.03 % of the total in the EU-27, while the share of the other modes becomes:

EU-27	79.7	8.9	7.6	1.7
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## 2.3.4. Passenger cars

billion pkm									%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
EU-27		3 283.8	3 660.4	3 839.2	3 975.9	4 051.2	4 210.2	4 243.8	0.8
EU-28		3 901.7	4 298.9	4 506.3	4 620.5	4 706.4	4 880.1	4 916.5	0.7
BE	89.5	96.4	102.5	102.8	109.4	107.0	106.9	107.3	0.4
BG		25.0	26.9	35.1	46.9	56.8	57.7	57.2	–0.7
CZ		54.5	63.9	68.6	63.6	69.7	74.3	78.0	4.9
DK	47.2	48.4	50.6	49.8	51.7	56.8	60.0	60.7	1.1
DE	683.1	815.3	831.3	856.9	887.0	927.0	920.5	920.2	0.0
EE		5.1	6.7	9.9	10.1	12.3	13.1	13.3	2.0
IE	28.5	31.6	34.6	44.4	48.1	51.9	56.5	57.2	1.1
EL	35.0	44.0	63.0	85.0	99.6	98.3	101.9	103.4	1.5
ES	174.4	250.4	302.6	337.8	341.6	317.6	332.9	340.6	2.3
FR	592.5	641.2	687.7	704.6	695.9	722.9	743.4	757.1	1.8
HR		12.5	20.0	24.0	25.7	26.4	26.2	25.6	–2.3
IT	522.6	614.7	713.9	677.0	698.4	676.4	744.9	722.9	–3.0
CY		3.4	3.9	4.8	5.9	6.2	6.6	6.8	3.7
LV		7.5	11.5	12.1	12.3	13.5	15.0	15.3	1.9
LT		16.0	26.0	34.8	32.6	24.9	31.4	30.1	–4.0
LU	4.0	4.7	5.6	6.3	6.5	7.3	7.7	7.8	2.1
HU	47.0	45.4	46.2	49.4	52.6	54.6	60.6	63.9	5.4
MT		1.7	1.8	2.0	2.2	2.5	2.6	2.7	2.0
NL	137.3	131.4	141.1	148.8	144.2	139.5	138.7	144.7	4.3
AT	53.7	59.4	64.7	68.5	68.4	72.9	76.1	78.5	3.2
PL		110.7	130.1	152.3	188.8	200.6	205.7	212.4	3.2
PT	40.0	52.5	71.0	85.0	83.7	84.5	92.2	95.5	3.5
RO		40.0	51.0	61.0	75.5	89.9	97.3	103.8	6.7
SI	13.3	16.3	20.3	22.5	25.6	26.0	27.1	27.5	1.4
SK		18.0	23.9	25.8	26.9	27.5	28.1	28.5	1.2
FI	51.2	50.0	55.7	61.9	64.7	66.3	66.6	66.8	0.3
SE	85.9	87.6	103.7	108.0	108.0	111.9	116.1	116.0	–0.1
UK	588.0	617.9	638.6	667.1	644.7	655.2	669.8	672.7	0.4
ME					4.1	4.1	4.6	4.9	5.9
MK			4.8	4.0	4.7	7.0	7.2	7.5	3.9
AL		4.8	5.1	6.6	5.5	9.1	10.1	10.9	8.1
RS					30.6	28.6	30.0	30.2	0.7
TR	34.3	52.7	79.0	100.0	137.9	199.9	218.0	229.4	5.2
IS		3.0	3.8	4.6	5.0	5.6	6.6	5.8	–12.7
NO	43.5	44.7	51.2	54.0	58.8	64.7	66.4	66.8	0.7
CH	73.3	69.6	75.0	77.8	85.9	92.0	95.7	96.9	1.2

**NB:** Data are not harmonised and therefore not fully comparable. 2018 data may be provisional. Data sometimes include activity of foreign vehicles performed within the country, therefore EU aggregates might be affected by double-counting. Generally vans are not considered in this table, but there may be exceptions.  
FR: pkm include transport activity on the territory of vehicles not registered in France. Includes foreign vans.  
UK: data refer to Great Britain only; include pkm by vans.  
DE: includes former GDR: 1990 = 90.3. In 2019: data revision back to 2015. 2018 provisional figures.  
CH: includes activity of foreign vehicles in the country.  
TR: excludes urban traffic.  
DK: figures exclude activity of vans with a mass higher than 2 000 kg.  
PL: estimated activity.

## 2.3.5. Buses and coaches

	billion pkm								%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
EU-27		468.0	496.5	497.8	482.2	485.7	469.9	474.6	1.0
EU-28		512.8	544.5	541.7	528.4	526.6	509.3	511.4	0.4
BE	11.4	13.1	13.3	17.5	17.4	14.4	13.4	13.5	1.2
BG	26.0	11.6	14.6	13.7	10.6	12.5	10.6	9.9	–6.3
CZ		18.6	16.2	15.6	17.0	16.3	18.3	18.1	–0.7
DK	6.4	7.3	7.4	7.2	6.8	6.9	7.3	7.1	–2.6
DE	73.1	68.5	69.0	67.1	61.8	65.1	62.5	62.5	0.0
EE	4.5	2.0	2.6	2.7	2.1	3.1	2.8	2.8	–0.8
IE	3.9	5.2	7.0	7.9	8.5	8.5	9.8	10.5	6.9
EL	17.7	20.2	21.7	21.7	21.1	21.1	20.5	20.5	0.4
ES	33.4	39.6	50.3	53.2	50.9	46.4	30.5	32.2	5.5
FR	52.3	53.2	49.6	50.1	54.0	57.7	57.3	57.6	0.5
HR	7.0	4.1	3.3	3.4	3.2	3.4	4.2	3.8	–7.4
IT	84.0	87.1	93.4	101.0	102.2	102.5	102.7	103.0	0.3
CY		1.0	1.1	1.3	1.3	1.4	1.5	1.6	3.2
LV	5.9	1.8	2.3	2.9	2.3	2.2	2.1	2.2	0.5
LT	7.9	4.2	2.8	3.7	2.7	2.7	2.7	2.8	3.7
LU	0.5	0.5	0.6	0.8	0.9	1.1	1.1	1.2	2.2
HU	19.3	16.6	18.7	17.8	16.5	17.8	18.3	18.9	3.0
MT		0.4	0.5	0.5	0.5	0.5	0.6	0.6	2.1
NL	13.0	12.0	4.6	4.8	4.8	4.9	4.6	5.3	13.8
AT	5.7	7.1	9.0	9.2	8.6	9.1	9.7	10.3	6.3
PL	46.3	34.0	59.2	49.2	41.7	37.6	36.1	34.5	–4.2
PT	10.3	11.3	11.8	6.4	6.1	6.6	7.4	7.9	6.9
RO	24.0	12.3	7.7	11.8	15.8	17.5	18.2	19.9	9.7
SI	6.5	4.1	3.5	3.1	3.2	3.6	3.7	3.8	1.9
SK		14.4	9.3	8.5	5.3	5.4	5.9	6.2	5.3
FI	8.5	8.0	7.7	7.5	7.5	7.5	8.2	8.0	–2.8
SE	9.7	9.7	9.2	9.3	9.4	9.8	10.0	10.0	0.1
UK	47.1	44.8	48.0	44.0	46.2	40.9	39.5	36.8	–6.9
ME					0.1	0.1	0.1	0.1	0.7
MK		0.9	0.9	1.1	1.4	1.2	1.2	1.3	2.5
AL	2.2	0.2	0.2	0.3	2.4	1.2	1.2	1.3	5.8
RS					9.4	9.4	10	10	7.2
TR		85.7	87.4	95.0	89.1	90.8	87.5	88.3	0.9
IS		0.4	0.5	0.6	0.6	0.7	0.9	0.9	2.2
NO	3.9	3.8	4.1	4.3	4.5	4.1	4.2	4.4	3.1
CH	3.3	5.5	4.8	5.3	5.5	6.0	6.2	6.3	1.2

**NB:** Data are not harmonised and therefore not fully comparable. 2018 data may be provisional. Data sometimes include activity of foreign vehicles performed within the country, therefore EU aggregates might be affected by double-counting.  
CS: 1990 = 43.4.

ES: break in series between 2013 and 2014 and between 2016 and 2017 due to a change in methodology.

FR: includes tram transport activity at province level, and tram transport in Île-de-France until 2000. It also includes occasional bus transport in the territory of France performed by foreign buses. In 2018 revision of data from 2000 onwards following change in the methodology.

AT: the times series includes an estimate for trolleybuses.

UK: Great Britain data + 1.5 billion pkm throughout to account for Northern Ireland.

CH: includes activity of foreign vehicles in the country.

PL: includes long-distance transport and estimated data for urban transport.

NL: the time series from 2010 estimates the share of bus transport over the aggregate 'bus/tram/metro' published in the OViN travel survey. Previous years' estimates have been retrofitted until 2010. Since 2018 new methodology.

## 2.3.6. Tram and metro

billion pkm									%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
EU-27		63.8	67.8	73.2	80.7	82.5	86.4	89.4	3.5
EU-28		70.6	76.2	81.8	90.9	95.8	100.9	103.5	2.6
BE	0.7	0.8	0.9	0.9	1.1	1.2	1.4	1.4	0.0
BG	0.6	0.3	0.4	0.4	0.9	0.7	1.1	1.1	1.4
CZ		7.7	8.1	7.9	9.0	9.4	10.7	10.7	–0.1
DK	—	—	—	0.2	0.2	0.3	0.3	0.4	3.2
DE	15.1	14.4	14.6	15.5	16.3	16.7	17.2	17.6	2.3
EE		0.1	0.1	0.1	0.2	0.2	0.1	0.1	13.8
IE	—	—	—	0.1	0.1	0.2	0.2	0.3	71.4
EL	0.8	0.7	1.2	1.5	1.7	1.7	1.7	1.7	0.0
ES	4.4	4.3	5.2	6.0	7.6	7.2	7.6	8.7	14.2
FR	6.8	6.2	7.7	9.4	9.8	10.2	10.4	10.8	4.2
HR		0.5	0.5	0.5	0.5	0.6	0.6	0.6	–5.2
IT	4.2	5.2	5.6	6.0	7.1	6.8	6.9	6.9	–1.2
CY	—	—	—	—	—	—	—	—	—
LV	0.7	0.3	0.3	0.3	0.1	0.1	0.1	0.1	–0.9
LT	—	—	—	—	—	—	—	—	—
LU	—	—	—	—	—	—	—	0.2	—
HU		2.5	2.6	2.4	2.5	2.9	3.0	2.7	–11.1
MT	—	—	—	—	—	—	—	—	—
NL	1.3	1.4	0.7	0.7	0.9	0.9	0.9	1.0	18.1
AT	4.2	5.1	6.0	6.4	6.9	7.2	7.2	7.2	0.0
PL		5.0	4.7	4.4	4.3	4.2	4.3	4.4	0.9
PT	0.7	0.5	0.5	0.8	1.1	1.0	1.1	1.2	4.9
RO		6.0	6.0	6.6	7.1	7.6	7.9	8.7	9.7
SI	—	—	—	—	—	—	—	—	—
SK		0.4	0.4	0.4	0.3	0.3	0.3	0.3	–1.4
FI	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.7	17.4
SE	2.0	1.9	2.0	2.0	2.3	2.5	2.6	2.7	3.4
UK	6.5	6.8	8.3	8.7	10.2	13.2	14.4	14.1	–2.7
ME	—	—	—	—	—	—	—	—	—
MK	—	—	—	—	—	—	—	—	—
AL	—	—	—	—	—	—	—	—	—
RS					0.4	0.4	0.6	0.6	2.5
TR									
IS	—	—	—	—	—	—	—	—	—
NO	0.4	0.4	0.5	0.5	0.6	0.8	1.0	1.0	4.0
CH		1.5	1.4	0.8	1.0	1.2	1.2	1.2	–0.2

**NB:** Data are not harmonised and therefore not fully comparable across countries. Data for 2017 are mostly provisional.  
 FR: data refer to the Paris Metro, tramways in Île-de-France (as of 2000) and metros in other French cities.  
 PT: data refer to Lisbon, Porto and Sul do Tejo metro systems (the latter as from 2014).  
 ES: including metro of Malaga since 2014.  
 AT: includes regional rail transport activity.  
 NL: the time series from 2010 estimates the share of tram and metro over the aggregate 'bus/tram/metro' published in the OViN travel survey. Previous years' estimates have been retrofitted until 2010.



## 2.3.7.

## Railways

	billion pkm							% UNDER PSO (*) 2018	% CHANGE 2017– 2018
	1995	2000	2005	2010	2015	2016	2017		
EU-27	312.7	338.6	339.8	358.3	381.7	400.8	407.2		1.6
EU-28	342.9	377.0	384.5	414.1	448.3	469.7	476.9		1.5
BE	6.8	7.7	8.5	10.6	10.3	10.4	10.7		3.3
BG	4.7	3.5	2.4	2.1	1.5	1.4	1.5	98.5	2.9
CZ	8.0	7.3	6.7	6.6	8.1	9.4	10.2	85.8	8.7
DK	4.9	5.5	6.0	6.3	6.5	6.3	6.2	100.0	–1.4
DE	71.0	75.4	76.8	83.9	91.7	95.5	98.1	56.9	2.7
EE	0.4	0.3	0.2	0.2	0.3	0.4	0.4	95.4	13.9
IE	1.3	1.4	1.8	1.7	1.9	2.1	2.3	100.0	7.5
EL	1.6	1.9	1.9	1.4	1.3	1.1	1.1	97.5	–0.7
ES	16.6	20.1	21.6	22.5	26.1	27.5	28.4	43.2	3.3
FR	46.8	74.9	82.3	92.4	94.7	100.1	97.1	40.4	–3.0
HR	1.1	1.3	1.2	1.7	0.9	0.7	0.7	98.8	1.5
IT	46.7	49.6	50.1	47.2	52.2	53.2	55.5	55.9	4.2
CY	—	—	—	—	—	—	—	—	—
LV	1.4	0.7	0.9	0.7	0.6	0.6	0.6	93.3	4.7
LT	1.1	0.6	0.3	0.2	0.3	0.3	0.4	72.4	12.4
LU	0.3	0.3	0.3	0.3	0.4	0.4	0.4	100.0	1.1
HU	8.4	9.7	9.9	7.7	7.6	7.7	7.8	99.1	0.5
MT	—	—	—	—	—	—	—	—	—
NL	16.4	14.7	15.2	16.9	17.5	18.4	18.9	100.0	2.5
AT	10.1	8.7	8.7	10.3	12.2	12.7	13.2	66.9	4.3
PL	26.6	24.1	18.2	17.9	17.4	20.3	21.0	88.6	3.6
PT	4.8	4.0	3.8	4.1	4.0	4.5	4.6	8.2	1.2
RO	18.9	11.6	8.0	5.4	5.1	5.7	5.6		–1.5
SI	0.6	0.7	0.7	0.7	0.6	0.6	0.6	98.5	–0.4
SK	4.2	2.9	2.2	2.3	3.4	3.8	3.8	91.5	1.0
FI	3.2	3.4	3.5	4.0	4.1	4.3	4.5	96.8	6.2
SE	6.8	8.2	8.9	11.2	12.7	13.3	13.5	50.3	1.6
UK	30.3	38.4	44.6	55.8	66.6	68.9	69.7	96.9	1.2
ME				0.1	0.1	0.1	0.1		11.7
MK	0.1	0.1	0.1	0.2	0.2	0.1	0.1		6.8
AL	0.2	0.1	0.1	0.0	0.0	0.0	0.0		12.5
RS	2.3	1.2	0.7	0.5	0.5	0.4	0.3		–8.0
TR	5.8	5.8	5.0	5.5	4.8	4.6	5.6		21.8
IS	—	—	—	—	—	—	—	—	—
NO	2.4	2.6	2.7	3.2	3.6	3.6	3.8	99.1	4.3
CH	11.7	12.6	16.1	19.2	20.4	20.9	20.6		–1.3

**NB:** (\*) Public service obligation (PSO) means a requirement defined or determined by a competent authority in order to ensure public passenger transport services in the general interest that an operator, if it were considering its own commercial interests, would not assume or would not assume to the same extent or under the same conditions without reward.

BE as of 2014, UIC data. UK share of PSO excludes Northern Ireland. EU-28 shares of PSO estimated on the basis of the available data. FR: in 2018 the methodology changed, data back to 2015 were revised; recalibration of time series back to 1990.

## 2.3.8.

## Rail

### HIGH-SPEED RAIL TRANSPORT (\*)

billion pkm														%		
	BE	CZ	DE	ES	FR	IT	NL	PL	PT	SI	FI	SE	UK	EU-27	EU-28	EU-27 ANNUAL CHANGE
1990	—	—	—	—	14.92	0.30	—	—	—	—	—	0.01	—	15.23	15.23	
1995	—	—	8.70	1.29	21.43	1.10	—	—	—	—	—	0.42	—	32.94	32.94	7.2
2000	0.87	—	13.93	1.94	34.75	5.09	0.11	—	—	—	0.07	2.05	—	58.80	58.80	11.6
2005	0.98	0.01	20.85	2.32	43.13	8.55	0.69	—	0.49	—	0.31	2.33	0.45	79.66	80.11	5.3
2006	1.00	0.15	21.64	2.70	44.85	8.91	0.73	—	0.51	—	0.44	2.49	0.90	83.41	84.32	4.7
2007	1.02	0.33	21.92	2.59	47.97	8.82	0.80	—	0.51	—	0.58	2.78	1.39	87.30	88.70	4.7
2008	1.08	0.25	23.33	5.48	52.56	8.88	0.87	—	0.53	0.01	0.62	2.99	0.99	96.61	97.60	10.7
2009	1.06	0.24	22.56	11.51	51.86	10.75	0.92	—	0.53	0.02	0.60	3.05	1.01	103.09	104.10	6.7
2010	1.06	0.27	23.90	11.72	51.89	11.61	0.29	—	0.52	0.02	0.65	2.94	1.01	104.86	105.87	1.7
2011	0.91	0.29	23.31	11.23	51.37	12.28	0.31	—	0.47	0.01	0.71	2.83	4.36	103.70	108.06	−1.1
2012	0.91	0.27	24.75	11.18	51.09	12.79	0.32	—	0.46	0.01	0.71	2.95	4.36	105.44	109.80	1.7
2013	0.91	0.25	25.18	12.74	50.79	12.79	0.36	—	0.47	0.01	0.76	3.06	4.36	107.30	111.67	1.8
2014	0.91	0.25	24.32	12.79	50.66	12.79	0.24	—	0.54	0.01	0.65	3.23	2.90	106.38	109.28	−0.9
2015	1.20	0.57	25.28	14.13	49.98	12.79	1.00	0.47	0.57	0.01	0.57	3.37	2.90	109.92	112.82	3.3
2016	1.50	0.70	27.21	15.06	50.54	12.79	0.37	1.44	0.61	0.00	0.61	3.48	4.60	114.32	118.91	4.0
2017	1.56	0.77	28.50	15.54	58.28	12.79	0.41	1.44	0.65	0.00	0.68	3.60	4.83	124.23	129.06	8.7
2018	1.56	0.79	31.07	16.13	56.81	12.79	0.40	1.55	0.66	0.02	0.80	3.52	4.83	126.09	130.92	1.5

**NB:** In this table, high-speed rail transport covers all traffic with high-speed rolling stock (including tilting trains able to run 200 km/h). This does not necessarily require high-speed infrastructure as defined in Table 2.5.4.

### SHARE OF HIGH-SPEED RAIL TRANSPORT IN TOTAL PASSENGER-KILOMETRES IN RAIL TRANSPORT (\*\*)

																%	
	BE	CZ	DE	ES	FR	IT	NL	PL	PT	SI	FI	SE	UK	EU-27	EU-28		
2000	11.2	—	18.5	9.6	46.4	10.3	0.8	—	—	—	2.1	24.8	—	17.4	15.6		
2005	11.5	0.1	27.2	10.7	52.4	17.1	4.5	—	12.9	—	8.9	26.2	1.0	23.4	20.8		
2006	11.2	2.1	27.4	12.2	52.3	17.8	4.6	—	13.1	—	12.3	25.9	1.9	23.9	21.3		
2007	10.8	4.8	27.7	11.9	54.6	17.7	4.9	—	12.7	—	15.4	27.0	2.8	24.7	22.0		
2008	10.6	3.7	28.3	22.9	56.4	17.9	5.3	—	12.5	1.8	15.4	26.8	1.9	26.4	23.3		
2009	10.4	3.6	27.4	49.7	56.2	22.3	5.6	—	12.6	2.1	15.6	26.9	1.9	28.7	25.3		
2010	10.0	4.1	28.5	52.2	56.2	24.6	1.7	—	12.6	2.1	16.4	26.3	1.8	29.3	25.6		
2011	8.5	4.3	27.3	49.3	53.7	26.2	1.7	—	11.0	1.9	18.3	24.8	7.5	28.5	25.6		
2012	8.3	3.8	27.9	49.7	53.3	27.4	1.8	—	12.1	1.8	17.5	25.0	7.2	28.7	25.7		
2013	8.3	3.3	28.1	53.6	53.4	26.3	1.9	—	12.7	1.6	18.7	25.8	7.0	28.9	25.7		
2014	8.3	3.2	26.7	51.0	53.7	25.6	1.2	—	14.0	1.2	16.8	26.6	4.5	28.3	24.8		
2015	11.6	7.0	27.6	54.0	52.8	24.5	5.7	2.7	14.4	0.9	13.9	26.4	4.4	28.8	25.2		
2016	15.0	8.0	28.9	56.5	53.8	24.5	2.0	7.5	14.4	0.6	15.8	27.2	6.8	29.6	26.2		
2017	15.1	8.2	29.8	56.5	58.2	24.0	2.2	7.1	14.5	0.3	15.9	27.0	7.0	31.0	27.5		
2018	14.6	7.8	31.7	56.7	58.5	23.0	2.1	7.4	14.5	3.0	17.5	26.0	6.9	31.0	27.5		

## 2.3.9. United States

### PERFORMANCE BY MODE OF TRANSPORT: PASSENGERS

	billion pkm						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS	LIGHT AND COMMUTER RAIL	AIR	TOTAL
1990	5 280.5	20.0	28.2	195.7	12.3	556.6	6 093.3
1995	5 702.0	17.3	25.9	219.3	14.7	650.0	6 629.2
2000	6 372.2	24.9	31.1	505.5	17.3	834.6	7 785.6
2005	6 952.4	28.2	31.9	449.1	18.0	939.5	8 418.9
2010	7 131.7	34.6	36.7	470.0	20.8	908.8	8 602.7
2015	7 495.0	36.6	40.1	554.0	23.2	1 033.0	9 181.9
2017	7 751.0	37.6	38.9	588.0	24.2	1 116.6	9 556.2
2018	7 804.1	37.5	37.5	624.7	24.6	1 175.5	9 703.8

### AVERAGE ANNUAL CHANGE

	% per year						
	PASSEN- GER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS	LIGHT AND COM- MUTER RAIL	AIR	TOTAL
2005	1.0	-8.0	-0.3	-2.7	-1.1	4.6	1.1
2010	0.6	-11.1	0.5	-4.3	-2.8	2.3	0.4
2011	0.1	0.2	4.6	0.3	5.6	1.9	0.4
2012	0.5	15.3	1.6	7.0	-0.5	0.8	1.0
2013	0.5	-4.8	4.2	2.6	5.1	1.6	0.8
2014	1.2	-1.9	-1.1	5.5	-0.2	3.1	1.6
2015	2.6	-1.8	-0.3	1.4	0.9	5.6	2.8
2016	2.5	4.3	-0.2	0.7	0.8	4.4	2.6
2017	1.6	-1.8	-6.4	11.9	5.2	8.9	3.0
1990-1995	1.5	-2.8	-1.7	2.3	3.5	3.2	1.7
1995-2000	2.2	7.5	3.7	18.2	3.4	5.1	3.3
2000-2018	1.1	2.3	1.0	1.2	2.0	1.9	1.2

### MODAL SPLIT

	%						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS	LIGHT AND COMMUTER RAIL	AIR	
2000	81.8	0.3	0.4	6.5	0.2	10.7	
2005	82.6	0.3	0.4	5.3	0.2	11.2	
2010	82.9	0.4	0.4	5.5	0.2	10.6	
2011	82.7	0.4	0.4	5.5	0.3	10.7	
2012	82.3	0.5	0.4	5.8	0.3	10.7	
2013	82.1	0.4	0.5	5.9	0.3	10.8	
2014	81.8	0.4	0.5	6.1	0.3	11.0	
2015	81.6	0.4	0.4	6.0	0.3	11.3	
2016	81.5	0.4	0.4	5.9	0.2	11.4	
2017	81.1	0.4	0.4	6.2	0.3	11.7	
2018	80.4	0.4	0.4	6.4	0.3	12.1	

NB: Passenger car and motorcycle data were revised back to 2009.  
(\*) It includes: light-duty vehicles, short wheel base and long wheel base.

## 2.4.1.

# Air PASSENGER TRAFFIC BETWEEN MEMBER STATES

REPORTER	TOTAL PASSENGERS CARRIED (*)													
	PARTNER													
	BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY	LV
BE	8.8	361.4	484.3	705.7	1 865.8	48.8	511.9	1 098.9	6 039.9	2 438.9	246.5	3 385.2	68.2	138.8
BG	329.1	315.4	381.8	146.8	2 296.5	39.5	101.3	275.4	530.7	311.9	1.7	807.9	152.9	43.3
CZ	484.2	383.3	61.8	301.4	1 190.0	0.2	209.9	880.8	1 244.4	1 127.3	100.7	1 383.7	42.7	60.0
DK	704.8	146.7	301.3	1 946.6	2 829.8	107.0	277.3	1 087.6	3 433.7	1 551.7	237.6	1 508.8	113.9	266.4
DE	1 849.2	2 288.1	1 141.6	2 815.1	23 625.9	436.8	2 518.6	8 096.7	29 345.0	8 154.5	2 200.0	14 305.2	455.5	905.8
EE	48.8	40.4	0.1	106.7	440.4	27.8	22.0	77.5	71.2	37.5	11.6	95.5	33.8	244.6
IE	510.0	102.1	209.7	276.8	2 529.0	22.0	98.8	166.3	4 323.7	2 015.2	161.0	1 473.9	37.0	112.7
EL	1 139.9	275.4	822.7	1 048.5	7 980.3	73.6	163.5	8 553.6	763.2	2 751.8	76.3	3 543.9	1 701.2	93.8
ES	6 058.9	510.3	1 246.2	3 453.7	29 687.8	72.0	4 329.2	768.0	40 057.2	14 639.8	328.3	15 286.5	23.5	211.0
FR	2 280.1	274.8	1 053.4	1 448.6	8 245.8	37.2	1 939.6	2 556.2	13 016.6	31 035.1	625.3	11 336.5	32.3	174.2
HR	236.2	1.4	100.6	236.8	2 086.3	7.8	160.2	76.6	328.1	691.8	528.5	357.8	:	17.0
IT	3 360.5	836.2	1 383.4	1 512.7	14 348.4	95.7	1 486.4	3 583.8	15 170.4	11 879.7	357.0	32 182.6	122.6	250.4
CY	67.7	152.4	37.5	113.0	457.7	34.0	37.3	1 728.9	23.4	64.7	0.1	118.6	0.0	46.9
LV	138.3	44.4	60.0	267.1	911.3	245.2	112.7	101.4	210.5	175.9	23.6	251.5	46.8	10.6
LT	98.3	56.1	0.2	346.1	532.5	90.9	171.3	181.3	292.1	172.2	0.1	367.9	59.7	263.1
LU	0.8	24.4	13.7	79.3	540.7	:	63.1	77.0	540.1	262.5	10.2	398.8	0.0	0.0
HU	566.8	84.0	200.4	291.4	2 167.1	0.5	238.3	374.4	932.8	728.0	0.0	1 280.0	96.2	27.0
MT	233.8	53.4	29.7	85.9	821.7	15.4	80.3	62.7	320.1	405.6	3.8	1 398.8	34.4	47.9
NL	277.2	375.9	869.5	1 805.3	4 563.5	108.3	1 467.0	2 117.5	8 699.9	3 784.0	381.8	5 031.2	86.0	220.8
AT	503.0	451.2	169.4	438.0	7 130.5	52.7	170.5	995.1	1 826.5	1 271.3	342.3	1 537.3	252.1	111.0
PL	828.9	748.5	270.3	744.8	4 548.2	145.4	970.3	2 268.5	2 672.1	1 426.2	177.4	2 577.2	290.2	171.8
PT	1 497.7	30.7	199.6	399.3	5 278.7	2.8	1 129.3	93.9	4 896.6	7 218.5	29.8	2 248.6	0.0	22.1
RO	663.5	47.0	89.0	161.9	2 658.5	:	229.1	568.5	1 607.8	1 055.0	9.3	3 253.8	267.2	
SI	107.9	7.7	14.2	33.1	258.0	0.5	0.1	54.2	6.0	103.2	3.8	3.5	8.8	
SK	63.3	162.6	47.9	0.6	35.2	0.0	129.0	250.8	160.1	28.6	2.4	238.4	63.0	0.9
FI	200.4	74.9	320.7	988.3	1 922.3	297.7	128.7	604.4	1 798.2	673.7	216.4	572.7	47.4	372.4
SE	567.7	73.2	290.2	1 922.3	3 121.5	230.4	159.5	1 301.5	3 720.8	1 128.1	392.3	983.4	259.6	325.0

NB: (\*) Passengers carried are fewer than passengers on board, due to transit passengers staying on board the aircraft not being counted.

2.4.1.

**Air**  
**PASSENGER TRAFFIC**  
**BETWEEN MEMBER STATES**

2018

INCLUDING DOMESTIC FLIGHTS (1 000)

LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE
99.1	1.4	566.5	235.8	280.3	573.8	829.0	1 498.7	668.8	107.6	63.9	199.4	567.8
56.1	23.8	83.6	53.8	368.7	451.2	748.6	30.7	58.6	7.7	186.4	74.3	72.5
0.1	13.8	201.4	30.0	869.0	172.9	268.0	199.3	89.2	13.1	62.0	320.8	279.4
348.6	79.9	291.9	84.3	1 802.6	438.8	741.4	397.1	161.9	33.2	0.6	990.5	1 939.0
530.4	539.5	2 167.0	822.2	4 543.2	7 116.6	4 545.0	5 237.2	2 714.2	258.9	35.1	1 908.9	3 164.6
91.5		0.3	15.2	108.5	52.7	145.3	2.6	3.6	0.5		270.5	229.1
174.5	63.5	238.0	81.0	1 472.4	170.6	979.9	1 126.8	229.6	0.142	131.3	128.0	159.4
169.3	76.3	367.4	62.0	2 215.4	981.8	2 110.6	92.7	569.8	56.9	247.9	577.7	1 293.2
295.3	547.4	932.6	322.7	8 728.3	1 828.9	2 638.7	4 853.9	1 727.3	6.0	160.9	1 803.4	3 851.0
172.6	263.8	726.9	405.0	3 766.0	1 274.3	1 300.5	6 829.7	979.6	102.3	29.1	668.3	1 113.4
0.1	8.0		3.7	374.7	333.9	175.5	29.7	9.2	2.9	0.4	215.4	383.1
368.6	397.8	1 277.9	1 404.8	5 054.5	1 544.2	2 552.2	2 247.5	3 606.4	3.6	239.2	588.2	969.0
60.4	0.1	96.3	34.7	89.5	253.5	283.4	0.0	266.5	0.4	63.3	46.3	274.8
264.2	0.0	27.0	48.2	222.0	111.0	171.4	22.5		0.0	2.2	372.0	324.8
0.4		0.2	35.2	163.3	56.8	313.3	5.2	0.3	0.0	0.1	113.1	198.4
	0.8	0.1	3.4	180.4	107.9	52.6	663.2	0.0	0.3	0.0	0.9	26.7
0.2	0.2	0.0	86.5	801.9	106.0	284.0	214.0	152.9	0.0		268.7	372.2
35.2	5.2	85.8	0.4	149.0	133.7	226.4	49.6	73.0	5.1	30.8	23.3	95.4
164.1	181.1	801.5	146.3	2.6	1 205.3	1 509.2	2 362.2	606.2	90.2	16.3	743.7	1 443.5
56.9	108.2	105.9	141.5	1 230.8	585.2	384.6	300.7	552.2	62.7	57.9	199.8	350.3
314.9	53.3	284.5	228.2	1 507.4	386.1	1 905.0	601.9	243.8	53.0	74.8	385.9	1 545.3
5.3	673.4	213.8	50.2	2 372.8	303.5	600.7	5 170.0	150.0	0.2	0.0	201.4	309.1
0.3	0.0	153.5	73.5	605.6	548.7	242.3	149.6	1 419.9	5.4	0.0	37.5	194.6
	0.2	0.0	5.1	102.6	62.1	54.2	0.3	5.5	0.0	0.2	29.5	0.2
0.0	0.0	0.3	30.6	16.3	57.8	74.2	0.0	0.3	0.1	20.7	0.3	0.3
114.1	1.0	269.0	23.6	745.2	200.2	386.4	200.0	38.5	29.6	0.5	2 991.7	1 938.2
200.2	27.2	371.9	96.4	1 441.3	351.0	1 549.2	308.5	195.0	0.0	0.3	1 934.9	7 640.0

## 2.4.2.

## Air

### MAJOR EUROPEAN AIRLINES

#### DOMESTIC + INTERNATIONAL

RANKING	BILLION REVENUE PASSENGER-KILOMETRES								%
	AIRLINE		2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Ryanair <sup>(1)</sup>	IE	4.772	31.205	72.149	130.564	162.544	176.951	8.9
2	Lufthansa	DE	92.160	108.185	129.668	146.317	153.168	160.074	4.5
3	British Airways	UK	119.385	107.892	106.082	142.016	147.341	152.177	3.3
4	THY Turkish Airlines	TR	17.396	21.318	47.950	119.372	136.927	149.131	8.9
5	Air France	FR	91.848	115.163	125.165	142.487	144.941	147.729	1.9
6	KLM Royal Dutch Airlines	NL	60.336	68.322	76.065	93.228	103.487	107.676	4.0
7	EasyJet <sup>(2)</sup>	UK	3.926	27.448	56.128	77.619	89.685	98.522	9.9
8	Norwegian	NO	0.000	2.703	13.774	42.284	63.320	85.124	34.4
9	Iberia	ES	40.049	49.060	51.242	48.569	54.941	58.274	6.1
10	Wizz Air	HU			12.278	30.786	47.210	55.994	18.6
11	Eurowings <sup>(3)</sup>	DE		4.519	6.966	15.870	42.633	52.634	23.5
12	SWISS Intern. Airlines	CH	3.481	21.164	29.522	40.047	45.593	50.303	10.3
13	SAS	SE	22.922	27.724	23.497	33.780	40.078	39.946	–0.3
14	TUI Airways	UK	20.300	23.337	32.714	33.395	37.078	39.163	5.6
15	TAP Portugal	PT	10.414	14.536	23.651	29.552	34.711	38.048	9.6
16	Alitalia	IT	40.846	37.969	33.344	34.397	35.737	37.956	6.2
17	Virgin Atlantic Airways	UK	31.315	32.118	38.158	37.157	36.139	37.529	3.8
18	Finnair	FI	12.587	16.735	19.222	25.592	30.750	34.660	12.7
19	Vueling Airlines	ES		1.661	9.932	24.775	29.125	31.973	9.8
20	Condor	DE		22.245	19.888	27.903	28.592	31.555	10.4
21	Pegasus	TR			10.662	21.223	28.910	30.036	3.9
22	Thomas Cook Airlines	UK	10.118	7.500	8.354	22.460	26.516	28.417	7.2
23	Air Europa	ES	8.831	13.442	17.180	22.502	25.355	28.147	11.0
24	Jet2	UK	0.000	3.105	6.219	12.222	20.670	26.511	28.3
25	Aer Lingus	IE	8.808	12.563	13.895	17.531	21.412	23.516	9.8
26	Austrian	AT	17.967	22.894	17.494	18.190	20.018	21.973	9.8
27	Brussels Airlines	BE	3.418	4.559	7.313	11.833	15.257	17.248	13.0
28	Transavia Airlines	NL	7.921	8.726	10.644	12.593	15.889	16.747	5.4
29	LOT Polish Airlines	PL	0.000	6.284	7.554	7.232	12.660	16.641	31.4
30	SunExpress	TR	1.969	3.938	10.840	12.210	13.791	15.205	10.3

NB: Scheduled and non-scheduled flights.

<sup>(1)</sup> Ryanair: Year up to 30 March of the following year.

<sup>(2)</sup> Easyjet: Financial year up to 30 September of the year indicated.

<sup>(3)</sup> Germanwings merged with Eurowings in 2015.

Data up to 2014 are revenue passenger-kilometres for Germanwings.

## 2.4.3.

## Air

## PASSENGER TRAFFIC AT MAJOR EU AIRPORTS

## PASSENGERS CARRIED (\*)

RANKING	(arriving + departing + in transit) MILLION								%
	AIRPORT, COUNTRY	2000	2005	2010	2015	2017	2018	CHANGE 2017–2018	
1	Paris / Charles de Gaulle FR	49.67	53.38	57.93	65.67	69.42	72.20	4.0	
2	Amsterdam / Schiphol NL	39.27	44.08	45.15	58.17	68.42	70.98	3.7	
3	Frankfurt (Main) DE	48.96	51.79	52.65	60.89	64.39	69.39	7.8	
4	Madrid / Barajas ES	24.38	41.72	49.80	46.30	52.02	56.48	8.6	
5	Barcelona / El Prat ES	14.39	27.02	29.18	39.42	46.80	49.59	6.0	
6	München DE	22.87	28.45	34.52	40.86	44.54	46.21	3.8	
7	Roma / Fiumicino IT	25.94	27.78	35.95	40.23	40.84	42.89	5.0	
8	Paris / Orly FR	23.83	24.85	25.16	29.66	32.04	33.11	3.4	
9	Dublin IE	13.66	18.33	18.41	24.92	29.36	31.23	6.4	
10	København / Kastrup DK	18.11	19.82	21.39	26.51	29.10	30.19	3.7	
11	Palma De Mallorca ES	16.87	21.22	21.08	23.72	27.95	29.07	4.0	
12	Lisboa PT	9.21	11.24	14.05	20.11	26.68	29.05	8.9	
13	Wien / Schwechat AT	11.92	15.80	19.62	22.74	24.33	27.02	11.1	
14	Stockholm / Arlanda SE	18.61	17.16	16.96	23.15	26.59	26.84	1.0	
15	Brussel-Bruxelles / Brussels BE	21.60	15.95	16.98	23.27	24.78	25.64	3.5	
16	Düsseldorf DE	15.91	15.39	18.91	22.45	24.61	24.26	–1.4	
17	Milano / Malpensa IT	20.55	19.49	18.71	18.44	22.04	24.15	9.6	
18	Athina / Eleftherios Venizelos EL	13.35	14.34	15.39	18.09	21.72	24.13	11.1	
19	Berlin-Tegel DE	10.24	11.47	14.97	20.99	20.45	21.99	7.5	
20	Helsinki-Vantaa FI	10.00	11.13	12.86	16.42	18.98	20.99	10.6	
21	Malaga ES	8.26	12.61	12.02	14.36	18.57	18.93	1.9	
22	Warszawa / Chopina PL	4.33	7.08	8.73	11.21	15.76	17.77	12.8	
23	Hamburg DE	9.82	10.57	12.88	15.58	17.59	17.20	–2.2	
24	Praha / Ruzyne CZ	5.55	10.72	11.51	11.87	15.37	16.81	9.4	
25	Budapest / Ferihegy HU	4.68	7.92	8.17	10.23	13.03	14.80	13.6	
26	Alicante ES	5.29	8.93	9.37	10.56	13.67	13.93	1.9	
27	Nice / Côte d'Azur FR	9.33	9.74	9.59	12.01	13.30	13.84	4.0	
28	Bucuresti RO		2.98	4.92	9.27	12.80	13.82	7.9	
29	Las Palmas / Gran Canaria ES	7.66	9.69	9.28	10.44	12.89	13.37	3.7	
30	Köln / Bonn DE	6.19	9.39	9.79	10.31	12.37	12.94	4.6	

**NB:** (\*) 'Passengers carried' does not include direct transit passengers, i.e. transit passengers who stay on board the aircraft and continue their flight with the same flight number. Where the number of passengers carried was not available, the number of 'passengers on board' (i.e. incl. direct transit passengers) is given in *italics*.

## 2.4.4a.

## Air

### MAIN INTRA-EU AIRPORT PAIRS IN PASSENGER TRANSPORT

#### PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport)					1 000	%
	AIRPORT PAIRS	2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Madrid / Barajas – Barcelona	4 358.3	3 083.8	2 251.7	2 342.0	2 467.8	5.4
2	Frankfurt (Main) – Berlin / Tegel	1 545.6	1 609.4	1 906.1	1 955.9	2 292.6	17.2
3	Toulouse / Blagnac – Paris / Orly	2 327.1	2 193.7	2 318.1	2 325.2	2 282.4	–1.8
4	Paris / Orly – Nice / Côte d'Azur	2 262.6	2 100.3	2 112.9	2 173.2	2 144.6	–1.3
5	Palma De Mallorca – Barcelona	1 689.3	1 532.5	1 576.1	1 944.7	2 035.7	4.7
6	Berlin / Tegel – München	1 419.2	1 580.0	1 974.7	1 971.9	1 985.3	0.7
7	Catania / Fontanarossa – Roma / Fiumicino	1 368.7	1 717.8	1 987.7	2 014.0	1 980.6	–1.7
8	Palma de Mallorca – Madrid / Barajas	1 641.5	1 698.9	1 411.2	1 815.6	1 967.3	8.4
9	München – Hamburg	1 450.5	1 653.0	1 811.0	1 740.3	1 745.7	0.3
10	Palermo / Punta Raisi – Roma / Fiumicino	1 106.7	1 406.8	1 476.9	1 589.1	1 666.9	4.9
11	Las Palmas / Gran Canaria – Madrid / Barajas	1 388.1	1 553.7	1 305.7	1 510.4	1 616.6	7.0
12	Athinai / Eleftherios Venizelos – Thessaloniki	1 054.3	1 176.3	1 639.5	1 598.5	1 543.9	–3.4
13	Palma De Mallorca – Düsseldorf	980.5	911.9	1 214.0	1 276.4	1 523.9	19.4
14	Lisboa – Madrid / Barajas	742.3	1 172.0	1 175.2	1 427.5	1 518.2	6.4
15	København / Kastrup – Stockholm / Arlanda	1 194.1	1 166.0	1 458.4	1 512.8	1 512.1	0.0
16	Tenerife Norte – Madrid / Barajas	1 359.4	1 319.7	1 149.5	1 380.9	1 487.3	7.7
17	Frankfurt (Main) – Hamburg	1 288.3	1 480.6	1 360.5	1 395.2	1 439.3	3.2
18	Barcelona – Amsterdam / Schiphol	1 108.0	1 066.1	1 204.8	1 363.7	1 420.3	4.2
19	Düsseldorf – München	1 381.5	1 533.4	1 552.1	1 552.9	1 419.7	–8.6
20	Barcelona – Roma / Fiumicino	595.5	688.5	1 190.6	1 225.8	1 332.4	8.7
21	Madrid / Barajas – Paris / Orly	964.3	1 105.9	1 169.1	1 152.7	1 331.5	15.5
22	Ponte-à-Pitre (Guadeloupe) / Pôle Caraïbes – Paris / Orly	987.6	1 033.8	1 159.6	1 223.0	1 302.2	6.5
23	Lisboa – Paris / Orly	556.2	604.7	1 045.1	1 297.4	1 288.0	–0.7
24	Helsinki / Vantaa – Stockholm / Arlanda	833.4	805.7	1 073.5	1 214.5	1 276.6	5.1
25	Barcelona – Paris / Charles de Gaulle	876.3	860.8	1 231.4	1 290.5	1 273.4	–1.3
26	Amsterdam / Schiphol – Paris / Charles de Gaulle	1 038.7	990.2	1 137.2	1 263.5	1 238.2	–2.0
27	Berlin / Tegel – Stuttgart	766.4	733.6	960.2	1 036.9	1 237.8	19.4
28	Madrid / Barajas – Roma / Fiumicino	929.7	1 268.5	1 004.7	1 092.4	1 219.1	11.6
29	Barcelona – Paris / Orly	528.0	743.2	960.2	1 163.7	1 212.8	4.2
30	Roma / Fiumicino – Paris / Charles de Gaulle	1 240.4	1 195.4	1 141.4	1 088.5	1 207.4	10.9



## 2.4.4b.

## Air

### MAIN CONNECTIONS BETWEEN EU AND NON-EU AIRPORTS IN PASSENGER TRANSPORT

#### TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport)					1 000	%
	AIRPORT PAIRS	2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Dublin – London / Heathrow, United Kingdom	2 086	1 491	1 683	1 803	1 810	0.3
2	Amsterdam / Schiphol – London / Heathrow, United Kingdom	1 894	1 333	1 549	1 689	1 746	3.4
3	Paris / Charles de Gaulle – New York / J.F. Kennedy Intl, NY, USA	1 730	1 190	1 503	1 553	1 580	1.7
4	Barcelona – London / Gatwick, United Kingdom	556	377	1 354	1 460	1 556	6.6
5	Frankfurt (Main) – London / Heathrow, United Kingdom	1 523	1 260	1 523	1 494	1 551	3.8
6	København / Kastrup – Oslo / Gardermoen, Norway	1 247	1 132	1 423	1 550	1 515	–2.2
7	Stockholm / Arlanda – Oslo / Gardermoen, Norway	937	1 007	1 336	1 396	1 432	2.6
8	Madrid / Barajas – London / Heathrow, United Kingdom	1 073	1 089	1 321	1 382	1 417	2.5
9	Dublin – London / Gatwick, United Kingdom	626	843	1 087	1 367	1 348	–1.4
10	Paris / Charles de Gaulle – London / Heathrow, United Kingdom		1 313	1 282	1 211	1 245	2.8
11	München – London / Heathrow, United Kingdom	914	970	1 225	1 185	1 237	4.4
12	Paris / Charles de Gaulle – Montreal / Pierre Elliot Trudeau Intl, Canada	929	1 148	1 147	1 183	1 185	0.2
13	Berlin / Tegel – Zürich, Switzerland	467	801	986	981	1 180	20.3
14	Paris / Charles de Gaulle – Dubai Intl, United Arab Emirates	439	716	1 077	1 149	1 168	1.7
15	Malaga – London / Gatwick, United Kingdom	979	910	1 069	1 161	1 094	–5.8
16	Amsterdam / Schiphol – London / Gatwick, United Kingdom	596	556	1 030	1 074	1 083	0.8
17	Roma / Fiumicino – London / Heathrow, United Kingdom	971	1 031	969	975	1 075	10.3
18	Amsterdam / Schiphol – Manchester, United Kingdom	592	442	858	1 048	1 043	–0.6
19	Madrid / Barajas – London / Gatwick, United Kingdom	406	602	959	1 030	1 029	–0.1
20	København / Kastrup – London / Heathrow, United Kingdom	904	870	998	983	1 013	3.1
21	Frankfurt (Main) – Dubai Intl, United Arab Emirates	491	679	903	984	1 006	2.2
22	Amsterdam / Schiphol – Zürich, Switzerland	549	612	761	940	995	5.9
23	Wien / Schwechat – Zürich, Switzerland	597	778	963	995	987	–0.8
24	Dublin – Manchester, United Kingdom	648	554	863	980	985	0.5
25	Stockholm / Arlanda – London / Heathrow, United Kingdom	900	912	1 002	1 013	970	–4.2
26	Paris / Charles de Gaulle – Istanbul / Atatürk, Turkey	415	688	921	918	930	1.4
27	Dublin – Birmingham, United Kingdom	485	539	785	912	927	1.6
28	Paris / Charles de Gaulle – Shanghai / Pudong, CN		521	778	868	916	5.5
29	Amsterdam / Schiphol – Dubai Intl, United Arab Emirates	231	434	775	887	901	1.6
30	Dublin – London / Stansted United Kingdom	1 123	720	879	891	897	0.6

## 2.4.5.

## Air

### FREIGHT TRAFFIC AT MAJOR EU AIRPORTS

#### CARGO AND MAIL LOADED AND UNLOADED

RANKING	1 000 TONNES								%
	AIRPORT, COUNTRY		2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Frankfurt (Main)	DE	1 703.4	1 950.6	2 270.2	2 075.7	2 193.4	2 175.7	–0.8
2	Paris / Charles de Gaulle	FR	1 067.0	1 217.8	1 290.9	2 090.6	2 161.3	2 123.8	–1.7
3	Amsterdam / Schiphol	NL	1 222.5	1 495.6	1 538.0	1 655.3	1 778.2	1 729.6	–2.7
4	Leipzig-Halle	DE	13.7	12.3	637.8	982.5	1 130.5	1 209.3	7.0
5	Luxembourg	LU	499.9	624.8	705.8	736.9	892.7	895.0	0.3
6	Köln-Bonn	DE	438.3	646.8	638.2	739.5	822.2	844.3	2.7
7	Liège / Bierset	BE	270.3	325.7	508.5	625.3	695.8	799.4	14.9
8	Brussel-Bruxelles / Brussels	BE	687.4	694.5	385.0	483.1	530.1	586.9	10.7
9	Milano / Malpensa	IT	295.7	383.8	432.7	511.2	589.5	577.4	–2.1
10	Madrid / Barajas	ES	280.4	360.3	400.5	382.6	450.0	492.2	9.4
11	München	DE	148.4	218.2	291.1	336.0	378.6	368.1	–2.8
12	Wien / Schwechat	AT	65.9	180.0	231.8	209.1	220.8	229.6	4.0
13	København / Kastrup	DK	419.4	355.1	138.1	196.6	219.4	224.6	2.4
14	Roma / Fiumicino	IT	153.3	131.9	164.4	145.0	185.9	205.8	10.7
15	Helsinki / Vantaa	FI	96.1	114.8	157.5	177.4	185.2	192.4	3.9
16	Frankfurt / Hahn	DE	75.0	100.9	164.5	73.2	111.7	149.6	33.9
17	Barcelona	ES	75.5	94.5	105.9	102.2	139.0	149.2	7.4
18	Dublin	IE	35.5	64.1	105.3	137.3	144.9	143.7	–0.8
19	Lisboa	PT	114.6	100.0	105.2	100.8	126.0	135.2	7.3
20	Maastricht-Aachen	NL	44.3	54.6	62.0	56.6	86.9	124.7	43.4
21	Bergamo / Orio al Serio	IT	98.9	135.1	105.8	121.0	125.9	122.0	–3.0
22	Zaragoza	ES	3.2	3.8	42.1	65.1	104.4	116.9	12.0
23	Warszawa / Chopina	PL	44.6	31.1	57.1	72.3	98.2	108.3	10.4
24	Stockholm / Arlanda	SE	154.0	158.0	99.4	90.7	107.4	103.3	–3.9
25	Budapest / Ferihegy	HU	43.5	55.5	65.3	65.8	87.3	101.4	16.2
26	Paris / Orly	FR	107.3	80.0	53.8	126.3	98.5	95.1	–3.4
27	Athinai / Eleftherios Venizelos	EL	123.4	101.4	84.0	58.1	66.0	93.8	42.2
28	Praha / Ruzyně	CZ		51.6	58.2	50.5	81.8	82.5	0.9
29	Düsseldorf	DE	59.4	56.5	87.1	90.2	101.7	74.8	–26.5
30	Toulouse / Blagnac	FR	37.8	56.2	52.2	61.0	72.3	67.7	–6.4
31	Marseille / Provence	FR	36.0	51.0	58.6	55.2	57.7	58.5	1.4
32	Lyon / Saint Exupéry	FR	27.4	38.7	35.2	51.4	54.8	57.2	4.3
33	Venezia Tessera	IT		12.3	29.4	48.0	56.5	56.6	0.1
34	Bologna/Borgo Panigale	IT		7.8	28.2	30.8	42.0	40.5	–3.5
35	Bucuresti/Henri Coanda	RO		17.1	23.0	29.2	35.0	36.8	5.2

## 2.4.6.

## Air

### AIRCRAFT TRAFFIC AT MAJOR EU AIRPORTS

#### COMMERCIAL AIR FLIGHTS (PASSENGERS, FREIGHT AND MAIL)

RANKING	(not including general aviation)						1 000	%
	AIRPORT		2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Frankfurt (Main)	DE	475.6	456.0	460.5	468.8	505.0	7.7
2	Amsterdam / Schiphol	NL	408.2	390.4	455.2	498.5	502.0	0.7
3	Paris / Charles de Gaulle	FR	543.8	477.9	468.5	473.0	477.8	1.0
4	München	DE	382.3	368.2	365.7	389.8	398.2	2.2
5	Madrid / Barajas	ES	406.3	426.9	357.7	367.9	391.2	6.3
6	Barcelona	ES	294.3	268.5	279.0	310.2	322.2	3.9
7	Roma / Fiumicino	IT	299.6	327.3	311.8	296.0	308.8	4.3
8	København / Kastrup	DK	262.1	240.6	250.2	253.0	259.6	2.6
9	Wien / Schwechat	AT	227.5	243.0	224.8	222.3	238.7	7.4
10	Stockholm / Arlanda	SE	222.2	185.4	216.9	239.0	234.0	–2.1
11	Paris / Orly	FR	231.0	215.5	231.3	229.0	229.0	0.0
12	Dublin	IE	169.6	156.4	188.8	212.2	222.7	4.9
13	Brussel-Bruxelles / Brussels	BE	228.7	205.2	221.1	224.8	222.5	–1.0
14	Lisboa	PT	125.9	136.9	162.8	199.9	218.7	9.4
15	Athinai / Eleftherios Venizelos	EL	170.4	181.6	167.9	190.2	209.5	10.1
16	Düsseldorf	DE	189.0	211.4	202.8	212.6	209.5	–1.4
17	Palma De Mallorca	ES	170.5	165.2	170.0	195.9	208.9	6.6
18	Milano / Malpensa	IT	222.2	187.8	154.6	174.5	190.6	9.2
19	Helsinki / Vantaa	FI	163.1	169.9	165.3	167.5	183.7	9.6
20	Berlin / Tegel	DE	137.2	150.5	177.9	167.6	181.0	8.0
21	Warszawa / Chopina	PL	131.1	133.0	136.4	164.7	176.2	7.0
22	Nice / Côte d'Azur	FR	158.1	132.1	139.8	145.0	145.1	0.1
23	Praha / Ruzyně	CZ	150.2	147.9	120.1	133.9	141.2	5.5
24	Hamburg	DE	134.2	138.4	142.1	145.2	139.9	–3.6
25	Köln-Bonn	DE	139.9	120.6	114.8	128.4	131.9	2.7
26	Malaga	ES	111.1	97.3	101.0	125.5	130.5	3.9
27	Las Palmas / Gran Canaria	ES	98.4	93.2	89.9	108.1	120.0	10.9
28	București / Henri Coandă	RO	90.2	128.1	90.8	110.8	116.7	5.3
29	Stuttgart	DE	135.0	111.7	105.0	104.9	115.7	10.3
30	Lyon / Saint Exupéry	FR	130.1	115.4	105.0	108.6	109.8	1.1
31	Budapest / Ferihegy	HU	116.7	99.6	86.0	95.4	107.0	12.2
32	Milano / Linate	IT	93.1	91.5	95.9	96.4	94.5	–2.0
33	Porto	PT	45.3	54.6	68.6	84.6	94.3	11.6
34	Alicante	ES	70.2	72.0	72.2	92.3	93.7	1.5
35	Berlin / Schönefeld	DE	46.5	65.5	67.5	93.2	93.7	0.5
36	Marseille / Provence	FR	90.3	95.9	89.8	91.3	92.1	0.9
37	Toulouse / Blagnac	FR	80.2	80.4	81.1	90.9	89.5	–1.6
38	Venezia / Tesserà	IT	74.0	68.7	75.2	85.2	89.1	4.7
39	Bergamo / Orio al Serio	IT	47.8	65.3	74.3	84.5	86.8	2.7
40	Riga	LV	31.2	66.6	63.8	70.0	79.1	13.1

## 2.4.7.

## Sea

### INWARD AND OUTWARD FLOW OF PASSENGERS – BY COUNTRY

#### INWARDS

1 000	PASSENGERS			CRUISE PASSENGERS			CRUISE PASSENGERS		
	excluding cruise passengers			starting and ending a cruise			on excursion		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
EU-27	179 960	188 893	198 842	5 465	6 057	6 980			
EU-28	192 281	200 968	210 983	6 474	7 008	8 085			
BE	167	159	166	391	475	396			
BG	0	0	0	0			8	3	0
CZ	—	—	—	—	—	—	—	—	—
DK	20 629	21 279	21 743	170	211	204	500	601	681
DE	14 609	14 200	14 118	813	1 121	1 186			
EE	7 129	7 395	7 384	6	7	6	497	591	652
IE	1 360	1 392	1 366	3	2	20	220	262	378
EL	32 394	34 802	36 041	236	219	236			
ES	11 763	12 495	14 569	1 412	1 502	1 776	5 774	6 193	7 848
FR	11 953	12 283	12 524	372	358	423	3 319	3 655	3 798
HR	15 041	15 937	16 523	35	38	34	1 323	1 196	1 316
IT	31 828	35 060	40 278	1 849	1 875	2 495	3 598	3 132	4 150
CY	1	25	13	28	21	1	80	64	
LV	346	487	521				72	88	77
LT	144	141	154				64	75	70
LU	—	—	—	—	—	—	—	—	—
HU	—	—	—	—	—	—	—	—	—
MT	5 290	5 540	5 913	58	104	79	575	581	567
NL	997	963	996						
AT	—	—	—	—	—	—	—	—	—
PL	1 297	1 292	1 360	0	0	0			
PT	314	338	349	26	31	30	591	661	683
RO				0	0	0	7	2	
SI	14	15	12				81	74	109
SK	—	—	—	—	—	—	—	—	—
FI	9 657	9 792	9 659		7	9	408	490	533
SE	15 027	15 298	15 151	66	86	85	468	528	590
UK	12 321	12 075	12 141	1 009	951	1 105			
IS	274	459	403				242	399	436
NO	2 936	2 971	2 923	94	108	168	498	455	487
ME	58	62	45						
TR	550	626	624	73	58	64			

## 2.4.7. (CONTINUED)

### OUTWARDS

1 000	PASSENGERS			CRUISE PASSENGERS		
	excluding cruise passengers			starting and ending a cruise		
	2016	2017	2018	2016	2017	2018
<b>EU-27</b>	<b>178 804</b>	<b>187 433</b>	<b>197 648</b>	<b>5 407</b>	<b>6 043</b>	<b>6 743</b>
<b>EU-28</b>	<b>191 326</b>	<b>199 775</b>	<b>209 974</b>	<b>6 442</b>	<b>7 011</b>	<b>7 846</b>
BE	169	161	169	391	475	396
BG	3	2	3			
CZ	—	—	—	—	—	—
DK	20 613	21 147	21 621	172	214	206
DE	14 638	14 326	14 229	788	1 126	1 154
EE	7 192	7 441	7 440	6	7	6
IE	1 352	1 378	1 344	3	2	21
EL	32 392	34 782	36 003	227	220	240
ES	11 735	12 400	14 499	1 413	1 501	1 750
FR	11 823	12 093	12 359	367	359	426
HR	14 549	15 314	16 068	35	37	33
IT		35 069	40 278	1 841	1 872	2 331
CY		26	13	30	0	1
LV	377	507	542			
LT	159	156	169			
LU	—	—	—	—	—	—
HU	—	—	—	—	—	—
MT	5 286	5 535	5 909	56	107	77
NL	908	965	984			
AT				—	—	—
PL	1 305	1 293	1 360	0	0	0
PT	314	338	349	25	32	29
RO				0	0	0
SI	14	16	12			
SK	—	—	—	—	—	—
FI	9 565	9 689	9 551			
SE	14 656	14 793	14 746	53	88	72
UK	12 522	12 342	12 326	1 035	968	1 103
IS	271	458	403			
NO	3 224	3 272	3 244	12	1	13
ME	52	57	54			
TR	551	633	618	77	61	77

## 2.4.8.

## Sea

### PASSENGER TRAFFIC AT MAJOR EU SEAPORTS

#### PASSENGERS EMBARKED AND DISEMBARKED

RANKING	1 000						%
	PORT, COUNTRY	2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Helsinki FI	8854	9849	11214	11769	11567	–1.7
2	Messina IT	9802	10765	7021	9250	10604	14.6
3	Talinn EE	6701	7523	9299	9969	9967	0.0
4	Reggio di Calabria IT	9645	9891	6053	8602	9335	8.5
5	Calais FR	11695	10237	9757	8990	9118	1.4
6	Peiraias EL	11076	10944	8169	8591	8927	3.9
7	Stockholm SE	8211	9147	9887	8631	8534	–1.1
8	Palma Mallorca ES	4817	4496	5496	6862	7338	6.9
9	Helsingør (Elsinore) DK	11023	8534	7644	7310	7152	–2.2
10	Helsingborg SE	11102	8540	7670	7319	7136	–2.5
11	Napoli IT	6084	8356	6484	6159	7066	14.7
12	Paloukia Salaminas EL	11663	12705	7050	6881	6746	–2.0
13	Perama EL	11663	12705	7050	6881	6746	–2.0
14	Algeciras ES	4829	4663	5473	5525	5953	7.7
15	Cirkewwa MT	3463	4031	4740	5384	5758	6.9
16	Mgarr, Gozo MT	3463	4031	4740	5384	5758	6.9
17	Rødby (Færgenhavn) DK	6761	6261	6139	5869	5625	–4.2
18	Puttgarden DE	6760	6261	6141	5870	5580	–4.9
19	Santa Cruz de Tenerife ES	4249	4110	4320	5058	5368	6.1
20	Capri IT	3860	6517	4355	4253	4785	12.5
21	Split HR	3267	3523	3992	4385	4760	8.6
22	Porto d'Ischia IT	3169	2589	2769	2942	3849	30.8
23	Piombino IT	3277	3477	3517	3354	3662	9.2
24	Rostock DE	2417	2195	2863	3186	3288	3.2
25	Sjællands Odde DK	2310	1777	2690	2950	3226	9.4
26	Århus DK	1710	1284	2532	2871	3145	9.5
27	Turku FI	3697	3498	3256	3250	3137	–3.5
28	Barcelona ES	1575	2358	2327	2860	3112	8.8
29	Olbia IT	3253	3863	2598	2784	3092	11.1
30	Mariehamn FI	3192	3302	3043	3067	3032	–1.1
31	Civitavecchia IT	2099	2440	2236	2284	2997	31.2
32	Portoferraio IT	2829	2769	2945	2768	2941	6.3
33	Igoumenitsa EL	2338	2726	2532	2696	2835	5.2
34	Norddeich DE	2257	2287	2497	2580	2636	2.2
35	Dunkerque FR	813	2533	3198	2672	2614	–2.2
36	Genova IT	2406	2991	2344	2117	2609	23.2
37	Hirtshals DK	1959	2178	2567	2530	2491	–1.5
38	Livorno IT	2103	2782	2001	2006	2433	21.3
39	Norderney DE	1990	2093	2162	2260	2321	2.7
40	Sorrento IT	1558	1637	1844	2085	2306	10.6

## 2.4.9.

## Sea

### FREIGHT TRAFFIC AT MAJOR EU SEAPORTS

#### TONNES LOADED AND UNLOADED

RANKING	MILLION						%
	PORT, COUNTRY	2005	2010	2015	2017	2018	CHANGE 2017–2018
1	Rotterdam NL	345.8	395.8	436.9	433.3	441.5	1.9
2	Antwerpen BE	145.8	160.0	190.1	201.2	212.0	5.4
3	Hamburg DE	108.3	104.5	120.2	118.8	117.6	–1.0
4	Amsterdam NL	69.3	89.9	98.8	98.5	99.5	1.0
5	Algeciras ES	55.2	58.6	79.4	83.5	88.6	6.2
6	Marseille FR	93.3	82.4	77.5	75.6	75.7	0.1
7	Le Havre FR	70.8	65.8	62.9	66.1	64.9	–1.8
8	Valencia ES	35.0	53.1	57.6	60.1	62.0	3.1
9	Trieste IT	43.4	40.6	49.1	55.2	57.4	4.0
10	Barcelona ES	37.1	35.3	38.0	49.7	54.6	9.7
11	Genova IT	42.6	41.4	43.4	50.7	51.6	1.8
12	Bremerhaven DE	33.7	45.9	49.8	49.3	51.2	3.8
13	Peiraias EL	18.7	13.1	38.3	45.2	50.9	12.7
14	Sines PT	24.9	24.7	41.2	46.5	44.3	–4.7
15	Klaipeda LT	20.0	28.9	34.4	40.0	42.8	6.9
16	Gdansk PL	22.5	26.4	31.7	33.9	42.4	25.0
17	Dunkerque FR	48.5	36.3	36.9	39.1	41.1	5.1
18	Göteborg SE	36.5	42.9	37.8	40.5	40.6	0.3
19	Constanta RO	44.4	30.4	36.3	37.3	39.5	6.0
20	Riga LV	24.4	29.1	39.4	32.1	34.4	7.1
21	Bilbao ES	32.2	32.4	31.0	32.6	33.9	4.0
22	Gent (Ghent) BE	22.1	27.6	26.1	33.7	33.7	–0.1
23	Cartagena ES	26.7	19.0	32.4	34.5	33.5	–2.7
24	Huelva ES	20.9	22.1	27.2	32.2	32.5	1.1
25	Nantes Saint-Nazaire FR	34.0	30.6	24.9	29.3	31.9	9.0
26	Tarragona ES	30.7	32.1	32.8	33.4	31.8	–4.8
27	Ravenna IT	24.3	22.2	25.3	29.2	31.2	7.1
28	Livorno IT	24.0	22.7	29.3	28.2	30.3	7.3
29	Gioia Tauro IT	29.6	35.4	26.1	23.3	28.4	21.5
30	Wilhelmshaven DE	46.0	24.7	27.4	28.2	28.3	0.3
31	Venezia IT	30.5	26.2	25.1	25.1	26.5	5.6
32	Dublin IE	19.2	19.5	22.2	25.0	26.3	5.3
33	Agioi Theodoroi EL	13.0	17.4	23.4	24.8	26.1	5.3
34	Porto Foxi IT	22.8	23.9	24.6	24.6	24.9	1.0
35	Sköldvik FI	17.4	20.5	20.6	24.8	24.7	–0.5
36	Zeebrugge BE	28.4	33.9	23.8	21.7	23.9	10.1
37	Koper SI	12.5	14.6	19.9	22.3	23.1	3.7
38	Rouen FR	21.6	26.5	22.3	19.9	22.9	15.2
39	Augusta IT	33.0	25.8	19.9	21.1	22.0	4.3
40	Gdynia PL	11.0	12.3	15.4	18.4	21.0	14.1

## 2.4.10a.

## Sea

### INTRA-EU MARITIME TRANSPORT

#### RELEVANCE OF INTRA-EU TRANSPORT IN TOTAL MARITIME TRANSPORT BY EU MEMBER STATE IN 2018

	INWARDS			OUTWARDS			TOTAL		
	total in-wards	of which from EU	share of EU in total	total out-wards	of which to EU	share of EU in total	total goods transported(*)	of which to/from EU	share of EU in total
	million tonnes		(%)	million tonnes		(%)	million tonnes		(%)
BE	147.9	35.7	24.2	122.3	25.8	21.1	270.1	61.4	22.7
BG	13.0	1.2	8.9	14.8	5.7	38.1	27.9	6.8	24.5
DK	50.2	29.8	59.4	34.2	25.3	74.2	81.8	52.6	64.3
DE	178.5	62.1	34.8	117.7	47.4	40.3	292.7	106.1	36.2
EE	9.8	6.6	67.4	22.7	13.5	59.5	32.4	20.0	61.8
IE	35.1	12.3	35.1	17.6	7.3	41.4	52.1	19.1	36.6
EL	89.8	37.7	41.9	82.7	46.0	55.6	150.1	61.2	40.8
ES	286.1	81.1	28.3	211.4	70.4	33.3	467.8	121.8	26.0
FR	203.2	45.2	22.2	100.6	35.8	35.6	297.5	74.6	25.1
HR	15.1	2.9	19.0	4.8	2.5	51.3	19.3	4.7	24.2
IT	305.4	140.1	45.9	185.4	135.2	72.9	399.6	184.1	46.1
CY(**)	5.0	3.2	64.3	1.9	0.5	24.6	6.9	3.7	53.3
LV	8.0	4.8	60.1	52.8	32.8	62.1	60.7	37.5	61.8
LT	18.5	5.8	31.3	34.0	16.5	48.6	52.5	22.3	42.5
MT	1.6	1.1	71.2	1.5	1.0	66.7	3.1	2.2	69.0
NL	407.5	60.9	14.9	197.0	33.2	16.8	604.2	93.7	15.5
PL	60.3	18.4	30.6	30.9	21.3	69.0	90.4	39.0	43.1
PT	55.5	20.3	36.5	34.8	17.0	48.8	84.1	31.0	36.9
RO(**)	23.9	1.6	6.6	24.5	9.3	37.7	48.4	10.8	22.4
SI	16.4	3.9	23.9	6.7	2.1	30.9	23.1	6.0	25.9
FI	55.3	33.6	60.8	59.1	46.0	77.9	109.4	74.6	68.2
SE	99.4	66.4	66.8	80.5	62.3	77.4	175.4	124.1	70.8

**NB:** Data from main ports only (ports handling more than 1 million tonnes per year).

(\*) The total goods transported data may be less than the sum of inward and outward traffic due to the double counting of tonnes moved within the same Member State.

(\*\*) The share of intra-EU in total maritime transport may be underestimated in this table for CY and RO because a significant share of partner ports are 'unknown' and hence cannot be attributed to any geographical area.



2.4.10b.

Sea

MAIN ROUTES IN  
INTRA-EU MARITIME TRANSPORT

MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT  
2018

RANKING	Member State of loading port	Member State of unloading port	Million tonnes transported
1	ITALY	ITALY	97.784
2	SPAIN	SPAIN	41.391
3	GREECE	GREECE	29.445
4	SWEDEN	SWEDEN	21.008
5	FRANCE	FRANCE	17.204
6	SPAIN	ITALY	16.994
7	SWEDEN	GERMANY	16.510
8	FINLAND	GERMANY	13.963
9	ITALY	SPAIN	13.256
10	GERMANY	SWEDEN	11.844
11	DENMARK	DENMARK	11.649
12	NETHERLANDS	FRANCE	10.839
13	DENMARK	SWEDEN	10.720
14	GERMANY	DENMARK	10.228
15	GREECE	ITALY	9.944
16	SWEDEN	FINLAND	9.560
17	NETHERLANDS	SPAIN	9.351
18	SPAIN	NETHERLANDS	8.536
19	SPAIN	FRANCE	8.319
20	NETHERLANDS	GERMANY	8.217
21	NETHERLANDS	SWEDEN	7.995
22	FINLAND	NETHERLANDS	7.910
23	FINLAND	SWEDEN	7.800
24	FINLAND	FINLAND	7.656
25	SWEDEN	DENMARK	7.389
26	LATVIA	NETHERLANDS	7.364
27	LATVIA	SWEDEN	7.123
28	SWEDEN	NETHERLANDS	7.028
29	FRANCE	NETHERLANDS	6.822
30	ITALY	GREECE	6.785

## 2.4.11.

## Sea

### CONTAINER TRAFFIC AT MAJOR EU SEAPORTS

RANKING	1 000 TEU						%
	PORT, COUNTRY	2005	2010	2015	2017	2018	
1	Rotterdam NL	9 194.6	11 017.5	11 577.2	12 891.9	13 597.9	5.5
2	Antwerpen BE	6 220.9	8 144.4	9 370.3	10 032.2	10 829.6	7.9
3	Hamburg DE	8 084.3	7 905.5	8 847.9	8 860.0	8 740.9	–1.3
4	Bremerhaven DE	3 696.1	4 858.3	5 466.8	5 458.4	5 442.2	–0.3
5	Valencia ES	2 415.0	4 211.2	4 608.7	4 813.9	5 168.9	7.4
6	Thessaloniki EL	372.5	289.2	3 359.6	4 120.3	4 886.1	18.6
7	Barcelona ES	2 071.3	1 927.9	4 515.8	4 380.8	4 773.2	9.0
8	Gioia Tauro IT	3 123.2	3 896.7	3 030.0	3 391.1	4 005.5	18.1
9	Cádiz ES	138.2	109.0	1 949.7	2 997.6	3 422.2	14.2
10	Le Havre FR	2 144.3	2 369.3	2 560.1	2 798.6	2 865.8	2.4
11	Genova IT	1 037.6	1 020.0	2 079.1	2 332.5	2 554.2	9.5
12	Sines PT	51.0	382.1	1 332.2	1 669.1	1 750.4	4.9
13	Gdansk PL	63.3	509.9	1 041.3	1 472.7	1 735.5	17.8
14	La Spezia IT	915.6	1 180.6	1 578.9	1 611.6	1 652.6	2.5
15	Marseille FR	910.6	1 030.9	1 255.8	1 362.2	1 398.3	2.6
16	Livorno IT	461.4	369.9	652.8	787.3	1 181.7	50.1
17	Palma Mallorca ES	194.1	1 101.6	883.3	1 153.6	1 121.8	–2.8
18	Koper SI	210.3	481.0	802.7	919.7	980.2	6.6
19	Trieste IT	182.7	261.1	628.0	652.7	976.0	49.5
20	Gdynia PL	392.9	477.0	676.4	689.6	832.0	20.6
21	Göteborg SE	771.7	891.5	809.6	638.8	749.9	17.4
22	Klaipeda LT	214.3	295.2	350.4	474.2	749.1	58.0
23	Dublin IE	590.2	554.0	627.7	696.8	727.3	4.4
24	Bilbao ES	862.8	532.0	591.4	650.0	678.0	4.3
25	Lübeck DE	141.7	167.5	611.0	526.4	668.0	26.9
26	Constanta RO	867.0	546.1	689.5	692.0	668.0	–3.5
27	Vigo ES	204.6	213.0	627.9	605.4	638.4	5.4
28	Leixões PT	351.8	481.8	568.3	580.6	613.5	5.7
29	Kamina-Kotka (1) FI	376.5	402.4	487.4	632.4	598.8	–5.3
30	Napoli IT	178.5	224.2	210.0	311.2	593.6	90.7
31	Venezia IT	196.0	237.7	476.0	508.5	547.5	7.7
32	Københavns Havn DK	132.3	131.5	445.2	513.5	540.4	5.2
33	Helsinki FI	460.2	400.7	411.1	456.8	479.7	5.0
34	Sevilla ES	115.7	152.6	308.7	430.4	476.2	10.6
35	Riga LV	157.8	254.6	355.4	449.9	473.9	5.3
36	Cagliari IT	583.7	486.6	821.8	310.5	430.7	38.7
37	Lisboa PT	512.2	512.0	482.6	497.1	429.5	–13.6
38	Dunkerque FR	201.6	200.8	292.1	367.9	420.4	14.3
39	Lemesos CY	320.4	332.5	308.4	393.1	416.3	5.9
40	Zeebrugge BE	682.3	1 436.8	393.0	281.8	378.3	34.2

## 2.4.12. Combined transport traffic

### UIRR COMPANIES

TONNE-KILOMETRES				
YEAR	billion	% of which:		
		below 300 km	between 300 and 900 km	more than 900 km
1990	18.7	1	68	31
1995	25.0	2	56	42
2000	35.2	2	71	27
2005	38.8	3	63	34
2006	45.4	3	53	44
2007	46.1	3	56	41
2008	46.0	3	52	45
2009	38.9	4	52	44
2010	42.4	5	58	37
2011	42.6	7	56	37
2012	39.1	3	59	38
2013	40.7	2	60	38
2014	52.2	2	53	45
2015	55.0	1	50	49
2016	58.3	1	46	53
2017	75.1	1	42	57
2018	78.1	1	45	54
2019	79.2	1	51	48

### TRAFFIC % OF CONSIGNMENTS (\*)

YEAR	Semi-trailers	Rolling motorway	Swap bodies and containers
1990	20	18	61
1995	14	19	67
2000	9	23	68
2005	7	13	80
2006	7	14	79
2007	7	13	79
2008	8	14	77
2009	8	15	77
2010	10	15	75
2011	10	14	76
2012	13	5	82
2013	14	5	81
2014	13	5	82
2015	13	5	82
2016	16	4	80
2017	11	8	81
2018	13	7	80
2019	14	6	81

**NB:** (\*) Consignment = equivalent to 2.0 TEU, meaning:  
'(1) from 2012 to 2016, figures exclude traffic from RoLa operators; (2) from 2013 figures include traffic of new members TEL and FELB; (3) from 2015 figures include RCO CZ; (4) from 2017 figures include RCO (full), Metrans, Lugo, Amber Rail and Baltic Rail; (5) from 2018 figures include CargoBeamer and VILIA.'

## 2.4.13.

## Road

### ALPS-CROSSING FREIGHT TRAFFIC

#### ALPINE ARC: MONTGENÈVRE TO BRENNER

MILLION TONNES					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
1985	1.9	0.8	15.0	12.3	30.0
1990	3.1	1.1	14.6	21.8	40.6
1995	5.5	1.1	21.0	25.8	53.4
2000	7.6	1.3	26.6	27.2	62.7
2005	10.2	2.8	33.6	20.8	67.4
2010	10.8	3.5	28.7	20.2	63.2
2015	8.7	3.3	32.2	19.5	63.7
2016	8.4	3.3	34.6	19.8	66.2
2017	8.6	3.1	37.3	21.2	70.2
2018	8.4	3.3	39.8	21.9	73.4
AVERAGE ANNUAL CHANGE					
1985-2000	9.7 %	3.3 %	3.9 %	5.4 %	5.0 %
2000-2018	0.6 %	5.3 %	2.3 %	– 1.2 %	0.9 %
2017-2018	– 1.8 %	4.4 %	6.6 %	3.6 %	4.6 %

NB: France: Montgenèvre: from 1999.

NUMBER OF HEAVY GOODS VEHICLES (1 000)					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
2000	1 187	217	1 653	1 672	4 729
2005	925	279	2 121	1 435	4 760
2010	928	308	1 947	1 356	4 539
2011	898	322	1 980	1 389	4 589
2012	843	307	2 058	1 307	4 516
2013	766	282	2 028	1 264	4 341
2014	758	274	2 112	1 276	4 420
2015	730	280	2 160	1 307	4 477
2016	701	274	2 315	1 330	4 620
2017	698	257	2 453	1 419	4 827
2018	677	264	2 602	1 472	5 014

NB: Internal, import, export and transit traffic.

## 2.4.14.

## Road

### PYRENEES-CROSSING TRAFFIC

#### GOODS TRAFFIC

VEHICLES PER DAY				
	West coast Irun Biriattou	East coast La Jonquera Le Perthus	Other crossings	TOTAL
1997	5 657	6 729	880	13 266
1998	6 447	7 413	905	14 765
1999	6 914	8 018	914	15 846
2000	8 224	8 200	1 519	17 943
2001	8 806	8 050	1 172	18 028
2002	8 864	8 535	1 505	18 904
2003	9 276	8 920	1 758	19 954
2004	10 655	9 302	1 875	21 832
2005	9 970	9 243	1 825	21 038
2006	10 390	9 602	1 939	21 931
2008	10 670	9 484	1 334	21 488
2009	9 712	8 610	1 367	19 688
2011	9 414	8 945	1 044	19 402
2013	9 165	9 163	1 050	19 377
2014	8 605	9 501	981	19 087
2015	9 280	10 066	1 102	20 448
2016	10 745	10 097	1 103	21 945
2017	10 170	10 463	904	21 537

#### PASSENGER CAR TRAFFIC

VEHICLES PER DAY				
	West coast Irun Biriattou	East coast La Jonquera Le Perthus	Other crossings	TOTAL
1997	30 200	19 400	27 800	77 400
1998	30 230	20 601	33 168	83 999
1999	33 188	20 678	33 412	87 278
2000	40 923	24 390	31 962	97 275
2001	41 847	25 201	34 096	101 144
2002	41 812	28 544	37 654	108 010
2003	44 165	29 201	41 267	114 633
2004	45 041	30 923	41 196	117 160
2005	47 142	31 896	42 465	121 503
2006	47 172	32 180	43 228	122 580
2008	47 266	30 847	41 924	120 037
2009	47 907	31 465	42 452	121 823
2011	48 787	30 900	40 508	120 194
2013	47 110	30 529	38 612	116 250
2014	48 780	31 623	40 190	120 593
2015	49 150	32 458	41 496	123 104
2016	47 421	33 049	40 611	121 080
2017	50 130	33 441	44 587	128 158

NB: Between 2006 and 2013 these statistics were available every 2 years.

## 2.4.15.

## Rail

### TRAFFIC MEASURED IN TRAIN-KILOMETRES

million train-km						%	Of which: % of passenger traffic	Of which: % of freight traffic
	2005	2010	2015	2017	2018	CHANGE 2017– 2018	2018	2018
<b>EU-27</b>	<b>3485.3</b>	<b>3461.5</b>	<b>3579.1</b>	<b>3651.8</b>	<b>3679.5</b>	<b>0.8</b>	<b>78.5</b>	<b>21.2</b>
<b>EU-28</b>	<b>3976.7</b>	<b>4005.5</b>	<b>4148.8</b>	<b>4218.3</b>	<b>4247.4</b>	<b>0.7</b>	<b>80.6</b>	<b>19.2</b>
BE	92.6	95.1	95.2	98.7	101.3	2.7	82.0	18.0
BG	33.5	29.3	28.6	29.0	30.6	5.5	65.0	35.0
CZ	147.7	155.1	157.3	163.6	169.1	3.4	80.5	19.5
DK	75.0	78.3	78.8	76.8	76.6	–0.3	95.2	4.8
DE	986.7	992.4	1032.6	1085.5	1096.5	1.0	73.7	26.3
EE	8.9	7.4	8.0	8.1	7.2	–10.5	76.3	23.7
IE	16.0	18.3	18.2	17.6	17.5	–0.4	99.0	1.0
EL	17.7	17.0	10.8	10.4	10.5	0.8	91.5	8.5
ES	199.4	206.0	209.1	212.5	211.0	–0.7	88.1	11.9
FR	505.8	458.0	460.0	458.3	426.8	–6.9	85.2	14.8
HR	26.1	25.8	19.7	21.0	20.1	–4.3	75.2	24.8
IT	373.3	356.1	366.4	377.6	388.1	2.8	88.3	11.7
CY	—	—	—	—	—	—	—	—
LV	18.9	16.6	17.2	14.5	15.7	7.8	38.7	61.3
LT	14.3	14.4	14.0	15.2	16.1	5.9	39.2	60.8
LU	7.6	8.0	8.9	8.2	8.0	–2.2	93.4	6.6
HU	102.8	100.6	164.8	125.4	132.0	5.2	64.1	34.1
MT	—	—	—	—	—	—	—	—
NL	133.8	139.1	149.4	154.2	157.8	2.3	94.6	5.4
AT	143.9	151.8	153.4	156.4	155.0	–0.9	73.1	26.9
PL	207.2	211.7	204.6	227.6	243.8	7.1	66.1	31.7
PT	37.7	40.0	37.1	37.1	36.3	–2.1	83.5	16.5
RO	94.5	86.3	79.9	81.1	77.3	–4.7	81.4	18.6
SI	18.6	18.6	17.7	19.9	19.3	–3.2	51.8	48.2
SK	47.3	44.0	46.0	45.3	47.3	4.5	74.1	25.9
FI	48.2	51.0	48.6	47.3	50.5	6.8	69.3	30.7
SE	127.7	140.6	152.7	160.4	165.1	2.9	78.1	21.9
UK	491.4	544.0	569.8	566.5	567.9	0.2	94.1	5.9
ME			1.4	1.6	1.2	–24.4	70.7	29.3
MK		2.8	2.2	1.1	1.3	12.8	68.6	31.4
AL								
RS								
TR	44.9	38.8	41.1	42.3	22.7	–46.3	50.7	49.3
IS	—	—	—	—	—	—	—	—
NO	41.1	43.8	48.6	49.1	41.1	–16.3	83.6	16.4
CH	0.0	210.5	222.7	226.1	197.8	–12.5	87.5	12.5

2.4.16a.

# Rail

## DEGREE OF MARKET OPENING – PASSENGERS

### SHARE OF ALL BUT THE PRINCIPAL UNDERTAKINGS

					%	Of which: Market share PSO (*)	Of which: Market share Commercial
	2010	2015	2017	2018	2018	2018	2018
BE	0.2	3.3		6.1	0.0	44.0	
BG	2.6	0.0	0.0	0.0	0.0	0.0	
CZ	0.2	5.0	12.6	12.5	2.9	70.9	
DK	18.0	7.0		7.7	7.7		
DE	8.0	13.5	15.9	15.5	26.3	1.3	
EE	50.0	0.0	5.6	4.6	0.0	100.0	
IE	0.0		0.0	0.0	0.0		
EL	0.0	0.0	0.0	0.0	0.0	0.0	
ES	0.0	0.0	0.0	0.0	0.0	0.0	
FR	1.0	5.0	1.0	4.8	0.0	8.0	
HR	0.0	0.0	0.0	0.0	0.0	0.0	
IT	8.3	23.0	25.0	27.2	25.3	29.5	
CY	—	—	—	—	—	—	
LV	10.5	8.3	7.2	6.8	0.1	99.9	
LT	0.0	0.0	0.0	0.0	0.0	0.0	
LU		0.0		0.0	0.0	0.0	
HU	1.8	3.5	3.4	0.1	0.0	11.7	
MT	—	—	—	—	—	—	
NL	4.8	14.9	5.0	5.3	5.3		
AT	5.4	12.2	11.5	13.5	7.0	26.6	
PL	48.3	51.7	43.1	42.2	47.4	2.3	
PT	9.0	5.4	14.5	6.9	7.1	6.9	
RO	3.9				19.8		
SI	0.0	0.0	0.0	0.0	0.0	0.0	
SK	0.0	6.0	4.1	6.7	2.5	52.1	
FI	0.0	0.0	0.0	0.0	0.0	0.0	
SE		33.5	43.2	43.7	72.0	15.0	
UK	89.9		87.3	86.9	86.5	100.0	
NO	12.0	10.7	10.0	9.6	9.6	14.3	

(\*) Public service obligation (PSO) means a requirement defined or determined by a competent authority in order to ensure public passenger transport services in the general interest that an operator, if it were considering its own commercial interests, would not assume or would not assume to the same extent or under the same conditions without reward.

**NB:** Total market share of all but the principal railway undertakings (as a percentage of passenger-km, in some cases as a percentage of train-km). DK: not considering metro services after break in series.

## 2.4.16b.

## Rail

### DEGREE OF MARKET OPENING – FREIGHT

#### SHARE OF ALL BUT THE PRINCIPAL UNDERTAKINGS

	%									
	2006	2008	2010	2012	2013	2014	2015	2016	2017	2018
BE	0.0	6.1	11.8	13.4	18.5	24.3	25.1	48.6	27.1	18.2
BG	3.2	14.3	21.6	36.5	44.7	48.8	51.4	54.5	58.6	52.7
CZ			13.2	20.6	23.7	30.1	33.5	34.9	36.8	35.1
DK			25.0	27.0	25.0	24.0	29.0	26.1	17.7	26.3
DE	16.4	22.0	25.0	28.6	32.6	34.1	40.9	45.5	47.5	51.3
EE	30.6	49.0	45.0	30.0	35.0	30.5	29.0	20.1	23.7	1.4
IE	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
EL	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
ES	4.9	5.0	8.1	16.8	19.1	20.5	26.0	29.5	30.8	34.3
FR	0.6	10.0	20.0	32.0	36.0	37.0	25.6	41.0	43.0	46.0
HR	0.0	0.0	0.0	0.0	0.0	0.5	2.0	14.7	23.9	32.0
IT	11.5		24.1	16.8	7.6	41.0	41.2	55.1	55.4	57.0
CY	—	—	—	—	—	—	-	—	—	—
LV	10.6	9.6	23.3	22.6	23.3	21.5	31.1	25.5	33.6	31.6
LT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LU	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0
HU	9.0	14.4	19.5	31.8	34.8	37.6	39.6	42.1	47.5	50.6
MT	—	—	—	—	—	—	—	—	—	—
NL	14.0	25.0	40.0	36.0	41.4	41.0		45.0	56.5	59.0
AT	10.0	14.0	14.6	17.6	19.3	21.4	23.6	26.1	24.5	30.7
PL	16.9	24.0	35.8	32.9	34.5	36.3	38.1	48.6	42.9	45.9
PT	0.0		9.0	11.0	13.4	11.3	11.8	15.4	14.2	13.6
RO	26.7	41.0	54.7	53.7	57.6	42.8	60.2	62.9	63.4	63.9
SI	0.0	0.0	0.0	9.5	9.2	9.9	12.1	13.0	13.3	14.8
SK	2.9	2.0	2.0	11.8	13.5	10.0	17.6	19.9	22.1	24.6
FI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.3
SE	32.5		40.0		56.0	55.0	48.0	46.0	46.0	48.0
UK		44.2	51.4	53.6	54.5	54.7	52.6	55.0	57.6	61.0
NO		21.0	25.0	38.0	42.0	47.0	42.2	49.8	51.1	51.5

**NB:** Total market share of all but the principal railway undertakings (as a percentage of tonnes-km, in some cases as a percentage of train-km).



2.4.17.

# Rail

## ALPS CROSSING FREIGHT TRAFFIC

### ALPS CROSSING FREIGHT TRAFFIC

Alpine Arc: Mont-Cenis to Brenner					MILLION TONNES
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon	Brenner	Mont-Cenis	
1985	11.2	2.8	4.7	7.5	26.2
1990	13.6	4.3	5.5	7.2	30.6
1994	13.2	4.7	8.3	7.7	33.9
1995	13.6	4.4	8.4	8.0	34.4
1996	11.7	4.0	7.9	9.7	33.3
1997	13.7	4.3	7.8	10.1	35.9
1998	15.0	4.3	8.6	9.3	37.2
1999	14.9	3.5	8.3	8.4	35.1
2000	16.8	3.8	8.7	8.6	37.9
2001	15.8	4.8	10.7	8.6	39.9
2002	14.2	4.8	10.5	8.6	38.1
2003	14.3	5.6	10.7	7.8	38.4
2004	16.1	6.8	10.7	6.4	40.0
2005	15.6	8.1	10.0	5.2	38.9
2006	16.2	9.0	11.6	4.8	41.6
2007	15.5	9.7	13.3	5.7	44.2
2008	15.5	9.9	14.0	4.6	44.0
2009	11.6	9.2	13.1	2.4	36.3
2010	14.4	9.6	14.4	3.0	41.4
2011	14.4	11.3	14.1	3.4	43.2
2012	13.9	9.8	11.2	3.4	38.3
2013	15.0	10.1	11.7	3.2	40.1
2014	15.6	10.5	11.9	3.3	41.3
2015	15.3	11.7	12.6	3.2	42.7
2016	15.3	13.5	13.4	2.9	45.2
2017	13.6	13.6	13.8	2.7	43.7
2018	15.3	12.6	14.0	2.6	44.6
AVERAGE ANNUAL CHANGE					
1985–2000	2.7%	2.1%	4.2%	0.9%	2.5%
2000–2018	–0.5%	6.9%	2.7%	–6.4%	0.9%
2017–2018	13.0%	–7.2%	1.7%	–3.8%	2.1%

## 2.5.1.

## Road

### LENGTH OF MOTORWAYS

km (at end of year)								
	1990	1995	2000	2005	2010	2015	2017	2018
<b>EU-27</b>	<b>38 995</b>	<b>44 889</b>	<b>51 530</b>	<b>59 474</b>	<b>67 450</b>	<b>71 888</b>	<b>73 425</b>	<b>73 840</b>
<b>EU-28</b>	<b>42 176</b>	<b>48 269</b>	<b>55 111</b>	<b>63 107</b>	<b>71 122</b>	<b>75 657</b>	<b>77 228</b>	<b>77 696</b>
BE	1 666	1 666	1 702	1 747	1 763	1 763	1 763	1 763
BG	273	277	319	331	437	734	734	757
CZ	357	414	501	564	734	776	1 240	1 252
DK	611	796	923	1 032	1 130	1 237	1 308	1 329
DE	10 854	11 190	11 712	12 363	12 819	12 993	13 009	13 141
EE	41	65	93	99	115	147	154	154
IE	26	70	103	247	900	916	916	916
EL	190	421	615	917	1 558	1 589	2 133	2 098
ES	4 976	6 962	9 049	11 432	14 262	15 336	15 523	15 585
FR	6 824	8 275	9 766	10 798	11 392	11 599	11 618	11 671
HR	291	302	411	1 016	1 244	1 310	1 310	1 310
IT	6 193	6 435	6 478	6 542	6 668	6 943	6 943	6 943
CY	120	167	257	276	257	272	257	257
LV	—	—	—	—	—	—	—	—
LT	421	394	417	417	309	309	324	324
LU	78	123	114	147	152	161	165	165
HU	267	335	448	859	1 477	1 884	1 937	1 982
MT	—	—	—	—	—	—	—	—
NL	2 092	2 208	2 265	2 600	2 651	2 756	2 758	2 756
AT	1 445	1 596	1 633	1 677	1 719	1 719	1 743	1 749
PL	257	246	358	552	857	1 559	1 637	1 637
PT	316	687	1 482	2 341	2 737	3 065	3 065	3 065
RO	113	113	113	228	332	747	763	823
SI	228	293	427	569	771	610	618	623
SK	192	198	296	328	416	463	482	482
FI	225	394	549	693	779	881	893	926
SE	939	1 262	1 499	1 700	1 971	2 119	2 132	2 132
UK	3 181	3 380	3 581	3 633	3 672	3 768	3 803	3 857
ME	—	—	—	—	—	—	—	—
MK	83			216	251	259	259	287
AL								
RS				603	603	603	645	645
TR	281			1 667	2 080	2 282	2 657	2 842
IS	—	—	—	11	11	11	11	41
NO	73	107	144	264	381	392	523	599
CH	1 148	1 197	1 270	1 358	1 406	1 440	1 458	1 462

**NB:** IT: 2017 figure.

BE: situation at the end of 2015.

CZ: as from 2016 most of expressways have been changed into class II motorways.

ES: 'autopistas de peaje' and 'autovías y autopistas libres'.

CY: from 2006: without urban M-ways.

NL: all national roads ('Rijkswegen') with dual carriageways.

UK: data refer to 1 April.

## 2.5.2.

## Road

## LENGTH OF ROAD NETWORK

km at end of 2018(*)				
	Motorways	Main or national roads	Secondary or regional roads	Other roads(**)
BE	1 763	13 229	1 349	138 869
BG	757	2 925	4 022	11 989
CZ	1 252	5 818	48 674	74 919
DK	1 329	2 594	70 840	
DE	13 141	37 879	178 806	
EE	154	3 861	12 595	42 398
IE	916	4 390	13 120	80 472
EL	2 098	9 299	30 864	75 600
ES	15 585	14 870	135 171	501 053
FR	11 671	9 551	378 401	704 151
HR	1 310	7 019	9 545	8 817
IT	6 943	20 786	155 247	73 591
CY	257	5 446	2 358	4 935
LV	—	1 673	5 453	61 695
LT	324	6 676	14 559	50 668
LU	165	839	1 891	19
HU	1 982	30 088		181 230
MT	—	520		2 120
NL	2 756	2 629	7 782	126 523
AT	1 749	10 858	23 653	91 238
PL	1 637	17 766	153 497	251 664
PT	3 065	6 457	4 791	
RO	823	16 917	35 085	33 409
SI	623	5 917	13 361	32 061
SK	482	3 594	13 969	38 895
FI	926	12 541	13 470	51 006
SE	2 132	13 557	157 221	42 780
UK	3 857	49 699	33 216	335 983
ME			8 040	
MK	287	615	3 779	9 878
AL				
RS	645	3 890	10 040	30 037
TR	2 842	31 021	34 153	179 537
IS	41	4 370	3 380	5 158
NO	599	10 713	44 639	39 543
CH	1 462	397	17 816	51 880

NB: (\*) BE end of 2015; IT end of 2015; MT end of 2017; UK 1 April 2019;  
CY: other road network includes forest gravel roads.

(\*\*): the definition of road types varies from country to country, therefore the data are therefore not fully comparable. MT, CY: data for 2016.  
'Other roads' sometimes includes roads without a hard surface.

## 2.5.3.

# Railways

## LENGTH OF LINES IN USE

								km	%
	1990	2000	2005	2010	2015	2017	2018	OF WHICH: ELECTRIFIED 2018	
EU-27	220 757	205 664	200 500	203 847	201 396	200 916	200 584	111 615	55.6
EU-28	237 671	222 708	216 708	220 022	217 605	217 236	216 878	117 740	54.3
BE	3 479	3 471	3 544	3 582	3 607	3 605	3 602	3 102	86.1
BG	4 299	4 320	4 154	4 097	4 019	4 030	4 030	2 870	71.2
CZ		9 444	9 614	9 468	9 466	9 408	9 406	3 216	34.2
DK	2 838	2 787	2 646	2 606	2 552	2 487	2 519	679	27.0
DE	40 981	36 588	34 221	37 679	38 828	39 219	39 299	20 783	52.9
EE	1 026	968	968	919	918	1 033	1 033	132	12.8
IE	1 944	1 919	1 919	1 894	1 894	1 894	2 045	108	5.3
EL	2 484	2 385	2 576	2 552	2 239	2 240	2 292	679	29.6
ES	14 539	14 347	15 015	15 837	16 056	15 904	15 893	10 140	63.8
FR	34 070	31 397	30 871	30 335	28 808	28 120	27 594	16 054	58.2
HR	2 429	2 726	2 726	2 722	2 604	2 605	2 605	970	37.2
IT	16 066	16 187	16 545	17 022	17 041	17 105	16 781	12 018	71.6
CY	—	—	—	—	—	—	—	—	—
LV	2 397	2 331	2 270	1 897	1 859	1 860	1 860	251	13.5
LT	2 007	1 905	1 771	1 767	1 877	1 911	1 911	152	8.0
LU	271	274	275	275	275	275	275	262	95.3
HU	7 838	8 005	7 950	7 893	7 894	7 752	7 752	3 141	40.5
MT	—	—	—	—	—	—	—	—	—
NL	2 798	2 802	2 810	3 013	3 031	3 055	3 220	2 275	70.7
AT	5 624	5 665	5 691	5 039	4 937	4 953	4 953	3 560	71.9
PL	26 228	22 560	19 507	19 702	18 510	18 513	18 536	11 811	63.7
PT	3 064	2 814	2 844	2 842	2 545	2 546	2 546	1 639	64.4
RO	11 348	11 015	10 948	10 777	10 770	10 766	10 765	4 029	37.4
SI	1 196	1 201	1 228	1 228	1 209	1 209	1 209	610	50.5
SK	3 660	3 662	3 658	3 622	3 626	3 626	3 627	1 587	43.8
FI	5 867	5 854	5 732	5 919	5 923	5 926	5 925	3 330	56.2
SE	11 193	11 037	11 017	11 160	10 908	10 874	10 906	8 217	75.3
UK	16 914	17 044	16 208	16 175	16 209	16 320	16 294	6 125	37.6
ME			248	249	250	250	249	224	90.0
MK	696	699	699	699	699	683	683	234	34.3
AL				423	423	423	423	0	0.0
RS			3 809	3 809	3 739	3 736	3 724	1 273	34.2
TR	8 429	8 671	8 697	9 594	10 131	10 207	10 417	4 896	47.0
IS	—	—	—	—	—	—	—	—	—
NO	4 044	4 179	4 114	3 958	3 896	4 134	4 134	2 459	59.5
CH	3 215	3 216	3 399	3 597	3 592	4 062	4 032	4 031	100.0

NB: DE: includes former GDR: 1990 = 14 031.

CH: since 2017 RHB is included.

CS: 1990: 13 111.

## 2.5.4.

## Railways

## HIGH-SPEED RAIL NETWORK

## LENGTH OF LINES

km at end of year											
	BE	DE	DK	ES	FR	IT	NL	AT*	PL	UK	EU-27
1985	—	—	—	—	425	174	—	—	—	—	599
1990	—	90	—	—	717	194	—	—	—	—	1 001
1995	—	426	—	471	1 290	238	—	—	—	—	2 425
2000	72	576	—	471	1 290	238	—	—	—	—	2 647
2005	137	1089	—	1038	1 549	238	—	—	—	74	4 051
2010	209	1178	—	2102	1 912	856	90	—	—	113.4	6 347
2015	209	1381	—	3002	2 058	856	90	50	224	113.4	7 870
2018	209	1571	—	3002	2 734	896	90	67	224	113.4	8 793
2019	209	1571	56	3 297	2 734	921	90	67	224	113	9 169

**NB:** Length of lines or of sections of lines designed for trains that can go faster than 250 km/h at some point during the journey. AT: maximum speed of 230 km/h.

## HIGH-SPEED LINES CURRENTLY UNDER CONSTRUCTION

	LINE	LENGTH km	START OF OPERATION
DE	Wendlingen–Ulm	60	2022
DE	Stuttgart–Wendlingen	25	2024
DE	Karlsruhe–Raststatt (Basel)	17	2024
DE	(Karlsruhe–) Buggingen–Katzenbergtunnel (Basel)	32	2025
DE	(Karlsruhe) Katzenbergtunnel–Basel	13	2025
ES	Vandellós–Tarragona	47	2020
ES	Zamora–Pedralba	111	2020
ES	Venta de Banos–Burgos	91	2020
ES	León–Pola de Lena (Pajares New Pass)	76	2020
ES	Navalmoral–Plasencia/Badajos	246	2020
ES	Pedralba–Orense	113	2021
ES	Vitoria Gasteiz–Bilbao–San Sebastian	175	2022
ES	Monforte del Cid–Almeria	252	2023
ES	Castejon–Pamplona	75	—
ES	La Encina–Valencia	107	—
IT	Genova–Milan (Tortona)	53	2022
IT	Brescia–Verona	45	2020/after
IT	Napoli–Bari	150	—
IT	Verona–Padova	79	2020/after
AT	Wien Stadlau–Staatsgrenze (AT/SK)	38	2022
AT	Wien Inzersdorf Ort–Wr. Neustadt (Pottendorfer Linie)	47	2023
AT	Graz–Klagenfurt (Koralmbahn)	122	2025
AT	Gloggnitz–Mürzzuschlag (Semmering-Basistunnel)	28	2026
AT	Volders–Baumkirchen / Innsbruck–Staatsgrenze AT/IT (Brenner-Basis-Tunnel)	46	2027
SE	Arlöv–Lund	11	2024

**NB:** The length indicated above is the length of the line under construction and not necessarily the distance between the places named.

## 2.5.5.

## Railways

### MAIN RAILWAY GAUGE AND ELECTRIC CURRENT USED

	TRACK GAUGE	ELECTRIC CURRENT		
	mm	DC volts	AC volts	
BE	1 435	3 000	25 000	50 HZ
BG	1 435		25 000	50 HZ
CZ	1 435	3 000	25 000	50 Hz
DK	1 435	3 000	25 000	50 HZ
DE	1 435	800–1 200 (contact rail)	15 000	16.7 Hz
EE	1 520	3 000		
IE	1 600	1 500		
EL	600			
	1 000			
	1 435		25 000	50 HZ
	1 000	1 500		
ES(*)	1 435		25 000	50 HZ
	1 668	3 000		
FR	1 000	750–850 (contact rail)		
	1 435	1 500	25 000	50 HZ
HR	1 435	3 000	25 000	50 HZ
IT	1 435	3 000	25 000	50 HZ
CY	—	—	—	—
LV	1 520	3 000		
LT	1 520		25 000	50 HZ
LU	1 435		25 000	50 HZ
HU	1 435		25 000	50 HZ
MT	—	—	—	—
NL	1 435	1 500		
AT	1 435		15 000	16.7 Hz
PL	1 435	3 000		
PT	1 000			
	1 668		25 000	50 HZ
RO	1 435		25 000	50 HZ
SI	1 435	3 000		
SK	1 435	3 000	25 000	50 HZ
FI	1 524		25 000	50 HZ
SE	1 435		15 000	16.7 Hz
UK(**)	1 435	750	25 000	50 HZ
	1 600 (N-IRL)	(contact rail)		

**NB:** 1 435 mm = standard gauge.

(\*)ES: new lines have a gauge of 1 435 mm and an electric current of 25 000 volts, 50 Hz.

(\*\*)UK: (N-IRL): Northern Ireland.

## 2.5.6.

# Air

## NUMBER OF AIRPORTS

## BY NUMBER OF PASSENGERS CARRIED(\*) IN 2018

	more than 10 million	5 to 10 million	1 to 5 million	500 000 to 1 million	100 000 to 500 000	15 000 to 100 000
<b>EU-27</b>	<b>37</b>	<b>32</b>	<b>85</b>	<b>22</b>	<b>87</b>	<b>28</b>
<b>EU-28</b>	<b>44</b>	<b>37</b>	<b>94</b>	<b>27</b>	<b>95</b>	<b>33</b>
BE	1	1			3	
BG		1	2			
CZ	1				3	1
DK	1		2		3	2
DE	8	1	10	1	4	
EE			1			
IE	1		2	1	1	
EL	1	3	6	2	12	9
ES	7	7	12	1	7	
FR	4	4	11	6	16	1
HR			3	2		
IT	4	8	10	2	7	2
CY		1	1			
LV		1	0			
LT			2		1	
LU			1			
HU	1				1	
MT		1				
NL	1	1	1		2	
AT	1		3		2	
PL	1	1	5	2	3	
PT	2	1	2	1	3	4
RO	1		3	1	1	1
SI			1			
SK			1	1		
FI	1		1	1	8	7
SE	1	1	5	1	10	1
UK	7	5	9	5	8	5
ME			2			
MK			1			
AL			1			
RS		1			1	
TR	10	1	14	9	15	7
IS		1			2	
NO	1	1	7	2	12	5
CH	2	1			2	1

**NB:** (\*) 'Passengers carried' does not include direct transit passengers (i.e. transit passengers who stay on board and continue their flight with the same flight number). In this table, blank means none.

## 2.5.7.

## Inland waterways

## LENGTH IN USE

NAVIGABLE CANALS, RIVERS AND LAKES  
REGULARLY USED FOR FREIGHT TRANSPORT

km								
	1990	1995	2000	2005	2010	2015	2017	2018
EU-27		37 458	39 658	40 783	40 738	40 885	41 174	41 253
EU-28		38 611	40 811	41 848	41 788	41 935	42 224	42 303
BE	1 515	1 540	1 534	1 516	1 516	1 516	1 516	1 516
BG	470	470	470	470	470	470	470	470
CZ		677	664	664	676	720	720	720
DK	—	—	—	—	—	—	—	—
DE	4 350	6 663	6 754	7 565	7 728	7 675	7 675	7 675
EE		520	320	320	335	416	416	449
IE	—	—	—	—	—	—	—	—
EL	—	—	—	—	—	—	—	—
ES	—	—	—	—	—	—	—	—
FR	6 197	5 962	5 789	5 788	5 110	4 822	5 060	5 065
HR	933	933	720	804	805	1 017	1 017	1 017
IT	1 366	1 466	1 477	1 562	1 562	1 562	1 562	1 562
CY	—	—	—	—	—	—	—	—
LV	—	—	—	—	—	—	—	—
LT	369	369	380	290	448	446	488	493
LU	37	37	37	37	37	37	37	37
HU	1 373	1 373	1 373	1 587	1 864	1 864	1 864	1 864
MT	—	—	—	—	—	—	—	—
NL	5 046	5 046	6 183	6 211	6 219	6 256	6 257	6 297
AT	351	351	351	351	351	351	351	351
PL	3 997	3 980	3 813	3 638	3 659	3 655	3 654	3 654
PT	—	—	—	—	—	—	—	—
RO	1 782	1 779	1 779	1 779	1 779	1 779	1 779	1 779
SI	—	—	—	—	—	—	—	—
SK	2 379	172	172	172	172	172	172	172
FI	6 072	6 120	7 842	8 029	8 006	8 127	8 136	8 132
SE	—	—	—	—	—	—	—	—
UK	1 631	1 153	1 153	1 065	1 050	1 050	1 050	1 050
ME	—	—	—	—	—	—	—	—
MK	—	—	—	—	—	—	—	—
AL	—	—	—	—	—	—	—	—
RS					1 364	1 593	1 593	1 593
TR	—	—	—	—	—	—	—	—
IS	—	—	—	—	—	—	—	—
NO	—	—	—	—	—	—	—	—
CH	—	—	—	—	—	—	—	—

NB: DE: includes former GDR: 1990 = 2 319.



## 2.5.8.

## Pipelines

## LENGTH OF OIL PIPELINES

km								
	1990	1995	2000	2005	2010	2015	2017	2018
<b>EU-27</b>		<b>28 497</b>	<b>30 578</b>	<b>31 338</b>	<b>31 168</b>	<b>31 690</b>	<b>31 766</b>	<b>31 759</b>
<b>EU-28</b>		<b>31 967</b>	<b>34 532</b>	<b>35 839</b>	<b>35 614</b>	<b>36 136</b>	<b>36 212</b>	<b>36 205</b>
BE	301	294	294	294	294	294	294	294
BG	578	578	578	578	578	570	570	571
CZ		581	675	675	674	642	642	642
DK	444	330	330	330	330	330	330	330
DE	2 222	2 460	2 370	2 370	2 370	2 370	2 370	2 370
EE	—	—	—	—	—	—	—	—
IE	—	—	—	—	—	—	—	—
EL	—	—	—	267	267	53	53	53
ES	2 678	3 691	3 780	3 833	4 365	4 736	4 736	4 723
FR	4 948	4 983	5 746	5 746	6 293	7 142	7 142	7 142
HR	865	601	601	610	610	610	610	610
IT	4 086	4 235	4 346	4 328	4 291	4 022	4 016	4 018
CY	—	—	—	—	—	—	—	—
LV	766	766	766	860	417	417	414	417
LT		400	500	500	500	500	500	500
LU	—	—	—	—	—	—	—	—
HU	2 574	2 071	2 061	2 032	2 209	2 215	2 236	2 236
MT	—	—	—	—	—	—	—	—
NL	391	391	391	391	391	391	391	391
AT	777	777	777	777	1 214	1 214	1 214	1 214
PL	2 039	2 278	2 278	2 278	2 362	2 483	2 483	2 483
PT	—	—	147	147	147	147	147	147
RO	3 694	3 546	4 423	4 807	3 346	3 048	3 112	3 112
SI	—	—	—	—	—	—	—	—
SK		515	515	515	510	506	506	506
FI	—	—	—	—	—	—	—	—
SE	—	—	—	—	—	—	—	—
UK	2 462	3 470	3 954	4 501	4 446	4 446	4 446	4 446
ME	—	—	—	—	—	—	—	—
MK				155	144	144	144	144
AL	—	—	—	—	—	—	—	—
RS					374	279	280	280
TR		1 126	2 112	3 065	3 038	3 053	3 052	3 060
IS	—	—	—	—	—	—	—	—
NO		3 701	7 908	1 189	1 260	1 245	1 288	1 288
CH	239	239	109	109	109	109	109	109

NB: Including oil pipelines under the sea.

DE: Crude oil pipelines only; includes former GDR: 1990 = 1 323 km.

CS: 1990 = 1 090, 1991 = 1 090, 1992 = 1 083 km.

## 2.6.1.

## Road MOTORISATION

NUMBER OF PASSENGER CARS PER 1 000 INHABITANTS									%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
EU-27	339	377	412	443	483	503	520	530	1.8
EU-28	342	377	414	446	480	499	516	524	1.7
BE	387	421	456	468	480	501	509	512	0.7
BG	152	196	245	333	353	442	393	396	0.8
CZ	234	295	336	387	429	485	522	540	3.4
DK	309	320	347	362	389	419	438	447	2.1
DE	461	495	475	493	527	548	561	567	1.1
EE	154	269	333	366	416	514	550	563	2.4
IE	228	276	348	400	416	425	432	434	0.4
EL	169	208	295	391	469	479	492	504	2.5
ES	309	360	429	460	475	481	504	513	1.8
FR	464	468	489	482	503	485	478	478	-0.1
HR	121	155	262	321	353	358	389	409	5.2
IT	483	533	572	597	619	616	637	646	1.5
CY	304	335	384	477	551	575	609	629	3.2
LV	106	134	237	333	307	345	357	361	1.2
LT	133	199	336	442	554	431	483	512	6.0
LU	477	556	622	655	659	661	670	676	0.9
HU	187	218	232	287	299	325	355	373	5.0
MT	337	487	483	525	581	611	613	608	-0.8
NL	367	364	409	434	464	477	487	494	1.3
AT	388	452	511	504	530	546	555	562	1.2
PL	138	195	261	323	453	546	593	617	4.1
PT	185	255	333	400	444	457	492	514	4.6
RO	56	97	124	158	214	261	307	332	8.2
SI	294	357	435	479	518	523	541	549	1.6
SK	166	189	237	243	310	375	408	426	4.3
FI	388	371	412	462	535	594	621	633	2.0
SE	419	411	450	459	460	474	479	476	-0.5
UK	361	378	425	467	465	477	486	488	0.5
ME					266	283	332	332	9.3
MK	0	145	148	124	151	185	194	200	6.9
AL	0	18	37	62	104	140	147	161	2.8
RS				200	216	259	281	287	2.1
TR	0	49	68	84	102	134	149	151	1.5
IS	468	445	561	625	643	681	717	634	-14.1
LI	582	609	663	699	744	766	761	780	0.2
NO	380	386	411	437	469	501	514	516	0.6
CH	442	457	492	518	518	535	539	539	0.0

**NB:** Passenger car stock at end of year  $n$  divided by the population on 1 January of year  $n + 1$ .

## 2.6.2.

# Road

## PASSENGER CARS

## STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
EU-27	142 906	160 511	176 926	193 282	212 324	223 530	232 014	236 690	2.0
EU-28	163 628	182 462	201 993	221 608	241 658	254 744	264 214	269 183	1.9
BE	3 864	4 273	4 678	4 919	5 276	5 662	5 799	5 869	1.2
BG	1 317	1 648	1 993	2 538	2 602	3 162	2 771	2 773	0.1
CZ	2 410	3 043	3 439	3 959	4 496	5 115	5 538	5 748	3.8
DK	1 590	1 679	1 854	1 965	2 164	2 391	2 530	2 594	2.5
DE	36 772	40 499	39 059	40 660	42 302	45 071	46 475	47 096	1.3
EE	241	383	464	494	553	677	726	747	2.8
IE	801	998	1 333	1 684	1 899	2 007	2 087	2 128	1.9
EL	1 736	2 205	3 195	4 303	5 217	5 160	5 283	5 407	2.3
ES	11 996	14 212	17 449	20 250	22 147	22 356	23 500	24 074	2.4
FR	27 072	27 872	29 808	30 497	32 676	32 325	32 006	32 034	0.1
HR	580	711	1 125	1 385	1 515	1 500	1 596	1 666	4.4
IT	27 416	30 301	32 584	34 667	36 751	37 351	38 520	39 018	1.3
CY	179	220	268	355	463	488	526.6	551	4.6
LV	283	332	557	742	637	679	690	693	0.5
LT	493	718	1 172	1 455	1 692	1 244	1 357	1 431	5.4
LU	183	229	273	307	337	381	403	415	2.9
HU	1 944	2 245	2 365	2 889	2 984	3 197	3 472	3 642	4.9
MT	120	181	189	213	241	275	292	300	2.9
NL	5 509	5 633	6 539	7 092	7 736	8 101	8 373	8 531	1.9
AT	2 991	3 594	4 097	4 157	4 441	4 748	4 899	4 979	1.6
PL	5 261	7 517	9 991	12 339	17 240	20 723	22 503	23 429	4.1
PT	1 849	2 560	3 443	4 200	4 692	4 723	5 059	5 283	4.4
RO	1 292	2 197	2 778	3 364	4 320	5 155	5 998	6 453	7.6
SI	587	711	866	960	1 062	1 079	1 118	1 143	2.3
SK	880	1 016	1 274	1 304	1 669	2 035	2 223	2 322	4.4
FI	1 939	1 901	2 135	2 430	2 877	3 258	3 423	3 495	2.1
SE	3 601	3 631	3 999	4 154	4 335	4 669	4 845	4 871	0.5
UK	20 722	21 951	25 067	28 326	29 334	31 214	32 201	32 493	1.0
ME					165	176	207	206	6.8
MK		286	300	253	310	384	403	415	2.9
AL		59	115	195	295	404	422	460	9.0
RS				1 481	1 566	1 835	1 969	2 000	1.6
TR		3 059	4 422	5 773	7 545	10 589	12 036	12 398	3.0
IS	120	119	159	187	205	226	250	226	-12.0
LI	17	19	22	24	27	29	29	30	0.9
NO	1 613	1 685	1 852	2 029	2 309	2 610	2 719	2 752	1.2
CH	2 985	3 229	3 545	3 861	4 076	4 458	4 571	4 603	0.7

**NB:** Stock at end of year, except for BE: 1 August (1 July in 2012), LI: 1 July, CH: 30 September. Taxis are usually included.

HR: from 2009 light vans are included in passenger cars and no longer as goods vehicles.

FR: includes private cars < 15 years.

## 2.6.3.

## Road

### BUSES AND COACHES

#### STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
<b>EU-27</b>	<b>665.3</b>	<b>678.1</b>	<b>692.9</b>	<b>689.6</b>	<b>707.6</b>	<b>726.9</b>	<b>745.8</b>	<b>756.0</b>	<b>1.4</b>
<b>EU-28</b>	<b>740.3</b>	<b>754.0</b>	<b>781.5</b>	<b>795.2</b>	<b>819.1</b>	<b>840.2</b>	<b>859.0</b>	<b>868.1</b>	<b>1.1</b>
BE	15.6	14.6	14.7	15.4	16.2	17.1	16.0	16.2	1.1
BG	34.6	41.8	43.0	37.8	24.5	24.1	21.0	20.8	–0.9
CZ	20.5	20.5	19.0	20.9	20.4	20.7	21.4	22.0	2.9
DK	8.1	13.7	14.0	14.4	14.5	13.4	13.5	13.2	–2.5
DE	100.4	85.4	77.2	75.2	76.5	78.3	79.4	80.5	1.4
EE	7.9	7.0	6.1	5.2	4.2	4.8	4.9	5.0	2.0
IE	4.0	5.3	7.0	7.6	8.2	9.3	10.3	10.9	6.3
EL	21.4	24.6	27.0	26.8	27.3	26.5	26.4	26.5	0.3
ES	45.8	47.4	54.7	58.2	62.4	60.3	63.6	64.9	2.1
FR	70.0	79.0	85.7	90.1	91.5	99.0	100.9	100.7	–0.1
HR	5.8	3.9	4.7	4.9	4.9	5.3	5.7	5.9	3.1
IT	77.7	75.0	88.0	94.4	99.9	98.0	99.1	100.0	1.0
CY	2.3	2.7	2.9	3.2	3.4	2.7	3.0	3.1	3.1
LV	12.1	16.5	11.5	10.6	5.4	4.8	4.7	4.6	–1.4
LT	15.2	17.6	15.5	15.3	13.7	6.9	7.2	7.5	4.4
LU	0.8	0.9	1.1	1.3	1.6	1.9	2.0	2.0	2.1
HU	26.4	20.5	17.9	17.5	17.6	18.1	18.7	19.1	2.3
MT	1.0	1.0	1.1	1.1	1.8	2.0	2.1	2.1	2.1
NL	12.1	11.6	11.4	11.0	11.3	9.4	9.9	9.7	–1.8
AT	9.4	9.8	9.9	9.3	9.6	9.7	10.0	10.0	0.4
PL	92.4	85.4	82.6	79.6	97.0	109.8	116.1	119.0	2.5
PT	12.1	15.0	19.8	14.7	15.4	14.7	15.2	15.5	1.9
RO	28.3	42.0	40.7	39.3	40.9	47.3	50.3	51.8	3.0
SI	3.1	2.5	2.3	2.3	2.4	2.6	2.8	2.8	1.9
SK	14.3	11.8	10.9	9.1	9.4	9.3	9.2	9.1	–1.9
FI	9.3	8.1	9.9	10.9	13.7	16.9	18.1	18.5	2.3
SE	14.6	14.6	14.4	13.5	13.9	14.1	14.4	14.4	–0.2
UK	75.0	75.9	88.6	105.6	111.5	113.3	113.2	112.1	–1.0
ME						1.3	1.4	1.5	6.5
MK	2.3	2.5	2.5	2.3	2.7	3.2	3.2	3.2	0.4
AL		6.7	16.8	29.5	7.0	6.4	6.8	7.1	5.7
RS				9.7	8.0	9.5	9.9	9.9	–0.2
TR	188.1	263.2	354.3	501.9	595.5	666.3	700.5	706.1	0.8
IS	1.3	1.3	1.7	1.9	1.9	2.5	3.1	3.2	2.2
LI			0.1	0.1	0.1	0.1	0.1	0.1	–1.0
NO	21.2	32.5	36.7	28.8	20.3	16.7	16.0	15.6	–2.5
CH	31.2	36.5	40.3	45.8	52.8	65.7	73.8	78.0	5.7

**Notes:** Stock at end of year, except for BE: 1 August, CH: 30 September, LI: 1 July.  
Data include buses, coaches, minibuses and sometimes also trolleybuses.

## 2.6.4.

# Road

## GOODS VEHICLES

## STOCK OF REGISTERED VEHICLES

1 000									%
	1990	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
EU-27		20 297.2	24 028.8	27 389.3	31 408.6	32 691.2	34 077.4	34 788.4	2.1
EU-28		22 862.2	26 957.1	30 941.7	35 205.4	36 933.5	38 612.0	39 440.6	2.1
BE	380.4	442.5	588.8	662.3	744.8	838.1	887.5	920.1	3.7
BG	161.6	223.2	259.4	333.9	333.5	444.4	423.2	438.3	3.6
CZ		219.3	298.3	439.2	598.0	652.1	693.5	710.6	2.5
DK	286.6	333.8	384.9	469.5	485.1	437.1	437.9	432.1	−1.3
DE	1 653.0	2 378.7	2 419.1	2 404.9	2 619.4	2 995.2	3 242.1	3 367.7	3.9
EE	67.7	65.6	82.1	86.2	81.2	101.8	114.8	121.6	5.9
IE	143.2	141.8	205.6	286.5	327.1	330.5	349.1	355.3	1.8
EL	766.4	883.8	1 057.4	1 186.5	1 318.8	1 332.8	1 344.1	1 359.3	1.1
ES	2 401.1	3 024.2	3 923.2	4 849.6	5 303.5	5 047.2	5 142.6	5 206.9	1.2
FR	4 840.0	5 116.0	5 151.7	5 346.7	6 704.6	6 791.6	6 960.8	6 947.5	−0.2
HR		73.5	122.5	162.9	157.7	149.0	168.1	181.4	7.9
IT	2 207.9	2 509.9	3 087.0	3 785.9	4 141.8	4 097.8	4 256.4	4 314.0	1.4
CY	74.3	101.2	114.7	118.4	120.7	103.8	107.7	111.0	3.1
LV		68.7	97.1	113.1	71.6	86.0	87.1	89.2	2.4
LT	83.0	108.9	98.6	122.5	133.9	102.9	115.5	125.7	8.8
LU	11.3	15.8	24.7	29.6	35.6	39.6	43.2	45.0	4.2
HU	262.0	278.0	352.6	412.9	451.3	496.2	542.5	580.8	7.1
MT		40.8	51.5	44.4	42.5	44.4	47.1	48.8	3.8
NL	553.0	654.0	899.0	1 004.5	1 004.0	963.1	1 023.0	1 057.8	3.4
AT	261.8	302.9	344.5	358.0	396.8	444.0	476.3	495.2	4.0
PL		1 354.1	1 879.1	2 304.5	2 981.6	3 428.0	3 640.0	3 758.0	3.2
PT	781.0	912.3	1 313.2	1 308.0	1 337.0	1 313.2	1 336.8	1 369.7	2.5
RO	258.7	343.1	427.2	493.8	667.2	856.3	975.2	1 034.3	6.1
SI	30.8	42.9	54.3	66.4	84.1	91.3	103.3	110.4	6.9
SK	92.0	102.6	114.0	174.2	276.0	302.9	316.7	324.7	2.5
FI	264.2	252.0	304.3	363.6	464.4	560.9	604.5	626.8	3.7
SE	309.5	307.7	374.2	461.2	526.4	596.2	638.4	656.1	2.8
UK	2 706.0	2 565.0	2 928.3	3 552.4	3 796.9	4 242.2	4 534.6	4 652.2	2.6
ME						14.3	16.5	18.2	10.2
MK		22.6	24.6	18.0	33.3	38.7	41.7	42.6	2.2
AL		29.1	45.6	47.3	83.7	71.0	66.6	70.9	6.4
RS				118.3	151.7	139.9	223.6	228.9	2.4
TR		830.0	1 351.8	2 152.0	3 125.4	4 059.6	4 481.3	4 601.0	2.7
IS	13.1	14.8	19.4	25.5	30.4	33.0	38.4	40.5	5.6
LI			2.5	2.6	2.8	3.2	3.3	3.4	2.8
NO	308.3	349.5	414.3	465.4	527.0	554.1	564.3	566.2	0.3
CH	252.1	262.4	278.5	307.2	335.2	393.6	416.5	428.8	3.0

**NB:** Stock at end of year, except for LI: 1 July, CH: 30 September.

As a rule, data include heavy and light goods vehicles, lorries and road tractors; due to varying concepts of such vehicles, data are not fully comparable between countries.

HR: From 2009 light vans are included in passenger cars and no longer in goods vehicles.

EE, FR: includes special-purpose vehicles.

## 2.6.5.

# Road

## POWERED TWO-WHEELERS

### STOCK OF REGISTERED VEHICLES

	1 000							%
	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017-2018
EU-27		22 418.2	22 418.2	31 120.7	32 294.1	33 916.7	34 535.4	1.8
EU-28		23 389.2	29 831.9	32 385.1	33 547.2	35 172.6	35 800.5	1.8
BE		277.8	346.3	412.9	461.8	630.7	649.2	2.9
BG	519.3	520.5	146.5	125.4	163.3	180.9	190.0	5.0
CZ	915.2	748.1	794.0	924.3	1 046.5	1 102.4	1 132.1	2.7
DK	58.0	138.3	171.9	203.6	198.0	198.0	199.2	0.6
DE	3 995.5	4 438.1	5 202.9	3 827.9	4 228.2	4 373.0	4 438.6	1.5
EE	3.3	6.7	10.2	19.7	45.5	51.7	54.5	5.4
IE	23.5	30.6	34.3	38.1	37.0	39.9	40.2	0.8
EL		781.4	1 124.2	1 499.1	1 653.5	1 583.5	1 609.9	1.7
ES	1 301.2	1 445.6	4 117.6	4 997.7	5 102.7	5 284.8	5 393.2	2.1
FR	2 289.0	2 410.0	2 475.3	3 561.0	2 694.2	3 034.0	3 034.0	0.0
HR	9.9	21.9	128.4	176.8	151.3	154.3	157.4	2.0
IT	6 228.3	7 826.9	9 298.4	8 855.0	8 965.6	9 218.3	9 354.7	1.5
CY	50.4	43.3	40.4	40.7	39.3	39.4	39.8	0.9
LV	15.8	20.7	32.5	36.7	49.3	52.8	55.9	5.9
LT	20.0	19.8	24.0	56.3	37.8	42.1	45.3	7.5
LU	28.4	32.8	37.7	42.1	28.3	30.3	30.6	1.1
HU		91.2	122.7	142.3	162.8	167.4	176.1	5.2
MT	17.4	12.4	12.0	14.7	19.2	24.6	27.3	11.1
NL	855.0	970.8	1 112.9	1 664.3	1 803.4	1 873.2	1 895.9	1.2
AT	546.4	632.7	627.7	727.9	799.9	832.2	847.4	1.8
PL	929.0	803.0	1 091.2	1 935.1	2 531.5	2 755.0	2 852.8	3.5
PT	216.3	345.9	588.4	498.0	527.6	592.5	616.1	4.0
RO	327.7	239.2	197.4	85.2	112.9	127.3	136.4	7.2
SI	8.5	11.2	48.7	91.0	100.3	125.1	130.9	4.6
SK	81.8	45.6	56.4	87.9	120.6	133.3	140.5	5.4
FI	159.5	193.4	301.8	486.8	581.1	603.8	613.7	1.6
SE	264.2	310.1	453.1	570.2	632.6	666.3	673.7	1.1
UK	714.0	971.0	1 235.0	1 264.4	1 253.1	1 255.9	1 265.1	0.7
ME					4.2	4.7	5.7	20.2
MK			1.7	7.8	10.1	14.1	13.3	-5.6
AL	6.9	3.8	7.2	24.0	33.1	31.4	33.7	7.2
RS			16.0	37.9	64.2	62.0	64.9	4.7
TR	819.9	1 011.3	1 441.1	2 389.5	2 938.4	3 103.0	3 211.3	3.5
IS	1.9	2.3	4.2	9.7	10.4	13.0	13.4	3.1
LI		2.6	3.1	3.7	4.3	4.6	4.7	2.0
NO	158.6	201.6	257.5	315.5	354.3	362.1	356.0	-1.7
CH	688.5	712.7	748.0	790.8	871.3	917.0	940.6	2.6

**NB:** Stock at end of year, except for BE: 1 August, CH: 30 September, LI: 1 July.  
 National vehicle stock data do not always include all powered two-wheelers and are therefore not fully comparable between countries.  
 Tricycles and quads are sometimes included in the data.  
 Break in time series due to inclusion of mopeds from 2001 in ES, from 2002 in SI and HR, from 2004 in LV, from 2005 in PL, from 2007 in LT, from 2009 in SK, from 2011 in EE, from 2017 in BE.  
 DE: as of 2018 data revision due to the suspension of the dissemination of vehicle data from insurance plates.

Source: Eurostat [road\_eqs\_carage, tran\_r\_vehst], national statistics, Association des Constructeurs Européens de Motocycles (ACEM) for FR.

## 2.6.6.

# Road

## PASSENGER CARS

## NEW VEHICLE REGISTRATIONS

1 000								%
	2000	2005	2010	2015	2017	2018	2019	CHANGE 2018–2019
EU-27		12 754.6	11 407.4	11 079.9	12 595.0	12 800.4	13 036.7	1.8
EU-28		15 194.3	13 438.2	13 713.4	15 135.6	15 167.5	15 347.9	1.2
BE	515.2	480.1	547.3	501.1	546.6	549.6	550.0	0.1
BG		32.7	15.6	24.3	33.8	34.3	35.4	3.0
CZ		151.7	169.6	230.9	271.6	261.4	249.9	−4.4
DK	112.7	146.9	153.6	207.0	221.6	218.5	225.6	3.3
DE	3 378.3	3 319.3	2 916.3	3 206.0	3 441.3	3 435.8	3 607.3	5.0
EE		19.6	10.3	21.0	25.6	25.4	26.6	4.7
IE	230.8	171.7	88.4	124.8	131.4	125.7	117.1	−6.8
EL	290.2	269.7	141.5	75.8	88.1	103.4	114.1	10.3
ES	1 381.3	1 528.9	982.0	1 034.2	1 234.9	1 321.4	1 258.3	−4.8
FR	2 133.9	2 067.8	2 251.7	1 917.2	2 110.7	2 173.5	2 214.3	1.9
HR	92.4	102.1	46.2	35.7	50.8	59.9	63.0	5.2
IT	2 423.1	2 237.4	1 961.6	1 569.1	1 970.5	1 910.7	1 916.3	0.3
CY	8.2	19.2	15.1	10.1	13.1	13.0	12.2	−5.7
LV		16.6	6.4	13.8	16.7	16.9	18.2	8.0
LT		10.5	8.0	17.1	25.8	32.4	46.5	43.2
LU	41.9	48.5	49.7	46.5	52.8	52.8	55.0	4.2
HU		199.0	43.5	77.2	116.3	136.6	157.9	15.6
MT		6.6	4.1	7.1	7.8	8.2	7.7	−5.8
NL	597.6	465.2	482.6	448.9	414.5	443.5	446.1	0.6
AT	309.4	307.9	328.6	308.6	353.3	341.1	329.4	−3.4
PL		235.5	333.5	352.4	484.2	531.9	555.6	4.5
PT	257.8	206.5	223.5	178.5	222.1	228.3	223.8	−2.0
RO		172.5	106.3	81.2	105.1	130.9	161.6	23.4
SI		59.3	61.1	59.7	62.5	72.8	73.2	0.5
SK		57.1	64.0	78.0	96.0	98.1	101.6	3.6
FI	134.6	147.9	107.3	108.8	118.5	120.5	114.2	−5.2
SE	290.5	274.3	289.7	345.1	379.4	353.7	356.0	0.7
UK	2 221.7	2 439.7	2 030.8	2 633.5	2 540.6	2 367.1	2 311.1	−2.4
ME			8.6	13.7	18.6	21.4	19.8	−7.2
MK		15.9	49.3	29.3	26.6	33.1	30.0	−9.2
AL								
RS				112.6	130.8	147.5	167.8	13.8
TR		406.8	485.6	746.4	741.9	526.2	386.8	−26.5
IS	13.6	18.1	3.1	14.0	21.3	18.0	11.7	−34.8
NO	97.4	109.9	127.8	150.7	158.7	147.9	142.4	−3.8
CH	316.5	264.9	292.5	321.7	312.2	299.7	311.5	3.9

NB: 2019 figures are provisional.

## 2.6.7.

# Road

## GOODS VEHICLES

## NEW VEHICLE REGISTRATIONS

LIGHT COMMERCIAL VEHICLES			COMMERCIAL VEHICLES		HEAVY COMMERCIAL VEHICLES				CHANGE 2018-2019
< 3.5t			> 3.5t & < 16t		> 16t		TOTAL		
2018			2019		2018		2019		
EU-27	1706219	1754180					2041208	2087092	2.2
EU-28	2075555	2130037					2460433	2518382	2.4
BE	81285	85101	2799	2672	9217	9744	93301	97517	4.5
BG	14516	13200	(1)	(1)	(1)	(1)	14516	13200	-9.1
CZ	20210	20440	1634	1502	8531	8393	30375	30335	-0.1
DK	33757	33045	413	457	4645	4583	38815	38085	-1.9
DE	285415	304925	25781	28273	68399	71267	379595	404465	6.6
EE	5018	4450	64	51	1017	1006	6099	5507	-9.7
IE	25171	25091	622	556	1889	1869	27682	27516	-0.6
EL	6906	7878	182	145	170	289	7258	8312	14.5
ES	214342	214975	4251	3971	20138	20793	238731	239739	0.4
FR	457573	478375	6944	6742	48519	49519	513036	534636	4.2
HR	9101	9143	319	284	1077	1127	10497	10554	0.5
IT	180473	186334	4740	4525	20295	18679	205508	209538	2.0
CY	1645	1894	112	108	9	12	1766	2014	14.0
LV	2392	2700	62	61	1590	1169	4044	3930	-2.8
LT	3592	4424	112	147	8178	7266	11882	11837	-0.4
LU	4707	5401	147	143	1200	1216	6054	6760	11.7
HU	22725	26203	665	514	5580	4760	28970	31477	8.7
MT	903	779	(1)	(1)	(1)	(1)	903	779	-13.7
NL	78604	75860	1970	1957	14773	14025	95347	91842	-3.7
AT	43619	43413	780	742	7469	7503	51868	51658	-0.4
PL	66869	67908	2269	2757	28427	25877	97565	96542	-1.0
PT	39333	38392	806	829	4511	3973	44650	43194	-3.3
RO	17645	18037	294	411	6961	6536	24900	24984	0.3
SI	8948	8597	183	143	2578	2122	11709	10862	-7.2
SK	8955	8543	509	369	3757	3000	13221	11912	-9.9
FI	15931	15261	541	598	2897	2914	19369	18773	-3.1
SE	56584	53811	527	568	6436	6745	63547	61124	-3.8
UK	369336	375857	49889	55433	(2)	(2)	419225	431290	2.9
IS	1965	1368	169	138	254	162	2388	1668	-30.2
NO	37209	37723	2126	2012	4998	5378	44333	45113	1.8
CH	37116	40119	1237	1122	3664	3609	42017	44850	6.7

**NB:** (<sup>1</sup>) Data included under 'Light commercial vehicles'.

(<sup>2</sup>) The split in UK corresponds to light goods vehicles and heavy goods vehicles with no further separation.

CY: vehicle classification corresponds to 'light', 'heavy' and 'road tractors' goods conveyance vehicles.

UK: 2019 figure: national sources.



## 2.6.8.

# Road

## BUSES AND COACHES

## NEW VEHICLE REGISTRATIONS

LIGHT BUSES AND COACHES			BUSES AND COACHES		HEAVY BUSES AND COACHES		TOTAL		%
< 3.5t			> 3.5t and < 16t		> 16t				
	2018	2019	2018	2019	2018	2019	2018	2019	CHANGE 2018 – 2019
EU-27							37 198	38 391	3.2
EU-28							45 406	45 617	0.5
BE	0	1	317	230	672	1 056	989	1 287	30.1
BG	402	424	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	402	424	5.4
CZ	11	1	87	90	922	1 150	1 020	1 241	21.7
DK	838	1 101	319	288	184	127	1 341	1 516	13.0
DE	18	9	1 167	886	5 502	5 199	6 687	6 094	–8.9
EE	0	0	73	52	69	155	142	207	45.8
IE	71	48	253	123	294	347	618	518	–16.2
EL	80	108	87	125	96	142	263	375	42.6
ES	0	0	748	677	2 579	2 541	3 327	3 218	–3.3
FR	0	0	1 199	1 265	5 031	5 515	6 230	6 780	8.8
HR	0	0	60	61	182	253	242	314	29.8
IT	21	38	1 229	1 415	3 119	2 698	4 369	4 151	–5.0
CY	45	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	45	19	–57.8
LV	4	2	62	76	46	41	112	119	6.3
LT	0	0	346	229	350	286	696	515	–26.0
LU	4	0	22	32	199	240	225	272	20.9
HU	1	3	228	95	434	611	663	709	6.9
MT	21	33	28	40	1	2	50	75	50.0
NL	1	2	112	98	317	836	430	936	117.7
AT	1	4	123	100	937	1 014	1 061	1 118	5.4
PL	4 847	3 598	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4 845	3 598	–25.7
PT	35	0	180	215	320	303	535	518	–3.2
RO	1	5	926	1 241	103	663	1 030	1 909	85.3
SI	0	0	56	53	131	149	187	202	8.0
SK	0	0	45	50	257	315	302	365	20.9
FI	4	1	344	277	153	315	501	593	18.4
SE	14	1	279	384	593	933	886	1 318	48.8
UK	8 208	7 226	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8 208	7 226	–12.0
IS	60	47	7	4	58	48	125	99	–20.8
NO	23	36	397	450	604	1 844	1 024	2 330	127.5
CH	159	136	168	170	446	476	773	782	1.2

NB: (<sup>1</sup>) Figures included in other categories.

## 2.6.9.

Road  
MOTORCYCLES

## NEW VEHICLE REGISTRATIONS

	1 000							%
	1995	2000	2005	2010	2015	2017	2018	CHANGE 2017-2018
EU-27			1 229.0	997.6	789.2	821.1	909.4	10.8
EU-28			1 337.1	1 078.9	894.9	918.8	1 009.8	9.9
BE		25.3	25.0	26.4	21.6	21.4	23.9	11.9
BG		1.2	0.6	0.9	0.8	0.8	0.9	8.6
CZ	6.9	3.9	7.6	5.4	13.4	12.3	13.9	13.1
DK	2.3	3.3	5.8	3.1	2.4	2.8	3.4	21.7
DE	218.2	252.6	168.7	122.3	151.7	140.7	156.1	11.0
EE		0.1	0.3	0.5	0.5	0.5	0.6	16.4
IE		3.8	2.4	1.1	1.0	1.3	1.4	4.6
EL		64.0	83.1	61.5	32.5	27.5	32.6	18.6
ES		72.0	205.6	134.3	132.5	136.2	159.9	17.5
FR		179.6	196.6	231.6	153.2	162.8	177.5	9.0
HR			6.7	2.9	1.5	2.2	2.8	25.5
IT		524.6	420.5	306.3	172.1	204.6	219.7	7.4
CY			2.5	3.1	1.7	2.0	2.3	14.7
LV			0.4	0.3	0.6	0.6	0.8	26.8
LT		0.4	1.7	0.2	0.3	0.4	0.4	13.4
LU	1.0	1.3	1.3	1.6	1.7	1.8	2.0	9.2
HU			12.5	3.2	2.1	2.3	3.1	34.2
MT			0.4	0.6	1.3	2.2	2.5	13.5
NL	17.8	19.6	16.8	15.2	11.7	13.1	13.9	6.4
AT	18.7	23.8	19.1	21.4	24.9	24.9	26.0	4.6
PL			3.8	8.7	23.9	15.0	14.6	-3.2
PT	12.1	17.7	11.2	18.9	17.6	24.8	28.3	14.2
RO			0.8	0.6	0.6	1.1	1.5	36.8
SI		1.2	2.5	2.7	1.9	2.3	2.3	3.4
SK			1.2	2.3	5.3	4.9	5.3	7.3
FI		5.2	9.2	9.5	3.2	2.8	3.2	13.4
SE		18.4	22.8	13.2	9.4	9.7	10.4	6.7
UK		121.9	108.1	81.3	105.7	97.7	100.4	2.8
ME					0.7	0.7	0.9	32.2
MK	1.0	0.5	0.1	3.2	2.4	5.7	3.0	-46.3
AL								
RS				8.0	3.9	3.1	3.7	18.2
TR			227.7	135.6	162.8	139.7	110.4	-21.0
IS		0.2	1.1					
NO			6.2	7.0	6.8	10.2	11.3	10.8
CH		30.6	40.2	38.2	47.7	44.4	40.8	-8.0

## 2.6.10.

Road  
MOPEDS

## NEW VEHICLE DELIVERIES

	1 000						%
	2000	2005	2010	2015	2017	2018	CHANGE 2017–2018
<b>EU-27</b>				<b>335.7</b>	<b>418.5</b>	<b>290.9</b>	<b>–30.5</b>
<b>EU-28</b>				<b>345.1</b>	<b>426.2</b>	<b>296.3</b>	<b>–30.5</b>
BE	33.2	17.3	14.2	12.4	18.8	21.4	14.0
BG	2.1	1.1	2.1	0.8	1.0	0.8	–19.5
CZ		8.0	2.9	1.5	1.4	0.9	–35.1
DK	9.8	4.9	16.5	6.9	12.4	5.3	–57.6
DE	108.7	97.3	64.9	32.6	33.3	25.6	–22.9
EE		8.0	0.0	0.7	0.6	0.6	10.2
IE	3.0	0.8	0.2	0.2	0.2	0.2	43.7
EL	19.2	24.1	18.9	8.6	4.5	6.6	45.4
ES	248.6	115.1	34.2	16.0	21.7	16.1	–26.0
FR	192.3	154.9	144.5	89.6	107.3	72.9	–32.0
HR		13.2	6.4	1.8	1.8	2.5	39.8
IT	311.8	128.3	90.2	24.6	26.0	21.3	–18.1
CY		2.1	0.5	0.2	0.2	0.3	22.2
LV		0.6	1.0	1.0	1.3	0.6	–49.9
LT			1.2	0.7	0.7	0.3	–50.6
LU	0.5	0.5	0.7	0.9	0.5	0.3	–44.5
HU			3.6	3.3	3.3	3.2	–0.5
MT				0.0	0.0	0.1	118.4
NL	66.9	40.9	90.7	66.0	86.8	59.0	–32.1
AT	21.3	27.7	24.9	13.8	15.6	11.9	–24.1
PL		23.3	72.2	30.4	29.6	16.4	–44.6
PT	15.0		4.6	2.6	3.1	2.5	–18.6
RO				0.7	0.3	0.0	–91.3
SI		3.1	3.5	2.3	18.6	5.2	–71.9
SK		2.0	1.8	0.6	0.4	0.2	–41.6
FI	6.4	20.9	17.9	7.0	6.9	4.9	–29.0
SE	10.0	15.4	13.3	10.6	22.2	11.6	–47.5
UK	48.2	24.7	14.5	9.4	7.8	5.4	–30.7
ME							
MK							
AL							
RS			8.8	2.4	1.7	1.9	12.9
TR			1.5	2.3	18.0	46.6	158.5
IS							
NO		11.9	8.1	7.4	5.3	4.2	–20.6
CH	19.4	3.1	3.1	0.8	0.7	0.8	24.9

NB: SI: data not comparable between 2016 and 2017 due to break in time series: since May 2017 obligatory registration of mopeds with the maximum speed of 25 km/h.

## 2.6.11.

# Sea

## EU MERCHANT FLEET

## SHIPS OF 1000 gt AND OVER

On 1 January 2019								
	TOTAL FLEET CONTROLLED		NATIONAL FLAG (¹)		FOREIGN FLAG (INCLUDING OTHER EU)		% OF FOREIGN FLAG IN TOTAL FLEET	
	Number	m dwt	Number	m dwt	Number	m dwt	Number	m dwt
<b>EU-27</b>	<b>12 571</b>	<b>654.901</b>	<b>2 900</b>	<b>129.797</b>	<b>9 671</b>	<b>525.104</b>		
<b>EU-28</b>	<b>13 328</b>	<b>686.889</b>	<b>3 089</b>	<b>135.534</b>	<b>10 074</b>	<b>551.355</b>		
BE	247	28.102	82	9.917	165	18.185	66.8	64.7
BG	72	1.572	15	0.122	57	1.450	79.2	92.2
CZ	–	–	–	–	–	–	–	–
DK	927	45.744	363	20.337	564	25.407	60.8	55.5
DE	2790	95.511	187	8.320	2 603	87.191	93.3	91.3
EE	82	0.387	11	0.019	71	0.368	86.6	95.1
IE	98	1.734	38	0.332	60	1.402	61.2	80.9
EL	4850	380.281	686	65.616	4 164	314.665	85.9	82.7
ES	194	3.203	93	0.705	101	2.498	52.1	78.0
FR	313	15.964	109	3.257	204	12.707	65.2	79.6
HR	82	2.446	57	1.752	25	0.694	30.5	28.4
IT	1100	48.043	437	11.625	663	36.418	60.3	75.8
CY	153	5.210	43	1.055	110	4.155	71.9	79.8
LV	48	0.245	3	0.007	45	0.238	93.8	97.1
LT	49	0.214	16	0.087	33	0.127	67.3	59.3
LU	9	0.759	–	–	9	0.759	100.0	100.0
HU	–	–	–	–	–	–	–	–
MT	46	0.829	29	0.244	17	0.585	37.0	70.6
NL	873	11.543	564	4.706	309	6.837	35.4	59.2
AT	5	0	–	–	5	0.039	100.0	100.0
PL	110	2.549	6	0.017	104	2.532	94.5	99.3
PT	39	1.209	18	0.107	21	1.102	53.8	91.1
RO	85	0.898	2	0.024	83	0.874	97.6	97.3
SI	3	0.008	–	–	3	0.008	100.0	100.0
SK	–	–	–	–	–	–	–	–
FI	103	1.949	62	0.632	41	1.317	39.8	67.6
SE	293	6.462	79	0.916	214	5.546	73.0	85.8
UK	757	31.988	189	5.737	568	26.251	75.0	82.1
ME	4	0.140	4	0.140	–	–	0.0	0.0
MK	–	–	–	–	–	–	–	–
AL	28	0.098	12	0.030	16	0.068	57.1	69.4
RS	–	–	–	–	–	–	–	–
TR	1470	28.745	429	6.469	1 041	22.276	70.8	77.5
IS	18	0.105	3	0.001	15	0.104	83.3	99.0
NO	1728	74.234	553	16.731	1 175	57.503	68.0	77.5
CH	222	9.054	30	1.225	192	7.829	86.5	86.5

**NB:** (\*) Including international registers such as NIS and DIS.  
Including vessels registered in territorial dependencies.

## 2.6.12a.

# Sea

## WORLD MERCHANT FLEET

## TOTAL CONTROLLED FLEET BY WORLD REGION

	dwt (million)							
World region	2012	2013	2014	2015	2016	2017	2018	2019
Europe (*)	601.009	669.864	696.400	739.100	773.535	807.389	805.649	843.062
of which: EU-27 (**)	468.301	523.200	553.219	578.157	598.633	615.565	642.827	654.901
North America	62.973	69.064	70.211	82.881	91.419	97.637	88.228	93.243
Latin America	47.548	22.651	31.838	29.608	26.721	26.254	26.115	27.835
Asia / Oceania	607.475	748.366	780.826	805.594	819.712	855.309	887.850	931.773
Africa	8.818	12.753	13.640	13.451	13.689	14.683	15.183	15.183
Unknown	126.018	8.178	3.007	4.561	7.385	4.786	3.025	5.852
WORLD TOTAL	1 453.842	1 530.876	1 595.922	1 675.195	1 732.461	1 806.058	1 826.050	1 872.817

## SHARE OF EU IN TOTAL AND OF FOREIGN FLAG IN EU

EU-27 (**)	%							
Control of total	35.0	34.2	34.7	34.5	34.6	34.1	35.2	35.0
Foreign flag share (***)	70.6		74.0	75.5	77.7	78.5	78.9	80.2

**NB:** Only ships of 1 000 gt and over.

(\*) In this table Europe includes EU-27, EFTA, UK, Andorra, Gibraltar, Moldova, Monaco, Turkey, Russia, Ukraine and the western Balkan countries.

(\*\*) EU-27 since 2012.

(\*\*\*) Foreign flag share includes ships registered by EU Member States in other EU Member States.

## 2.6.12b.

## Sea

## WORLD MERCHANT FLEET BY TYPE OF SHIP

FOR TRANSPORT OF GOODS AND PASSENGERS:  
FLEET BY TYPE OF SHIP AND COUNTRY OF DOMICILE

NUMBERS AND DEADWEIGHT						
On 1 January 2019	Number			dwt (1 000)		
(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
<b>TOTAL FLEET</b>	<b>43 739</b>	<b>12 571</b>	<b>29</b>	<b>1 872 817</b>	<b>654 901</b>	<b>35</b>
<b>Tankers</b>	<b>12 577</b>	<b>3 546</b>	<b>28</b>	<b>724 153</b>	<b>255 595</b>	<b>35</b>
Of which:						
Crude oil and oil product tankers	5 735	1 521	27	492 310	183 714	37
Oil/chemical tankers	5 085	1 552	31	116 761	45 376	39
Liquid gas tankers	1 757	473	27	115 082	26 505	23
<b>Bulk carriers</b>	<b>11 139</b>	<b>3 141</b>	<b>28</b>	<b>812 702</b>	<b>244 663</b>	<b>30</b>
<b>Container ships</b>	<b>5 235</b>	<b>2 441</b>	<b>47</b>	<b>265 061</b>	<b>134 890</b>	<b>51</b>
<b>General cargo</b>	<b>12 394</b>	<b>2 759</b>	<b>22</b>	<b>111 298</b>	<b>28 595</b>	<b>26</b>
Of which:						
Conventional cargo	8 562	1 722	20	47 019	10 769	23
Special cargo (*)	1 496	521	35	40 457	11 357	28
Pure car carriers	780	84	11	12 556	1 248	10
Reefer	641	153	24	3 963	1 414	36
Ro-Ro cargo	915	279	30	7 304	3 799	52
<b>Passenger and passenger cargo</b>	<b>2 394</b>	<b>691</b>	<b>29</b>	<b>6 612</b>	<b>2 266</b>	<b>34</b>

## FOR TRANSPORT OF GOODS AND PASSENGERS: PASSENGER AND PASSENGER/CARGO SHIPS BY REGISTERED FLAG

NUMBERS AND GROSS TONS						
On 1 January 2018	Number			gt (1 000)		
(ships of 300 gt and over)	WORLD	EU-28	%	WORLD	EU-28	%
<b>TOTAL</b>	<b>4 812</b>	<b>1 285</b>	<b>27</b>	<b>41 790</b>	<b>17 686</b>	<b>42</b>
<b>Cargo passenger and Ro-Ro passenger ships</b>	<b>2 867</b>	<b>810</b>	<b>28</b>	<b>17 988</b>	<b>8 770</b>	<b>49</b>
<b>Passenger (not Ro-Ro)</b>	<b>1 945</b>	<b>475</b>	<b>24</b>	<b>23 802</b>	<b>7 142</b>	<b>30</b>

## Up to December 2018 (\*\*)

(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
	328	61	19	22 770	3 862	17

NB: (\*) Including open hatch carriers.

(\*\*) No deadweight figure is given for cruise ships, since dwt is a measure of the weight admissible in the vessel.

Ro-Ro: vehicles roll on to embark, vehicles roll off to disembark.

Reefer: refrigerated ships.

## 2.6.13.

# Air

## PASSENGER AIRCRAFT

### NUMBER OF CIVIL AIRCRAFT IN SERVICE

PASSENGER AIRCRAFT					
On 31 December 2019					
	50 seats or fewer	51 to 150 seats	151 to 250 seats	251 seats or more	TOTAL
EU-27	178	1 017	2 061	587	3 843
EU-28	260	1 172	2 511	737	4 680
BE	1	34	31	17	83
BG	5	11	26		42
CZ	4	8	10	1	23
DK	21	13	18	6	58
DE	17	143	278	145	583
EE	2		7		9
IE	1	21	457	14	493
EL	12	20	56		88
ES	5	133	219	90	447
FR	46	122	122	104	394
HR	1	11	3		15
IT		65	71	40	176
CY		5			5
LV	1	38	7		46
LT	6	4	12		22
LU		16	4		20
HU	3		111		114
MT	6	6	71	4	87
NL	10	72	66	72	220
AT	3	48	216	6	273
PL	5	59	64	18	146
PT	5	42	52	33	132
RO	6	28	19		53
SI	7	1			8
SK			3		3
FI		35	29	22	86
SE	11	82	109	15	217
UK	82	155	450	150	837
ME		4			4
MK					
AL		2	3		5
RS		17	2	1	20
TR	2	6	364	92	464
IS	11	3	23	4	41
LI					
NO	34	13	24	16	87
CH	14	50	87	18	169

**NB:** More than 30 000 small private planes not included.  
In this table blank means none.

## 2.6.14.

## Air

## FREIGHT, SPECIAL, BUSINESS AIRCRAFT

## NUMBER OF CIVIL AIRCRAFT IN SERVICE

## FREIGHT, SPECIAL, BUSINESS AIRCRAFT

On 31 December 2019

	FREIGHT / CARGO		QUICK-CHANGE CONVERTIBLE	SPECIAL PURPOSE/ AMBULANCE	BUSINESS/ CORPORATE/ EXECUTIVE
	under 100 000 lbs mtow	over 100 000 lbs mtow	(pass./cargo) Multi-role		
EU-27	123	211	17	119	1 722
EU-28	130	265	18	137	2 053
BE		33			59
BG	2	9			11
CZ					1
DK	2	14	7	1	67
DE	3	73		40	436
EE	10				11
IE	23	10		1	32
EL	5			2	18
ES	31	9	4	10	66
FR		18	2	2	132
HR					6
IT	2	7		19	80
CY					12
LV	4				2
LT				1	12
LU	1	25		6	87
HU	3	2	1	1	11
MT			1		194
NL		4		1	32
AT				8	213
PL	13	1	2		41
PT				5	119
RO					9
SI		2			18
SK		3			13
FI				1	8
SE	24	1		21	32
UK	7	54	1	18	331
ME				1	1
MK					
AL					2
RS					25
TR		27		16	79
IS		12			
LI					4
NO					16
CH	5			5	126

NB: Special purpose / ambulance: contains data about hospital/ambulance/medevac and special role/operations/mission aircraft.  
mtow: maximum take-off weight.  
In this table blank means none.



## 2.6.15.

## Rail

## LOCOMOTIVES AND RAILCARS

## STOCK OF VEHICLES

								%
								CHANGE 2017–2018
	1990	2000	2005	2010	2015	2017	2018	
<b>EU-27</b>			<b>46 374</b>	<b>53 393</b>	<b>53 729</b>	<b>52 158</b>	<b>52 581</b>	<b>0.8</b>
<b>EU-28</b>			<b>49 551</b>	<b>64 103</b>	<b>65 076</b>	<b>63 505</b>	<b>63 928</b>	<b>0.7</b>
BE	1 727	1 670	1 518	1 341	1 188	1 188	1 188	0.0
BG	1 119	762	669	624	440	461	455	–1.3
CZ		3 596	3 163	2 258	2 285	2 242	2 253	0.5
DK	524	415	464	495	881	709	723	2.0
DE	14 437	9 656	7 742	15 613	16 613	16 049	16 480	2.7
EE	300	196	344	374	358	349	343	–1.7
IE	166	224	412	572	482	482	426	–11.6
EL	400	244	289	306	258	258	258	0.0
ES	1 922	1 693	1 946	1 732	1 634	1 502	1 481	–1.4
FR	7 422	7 158	6 948	6 849	7 614	7 661	7 609	–0.7
HR	563	480	377	284	298	298	298	0.0
IT	4 818	4 697	4 674	4 494	2 631	1 869	2 137	14.3
CY	–	–	–	–	–	–	–	–
LV	739	433	358	196	204	196	177	–9.7
LT	389	419	365	275	240	227	227	0.0
LU	97	124	145	91	89	91	100	9.9
HU	2 040	1 453	1 385	1 275	1 225	1 180	1 081	–8.4
MT	–	–	–	–	–	–	–	–
NL	2 372	1 965	2 078	2 411	2 780	3 193	3 272	2.5
AT	1 543	1 530	1 500	2 081	1 972	1 994	2 039	2.3
PL	5 483	5 293	5 828	5 657	5 526	5 270	5 295	0.5
PT	530	589	439	363	231	45	47	4.4
RO	4 515	3 440	2 186	2 229	2 329	2 288	2 052	–10.3
SI	358	300	261	267	401	400	400	0.0
SK		1 570	1 204	1 035	978	851	804	–5.5
FI	669	735	702	644	650	676	641	–5.2
SE	1 234	1 032	1 377	1 927	2 422	2 679	2 795	4.3
UK	5 610		3 177	10 710	11 347	11 347	11 347	0.0
ME	–	–	–	–	–	–	–	–
MK	92	101	73	63	53	58	100	72.4
AL								
RS					335	368	325	–11.7
TR	897	849	735	673	851	889	861	–3.1
IS	–	–	–	–	–	–	–	–
NO	502	299	289	544	270	279	279	0.0
CH	1 254	1 528	2 198	1 745	1 694	1 678	1 675	–0.2

**NB:** Data relate to main railway undertakings. Values in this table consider the declared values of locomotives (diesel + electric) and railcars (diesel + electric), and in some cases multiple units.

DE: includes former GDR: 1990 = 6 331.

CS: 1990 = 6 010.

2017 data for BE, DK, EL, LU, UK refer to the previous year.

## 2.6.16.

## Rail

## PASSENGER TRANSPORT VEHICLES

## STOCK OF COACHES, RAILCARS AND TRAILERS

								%
	1990	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018
<b>EU-27</b>		<b>100 981</b>	<b>90 831</b>	<b>89 486</b>	<b>85 849</b>	<b>84 173</b>	<b>84 992</b>	<b>1.0</b>
<b>EU-28</b>		<b>111 405</b>	<b>101 765</b>	<b>101 237</b>	<b>98 153</b>	<b>96 477</b>	<b>97 296</b>	<b>0.8</b>
BE	3 286	3 494	3 251	3 412	2 345	3 838	3 838	0.0
BG	2 386	2 099	1 558	1 369	756	756	778	2.9
CZ		5 252	4 895	4 514	4 139	3 872	3 845	–0.7
DK	1 594	1 590	1 473	1 307	2 209	2 041	1 999	–2.1
DE	24 139	21 097	20 169	18 565	18 990	17 753	18 059	1.7
EE	596	241	234	217	280	274	273	–0.4
IE	314	421	581	592	426	426	426	0.0
EL	810	505	564	718	707	707	707	0.0
ES	3 839	4 315	5 236	5 365	4 292	4 266	4 265	0.0
FR	15 748	15 694	15 879	13 521	16 204	15 022	16 493	9.8
HR	1 052	720	579	523	545	513	497	–3.1
IT	14 025	11 914	10 066	12 465	9 762	9 050	8 692	–4.0
CY	–	–	–	–	–	–	–	–
LV	1 226	702	490	238	374	370	370	0.0
LT	664	563	467	337	217	214	192	–10.3
LU	114	149	185	214	242	259	251	–3.1
HU	4 385	3 232	2 787	3 136	2 495	2 331	2 305	–1.1
MT	–	–	–	–	–	–	–	–
NL	2 268	2 742	852	2 824	2 791	3 093	3 165	2.3
AT	3 689	3 468	3 112	2 974	2 646	2 834	2 834	0.0
PL	11 928	9 761	8 843	7 885	7 409	7 263	6 764	–6.9
PT	1 232	1 303	1 125	965	977	981	981	0.0
RO	6 352	6 234	3 310	3 037	2 329	2 313	2 312	0.0
SI	606	461	401	355	349	349	347	–0.6
SK		2 273	1 808	1 530	1 406	1 373	1 289	–6.1
FI	957	1 003	1 084	1 071	1 101	1 227	1 226	–0.1
SE	1 747	1 748	1 882	2 352	2 858	3 048	3 084	1.2
UK		10 424	10 934	11 751	12 304	12 304	12 304	0.0
ME	–	–	–	–	–	–	–	–
MK	175	164	125	64	67	67	67	0.0
AL								
RS					882	318	193	–39.3
TR	1 443	1 415	1 312	1 342	1 467	1 426	1 332	–6.6
IS	–	–	–	–	–	–	–	–
NO	900	918	191	210	386	394	394	0.0
CH	4 136	3 333	4 293	4 949	5 245	5 355	5 474	2.2

NB: Data relate to main railways (UIC members).

DE: includes former GDR: 1990 = 9 635.

CS: 1970 = 10 145; 1990 = 8 597.

## 2.6.17.

## Rail

## GOODS TRANSPORT WAGONS

## STOCK OF VEHICLES

	1990	2000	2005	2010 (*)	2015 (*)	2017 (*)	2018 (*)
<b>EU-27</b>							
<b>EU-28</b>							
BE	30 332	18 790	17 375	11 612	<i>11 612</i>	<i>11 612</i>	<i>11 612</i>
BG	42 459	29 720	16 511	11 751	4 572	4 510	4 409
CZ		58 524	44 545	27 416	25 863	23 560	22 578
DK	4 632	2 236					
DE	366 724	189 558	158 247	108 840	88 066	82 864	80 608
EE		5 857	18 971	17 575	21 501	21 835	22 522
IE	1 830	1 856	926	502	449	442	442
EL	10 967	3 453	3 491	3 158	3 522	3 522	3 522
ES	37 687	26 452	23 842	14 337	11 353	11 292	11 382
FR	148 100	94 789	95 738	25 314	14 052	12 347	12 347
HR	13 720	9 986	7 330	6 674	5 519	5 420	5 326
IT	99 728	70 115	45 730	30 331	20 270	17 364	15 383
CY	—	—	—	—	—	—	—
LV	11 085	9 146	8 871	9 033	9 807	8 769	8 012
LT	12 860	13 155	13 192	9 238	8 574	8 131	7 772
LU	2 719	2 626	3 222	4 147	3 006	3 117	3 161
HU		23 528	19 130	11 357	8 916	8 898	8 750
MT	—	—	—	—	—	—	—
NL	6 697	4 700					
AT	34 330	23 970	22 655	21 015	19 294	18 619	18 242
PL	275 582	130 116	103 234	89 270	86 364	87 696	87 990
PT	4 579	4 162	3 495	3 194	3 283	3 203	3 072
RO	166 086	117 982	65 175	72 605	36 858	34 175	35 322
SI	8 692	6 258	4 465	3 211	3 049	2 779	2 748
SK		26 975	25 515	15 260	15 533	15 509	13 836
FI	15 200	12 630	11 216	10 464	8 854	8 821	8 741
SE	27 470	17 596	16 637	15 166			
UK	34 403						
ME	—	—	—	—	—	—	—
MK			1 525	1 144	1 161	1 289	1 289
AL							
RS					8 486	6 781	6 427
TR	21 941	17 872	17 499	17 773	19 077	15 979	16 902
IS	—	—	—	—	—	—	—
NO							
CH	27 104	19 894	18 339	8 794	6 467	5 716	5 763

NB: Data relate to main railways (UIC members)

EL, IE, MK: figures in italic refer to value of previous year

BE: 2009 data (UIC)

(\*): Not including private-owners' vehicles; not fully comparable with data of previous years.

DE: includes former GDR: 1990 = 163 158.

## 2.7.1.

## Road fatalities

								%	
	1990	2000	2005	2010	2015	2017	2018	CHANGE 2017– 2018	CHANGE 2001– 2018
<b>EU-27</b>	<b>71 774</b>	<b>53 502</b>	<b>42 607</b>	<b>29 611</b>	<b>24 360</b>	<b>23 394</b>	<b>23 374</b>	<b>–0.1</b>	<b>–54.5</b>
<b>EU-28</b>	<b>77 176</b>	<b>57 082</b>	<b>45 943</b>	<b>31 516</b>	<b>26 164</b>	<b>25 250</b>	<b>25 213</b>	<b>–0.1</b>	<b>–54.1</b>
BE	1 976	1 470	1 089	850	762	609	604	–0.8	–59.4
BG	1 567	1 012	957	776	708	682	610	–10.6	–39.7
CZ	1 291	1 486	1 286	802	734	577	656	13.7	–50.8
DK	634	498	331	255	178	175	171	–2.3	–60.3
DE	11 046	7 503	5 361	3 648	3 459	3 180	3 275	3.0	–53.1
EE	436	204	170	79	67	48	67	39.6	–66.3
IE	478	418	400	212	162	156	141	–9.6	–65.8
EL	1 737	2 037	1 658	1 258	793	731	700	–4.2	–62.8
ES	9 032	5 777	4 442	2 479	1 689	1 830	1 806	–1.3	–67.3
FR	11 215	8 079	5 318	3 992	3 461	3 444	3 246	–5.7	–60.2
HR	1 360	655	597	426	348	331	317	–4.2	–51.0
IT	7 151	7 061	5 818	4 114	3 428	3 378	3 334	–1.3	–53.0
CY	101	111	102	60	57	53	49	–7.5	–50.0
LV	947	635	442	218	188	136	150	10.3	–73.1
LT	1 001	641	773	299	242	191	173	–9.4	–75.5
LU	71	76	47	32	36	25	36	44.0	–48.6
HU	2 432	1 200	1 278	740	644	625	633	1.3	–48.9
MT	4	15	17	13	11	19	18	–5.3	12.5
NL	1 376	1 082	750	537	531	535	598	11.8	–39.8
AT	1 558	976	768	552	479	414	409	–1.2	–57.3
PL	7 333	6 294	5 444	3 908	2 938	2 831	2 900	2.4	–47.6
PT	2 646	1 877	1 247	937	593	602	700	16.3	–58.1
RO	3 782	2 466	2 629	2 377	1 893	1 951	1 867	–4.3	–23.8
SI	517	314	258	138	120	104	91	–12.5	–67.3
SK	662	628	606	371	310	276	260	–5.8	–57.7
FI	649	396	379	272	270	238	239	0.4	–44.8
SE	772	591	440	266	259	253	324	28.1	–44.4
UK	5 402	3 580	3 336	1 905	1 804	1 856	1 839	–0.9	–48.9
ME				95	51	63	48	–23.8	
MK		162	143	162	148	155	133	–14.2	24.3
AL		280	307	352	270	222	213	–4.1	–28.3
RS				656	601	578	548	–5.2	
TR	6 317	5 510	4 505	4 045	7 530	7 427	6 675	–10.1	52.2
IS	24	32	19	8	16	16	18	12.5	–25.0
NO	332	341	224	208	123	106	108	1.9	–60.7
CH	954	592	409	328	253	230	233	1.3	–57.2

**NB:** Persons killed are all persons deceased within 30 days of the accident. Corrective factors have been applied to the figures which did not follow this definition. As of 2015 TR includes people deceased within 30 days of the accident (break in series). As of 2018 PT includes data for Azores and Madeira.

## 2.7.2. Road fatalities country rankings

### FATALITIES

2018					
per million inhabitants		per 10 billion pkm		per million passenger cars	
IE	29	IE	25	MT	61
DK	30	SE	28	SE	67
SE	32	DK	28	DK	67
NL	35	SI	32	IE	67
MT	37	DE	35	FI	69
ES	39	FI	35	DE	70
DE	40	NL	41	NL	71
FI	43	FR	42	ES	76
SI	44	IT	44	SI	80
AT	46	LU	45	AT	83
SK	48	EE	48	IT	86
FR	48	AT	51	LU	88
EE	51	ES	51	CY	91
EU-27	52	EU-27	54	EE	91
BE	53	BE	56	EU-27	100
IT	55	LT	57	FR	101
CY	56	EL	64	BE	104
LU	59	MT	65	SK	114
CZ	62	CY	71	CZ	116
LT	62	PT	72	LT	124
HU	65	CZ	80	PL	126
EL	65	SK	88	EL	131
PT	68	LV	95	PT	135
PL	76	HU	97	HU	178
HR	77	BG	104	HR	194
LV	78	HR	123	LV	217
BG	87	PL	134	BG	220
RO	96	RO	173	RO	300

**NB:** Fatalities: all fatalities on the road: car drivers and passengers, bus and coach occupants, powered two-wheeler<sup>7</sup> riders and passengers, cyclists, pedestrians, commercial vehicle drivers, etc. indicated in Table 2.7.1.  
 pkm: indicator of traffic volume (in the absence of consistent vehicle-kilometre data); passenger-kilometres of cars indicated in Table 2.3.4 plus (mostly estimated) passenger-kilometres of motorised two-wheelers.  
 Inhabitants: the average population in 2018, Eurostat [demo\_gind].  
 Passenger cars: the average stock of vehicles indicated in Table 2.6.2 for 2017 and 2018.

## 2.7.3a.

## Road fatalities

### BY TYPE OF USER

	YEAR	TOTAL	DRIVERS AND CYCLISTS	PASSENGERS	PEDESTRIANS	PEDESTRIANS AS % OF TOTAL
BE	2018	603	456	73	74	12.3
BG	2018	610	315	172	123	20.2
CZ	2018	656	401	113	142	21.6
DK	2018	171	122	19	30	17.5
DE	2018	3 275	2 433	378	464	14.2
EE	2018	67	42	13	12	17.9
IE	2016	182	108	39	35	19.2
EL	2018	700	450	104	146	20.9
ES	2018	1 806	1 153	267	386	21.4
FR	2018	3 246	2 326	452	468	14.4
HR	2018	317	193	59	65	20.5
IT	2018	3 334	2 258	464	612	18.4
CY	2018	49	33	8	8	16.3
LV	2018	148	72	26	50	33.8
LT	2018	173	71	31	71	41.0
LU	2018	36	28	5	3	8.3
HU	2018	633	338	130	165	26.1
MT	2018	18	12	4	2	11.1
NL	2018	598	466	82	50	8.4
AT	2018	409	309	53	47	11.5
PL	2017	2 831	1 458	500	873	30.8
PT	2018	700	450	87	163	23.3
RO	2018	1 867	764	413	690	37.0
SI	2018	91	65	13	13	14.3
SK	2018	260	148	40	72	27.7
FI	2018	239	174	40	25	10.5
SE	2018	324	227	54	34	10.5
UK	2018	1 839	1 093	274	472	25.7

**NB:** Persons deceased within 30 days of their accident. In this table the totals exclude victims labelled as 'Unknown'.

## 2.7.3b. Road fatalities of vehicle occupants

### BY TYPE OF VEHICLE

	Year	Total	CAR AND TAXI	MOTORCYCLE	MOPED	BUS AND COACH	PEDAL CYCLE	AGRICULTURAL TRACTOR	HEAVY GOODS VEHICLE	LORRY, < 3.5 TONNES	OTHER OR UNKNOWN
BE	2018	530	275	87	18	2	89	4	19	30	6
BG	2018	487	341	4	7	28	21	1	68	0	17
CZ	2018	514	333	94	5	3	56	0	19	2	2
DK	2018	141	65	21	10	0	28	0	3	13	1
DE	2018	2 811	1 424	619	78	9	445	20	95	79	42
EE	2018	55	21	6	0	1	3	0	3	0	21
IE	2016	147	106	22	0	0	10	0	3	5	1
EL	2018	554	267	190	27	0	12	17	10	31	0
ES	2018	1 420	732	359	62	12	58	20	58	93	26
FR	2018	2 778	1 637	627	133	3	175	16	44	92	51
HR	2018	252	154	55	4	0	22	9	2	4	2
IT	2018	2 722	1 423	687	108	5	219	15	50	139	76
CY	2018	41	15	14	2	0	1	1	0	7	1
LV	2018	98	70	3	4	1	9	4	3	2	2
LT	2018	102	78	13	1	0	9	0	0	0	1
LU	2018	33	19	9	0	0	3	0	0	1	1
HU	2018	468	291	49	13	3	68	0	14	25	5
MT	2018	16	5	7	1	2	1	0	0	0	0
NL	2018	548	245	42	31	0	122	0	7	21	80
AT	2018	362	181	102	8	2	41	9	4	11	4
PL	2017	1 958	1 295	231	55	3	220	17	136	0	1
PT	2018	537	238	112	42	1	26	28	7	61	22
RO	2018	1 177	737	55	18	11	181	8	14	73	80
SI	2018	78	32	16	2	0	8	1	6	0	13
SK	2018	188	120	0	3	2	19	0	3	19	22
FI	2018	214	146	24	3	5	21	2	3	6	4
SE	2018	290	181	47	7	0	23	3	4	12	13
UK	2018	1 367	799	353	8	16	100	6	17	38	30

**NB:** Persons deceased within 30 days of their accident. PL: the figure for heavy goods vehicles includes lorries < 3.5 tonnes.

## 2.7.4. Road accidents

### NUMBER OF ACCIDENTS INVOLVING PERSONAL INJURY

	1 000								% CHANGE 2017–2018
	1990	1995	2000	2005	2010	2015	2017	2018	
EU-27	1 236.477	1 195.684	1 263.536	1 138.269	970.318	944.685	948.364	948.511	0.0
EU-28	1 502.077	1 433.020	1 505.653	1 341.981	1 130.398	1 090.888	1 084.427	1 076.895	–0.7
BE	62.446	50.744	49.065	49.307	40.569	40.303	38.020	38.455	1.1
BG	6.478	7.435	6.886	8.224	6.610	7.226	6.888	6.684	–3.0
CZ	21.910	28.746	25.445	25.239	19.675	21.561	21.263	21.890	2.9
DK	9.155	8.373	7.346	5.413	3.498	2.853	2.789	2.964	6.3
DE	389.350	388.003	382.949	336.618	288.297	305.659	302.656	308.721	2.0
EE	2.099	1.644	1.504	2.341	1.347	1.391	1.405	1.474	4.9
IE	6.067	8.117	7.749	6.533	5.779	5.831	6.023	6.093	1.2
EL	19.609	22.798	23.001	16.914	15.032	11.440	10.848	10.737	–1.0
ES	101.507	83.586	101.729	91.187	85.503	97.756	102.233	102.299	0.1
FR	162.573	132.949	121.223	84.525	67.288	56.600	58.609	55.762	–4.9
HR	14.471	12.668	14.430	15.679	13.274	11.038	10.939	10.450	–4.5
IT	161.782	182.761	256.546	240.011	212.997	174.539	174.933	172.553	–1.4
CY	3.172	3.052	2.411	1.382	1.198	0.660	0.608	0.499	–17.9
LV	4.325	4.056	4.482	9.310	3.193	3.692	3.875	3.975	2.6
LT	5.135	4.144	5.807	6.772	3.530	3.031	3.059	2.926	–4.3
LU	1.216	1.145	0.899	0.775	0.787	0.983	0.955	0.947	–0.8
HU	27.801	19.817	17.493	20.777	16.308	16.333	16.489	16.951	2.8
MT	0.238	0.969	1.253	0.848	0.577	1.367	1.497	1.346	–10.1
NL	44.892	42.641	42.271	27.007	10.778	18.523	18.706	19.270	3.0
AT	46.338	38.956	42.126	40.896	35.348	37.960	37.402	36.846	–1.5
PL	50.532	56.904	57.331	48.100	38.832	32.967	32.760	31.674	–3.3
PT	45.110	48.339	44.463	37.066	35.426	31.955	34.416	35.816	4.1
RO	9.708	9.119	7.889	19.819	25.995	28.944	31.106	30.202	–2.9
SI	5.177	6.567	8.951	10.509	7.659	6.578	6.185	6.013	–2.8
SK	8.236	8.713	7.884	7.903	8.119	5.502	5.317	5.335	0.3
FI	10.175	7.812	6.633	7.020	6.072	5.164	4.432	4.312	–2.7
SE	16.975	15.626	15.770	18.094	16.627	14.829	14.951	14.317	–4.2
UK	265.600	237.336	242.117	203.712	160.080	146.203	136.063	128.384	–5.6
ME					9.138	4.944	5.678	5.872	3.4
MK	2.300	2.436	1.667	2.821	4.223	3.854	4.019	3.740	–6.9
AL		0.399	0.428	0.853	1.564	1.992	1.978	1.718	–13.1
RS					14.179	13.638	14.691	14.142	–3.7
TR	55.771	66.029	75.201	87.273	116.804	183.011	182.669	186.532	2.1
IS	0.564	1.057	0.979	0.671	0.876	0.912	0.952	0.868	–8.8
NO	8.801	8.625	8.440	8.088	6.434	4.563	4.086	3.898	–4.6
CH	23.834	23.030	23.737	21.706	19.609	17.736	17.799	18.033	1.3

**NB:** The definition of an accident involving personal injury differs from country to country.  
**RO:** only serious accidents before 2005. As of 2018 PT includes data for Azores and Madeira.



## 2.7.5. Railway fatalities

### NUMBER OF RAILWAY PASSENGERS KILLED IN ACCIDENTS INVOLVING RAILWAYS

	1990	2000	2005	2010	2014	2015	2016	2017	2018
<b>EU-27</b>			<b>58</b>	<b>63</b>	<b>15</b>	<b>27</b>	<b>44</b>	<b>12</b>	<b>13</b>
<b>EU-28</b>			<b>58</b>	<b>63</b>	<b>15</b>	<b>27</b>	<b>44</b>	<b>15</b>	<b>16</b>
BE	0	3	0	18	0	0	2	1	0
BG			3	0	2	2	1	0	0
CZ		1	4	2	2	6	4	1	0
DK	1	3	0	0	0	0	0	0	0
DE	50	38	7	0	0	3	7	2	1
EE			0	0	1	0	0	0	0
IE	1	2	0	0	0	0	0	0	0
EL	0	20	0	1	0	0	0	1	0
ES	4	0	1	15	3	0	3	1	0
FR	30	15	5	2	0	4	2	1	0
HR			1	1	0	0	0	0	0
IT	9	8	22	7	1	2	19	2	4
CY	-	-	-	-	-	-	-	-	-
LV			0	0	0	0	0	0	0
LT			0	0	0	0	0	0	0
LU	0	0	0	0	0	0	0	0	0
HU	33	11	6	3	3	3	4	1	3
MT	-	-	-	-	-	-	-	-	-
NL	2	0	0	0	0	0	1	0	0
AT	6	4	1	0	0	1	0	0	1
PL	21	20	0	7	2	3	1	1	2
PT	22	2	7	1	0	0	0	0	0
RO		0	1	4	1	3	0	0	0
SI		0	0	0	0	0	0	0	1
SK		0	0	0	0	0	0	1	1
FI	0	2	0	0	0	0	0	0	0
SE	3	0	0	2	0	0	0	0	0
UK	37	20	8	0	0	0	0	3	3 <sup>(1)</sup>
ME					0	0	0	0	0
MK			0	0	0	0	0	0	0
AL									
RS									
TR	17	9	10	3	1	0	1	0	32
IS	-	-	-	-	-	-	-	-	-
NO	4	32	0	0	0	0	0	0	1
CH	8	2	3	0	1	0	0	0	0

<sup>(1)</sup> Includes the figure for the Channel Tunnel (2 in 2018).

## 2.7.6.

Air  
LIVES LOST

PERIOD	Lives lost over EU-27 territory by any operator	Lives lost by EU-27 operators anywhere
1990	0	46
1991	32	264
1992	154	147
1993	8	6
1994	3	7
1995	119	70
1996	12	11
1997	71	1
1998	24	62
1999	40	63
2000	112	110
2001	120	123
2002	96	25
2003	3	3
2004	0	0
2005	144	128
2006	3	4
2007	0	0
2008	154	154
2009	9	228
2010	0	0
2011	6	6
2012	1	1
2013	0	0
2014	0	120
2015	150	150
2016	2	2
2017	0	0
2018	0	0
2019	0	0
1970–1979/yr	312	328
1980–1989/yr	179	128
1990–1999/yr	46	68
2000–2009/yr	64	78
2010–2018/yr	18	31

**NB:** (\*) UK is included.

Onboard fatalities, and only those in aircraft with a take-off mass above 5 701 kg. Data include fatalities from commercial air transport (passenger, cargo, air taxi, ferry/positioning and emergency medical service) and fatalities from general aviation (only 'business' flights).

## 2.7.7.

## Sea

## SHIPS LOST (WORLD) BY TYPE

YEAR	TANKERS		BULKERS AND COM- BINED CARRIERS		OTHER SHIPS	
	No	1 000 gt	No	1 000 gt	No	1 000 gt
1996	13	58	14	247	59	294
1997	13	308	6	137	58	274
1998	5	26	11	160	62	323
1999	6	71	11	277	55	283
2000	10	173	21	394	68	248
2001	9	202	12	341	88	319
2002	10	119	10	234	77	454
2003	9	158	8	107	74	274
2004	18	104	6	103	62	277
2005	11	103	8	117	79	309
2006	11	35	9	397	70	294
2007	6	34	11	197	70	311
2008	9	105	7	105	55	259
2009	14	214	15	335	67	353
2010	12	35	16	431	82	375
2011	8	102	20	452	56	281
2012	12	93	4	83	43	314
2013	3	10	11	257	46	291
2014	6	17	2	43	46	267
2015	6	41	10	133	40	267
2016	1	2	4	124	35	123
2017	3	7	4	196	41	168
2018	3	90	5	92	30	97

**NB:** Reported world total losses at time of loss; ships of 500 gt and over.



PART 3

# ENERGY AND ENVIRONMENT



## PART 3

### SUMMARY

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### 3.1.1. Glossary

**Conventional thermal power:**

Technology for the production of electricity by combustion. May or may not include biomass use, which is also considered a renewable source of electricity.

**Energy dependency:**

Energy dependency shows the extent to which a country relies upon imports in order to meet its energy needs. It is calculated using the following formula:  $\text{net imports} / (\text{gross inland consumption} + \text{bunkers})$ .

**Energy intensity:**

Energy intensity gives an indication of the effectiveness with which energy is being used to produce added value. It is defined as the ratio of gross inland consumption of energy to gross domestic product.

**Final energy consumption (FEC):**

Final energy consumption is the energy finally consumed in the transport, industrial, commercial, agricultural, public and household sectors. It excludes deliveries to the energy transformation sector and to the energy industries themselves, along with energy consumption in international maritime and air transport.

**Gross calorific value (GCV):**

The gross calorific value is the total amount of heat released by a unit quantity of fuel when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature.

This quantity includes the heat of condensation of any water vapour contained in the fuel and of the water vapour formed by the combustion of any hydrogen contained in the fuel.

**Gross inland consumption (GIC):**

Gross inland consumption is the quantity of energy consumed within the borders of a country. It is calculated using the following formula:

$\text{primary production} + \text{recovered products} + \text{imports} + \text{stock changes} - \text{exports} - \text{bunkers}$

**Net calorific value (NCV):**

The net calorific value is the amount of heat released by a unit quantity of fuel when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature.

This quantity does not include the heat of condensation of any water vapour contained in the fuel or of the water vapour formed by the combustion of any hydrogen contained in the fuel.

**Primary energy production:**

Primary energy production is the extraction of energy from a natural source. The precise definition depends on the fuel involved, as described below.

**Solid fuels: hard coal, lignite:**

Quantities of fuels extracted or produced, calculated after any operation for removal of inert matter. In general, production includes the quantities consumed by the producer during the production process (e.g. for heating or operation of equipment and auxiliaries), along with any quantities supplied to other on-site producers of energy for transformation or other uses.

### 3.1.1. Glossary

**Crude oil:**

Quantities of fuels extracted or produced within national boundaries, including offshore production. Production includes only marketable production, and excludes any quantities returned to formation. Production includes all crude oil, natural gas liquids (NGL), condensates and oil from shale and tar sands, etc.

**Natural gas:**

Quantities of dry gas, measured after purification and extraction of natural gas liquids and sulfur. The production includes only marketable production, and excludes any quantities reinjected, vented and flared, and any extraction losses. The production includes all quantities used within the natural gas industry, in gas extraction, pipeline systems and processing plants.

**Nuclear heat:**

Quantities of heat produced in a reactor. Production is the actual heat produced or the heat calculated on the basis of the gross electricity generated and the thermal efficiency of the nuclear plant.

**Hydropower, wind energy, solar photovoltaic energy:**

Quantities of electricity generated. Production is calculated on the basis of the gross electricity generated and a conversion factor of 3 600 kJ/kWh.

**Geothermal energy:**

Quantities of heat extracted from geothermal fluids. Production is calculated on the basis of the difference between the enthalpy of the fluid produced in the production borehole and that of the fluid disposed of via the reinjection borehole.

**Biomass/wastes:**

In the case of municipal solid wastes (MSW), wood, wood wastes and other solid wastes, production is the heat produced after combustion and corresponds to the heat content (NCV) of the fuel. In the case of anaerobic digestion of wet wastes, production is the heat content (NCV) of the biogases produced. The production includes all quantities of gas consumed in the installation for the fermentation processes, and excludes all quantities of flared gases. In the case of biofuels, the production is the heat content (NCV) of the fuel.

**Pumped storage:**

Method for storing electrical energy at hydroelectric installations by pumping water between reservoirs at different altitudes.

**Renewable energy sources (RES):**

Renewable energy includes hydroelectricity, biomass, wind, solar, tidal and geothermal energy.

**Tonne of oil equivalent (toe):**

Tonne of oil equivalent is a conventional standardised unit for measuring energy, defined on the basis of a tonne of oil with a net calorific value of 41 868 kilojoules/kg.

1 ktoe = 1 000 toe

1 Mtoe = 1 000 000 toe



### 3.1.2. Average calorific values – energy content

		<b>kJ (NCV)</b>	<b>kgoe (NCV)</b>
Hard coal	1 kg	17 200 – 30 700	0.411 – 0.733
Recovered hard coal	1 kg	13 800 – 28 300	0.330 – 0.676
Patent fuels	1 kg	26 800 – 31 400	0.640 – 0.750
Hard coke	1 kg	28 500	0.681
Brown coal	1 kg	5 600 – 10 500	0.134 – 0.251
Black lignite	1 kg	10 500 – 21 000	0.251 – 0.502
Peat	1 kg	7 800 – 13 800	0.186 – 0.330
Brown coal briquettes	1 kg	20 000	0.478
Tar	1 kg	37 700	0.900
Benzol	1 kg	39 500	0.943
Oil equivalent	1 kg	41 868	1
Crude oil	1 kg	41 600 – 42 800	0.994 – 1.022
Feedstocks	1 kg	42 500	1.015
Refinery gas	1 kg	50 000	1.194
LPG	1 kg	46 000	1.099
Motor spirit	1 kg	44 000	1.051
Kerosenes, jet fuels	1 kg	43 000	1.027
Naphtha	1 kg	44 000	1.051
Gas diesel oil	1 kg	42 300	1.010
Residual fuel oil	1 kg	40 000	0.955
White spirit	1 kg	44 000	1.051
Lubricants	1 kg	42 300	1.010
Bitumen	1 kg	37 700	0.900
Petroleum cokes	1 kg	31 400	0.750
Other petro. products	1 kg	30 000	0.717
Electrical energy	1 kWh	3 600	0.086

### 3.1.3. Conversion factors

#### ENERGY

FROM:	TO:	TJ	Gcal	Mtoe	GWh
TJ		1	238.8	$2.388 \times 10^{-5}$	0.2778
Gcal		$4.1868 \times 10^{-3}$	1	$1 \times 10^{-7}$	$1.163 \times 10^{-3}$
Mtoe		$4.1868 \times 10^4$	$1 \times 10^7$	1	11630
GWh		3.6	860	$8.6 \times 10^{-5}$	1

#### VOLUME

FROM:	TO:	Barrel	Litre	US gallon	UK gallon
Barrel		1	158.99	42	34.9723
Litre		$0.6290 \times 10^{-2}$	1	0.2642	0.2200
US gallon		$0.2381 \times 10^{-1}$	3.7854	1	0.8327
UK gallon		$0.2859 \times 10^{-1}$	4.5461	1.2009	1

#### MASS

FROM:	TO:	Tonne	Long ton	Short ton
Tonne (t)		1	0.9842	1.1023
Long ton (lt) UK		1.0160	1	1.1200
Short ton (st) US		0.9072	0.8929	1

#### DECIMAL PREFIXES

$10^1$	deca (da)	$10^{-1}$	deci (d)
$10^2$	hecto (h)	$10^{-2}$	centi (c)
$10^3$	kilo (k)	$10^{-3}$	milli (m)
$10^6$	mega (M)	$10^{-6}$	micro ( $\mu$ )
$10^9$	giga (G)	$10^{-9}$	nano (n)
$10^{12}$	tera (T)	$10^{-12}$	pico (p)
$10^{15}$	peta (P)	$10^{-15}$	femto (f)
$10^{18}$	exa (E)	$10^{-18}$	atto (a)

### 3.1.4. Energy statistics for the EU-27

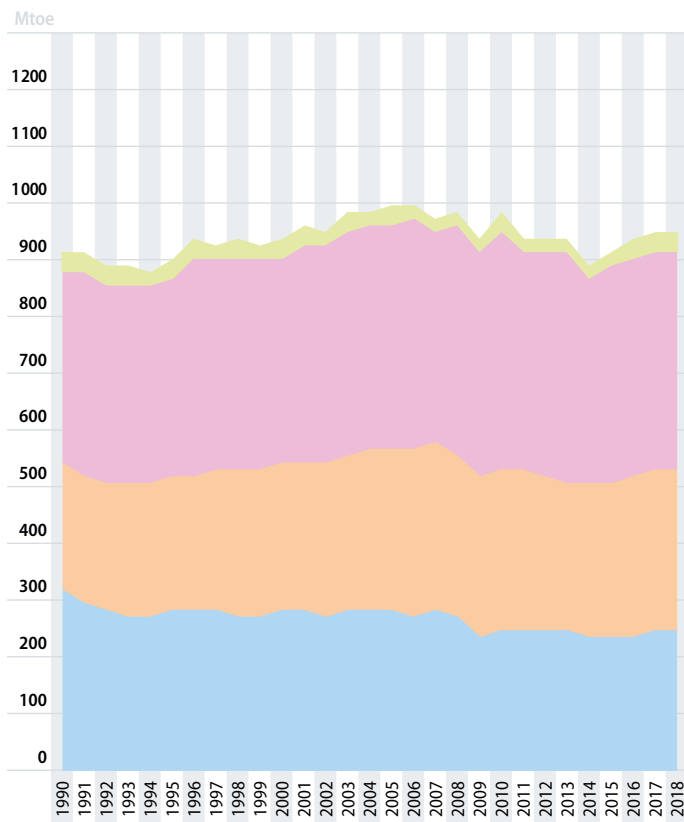
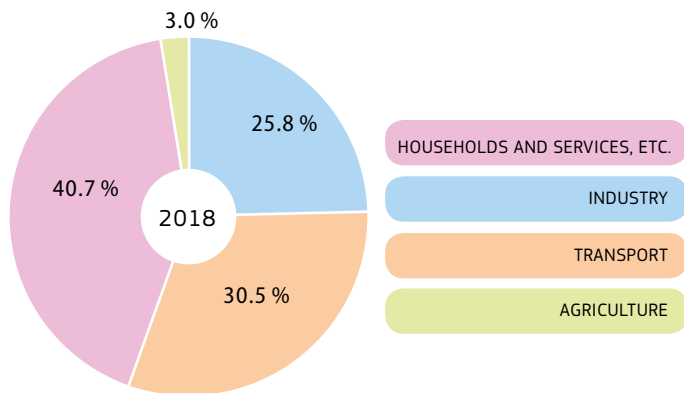
	Mtoe 1990	1995	2000	2005	2010	2015	2017	2018
<b>Production (*)</b>	<b>742.5</b>	<b>707.8</b>	<b>677.6</b>	<b>704.4</b>	<b>697.2</b>	<b>659.5</b>	<b>642.1</b>	<b>635.5</b>
Solid fuels	315.3	247.7	195.9	184.2	154.3	140.3	128.9	124.4
Oil and petroleum products	41.0	40.2	45.6	46.7	33.9	29.4	26.2	25.6
Gas	123.1	127.3	112.2	111.1	109.5	72.4	67.1	59.2
Nuclear	188.6	204.5	222.1	236.8	220.6	204.6	195.6	195.7
Renewables	70.8	82.5	96.0	118.4	168.4	200.7	211.3	217.3
Waste, non-renewable	3.7	5.5	5.9	7.2	10.5	12.2	13.1	13.3
<b>Net imports</b>	<b>744.8</b>	<b>773.9</b>	<b>865.7</b>	<b>954.5</b>	<b>895.3</b>	<b>833.1</b>	<b>881.7</b>	<b>885.7</b>
Solid fuels	71.5	67.8	83.3	97.9	93.7	95.7	94.7	91.7
Oil and petroleum products	540.7	560.5	578.5	606.1	550.2	513.7	517.7	517.6
Gas	129.5	144.9	202.8	248.1	245.8	220.5	265.2	270.2
Electricity	2.9	0.4	0.8	0.6	0.4	-0.6	-0.4	0.8
Renewables	0.2	0.3	0.3	1.7	5.1	3.4	4.0	5.0
Other (**)	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.4
<b>Gross inland consumption</b>	<b>1 455.6</b>	<b>1 451.5</b>	<b>1 498.2</b>	<b>1 603.5</b>	<b>1 559.6</b>	<b>1 449.0</b>	<b>1 491.7</b>	<b>1 479.3</b>
Solid fuels	391.5	317.4	284.4	280.2	252.3	239.9	225.3	217.3
Oil and petroleum products	547.9	570.3	579.8	598.6	538.8	491.7	510.2	504.1
Gas	249.8	270.6	308.6	359.7	362.8	296.0	330.7	324.6
Nuclear	188.6	204.5	222.1	236.8	220.6	204.6	195.6	195.7
Renewables	71.1	82.8	96.4	120.1	173.6	204.1	215.7	222.1
Other (***)	6.7	5.9	6.9	8.3	11.6	12.8	14.2	15.5
<b>Gross electricity generation (TWh)</b>	<b>2 275.0</b>	<b>2 408.7</b>	<b>2 656.9</b>	<b>2 917.7</b>	<b>2 980.3</b>	<b>2 902.3</b>	<b>2 955.9</b>	<b>2 941.5</b>
<b>Bunker fuels</b>								
International maritime bunkers	33.2	32.8	40.4	47.2	46.7	39.5	41.9	43.3
International aviation	18.2	22.6	28.6	31.1	32.1	34.5	38.9	40.9
<b>Final energy consumption by fuel/product</b>	<b>906.6</b>	<b>892.5</b>	<b>926.6</b>	<b>986.6</b>	<b>973.0</b>	<b>909.1</b>	<b>940.4</b>	<b>939.7</b>
Solid fuels	104.7	64.4	42.5	36.0	33.4	29.2	29.3	28.4
Oil and petroleum products	374.2	381.1	397.4	405.2	366.2	338.9	346.0	345.1
Gas	170.8	187.0	205.1	222.8	217.7	191.6	200.7	200.8
Electricity	162.3	168.8	189.0	209.3	215.7	210.9	215.7	216.0
Renewables	38.6	43.5	48.7	60.7	85.8	89.8	97.7	98.9
Other (**)	56.0	47.8	43.9	52.6	54.2	48.7	51.0	50.6
<b>by sector</b>								
Industry	310.4	271.8	271.7	275.2	244.1	233.1	239.2	242.2
Transport (****)	220.7	235.9	262.9	281.6	280.1	272.7	285.0	286.8
Rail	7.5	7.5	7.4	6.8	6.3	5.5	5.5	5.5
Road	201.6	218.0	243.2	260.2	260.7	255.4	266.2	267.7
Domestic aviation	5.0	4.3	5.7	5.9	5.6	5.5	6.1	6.4
Domestic navigation	5.2	5.1	5.2	5.6	5.0	3.9	4.3	4.2
Consumption in pipeline transport etc.	1.5	1.1	1.4	3.2	2.4	2.5	2.8	3.0
Households	236.7	246.0	248.2	266.6	278.5	243.9	250.7	245.2
Agriculture and fishing	33.3	31.3	28.4	28.5	26.9	25.7	26.5	28.6
Services, etc.	105.3	107.5	115.3	134.7	143.5	133.7	139.0	137.0
<b>CO<sub>2</sub> emissions (Mt) (*****)</b>	<b>3 925.3</b>	<b>3 717.1</b>	<b>3 700.2</b>	<b>3 843.9</b>	<b>3 543.1</b>	<b>3 207.4</b>	<b>3 251.4</b>	<b>3 184.0</b>
<b>Primary energy intensity 2020–2030 [toe/M€'15]</b>	<b>164.9</b>	<b>154.2</b>	<b>137.8</b>	<b>135.5</b>	<b>125.6</b>	<b>110.8</b>	<b>108.2</b>	<b>105.2</b>
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	<b>2.70</b>	<b>2.56</b>	<b>2.47</b>	<b>2.40</b>	<b>2.27</b>	<b>2.21</b>	<b>2.18</b>	<b>2.15</b>
<b>Import dependency %</b>	<b>50.1</b>	<b>52.2</b>	<b>56.3</b>	<b>57.8</b>	<b>55.7</b>	<b>56.0</b>	<b>57.5</b>	<b>58.2</b>
<b>RES share in transport, % (*****)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.0</b>	<b>5.5</b>	<b>6.8</b>	<b>7.5</b>	<b>8.3</b>

**NB:** (\*) Including recovered products. (\*\*) Derived heat and industrial waste. (\*\*\*) Electrical energy and industrial waste. (\*\*\*\*) Excluding international aviation, in line with changes in the energy balance methodology. (\*\*\*\*\* Source: European Environment Agency, June 2020, including international aviation and indirect CO<sub>2</sub> but excluding international maritime and LULUCF (land use, land-use change and forestry). (\*\*\*\*\* Renewable share in transport, according to the definition in Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources. From 2011, only formally reported compliant biofuels in line with Directive 2009/28/EC are considered for the RES share in transport calculations, whereas before 2011 all biofuels are accounted.

### 3.1.5. Final energy consumption 2018 BY SECTOR (MTOE)

	ALL SECTORS	INDUSTRY	TRANSPORT	Road	Railways	Domestic aviation	Domestic navigation	Consumption in pipeline transport, etc.	HOUSEHOLDS, SERVICES, ETC.	Households	Agriculture	Services, etc.
EU-27	939.7	242.2	286.8	267.7	5.5	6.4	4.2	3.0	410.7	245.2	28.6	137.0
Share	100 %	26 %	31 %	93 %	2 %	2 %	1 %	1 %	44 %	60 %	7 %	33 %
EU-28	1 061.6	263.6	328.6	306.7	6.5	7.3	5.2	3.0	469.4	283.2	30.1	156.2
Share	100 %	25 %	31 %	93 %	2 %	2 %	2 %	1 %	44 %	60 %	6 %	33 %
BE	33.1	10.7	8.9	8.6	0.2	0.0	0.1	0.0	13.5	8.1	0.8	4.6
BG	9.7	2.7	3.4	3.2	0.0	0.0	0.0	0.1	3.6	2.2	0.2	1.2
CZ	24.2	6.7	6.7	6.4	0.2	0.0	0.0	0.0	10.8	7.0	0.6	3.2
DK	14.1	2.3	4.4	4.1	0.1	0.0	0.2	0.0	7.3	4.6	0.7	2.0
DE	200.9	57.4	55.7	52.9	1.3	0.7	0.3	0.7	87.8	55.3	3.3	29.2
EE	2.9	0.5	0.8	0.8	0.0	0.0	0.0	0.0	1.6	0.9	0.1	0.5
IE	11.2	2.6	4.1	4.0	0.0	0.0	0.1	0.0	4.5	2.8	0.3	1.5
EL	15.2	2.7	5.9	5.0	0.1	0.2	0.6	0.0	6.5	3.9	0.3	2.3
ES	82.0	20.2	32.5	28.7	0.4	2.2	1.0	0.2	29.3	15.0	2.8	11.5
FR	139.8	27.3	45.3	42.0	0.9	1.7	0.5	0.1	67.3	39.1	4.4	23.8
HR	6.7	1.2	2.1	2.0	0.0	0.0	0.0	0.0	3.3	2.3	0.2	0.8
IT	114.4	24.3	35.6	32.8	0.5	0.9	0.6	0.7	54.5	32.1	3.0	19.5
CY	1.6	0.2	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.3	0.0	0.3
LV	4.0	0.9	1.1	1.0	0.1	0.0	0.0	0.0	2.0	1.2	0.2	0.6
LT	5.4	1.1	2.1	2.0	0.1	0.0	0.0	0.0	2.3	1.5	0.1	0.7
LU	3.7	0.6	2.1	2.1	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.5
HU	17.9	4.5	4.8	4.6	0.1	0.0	0.0	0.1	8.6	5.8	0.6	2.1
MT	0.5	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1
NL	44.9	13.7	10.8	10.4	0.2	0.0	0.3	0.0	20.4	9.6	3.8	7.0
AT	26.0	7.7	8.8	8.2	0.2	0.0	0.0	0.4	9.5	6.5	0.5	2.5
PL	70.0	16.4	22.4	21.6	0.4	0.0	0.0	0.4	31.2	19.3	3.9	8.0
PT	16.2	4.6	5.9	5.5	0.1	0.2	0.1	0.0	5.8	2.9	0.5	2.4
RO	23.4	6.6	6.3	6.0	0.2	0.1	0.0	0.0	10.5	7.8	0.6	2.2
SI	4.9	1.4	2.0	1.9	0.0	0.0	0.0	0.0	1.6	1.1	0.1	0.4
SK	9.9	3.7	2.7	2.5	0.0	0.0	0.0	0.2	3.5	2.1	0.1	1.3
FI	25.1	11.1	4.2	3.9	0.1	0.1	0.1	0.0	9.7	5.7	0.7	3.3
SE	31.8	11.0	7.1	6.6	0.2	0.2	0.2	0.0	13.6	7.5	0.6	5.5
UK	121.9	21.4	41.8	39.0	1.0	0.9	0.9	0.0	58.7	38.0	1.5	19.2
MK	1.8	0.4	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.2
TR	98.6	32.3	28.6	26.3	0.2	1.3	0.4	0.4	37.7	20.6	4.6	12.6
IS	3.2	1.5	0.4	0.3	0.0	0.0	0.0	0.0	1.3	0.5	0.3	0.5
NO	19.1	6.1	4.6	3.4	0.1	0.4	0.7	0.1	8.3	4.6	0.4	3.2
CH												

### 3.1.5. Final energy consumption EU-27 BY SECTOR (MTOE)



**NB:** Transport excluding international aviation and maritime.

### 3.1.6. Final consumption of motor gasoline, diesel, biofuels and biogas for transport 2018

#### BY FUEL (KTOE)

	TOTAL FINAL CONSUMPTION OF MOTOR GASOLINE AND DIESEL OIL FOR TRANSPORT (*)	Motor gasoline	Gas/diesel oil	BIOFUELS AND BIOGAS	Biogasoline	Biodiesel	Biogas	Other liquid biofuels (**)
EU-27	248 867.1	65 256.9	183 610.2	15 515.6	2 599.3	12 762.4	153.3	0.7
EU-28	287 987.5	77 626.9	210 360.6	16 802.5	2 986.4	13 662.1	153.3	0.7
BE	8 165.1	1 603.6	6 561.5	478.7	113.4	365.3		
BG	2 490.4	477.5	2 012.9	163.6	28.6	135.0		
CZ	5 994.6	1 601.4	4 393.2	308.7	61.3	247.4		
DK	4 122.2	1 387.2	2 735.0	213.9	42.9	171.0		
DE	50 162.4	16 538.5	33 623.8	2 701.2	748.0	1 919.1	33.4	0.7
EE	793.7	272.2	521.5	17.1	4.9	12.3		
IE	3 916.0	821.5	3 094.5	154.3	27.3	127.0		
EL	4 906.5	2 402.9	2 503.6	158.8		158.8		
ES	27 487.7	5 075.6	22 412.0	1 681.3	153.8	1 527.5		
FR	39 081.7	7 672.5	31 409.2	3 393.2	586.0	2 807.2		
HR	1 995.4	519.6	1 475.8	27.0	0.4	26.6		
IT	29 247.4	7 640.0	21 607.5	1 249.7	32.6	1 217.1	0.0	
CY	667.1	361.4	305.7	9.0		9.0		
LV	1 006.3	184.0	822.3	37.8	8.5	29.4		
LT	1 860.0	232.3	1 627.7	77.8	8.0	69.8		
LU	1 966.3	328.3	1 638.0	122.8	10.0	112.8		0.0
HU	4 411.7	1 417.7	2 994.0	193.5	50.2	143.3		
MT	219.9	79.9	140.1	9.6		9.6		
NL	9 925.7	4 004.4	5 921.3	501.7	169.7	332.0		
AT	7 703.7	1 543.1	6 160.6	472.2	57.6	414.2	0.4	
PL	18 643.4	4 385.9	14 257.5	912.4	172.8	739.6		
PT	5 257.7	1 068.0	4 189.7	262.4	5.6	256.8		
RO	5 766.3	1 320.3	4 446.0	297.1	90.4	206.6		
SI	1 853.4	425.5	1 428.0	72.7	6.7	66.0		
SK	2 375.3	570.8	1 804.5	149.9	17.6	132.4		
FI	3 709.2	1 283.3	2 425.9	366.8	84.4	281.5	1.0	
SE	5 137.8	2 039.4	3 098.4	1 482.3	118.7	1 245.2	118.5	
UK	39 120.4	12 370.0	26 750.4	1 286.8	387.2	899.7		
MK	641.5	104.2	537.2	0.1		0.1		
TR	22 792.3	2 326.5	20 465.8	183.1	80.2	102.8		
IS	326.9	134.5	192.4	21.7	3.9	15.9	1.8	
NO	3 651.3	788.5	2 862.8	384.3	35.8	329.6	18.8	
CH								

NB: (\*) Without bio components.

(\*\*) Liquid biofuels, used directly as fuel, not included in biogasoline or biodiesel.

## 3.1.7.

## Biofuels production 2018

BY FUEL (KTOE)

	TOTAL	Biogasoline	Biodiesel	Other liquid biofuels (*)
EU-27	15 339.5	2 365.1	12 421.9	552.5
EU-28	16 024.7	2 627.6	12 844.6	552.5
BE	428.5	197.3	227.1	4.1
BG	125.3	11.2	114.2	
CZ	220.1	48.4	171.7	
DK	5.6			5.6
DE	3 425.6	400.0	2 960.1	65.5
EE				
IE	27.1		27.1	
EL	150.8		150.8	
ES	1 827.8	266.5	1 561.3	
FR	3 114.6	672.4	2 434.8	7.5
HR	0.4		0.4	
IT	951.6	14.0	664.2	273.4
CY				
LV	88.2	5.0	83.1	
LT	147.3	11.0	136.3	
LU				
HU	446.6	302.4	144.2	
MT				
NL	1 677.7		1 625.2	52.5
AT	333.9	127.1	206.2	0.5
PL	905.7	120.2	783.6	2.0
PT	321.2		321.2	
RO	188.0	22.5	165.4	
SI				
SK	166.4	61.7	104.7	
FI	340.7		281.2	59.5
SE	446.5	105.3	259.1	82.0
UK	685.2	262.5	422.6	
MK				
TR	152.7	48.5	103.2	0.9
IS				
NO	89.2		89.2	
CH				

NB: (\*) Including liquid biofuels used directly as fuel, not included in biogasoline or biodiesel, and pure bio jet kerosene.

### 3.2.1. Total greenhouse gas emissions (GHG) (\*) (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

	1990	1995	2000	2005	2010	2015	2017	2018
<b>EU-27</b>	<b>4 911.6</b>	<b>4 626.5</b>	<b>4 543.4</b>	<b>4 647.1</b>	<b>4 288.3</b>	<b>3 936.7</b>	<b>3 976.7</b>	<b>3 893.1</b>
<b>EU-28</b>	<b>5 721.4</b>	<b>5 394.6</b>	<b>5 286.0</b>	<b>5 373.7</b>	<b>4 930.6</b>	<b>4 478.5</b>	<b>4 484.4</b>	<b>4 391.8</b>
<b>BE</b>	149.6	157.4	154.4	149.9	138.5	123.8	122.8	123.6
<b>BG</b>	102.5	75.5	59.8	64.7	61.2	62.5	62.4	58.6
<b>CZ</b>	199.6	158.5	151.2	150.0	141.8	130.0	130.9	129.4
<b>DK</b>	72.6	80.5	73.6	69.3	66.0	51.3	51.3	51.3
<b>DE</b>	1 261.6	1 136.4	1 063.0	1 016.4	966.9	931.0	923.8	888.7
<b>EE</b>	40.4	20.2	17.3	19.2	21.1	18.3	21.1	20.2
<b>IE</b>	56.6	60.3	70.1	72.2	63.6	62.0	64.1	64.2
<b>EL</b>	105.8	112.0	129.0	139.1	121.1	98.4	99.0	96.1
<b>ES</b>	294.2	335.6	398.4	455.0	371.3	352.5	357.4	352.2
<b>FR</b>	556.9	553.7	567.2	570.7	527.9	475.0	480.9	462.8
<b>HR</b>	32.4	23.0	25.9	30.2	28.3	24.5	25.5	24.4
<b>IT</b>	520.4	535.3	560.5	595.1	522.6	449.1	442.6	439.3
<b>CY</b>	6.4	7.9	9.3	10.2	10.4	9.1	10.0	9.9
<b>LV</b>	26.6	13.1	10.6	11.6	12.6	11.5	11.7	12.2
<b>LT</b>	48.4	22.5	19.6	22.9	21.0	20.6	20.9	20.6
<b>LU</b>	13.1	10.7	10.6	14.3	13.4	11.6	11.9	12.4
<b>HU</b>	94.5	75.9	74.0	76.2	65.6	61.4	64.5	64.1
<b>MT</b>	2.8	3.0	3.1	3.2	3.3	2.6	2.6	2.7
<b>NL</b>	226.3	239.3	229.7	225.7	224.0	207.4	205.4	200.5
<b>AT</b>	79.4	80.7	82.0	94.4	86.7	80.7	84.3	81.5
<b>PL</b>	475.7	447.5	396.7	405.4	414.4	393.6	417.2	415.9
<b>PT</b>	60.2	70.4	83.7	88.0	71.6	71.0	74.5	71.6
<b>RO</b>	248.8	187.9	143.6	151.8	124.7	117.1	117.9	116.5
<b>SI</b>	18.7	18.7	19.1	20.5	19.6	16.8	17.4	17.6
<b>SK</b>	73.6	53.4	49.3	51.4	46.5	42.0	43.6	43.5
<b>FI</b>	72.2	72.7	71.3	71.2	77.4	57.1	57.5	58.8
<b>SE</b>	72.5	74.6	70.1	68.6	66.6	55.9	55.5	54.6
<b>UK</b>	809.7	768.1	742.5	726.6	642.4	541.7	507.7	498.7
<b>MK</b>								
<b>TR</b>	219.9	248.6	300.4	340.5	404.8	483.8	534.9	533.0
<b>IS</b>	4.0	3.8	4.6	4.5	5.3	5.5	6.0	6.2
<b>NO</b>	52.1	52.2	56.0	56.3	56.8	56.0	54.1	53.8
<b>CH</b>	57.3	56.8	58.0	59.1	59.1	53.5	53.3	52.1

**NB:** Emissions data are downloaded from the European Environment Agency (EEA), which is the main provider for EU-wide GHG emissions data. The EEA prepares and maintains the complete EU GHG emissions inventory, which is based on data reported by Member States through the EU GHG monitoring mechanism and the UNFCCC process.

GHGs: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), sulfur hexafluoride (SF<sub>6</sub>), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs).

(\*) Excluding international maritime and LULUCF (land use, land-use change and forestry) emissions, including international aviation and indirect CO<sub>2</sub>.



## 3.2.2.

## GHG emissions from transport

(MILLION TONNES CO<sub>2</sub> EQUIVALENT)

## INCLUDING INTERNATIONAL BUNKERS (\*)

	1990	1995	2000	2005	2010	2015	2017	2018
<b>EU-27</b>	828.3	892.6	1 012.0	1 096.9	1 068.1	1 028.6	1 084.6	1 095.7
<b>EU-28</b>	974.2	1 045.7	1 179.7	1 273.3	1 232.5	1 194.0	1 255.7	1 265.3
BE	37.5	39.0	46.1	55.8	56.0	50.4	55.5	61.9
BG	7.5	6.2	6.0	8.8	8.8	10.0	10.5	10.7
CZ	12.0	11.0	12.7	18.3	17.8	18.4	19.8	20.3
DK	15.6	19.0	18.9	18.6	17.9	17.7	17.6	18.3
DE	183.6	198.7	208.3	191.9	187.2	195.0	205.2	198.3
EE	3.1	1.9	2.1	2.7	3.0	3.4	3.6	3.6
IE	6.3	7.8	13.1	16.0	14.3	14.9	15.6	16.0
EL	25.4	31.1	33.3	34.0	34.1	25.9	27.8	28.7
ES	75.2	87.0	115.8	139.9	131.3	121.9	127.8	129.8
FR	139.4	150.7	165.0	166.9	159.1	156.7	157.7	156.5
HR	4.5	3.7	4.7	5.9	6.3	6.3	7.1	7.1
IT	111.0	124.2	136.0	144.0	131.4	121.5	119.4	121.9
CY	2.2	2.6	3.3	3.9	3.8	3.4	3.9	4.0
LV	4.8	2.7	2.3	4.2	4.5	4.3	4.6	4.0
LT	6.5	3.8	3.6	4.8	5.0	5.6	6.6	7.1
LU	3.0	3.9	5.8	8.5	7.8	7.1	7.3	7.8
HU	9.4	8.0	9.8	12.9	12.4	12.8	13.8	14.8
MT	1.4	2.3	3.1	2.9	5.4	6.1	8.0	8.3
NL	68.0	73.2	85.7	97.3	90.1	80.5	81.0	79.9
AT	14.9	17.3	20.6	27.0	24.7	24.9	26.6	27.0
PL	22.7	25.3	30.9	38.3	51.6	50.6	66.6	69.2
PT	13.8	17.0	23.4	23.8	23.3	21.6	23.6	24.1
RO	13.2	9.2	10.3	13.0	14.8	16.6	19.1	18.9
SI	2.8	3.8	3.9	4.5	5.4	5.7	6.1	6.6
SK	7.0	5.6	5.8	7.8	7.6	7.4	7.8	7.9
FI	15.0	13.3	15.3	15.9	15.0	13.8	14.7	15.1
SE	22.5	24.4	26.4	29.6	29.5	26.0	27.1	27.8
UK	145.9	153.1	167.7	176.4	164.4	165.4	171.0	169.6
MK								
TR	27.9	35.5	39.4	48.8	53.7	89.7	98.7	99.7
IS	0.9	0.9	1.1	1.3	1.3	1.7	2.4	2.6
NO	13.0	13.8	15.9	16.8	17.3	16.8	15.0	15.5
CH	17.8	18.0	20.7	19.4	20.7	20.3	20.3	20.6

**NB:** (\*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries. For EU-27, changes in international maritime emissions between 2010 and 2011 show inconsistencies with changes in energy statistics on bunker fuels.

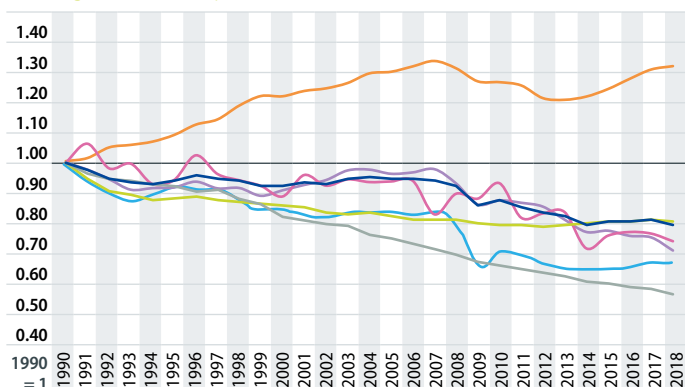
## 3.2.3.

## GHG emissions (\*) EU-27

### BY SECTOR (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	3 788.1	3 636.2	1 439.0	1 233.8	103.4	101.8	736.5	161.4	12.1	102.8	29.4	44.3	386.5
1995	3 582.0	3 453.0	1 319.9	1 125.3	109.6	85.0	654.7	142.9	11.4	97.6	33.5	53.4	316.1
2000	3 540.7	3 433.0	1 306.1	1 125.7	116.3	64.1	596.7	127.6	12.7	85.9	31.8	48.3	290.5
2005	3 666.7	3 570.3	1 386.0	1 197.2	124.3	64.5	562.8	114.6	11.4	82.9	30.6	44.7	278.7
2010	3 403.5	3 320.8	1 257.6	1 084.3	116.4	56.9	477.9	99.0	10.2	73.0	26.6	35.3	233.8
2011	3 297.0	3 214.5	1 245.9	1 075.6	114.3	56.0	464.6	98.1	9.7	70.1	25.7	33.4	227.6
2012	3 234.7	3 152.9	1 227.4	1 070.0	111.3	46.0	446.5	93.9	9.0	67.4	25.0	33.0	218.3
2013	3 155.8	3 074.9	1 164.6	1 015.4	106.0	43.2	432.1	88.9	8.6	66.3	24.5	33.5	210.2
2014	3 012.4	2 934.0	1 104.9	958.6	103.9	42.4	419.9	87.5	8.0	61.8	23.0	33.2	206.4
2015	3 072.3	2 994.5	1 111.0	967.1	103.5	40.4	430.5	92.0	7.9	62.2	22.0	33.3	211.8
2016	3 080.1	3 004.6	1 086.1	941.6	103.8	40.7	432.4	87.7	8.0	62.1	23.2	34.4	217.1
2017	3 106.8	3 031.0	1 078.4	936.4	101.7	40.3	445.8	90.2	8.4	66.6	23.4	36.0	221.1
2018	3 036.3	2 963.7	1 015.2	876.9	98.2	40.0	449.6	89.9	8.4	67.7	23.4	35.5	224.7

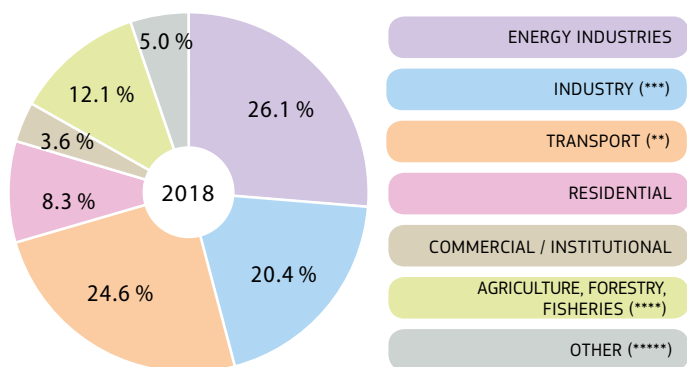
Energy industries · Industry (\*\*\*) · Transport (\*\*) · Residential and commercial  
· Agriculture, forestry, fisheries (\*\*\*\*) · Other (\*\*\*\*\*) · Total



- NB:**
- (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.
  - (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.
  - (\*\*\*) Emissions from manufacturing and construction, industrial processes and product use.
  - (\*\*\*\*) Emissions from fuel combustion and other emissions from agriculture.
  - (\*\*\*\*\*) Emissions from fuel combustion in other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO<sub>2</sub> and other.

### 3.2.3. GHG emissions (\*) EU-27 BY SECTOR (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE				Indirect CO <sub>2</sub>	TOTAL EMISSIONS
	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries				Agriculture	Waste	Other			
726.4	715.9	175.0	449.2	91.7	18.4	151.9	448.4	496.8	174.0	4.2	4911.6	1990
790.0	678.3	148.6	439.5	90.2	10.1	128.9	436.3	426.4	178.3	3.5	4626.5	1995
884.0	639.3	147.8	405.9	85.6	6.9	107.7	413.0	417.8	169.0	2.9	4543.4	2000
943.5	669.6	160.0	424.9	84.6	8.4	96.4	426.8	397.4	153.8	2.5	4647.1	2005
918.2	661.3	165.9	415.4	80.0	5.7	82.7	358.8	385.0	138.8	2.2	4288.3	2010
910.4	588.0	147.4	362.1	78.4	5.7	82.5	357.9	385.4	135.2	2.1	4177.6	2011
879.5	594.6	149.5	368.8	76.3	5.0	81.8	344.8	383.9	132.5	2.0	4097.9	2012
875.4	597.8	152.2	369.3	76.4	5.0	80.9	340.6	387.5	129.1	1.9	4014.8	2013
883.2	521.1	134.1	311.7	75.2	4.9	78.4	347.2	393.6	125.4	1.8	3880.5	2014
901.4	546.6	142.5	329.6	74.5	5.1	77.9	343.2	395.9	123.4	1.8	3936.7	2015
926.2	554.8	141.2	338.5	75.1	5.1	75.6	342.8	396.3	120.8	1.7	3941.9	2016
949.0	552.6	142.3	334.1	76.2	5.2	75.8	349.4	399.5	119.3	1.7	3976.7	2017
957.3	537.1	138.8	321.7	76.5	4.6	72.6	343.5	394.4	117.2	1.6	3893.1	2018



- NB:**
- (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.
  - (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.
  - (\*\*\*) Emissions from manufacturing and construction, industrial processes and product use.
  - (\*\*\*\*) Emissions from fuel combustion and other emissions from agriculture.
  - (\*\*\*\*\*) Emissions from fuel combustion in other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO<sub>2</sub> and other.

### 3.2.3. GHG emissions (\*) EU-27 BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-Ferrous Metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
1990	77.1	74.0	29.3	25.1	2.1	2.1	15.0	3.3	0.2	2.1	0.6	0.9	7.9
1991	77.9	75.0	29.3	25.3	2.0	2.0	14.5	3.2	0.3	2.0	0.7	1.0	7.3
1992	77.9	75.0	29.2	25.3	2.1	1.8	14.2	3.1	0.2	1.9	0.6	1.0	7.4
1993	77.9	75.0	28.6	24.6	2.2	1.8	13.9	2.9	0.2	1.8	0.6	1.1	7.3
1994	77.5	74.6	28.8	24.7	2.3	1.9	13.9	3.0	0.2	1.9	0.7	1.1	6.9
1995	77.4	74.6	28.5	24.3	2.4	1.8	14.2	3.1	0.2	2.1	0.7	1.2	6.8
1996	77.9	75.2	28.6	24.5	2.4	1.7	13.7	2.8	0.2	2.0	0.7	1.2	6.8
1997	77.6	74.8	28.3	24.1	2.5	1.7	13.7	2.9	0.3	2.0	0.7	1.1	6.7
1998	78.0	75.3	28.5	24.4	2.5	1.6	13.3	2.8	0.3	1.9	0.7	1.1	6.6
1999	78.2	75.5	28.1	24.2	2.5	1.5	13.2	2.7	0.3	1.9	0.7	1.1	6.5
2000	77.9	75.6	28.7	24.8	2.6	1.4	13.1	2.8	0.3	1.9	0.7	1.1	6.4
2001	78.6	76.3	29.0	25.1	2.6	1.3	12.7	2.6	0.3	1.8	0.7	1.1	6.2
2002	78.7	76.5	29.6	25.7	2.6	1.4	12.5	2.5	0.3	1.8	0.7	1.1	6.2
2003	79.0	76.8	30.1	26.2	2.5	1.3	12.4	2.4	0.3	1.8	0.7	1.0	6.2
2004	78.8	76.7	30.1	26.1	2.6	1.4	12.0	2.5	0.3	1.6	0.6	1.0	6.0
2005	78.9	76.8	29.8	25.8	2.7	1.4	12.1	2.5	0.2	1.8	0.7	1.0	6.0
2006	79.0	77.0	30.0	25.9	2.7	1.4	11.9	2.5	0.2	1.8	0.6	0.9	5.9
2007	78.7	76.8	30.5	26.4	2.7	1.4	12.2	2.6	0.2	1.8	0.6	0.9	6.1
2008	78.9	76.9	29.6	25.6	2.7	1.3	11.9	2.5	0.2	1.8	0.6	0.8	6.0
2009	79.1	77.1	29.5	25.6	2.8	1.2	10.6	1.9	0.2	1.7	0.6	0.8	5.4
2010	79.4	77.4	29.3	25.3	2.7	1.3	11.1	2.3	0.2	1.7	0.6	0.8	5.5
2011	78.9	76.9	29.8	25.7	2.7	1.3	11.1	2.3	0.2	1.7	0.6	0.8	5.4
2012	78.9	76.9	30.0	26.1	2.7	1.1	10.9	2.3	0.2	1.6	0.6	0.8	5.3
2013	78.6	76.6	29.0	25.3	2.6	1.1	10.8	2.2	0.2	1.7	0.6	0.8	5.2
2014	77.6	75.6	28.5	24.7	2.7	1.1	10.8	2.3	0.2	1.6	0.6	0.9	5.3
2015	78.0	76.1	28.2	24.6	2.6	1.0	10.9	2.3	0.2	1.6	0.6	0.8	5.4
2016	78.1	76.2	27.6	23.9	2.6	1.0	11.0	2.2	0.2	1.6	0.6	0.9	5.5
2017	78.1	76.2	27.1	23.5	2.6	1.0	11.2	2.3	0.2	1.7	0.6	0.9	5.6
2018	78.0	76.1	26.1	22.5	2.5	1.0	11.5	2.3	0.2	1.7	0.6	0.9	5.8

**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.  
 (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

## 3.2.3.

## GHG emissions (\*) EU-27

### BY SECTOR (SHARES %)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
14.8	14.6	3.6	9.1	1.9	0.4	3.1	9.1	10.1	3.5		0.1	100	1990
15.3	15.7	3.7	10.1	1.9	0.3	2.9	8.6	9.7	3.7		0.1	100	1991
16.3	15.0	3.4	9.7	1.9	0.3	2.9	8.6	9.5	3.8		0.1	100	1992
16.7	15.6	3.5	10.1	2.0	0.2	2.9	8.7	9.4	3.9		0.1	100	1993
16.9	14.7	3.2	9.5	2.0	0.2	2.8	9.2	9.3	3.9		0.1	100	1994
17.1	14.7	3.2	9.5	1.9	0.2	2.8	9.4	9.2	3.9		0.1	100	1995
17.3	15.5	3.5	10.1	2.0	0.2	2.7	9.2	9.1	3.8		0.1	100	1996
17.8	14.8	3.3	9.6	1.9	0.2	2.8	9.4	9.1	3.8		0.1	100	1997
18.6	14.6	3.3	9.4	1.9	0.2	2.7	9.1	9.2	3.7		0.1	100	1998
19.5	14.6	3.4	9.3	1.9	0.2	2.7	8.8	9.3	3.7		0.1	100	1999
19.5	14.1	3.3	8.9	1.9	0.2	2.4	9.1	9.2	3.7		0.1	100	2000
19.5	14.9	3.5	9.5	1.9	0.1	2.3	8.7	9.0	3.6		0.1	100	2001
19.8	14.4	3.4	9.2	1.8	0.1	2.3	8.7	8.9	3.6		0.1	100	2002
19.7	14.5	3.3	9.3	1.8	0.1	2.2	8.8	8.6	3.5		0.1	100	2003
20.1	14.3	3.4	9.1	1.8	0.2	2.1	9.1	8.6	3.4		0.1	100	2004
20.3	14.4	3.4	9.1	1.8	0.2	2.1	9.2	8.6	3.3		0.1	100	2005
20.6	14.4	3.6	9.0	1.8	0.2	2.0	9.2	8.5	3.2		0.1	100	2006
21.0	12.9	3.2	8.0	1.7	0.2	2.0	9.4	8.6	3.2		0.1	100	2007
21.1	14.1	3.6	8.8	1.8	0.2	2.0	9.1	8.8	3.2		0.1	100	2008
21.9	14.9	3.8	9.3	1.9	0.1	2.0	8.2	9.3	3.4		0.1	100	2009
21.4	15.4	3.9	9.7	1.9	0.1	1.9	8.4	9.0	3.2		0.1	100	2010
21.8	14.1	3.5	8.7	1.9	0.1	2.0	8.6	9.2	3.2		0.0	100	2011
21.5	14.5	3.6	9.0	1.9	0.1	2.0	8.4	9.4	3.2		0.0	100	2012
21.8	14.9	3.8	9.2	1.9	0.1	2.0	8.5	9.7	3.2		0.0	100	2013
22.8	13.4	3.5	8.0	1.9	0.1	2.0	8.9	10.1	3.2		0.0	100	2014
22.9	13.9	3.6	8.4	1.9	0.1	2.0	8.7	10.1	3.1		0.0	100	2015
23.5	14.1	3.6	8.6	1.9	0.1	1.9	8.7	10.1	3.1		0.0	100	2016
23.9	13.9	3.6	8.4	1.9	0.1	1.9	8.8	10.0	3.0		0.0	100	2017
24.6	13.8	3.6	8.3	2.0	0.1	1.9	8.8	10.1	3.0		0.0	100	2018

- NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.
- (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

### 3.2.4. GHG emissions (\*) 2018

#### BY SECTOR (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
EU-27	3 036.3	2 963.7	1 015.2	876.9	98.2	40.0	449.6	89.9	8.4	67.7	23.4	35.5	224.7
EU-28	3 445.1	3 362.4	1 110.1	943.9	111.3	54.9	500.7	98.7	9.1	73.1	24.9	39.9	254.9
BE	90.7	90.1	20.0	15.3	4.6	0.2	13.8	1.4	0.5	3.7	0.5	2.4	5.4
BG	42.0	40.1	23.5	22.7	0.8	0.0	4.3	0.1	0.2	1.5	0.1	0.2	2.0
CZ	98.1	94.8	51.1	44.8	0.5	5.8	10.0	2.0	0.2	1.9	0.4	1.0	4.5
DK	36.8	36.4	11.5	9.3	0.9	1.3	4.0	0.1		0.4	0.1	1.1	2.4
DE	750.6	742.1	295.2	266.2	19.0	10.0	130.1	36.7	0.2		0.0	0.2	93.1
EE	17.8	17.8	13.8	12.2		1.6	0.7			0.0	0.0	0.0	0.6
IE	39.9	39.8	10.6	10.1	0.3	0.1	4.7	0.0	1.4	0.3	0.0	0.9	2.1
EL	71.2	70.3	38.3	33.3	4.9	0.0	5.1	0.1	0.3	0.5	0.1	0.6	3.5
ES	271.3	267.3	72.2	59.6	11.4	1.3	46.4	5.7	1.3	9.5	4.4	5.1	20.4
FR	329.9	325.8	41.5	32.2	6.2	3.0	51.4	14.0	0.8	10.6	2.3	7.2	16.6
HR	17.0	16.6	3.9	2.4	1.3	0.2	2.4	0.1	0.0	0.3	0.1	0.3	1.6
IT	356.1	349.3	95.8	70.3	19.8	5.7	53.9	10.1	1.1	11.6	4.9	3.8	22.4
CY	7.5	7.5	3.4	3.4		0.0	0.6		0.0	0.0	0.0	0.1	0.5
LV	8.2	8.1	1.9	1.9		0.1	0.8	0.0	0.0	0.0	0.0	0.1	0.6
LT	12.3	11.8	2.4	1.1	1.3	0.1	1.3			0.3	0.0	0.3	0.7
LU	10.9	10.9	0.2	0.2			1.2	0.3	0.0	0.1	0.0	0.0	0.7
HU	46.4	45.6	13.1	11.1	1.6	0.4	5.3	0.2	0.2	0.4	0.4	0.8	3.3
MT	2.0	2.0	0.7	0.7			0.0						0.0
NL	167.6	166.0	60.1	48.0	9.1	3.0	28.0	5.0	0.2	14.0	0.8	3.7	4.3
AT	57.2	56.9	10.1	7.0	2.8	0.2	10.9	1.7	0.3	1.5	2.0	0.8	4.7
PL	345.1	321.1	163.4	155.9	4.4	3.1	31.7	5.5	1.3	6.3	1.4	4.6	12.7
PT	52.6	51.4	17.9	15.7	2.2		7.6	0.1		1.1	1.4	0.7	4.3
RO	77.4	67.5	24.3	20.3	1.8	2.1	12.2	0.9		2.0	0.2	0.8	8.3
SI	14.3	13.9	4.8	4.8		0.0	1.8	0.2	0.1	0.1	0.3	0.1	1.0
SK	29.5	27.9	7.4	4.8	1.5	1.2	7.6	3.4	0.1	0.5	0.4	0.3	2.9
FI	44.5	44.4	18.7	16.7	1.7	0.3	6.9	0.9	0.1	0.8	2.7	0.1	2.3
SE	39.2	38.3	9.4	7.0	2.1	0.4	6.9	1.3	0.1	0.6	0.9	0.3	3.7
UK	408.8	398.7	95.0	67.0	13.1	14.9	51.0	8.8	0.7	5.4	1.4	4.4	30.3
MK													
TR	385.2	377.5	158.5	150.0	6.1	2.3	59.6	4.2	0.8	7.0	1.0	5.1	41.4
IS	3.2	3.1	0.0	0.0			0.2	0.0	0.0			0.0	0.1
NO	39.3	36.5	15.3	1.8	0.9	12.6	3.2	0.1	0.2	0.5	0.1	0.3	2.0
CH	40.9	40.7	3.4	3.0	0.4	0.0	4.8	0.3	0.1	0.7	0.1	0.7	2.9

**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

### 3.2.4. GHG emissions (\*) 2018

#### BY SECTOR (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
957.3	537.1	138.8	321.7	76.5	4.6	72.6	343.5	394.4	117.2		1.6	3 893.1	EU-27
1 115.9	629.5	158.6	389.2	81.6	6.2	82.6	371.9	435.3	138.0		1.6	4 391.8	EU-28
31.4	24.7	5.7	16.6	2.4	0.1	0.7	21.6	10.0	1.4			123.6	BE
10.5	1.8	0.4	1.0	0.5		1.8	6.5	6.4	3.7			58.6	BG
20.3	13.1	2.8	9.1	1.2	0.3	3.3	16.3	8.6	5.7	0.7		129.4	CZ
16.5	4.3	0.7	2.0	1.5	0.2	0.4	2.0	11.0	1.1	0.3		51.3	DK
194.0	122.1	32.1	83.7	6.2	0.8	8.5	64.8	63.6	9.7			888.7	DE
2.6	0.6	0.1	0.3	0.2	0.1	0.0	0.6	1.4	0.3			20.2	EE
15.5	9.0	2.1	6.2	0.7		0.1	3.5	20.0	0.9			64.2	IE
21.3	5.4	0.7	4.2	0.5	0.1	0.9	12.4	7.8	4.7			96.1	EL
108.2	40.0	12.6	15.7	11.6	0.5	4.0	27.8	39.6	13.5			352.2	ES
150.2	82.8	28.2	43.2	11.4		4.1	40.7	74.8	17.4			462.8	FR
7.0	3.2	0.6	1.9	0.7		0.5	2.6	2.7	2.0			24.4	HR
116.0	83.2	25.3	49.7	8.2	0.4	6.8	34.7	30.2	18.3			439.3	IT
3.1	0.5	0.1	0.3	0.1	0.0	0.0	1.3	0.5	0.6			9.9	CY
3.8	1.5	0.4	0.6	0.5	0.0	0.1	0.9	2.6	0.5	0.0		12.2	LV
6.5	1.5	0.4	1.0	0.2	0.0	0.5	3.2	4.3	0.9			20.6	LT
7.8	1.7	0.6	1.0	0.0	0.0	0.0	0.7	0.7	0.1			12.4	LU
14.8	12.3	2.9	7.9	1.5	0.0	0.8	7.1	7.1	3.4			64.1	HU
1.1	0.1	0.1	0.0	0.0	0.0		0.4	0.1	0.2			2.7	MT
43.7	34.0	7.5	16.8	9.6	0.2	1.6	11.2	18.2	3.0	0.4		200.5	NL
27.0	8.8	1.3	6.6	0.9	0.1	0.4	15.6	7.2	1.4			81.5	AT
68.3	57.7	7.0	38.2	12.4		24.0	24.9	33.1	12.8			415.9	PL
21.4	4.5	1.2	2.1	1.2	0.1	1.2	7.4	6.8	4.6	0.1		71.6	PT
18.9	11.6	2.2	7.9	1.5	0.6	9.9	13.4	19.9	5.8			116.5	RO
5.9	1.3	0.3	0.8	0.2	0.0	0.4	1.2	1.7	0.4			17.6	SI
7.9	4.8	1.5	3.0	0.4	0.1	1.6	9.6	2.7	1.7			43.5	SK
14.1	3.9	1.2	1.3	1.3	1.0	0.1	5.8	6.6	1.8	0.1		58.8	FI
19.3	2.5	0.7	0.6	1.3	0.2	0.9	7.3	6.8	1.2			54.6	SE
158.7	92.4	19.8	67.5	5.1	1.6	10.0	28.4	40.8	20.7			498.7	UK
													MK
96.6	62.9	13.5	38.8	10.5		7.7	65.2	64.9	17.8			533.0	TR
2.4	0.6	0.0	0.0	0.6	0.0	0.2	2.0	0.6	0.3			6.2	IS
14.8	3.1	1.3	1.0	0.8	0.2	2.7	8.9	4.5	1.2			53.8	NO
20.6	11.8	3.5	7.7	0.6	0.1	0.2	4.4	6.0	0.7	0.0	0.1	52.1	CH

**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

### 3.2.4. GHG emissions (\*) 2018 BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
EU-27	78.0	76.1	26.1	22.5	2.5	1.0	11.5	2.3	0.2	1.7	0.6	0.9	5.8
EU-28	78.4	76.6	25.3	21.5	2.5	1.3	11.4	2.2	0.2	1.7	0.6	0.9	5.8
BE	73.4	72.9	16.2	12.4	3.7	0.1	11.2	1.1	0.4	3.0	0.4	1.9	4.4
BG	71.6	68.5	40.2	38.7	1.4	0.0	7.3	0.2	0.4	2.6	0.2	0.4	3.5
CZ	75.8	73.3	39.5	34.6	0.4	4.5	7.7	1.6	0.1	1.4	0.3	0.8	3.5
DK	71.7	71.0	22.3	18.1	1.7	2.5	7.7	0.2		0.7	0.2	2.1	4.6
DE	84.5	83.5	33.2	30.0	2.1	1.1	14.6	4.1	0.0		0.0	0.0	10.5
EE	88.2	88.1	68.4	60.6		7.8	3.4			0.1	0.2	0.0	3.1
IE	62.1	62.0	16.4	15.7	0.5	0.2	7.4	0.0	2.2	0.5	0.0	1.4	3.3
EL	74.1	73.1	39.8	34.6	5.1	0.0	5.3	0.1	0.3	0.5	0.1	0.6	3.7
ES	77.0	75.9	20.5	16.9	3.2	0.4	13.2	1.6	0.4	2.7	1.2	1.5	5.8
FR	71.3	70.4	9.0	7.0	1.3	0.6	11.1	3.0	0.2	2.3	0.5	1.5	3.6
HR	69.8	68.0	16.2	9.9	5.4	0.8	9.9	0.2	0.1	1.1	0.4	1.4	6.7
IT	81.1	79.5	21.8	16.0	4.5	1.3	12.3	2.3	0.3	2.6	1.1	0.9	5.1
CY	76.4	76.4	34.0	34.0		0.0	5.6		0.0	0.1	0.0	0.7	4.8
LV	67.0	66.2	15.8	15.4		0.4	6.2	0.0	0.0	0.3	0.1	0.8	5.1
LT	59.5	57.0	11.9	5.2	6.4	0.3	6.1			1.4	0.2	1.2	3.3
LU	88.4	88.1	1.8	1.8			9.4	2.3	0.4	1.1	0.0	0.2	5.4
HU	72.4	71.1	20.4	17.4	2.5	0.6	8.3	0.3	0.3	0.6	0.7	1.3	5.1
MT	75.7	75.7	26.2	26.2			1.6						1.6
NL	83.6	82.8	30.0	23.9	4.6	1.5	14.0	2.5	0.1	7.0	0.4	1.8	2.2
AT	70.2	69.8	12.4	8.6	3.5	0.3	13.4	2.1	0.4	1.8	2.4	1.0	5.7
PL	83.0	77.2	39.3	37.5	1.0	0.8	7.6	1.3	0.3	1.5	0.3	1.1	3.1
PT	73.5	71.8	25.0	21.9	3.1		10.6	0.1		1.5	1.9	1.0	6.0
RO	66.4	58.0	20.8	17.5	1.6	1.8	10.4	0.8		1.7	0.1	0.7	7.2
SI	81.0	78.8	27.3	27.3		0.0	10.4	1.2	0.7	0.4	1.8	0.6	5.7
SK	67.8	64.1	17.1	10.9	3.4	2.7	17.5	7.9	0.2	1.2	0.8	0.7	6.6
FI	75.7	75.5	31.8	28.4	2.8	0.5	11.7	1.5	0.2	1.3	4.6	0.2	3.9
SE	71.8	70.2	17.3	12.8	3.8	0.7	12.7	2.5	0.2	1.0	1.6	0.6	6.8
UK	82.0	79.9	19.0	13.4	2.6	3.0	10.2	1.8	0.1	1.1	0.3	0.9	6.1
MK													
TR	72.3	70.8	29.7	28.1	1.2	0.4	11.2	0.8	0.2	1.3	0.2	1.0	7.8
IS	52.3	49.7	0.0	0.0			2.4	0.0	0.1			0.4	1.9
NO	73.0	67.9	28.5	3.3	1.7	23.5	5.9	0.1	0.3	0.9	0.2	0.6	3.8
CH	78.5	78.1	6.4	5.7	0.7	0.0	9.3	0.5	0.2	1.4	0.2	1.3	5.6

NB: (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.



## 3.2.4.

## GHG emissions (\*) 2018

## BY SECTOR (SHARES %)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
24.6	13.8	3.6	8.3	2.0	0.1	1.9	8.8	10.1	3.0		0.0	100.0	EU-27
25.4	14.3	3.6	8.9	1.9	0.1	1.9	8.5	9.9	3.1		0.0	100.0	EU-28
25.4	20.0	4.6	13.4	1.9	0.1	0.5	17.4	8.1	1.1			100.0	BE
17.9	3.1	0.6	1.7	0.9		3.2	11.1	10.9	6.3			100.0	BG
15.7	10.2	2.2	7.0	1.0	0.2	2.6	12.6	6.7	4.4		0.5	100.0	CZ
32.2	8.3	1.4	4.0	3.0	0.4	0.7	4.0	21.5	2.2		0.5	100.0	DK
21.8	13.7	3.6	9.4	0.7	0.1	1.0	7.3	7.2	1.1			100.0	DE
13.0	3.1	0.4	1.6	1.2	0.2	0.1	3.1	7.1	1.6			100.0	EE
24.2	14.0	3.3	9.6	1.1		0.1	5.5	31.1	1.4			100.0	IE
22.2	5.6	0.7	4.4	0.5	0.1	1.0	12.9	8.1	4.9			100.0	EL
30.7	11.3	3.6	4.5	3.3	0.1	1.1	7.9	11.3	3.8			100.0	ES
32.4	17.9	6.1	9.3	2.5		0.9	8.8	16.2	3.8			100.0	FR
28.7	13.2	2.6	7.6	2.9		1.8	10.6	11.2	8.4			100.0	HR
26.4	18.9	5.8	11.3	1.9	0.1	1.5	7.9	6.9	4.2			100.0	IT
31.6	4.9	1.1	2.9	0.8	0.2	0.0	12.7	5.1	5.8			100.0	CY
31.4	12.6	3.5	5.1	4.0	0.2	0.7	7.1	21.4	4.5		0.1	100.0	LV
31.4	7.5	1.7	4.7	1.1	0.1	2.5	15.3	20.7	4.5			100.0	LT
63.5	13.5	4.8	8.5	0.2	0.0	0.3	5.4	5.6	0.7			100.0	LU
23.1	19.2	4.5	12.4	2.3	0.0	1.3	11.1	11.2	5.4			100.0	HU
42.8	4.9	2.7	1.5	0.7	0.1		15.7	2.5	6.2			100.0	MT
21.8	16.9	3.8	8.4	4.8	0.1	0.8	5.6	9.1	1.5		0.2	100.0	NL
33.1	10.8	1.6	8.0	1.2	0.1	0.5	19.2	8.9	1.7			100.0	AT
16.4	13.9	1.7	9.2	3.0		5.8	6.0	8.0	3.1			100.0	PL
29.9	6.3	1.7	2.9	1.7	0.1	1.7	10.4	9.5	6.4		0.2	100.0	PT
16.2	10.0	1.9	6.8	1.3	0.5	8.5	11.5	17.0	5.0			100.0	RO
33.7	7.4	1.7	4.3	1.4	0.0	2.2	6.7	9.8	2.5			100.0	SI
18.2	11.1	3.4	6.9	0.8	0.2	3.7	22.1	6.3	3.9			100.0	SK
23.9	6.6	2.0	2.3	2.2	1.6	0.2	9.9	11.2	3.1		0.1	100.0	FI
35.3	4.7	1.3	1.1	2.3	0.3	1.6	13.4	12.4	2.3			100.0	SE
31.8	18.5	4.0	13.5	1.0	0.3	2.0	5.7	8.2	4.2			100.0	UK
													MK
18.1	11.8	2.5	7.3	2.0		1.4	12.2	12.2	3.3			100.0	TR
38.2	9.1	0.0	0.1	9.0	0.0	2.6	32.9	10.3	4.5			100.0	IS
27.5	5.7	2.4	1.8	1.5	0.3	5.1	16.5	8.3	2.1			100.0	NO
39.5	22.6	6.7	14.7	1.1	0.2	0.4	8.5	11.5	1.3	0.0	0.2	100.0	CH

**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

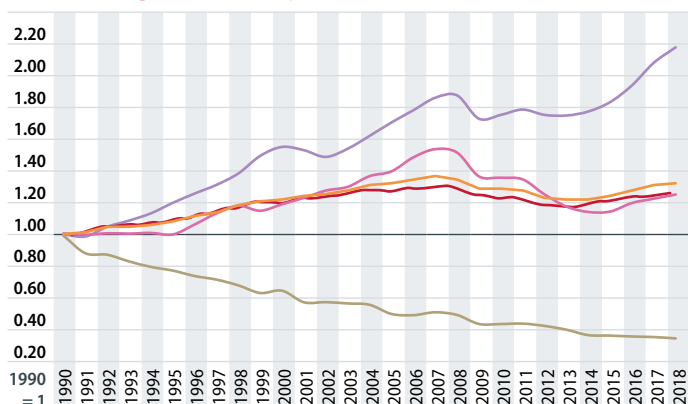
### 3.2.5. GHG emissions from transport EU-27 BY MODE (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION			OTHER TRANSPORTATION (****)	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	International bunkers – aviation				Navigation (domestic) (*)	International bunkers – maritime transport				
1990	66.0	12.3	53.7	620.1	12.7	124.3	22.4	101.9	5.2	828.3	5 013.5
1995	79.2	13.5	65.7	675.0	9.9	123.5	20.9	102.6	5.1	892.6	4 729.1
2000	102.6	17.2	85.4	747.4	8.2	147.3	19.3	128.0	6.4	1 012.0	4 671.5
2005	112.8	16.7	96.1	796.6	6.3	173.3	19.9	153.4	7.9	1 096.9	4 800.5
2010	116.0	15.9	100.1	771.7	5.5	168.3	18.5	149.9	6.6	1 068.1	4 438.2
2011	118.2	15.9	102.3	763.6	5.5	167.0	16.6	150.4	6.4	1 060.7	4 328.0
2012	116.0	14.8	101.2	736.3	5.3	155.1	16.0	139.1	5.8	1 018.6	4 237.0
2013	115.7	13.6	102.2	733.7	5.0	145.6	14.6	130.9	6.4	1 006.4	4 145.7
2014	117.4	13.4	104.0	742.0	4.6	141.3	13.9	127.4	5.3	1 010.6	4 007.8
2015	121.3	13.5	107.9	755.9	4.5	141.5	14.4	127.1	5.2	1 028.6	4 063.8
2016	128.3	13.9	114.4	772.9	4.5	148.3	15.1	133.2	5.4	1 059.4	4 075.1
2017	137.8	14.4	123.4	785.0	4.4	151.7	16.1	135.6	5.7	1 084.6	4 112.3
2018	144.3	15.0	129.2	786.2	4.3	155.0	16.6	138.4	5.9	1 095.7	4 031.5

Total civil aviation · Road transportation · Railways (\*\*\*) ·

Total navigation · Total transport



**NB:** (\*) Excluding international bunkers (international traffic departing from the EU).

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

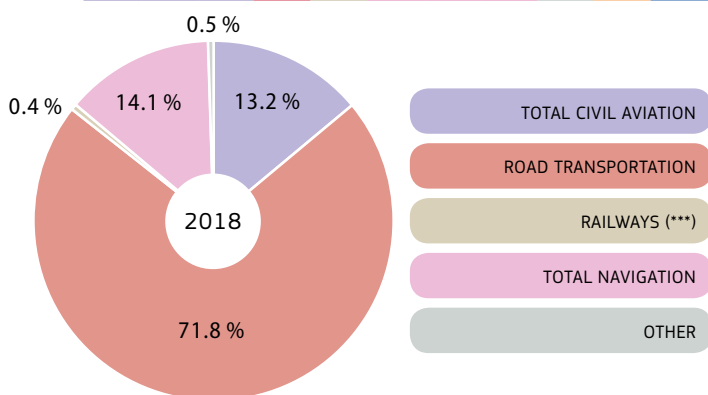
(\*\*\*) Excluding indirect emissions from electricity consumption.

(\*\*\*\*) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

### 3.2.5. GHG emissions from transport EU-27 BY MODE (SHARES %)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – maritime transport	OTHER TRANSPORT (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.0	1.5	6.5	74.9	1.5	15.0	2.7	12.3	0.6	16.5	100
1995	8.9	1.5	7.4	75.6	1.1	13.8	2.3	11.5	0.6	18.9	100
2000	10.1	1.7	8.4	73.9	0.8	14.6	1.9	12.7	0.6	21.7	100
2005	10.3	1.5	8.8	72.6	0.6	15.8	1.8	14.0	0.7	22.8	100
2010	10.9	1.5	9.4	72.3	0.5	15.8	1.7	14.0	0.6	24.1	100
2011	11.1	1.5	9.6	72.0	0.5	15.7	1.6	14.2	0.6	24.5	100
2012	11.4	1.4	9.9	72.3	0.5	15.2	1.6	13.7	0.6	24.0	100
2013	11.5	1.3	10.2	72.9	0.5	14.5	1.5	13.0	0.6	24.3	100
2014	11.6	1.3	10.3	73.4	0.5	14.0	1.4	12.6	0.5	25.2	100
2015	11.8	1.3	10.5	73.5	0.4	13.8	1.4	12.4	0.5	25.3	100
2016	12.1	1.3	10.8	73.0	0.4	14.0	1.4	12.6	0.5	26.0	100
2017	12.7	1.3	11.4	72.4	0.4	14.0	1.5	12.5	0.5	26.4	100
2018	13.2	1.4	11.8	71.8	0.4	14.1	1.5	12.6	0.5	27.2	100



- NB:**
- (\*) Excluding international bunkers (international traffic departing from the EU).
  - (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.
  - (\*\*\*) Excluding indirect emissions from electricity consumption.
  - (\*\*\*\*) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.
  - (\*\*\*\*\*) Total transport share in total emissions.

### 3.2.6. GHG emissions from transport 2018

#### BY MODE (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
EU-27	144.3	15.0	129.2	786.2	4.3	155.0	16.6	138.4	5.9	1095.7	4 031.5
EU-28	182.4	16.6	165.9	898.9	6.1	171.4	22.0	149.4	6.5	1 265.3	4 541.2
BE	5.2	0.0	5.2	25.3	0.1	30.9	0.4	30.5	0.4	61.9	154.2
BG	0.8	0.1	0.8	9.3	0.0	0.3	0.0	0.3	0.3	10.7	58.9
CZ	1.3	0.0	1.2	18.7	0.3	0.0	0.0		0.0	20.3	129.4
DK	3.2	0.1	3.1	12.4	0.2	2.4	0.6	1.7		18.3	53.0
DE	32.4	2.0	30.3	157.7	0.8	6.0	1.7	4.3	1.3	198.3	893.1
EE	0.2	0.0	0.2	2.4	0.0	1.0	0.0	0.9		3.6	21.1
IE	3.3	0.0	3.3	11.7	0.1	0.8	0.3	0.5	0.1	16.0	64.7
EL	4.3	0.4	3.9	14.8	0.1	9.4	2.1	7.3		28.7	103.4
ES	21.0	3.1	18.0	83.7	0.3	24.8	3.2	21.6	0.1	129.8	373.8
FR	23.2	5.3	18.0	124.8	0.4	7.7	1.3	6.4	0.4	156.5	469.2
HR	0.6	0.0	0.6	6.2	0.1	0.2	0.2	0.1		7.1	24.4
IT	14.1	2.3	11.7	96.9	0.2	10.0	4.1	5.9	0.8	121.9	445.2
CY	1.0	0.0	1.0	2.1		0.9	0.0	0.9		4.0	10.7
LV	0.5	0.0	0.5	3.1	0.2	0.2	0.0	0.1		4.0	12.3
LT	0.4	0.0	0.4	5.8	0.2	0.7	0.0	0.6	0.0	7.1	21.3
LU	1.8	0.0	1.8	6.0	0.0	0.0	0.0	0.0		7.8	12.4
HU	0.9	0.0	0.8	13.6	0.1	0.0	0.0		0.2	14.8	64.1
MT	0.5	0.0	0.5	0.6		7.3	0.1	7.2		8.3	9.9
NL	12.3	0.0	12.3	30.3	0.1	37.2	1.0	36.2	0.1	79.9	236.7
AT	2.6	0.0	2.6	23.7	0.1	0.1	0.0	0.0	0.6	27.0	81.5
PL	3.1	0.1	3.0	63.8	0.4	0.9	0.0	0.9	0.9	69.2	416.7
PT	4.7	0.5	4.2	16.4	0.0	2.9	0.3	2.7		24.1	74.3
RO	0.6	0.2	0.4	17.8	0.3	0.2	0.1	0.1	0.0	18.9	116.6
SI	0.1	0.0	0.1	5.8	0.0	0.7		0.7	0.0	6.6	18.3
SK	0.2	0.0	0.2	7.3	0.1	0.0	0.0	0.0	0.3	7.9	43.5
FI	2.6	0.2	2.4	10.9	0.1	1.4	0.4	1.0	0.0	15.1	59.8
SE	3.4	0.5	2.8	15.0	0.0	9.2	0.7	8.5	0.2	27.8	63.1
UK	38.2	1.6	36.6	112.7	1.8	16.4	5.4	11.0	0.6	169.6	509.7
MK											
TR	15.8	3.7	12.1	78.9	0.4	4.1	0.9	3.1	0.5	99.7	536.2
IS	1.3	0.0	1.3	1.0		0.3	0.0	0.2		2.6	6.4
NO	2.9	1.2	1.7	9.0	0.0	3.5	2.7	0.8		15.5	54.5
CH	5.8	0.1	5.7	14.6	0.0	0.1	0.1	0.0	0.0	20.6	52.1

NB: (\*) Excluding international bunkers (international traffic departing from the EU).

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

### 3.2.6. GHG emissions from transport 2018 BY MODE (SHARES %)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
EU-27	13.2	1.4	11.8	71.8	0.4	14.1	1.5	12.6	0.5	27.2	100
EU-28	14.4	1.3	13.1	71.0	0.5	13.5	1.7	11.8	0.5	27.9	100
BE	8.4	0.0	8.4	40.9	0.1	49.9	0.7	49.2	0.6	40.2	100
BG	7.8	0.5	7.3	86.4	0.4	2.5	0.1	2.4	3.0	18.2	100
CZ	6.2	0.0	6.1	92.1	1.5	0.0	0.0		0.2	15.7	100
DK	17.6	0.7	16.9	68.2	1.2	13.0	3.4	9.5		34.4	100
DE	16.3	1.0	15.3	79.5	0.4	3.0	0.9	2.2	0.7	22.2	100
EE	6.0	0.1	5.9	66.2	0.8	26.9	0.4	26.5		16.8	100
IE	20.7	0.1	20.6	72.8	0.8	4.8	1.6	3.1	0.9	24.8	100
EL	15.1	1.5	13.6	51.6	0.5	32.9	7.4	25.5		27.7	100
ES	16.2	2.4	13.8	64.4	0.2	19.1	2.4	16.6	0.1	34.7	100
FR	14.8	3.4	11.5	79.7	0.3	4.9	0.8	4.1	0.2	33.4	100
HR	8.4	0.5	8.0	87.7	0.7	3.1	2.1	0.9		28.9	100
IT	11.5	1.9	9.6	79.5	0.1	8.2	3.4	4.9	0.7	27.4	100
CY	26.3	0.0	26.3	51.8		21.9	0.1	21.8		37.1	100
LV	12.0	0.1	11.9	79.3	4.7	4.0	0.6	3.4		32.1	100
LT	5.4	0.0	5.3	81.9	2.9	9.2	0.2	9.0	0.6	33.5	100
LU	23.2	0.0	23.2	76.7	0.1	0.0	0.0	0.0		63.5	100
HU	5.8	0.0	5.7	92.0	1.0	0.1	0.1		1.1	23.1	100
MT	5.7	0.0	5.7	6.8		87.5	1.1	86.4		84.6	100
NL	15.4	0.0	15.3	37.9	0.1	46.5	1.2	45.3	0.1	33.8	100
AT	9.6	0.2	9.4	87.6	0.4	0.2	0.0	0.2	2.2	33.1	100
PL	4.5	0.2	4.3	92.3	0.5	1.3	0.0	1.2	1.4	16.6	100
PT	19.3	2.1	17.3	68.3	0.1	12.2	1.1	11.1		32.4	100
RO	3.1	0.9	2.2	94.3	1.7	0.9	0.7	0.3	0.0	16.2	100
SI	1.6	0.0	1.5	87.8	0.4	10.2		10.2	0.0	36.1	100
SK	2.4	0.0	2.3	92.5	1.2	0.2	0.0	0.1	3.7	18.2	100
FI	17.4	1.4	16.0	72.5	0.4	9.6	2.8	6.8	0.1	25.2	100
SE	12.1	1.9	10.2	53.9	0.2	33.2	2.7	30.5	0.6	44.0	100
UK	22.5	0.9	21.6	66.4	1.1	9.7	3.2	6.5	0.3	33.3	100
MK											
TR	15.8	3.7	12.1	79.1	0.4	4.1	0.9	3.1	0.5	18.6	100
IS	51.2	1.0	50.2	37.7		11.1	1.7	9.4		40.5	100
NO	18.9	7.7	11.3	58.2	0.3	22.5	17.7	4.8		28.5	100
CH	28.1	0.6	27.5	71.0	0.1	0.6	0.5	0.1	0.1	39.5	100

NB: (\*) Excluding international bunkers (international traffic departing from the EU).

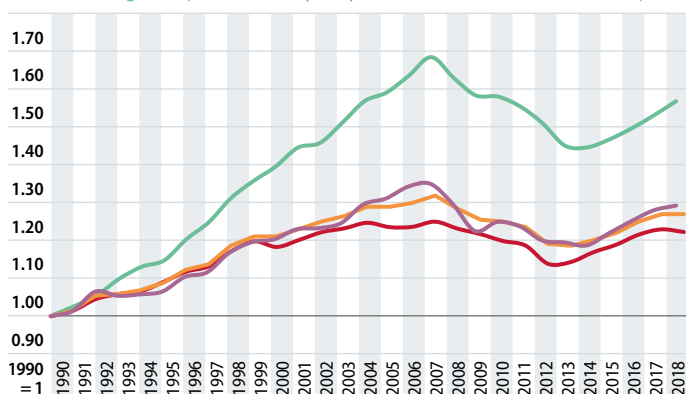
(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

(\*\*\*) Total transport share in total emissions.

### 3.2.7. GHG emissions from road transport EU-27 BY TRANSPORT MEAN (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	620.1	389.6	59.9	161.7	8.5	0.5	828.3	5 013.5
1995	675.0	424.2	68.5	172.1	10.0	0.2	892.6	4 729.1
2000	747.4	459.2	83.3	194.1	10.6	0.2	1 012.0	4 671.5
2005	796.6	479.1	95.1	211.3	10.9	0.2	1 096.9	4 800.5
2010	771.7	465.2	94.4	201.5	10.4	0.2	1 068.1	4 438.2
2011	763.6	460.6	92.9	199.6	10.3	0.2	1 060.7	4 328.0
2012	736.3	442.3	90.2	193.6	10.1	0.2	1 018.6	4 237.0
2013	733.7	444.1	86.7	192.8	9.9	0.1	1 006.4	4 145.7
2014	742.0	454.0	86.4	191.5	10.0	0.1	1 010.6	4 007.8
2015	755.9	461.4	87.7	196.7	9.9	0.1	1 028.6	4 063.8
2016	772.9	471.6	89.4	201.8	10.0	0.1	1 059.4	4 075.1
2017	785.0	476.9	91.5	206.4	10.1	0.2	1 084.6	4 112.3
2018	786.2	474.3	93.7	208.4	9.7	0.2	1 095.7	4 031.5

Cars · Light-duty trucks · Heavy-duty trucks and buses · Total road transport

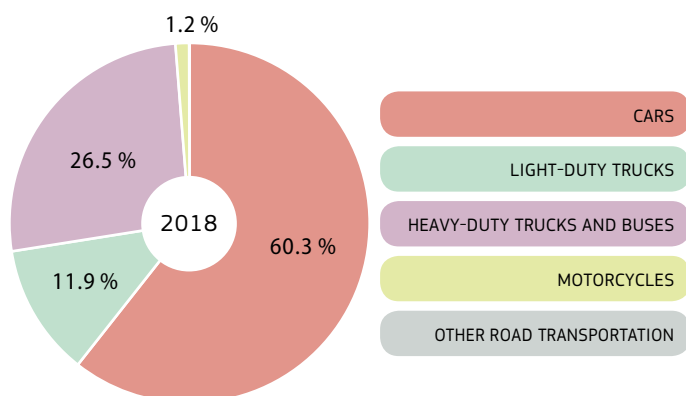


NB: (\*) Including international bunkers (international traffic departing from the EU).  
(\*\*) Including International bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

### 3.2.7. GHG emissions from road transport EU-27

BY TRANSPORT MEAN (SHARES %)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	74.9	47.0	7.2	19.5	1.0	0.1	16.5	100.0
1995	75.6	47.5	7.7	19.3	1.1	0.0	18.9	100.0
2000	73.9	45.4	8.2	19.2	1.0	0.0	21.7	100.0
2005	72.6	43.7	8.7	19.3	1.0	0.0	22.8	100.0
2010	72.3	43.6	8.8	18.9	1.0	0.0	24.1	100.0
2011	72.0	43.4	8.8	18.8	1.0	0.0	24.5	100.0
2012	72.3	43.4	8.9	19.0	1.0	0.0	24.0	100.0
2013	72.9	44.1	8.6	19.2	1.0	0.0	24.3	100.0
2014	73.4	44.9	8.5	19.0	1.0	0.0	25.2	100.0
2015	73.5	44.9	8.5	19.1	1.0	0.0	25.3	100.0
2016	73.0	44.5	8.4	19.0	0.9	0.0	26.0	100.0
2017	72.4	44.0	8.4	19.0	0.9	0.0	26.4	100.0
2018	71.8	43.3	8.6	19.0	0.9	0.0	27.2	100.0



**NB:** (\*) Including international bunkers (international traffic departing from the EU).  
 (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.  
 (\*\*\*) Total transport share in total emissions.

### 3.2.8. Total CO<sub>2</sub> emissions (\*) MILLION TONNES

	1990	1995	2000	2005	2010	2015	2017	2018
<b>EU-27</b>	<b>3 925.3</b>	<b>3 717.1</b>	<b>3 700.2</b>	<b>3 843.9</b>	<b>3 543.1</b>	<b>3 207.4</b>	<b>3 251.4</b>	<b>3 184.0</b>
<b>EU-28</b>	<b>4 539.0</b>	<b>4 301.5</b>	<b>4 295.1</b>	<b>4 446.1</b>	<b>4 084.3</b>	<b>3 660.6</b>	<b>3 673.0</b>	<b>3 598.0</b>
BE	123.4	128.9	131.4	129.2	118.7	105.4	104.3	105.4
BG	77.4	58.6	45.5	51.2	48.4	48.7	48.2	44.3
CZ	166.6	133.6	128.8	127.7	119.4	106.5	107.4	106.3
DK	56.5	64.5	57.4	54.7	52.0	38.1	37.9	38.0
DE	1 064.4	954.1	919.2	889.4	857.0	820.3	815.8	785.4
EE	37.0	18.1	15.3	17.1	18.9	16.0	18.8	17.9
IE	34.0	37.0	47.1	50.6	44.1	41.1	41.9	42.1
EL	85.9	89.6	105.5	116.5	99.9	77.8	78.3	75.7
ES	235.9	274.0	320.8	381.0	296.0	285.8	291.6	287.5
FR	409.3	407.7	430.2	442.2	405.0	355.5	363.0	349.4
HR	23.8	17.2	19.9	23.6	21.3	18.2	19.2	18.3
IT	442.3	454.1	476.4	508.5	442.5	369.7	362.6	359.7
CY	5.4	6.7	8.0	8.9	8.9	7.7	8.5	8.4
LV	19.8	9.2	7.2	8.0	8.9	7.6	7.7	8.3
LT	36.2	15.2	11.9	14.2	14.1	13.5	13.9	14.0
LU	12.2	9.7	9.7	13.4	12.5	10.7	10.9	11.4
HU	74.0	62.2	59.3	61.4	52.8	47.2	50.4	50.5
MT	2.6	2.8	2.9	2.9	2.9	2.1	2.0	2.0
NL	167.9	181.2	182.3	188.8	192.8	178.2	176.9	172.8
AT	63.0	65.4	67.9	81.2	74.1	68.4	71.9	69.2
PL	377.2	363.5	318.1	324.1	336.0	315.0	339.8	340.7
PT	46.7	56.3	67.7	72.0	55.8	55.6	58.7	55.7
RO	170.1	127.7	95.9	103.1	84.8	78.4	79.1	77.4
SI	15.1	15.3	15.5	17.0	16.4	13.7	14.3	14.6
SK	61.7	44.4	41.3	43.1	38.7	34.6	36.3	36.3
FI	58.1	59.2	58.2	58.4	65.8	46.1	46.8	48.3
SE	58.7	60.8	56.6	55.8	55.2	45.5	45.1	44.6
UK	613.7	584.5	594.9	602.2	541.2	453.2	421.6	414.0
MK								
TR	152.1	181.7	231.4	267.5	320.2	392.4	436.3	431.2
IS	2.5	2.7	3.4	3.4	4.0	4.2	4.8	5.0
NO	36.0	39.3	43.4	44.8	47.5	47.0	45.2	45.5
CH	47.6	47.3	48.5	49.4	49.4	43.7	43.6	42.6

**NB:** (\*) Excluding international maritime and LULUCF emissions, including international aviation and indirect CO<sub>2</sub>. Emissions data are downloaded from the EEA, which is the main provider for EU-wide GHG data. The EEA prepares and maintains the complete EU GHG inventory, which is based on data reported by Member States through the EU GHG monitoring mechanism and the UNFCCC process.



### 3.2.9. CO<sub>2</sub> emissions from transport

#### MILLION TONNES

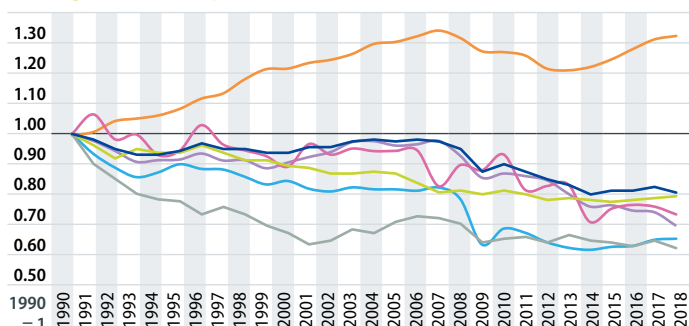
INCLUDING INTERNATIONAL BUNKERS (*)								
	1990	1995	2000	2005	2010	2015	2017	2018
<b>EU-27</b>	814.1	876.4	996.0	1 083.8	1 056.4	1 016.9	1 072.2	1 083.1
<b>EU-28</b>	957.1	1 026.4	1 161.0	1 258.1	1 219.3	1 180.6	1 241.4	1 250.9
<b>BE</b>	37.1	38.5	45.6	55.3	55.5	49.9	55.0	61.4
<b>BG</b>	7.3	6.0	5.9	8.7	8.7	9.9	10.4	10.6
<b>CZ</b>	11.7	10.8	12.4	18.1	17.6	18.2	19.5	20.1
<b>DK</b>	15.4	18.7	18.7	18.4	17.7	17.5	17.4	18.1
<b>DE</b>	180.3	195.6	205.7	190.2	185.4	192.9	202.9	196.0
<b>EE</b>	3.1	1.9	2.0	2.6	3.0	3.3	3.6	3.5
<b>IE</b>	6.2	7.6	12.9	15.7	14.1	14.7	15.4	15.9
<b>EL</b>	24.7	30.1	32.4	33.2	33.4	25.5	27.3	28.1
<b>ES</b>	74.1	85.7	113.9	138.4	130.0	120.6	126.4	128.4
<b>FR</b>	137.3	148.2	162.8	164.9	157.3	154.8	155.7	154.6
<b>HR</b>	4.4	3.6	4.6	5.8	6.2	6.3	7.0	7.0
<b>IT</b>	109.0	121.4	133.5	141.9	129.9	120.2	118.0	120.6
<b>CY</b>	2.1	2.5	3.2	3.8	3.7	3.4	3.9	3.9
<b>LV</b>	4.7	2.6	2.3	4.1	4.4	4.2	4.5	3.9
<b>LT</b>	6.4	3.7	3.5	4.7	4.9	5.5	6.5	7.0
<b>LU</b>	3.0	3.9	5.8	8.4	7.7	7.0	7.3	7.8
<b>HU</b>	9.2	7.9	9.6	12.7	12.2	12.6	13.7	14.6
<b>MT</b>	1.4	2.3	3.0	2.9	5.4	6.1	8.0	8.3
<b>NL</b>	67.3	72.4	84.8	96.3	89.2	79.7	80.2	79.2
<b>AT</b>	14.7	17.1	20.4	26.8	24.5	24.6	26.3	26.7
<b>PL</b>	22.2	24.3	29.6	37.6	50.9	49.9	65.8	68.3
<b>PT</b>	13.6	16.6	23.0	23.5	23.1	21.4	23.4	23.8
<b>RO</b>	12.8	8.9	10.0	12.7	14.6	16.3	18.8	18.6
<b>SI</b>	2.7	3.7	3.7	4.5	5.3	5.6	6.0	6.5
<b>SK</b>	6.8	5.5	5.7	7.7	7.5	7.3	7.7	7.8
<b>FI</b>	14.7	13.1	15.0	15.7	14.9	13.6	14.6	15.0
<b>SE</b>	22.1	23.9	26.0	29.3	29.2	25.7	26.7	27.4
<b>UK</b>	142.9	149.9	165.0	174.3	162.8	163.7	169.2	167.8
<b>MK</b>								
<b>TR</b>	27.2	34.6	38.4	47.7	52.6	88.1	96.8	97.9
<b>IS</b>	0.8	0.9	1.1	1.2	1.2	1.7	2.4	2.6
<b>NO</b>	12.8	13.6	15.7	16.6	17.0	16.4	14.6	15.1
<b>CH</b>	17.5	17.7	20.4	19.2	20.5	20.1	20.1	20.4

**NB:** (\*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries. For the EU-27, changes in international maritime emissions between 2010 and 2011 show inconsistencies with changes in energy statistics on bunker fuels.

### 3.2.10. CO<sub>2</sub> emissions (\*) EU-27 BY SECTOR (MILLION TONNES)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	3603.0	3579.7	1431.0	1227.4	102.9	100.8	730.3	160.5	12.1	102.3	29.0	44.1	382.4
1995	3420.2	3398.8	1312.2	1118.8	109.1	84.3	649.1	142.1	11.3	97.1	32.9	53.1	312.6
2000	3402.7	3381.8	1298.3	1118.9	115.7	63.6	590.8	126.9	12.6	85.3	31.2	47.9	286.8
2005	3540.7	3519.8	1376.8	1188.9	123.8	64.1	556.1	113.9	11.3	82.2	29.9	44.3	274.4
2010	3288.9	3267.7	1247.3	1075.1	115.8	56.4	472.2	98.4	10.1	72.5	26.0	35.0	230.2
2011	3185.7	3164.0	1235.5	1066.1	113.8	55.5	458.9	97.6	9.7	69.6	25.0	33.0	224.1
2012	3122.6	3101.0	1216.5	1060.1	110.9	45.5	440.9	93.3	9.0	66.8	24.3	32.6	215.0
2013	3046.4	3023.4	1154.0	1005.8	105.5	42.7	426.5	88.5	8.5	65.7	23.8	33.0	207.0
2014	2907.7	2885.3	1094.6	949.3	103.5	41.9	414.5	87.0	8.0	61.3	22.4	32.7	203.2
2015	2966.5	2944.4	1100.4	957.5	103.1	39.8	424.9	91.5	7.9	61.7	21.5	32.7	208.5
2016	2975.7	2954.2	1075.6	932.0	103.4	40.2	427.0	87.3	8.0	61.6	22.5	33.8	213.8
2017	3001.6	2979.5	1067.8	926.7	101.3	39.8	440.0	89.8	8.4	66.1	22.7	35.4	217.7
2018	2934.6	2912.8	1004.9	867.6	97.8	39.4	443.6	89.4	8.4	67.1	22.7	34.9	221.2

Energy industries - Industry (\*\*\*) - Transport (\*\*) - Residential and commercial - Agriculture, forestry, fisheries (\*\*\*\*) - Other (\*\*\*\*\*) - Total

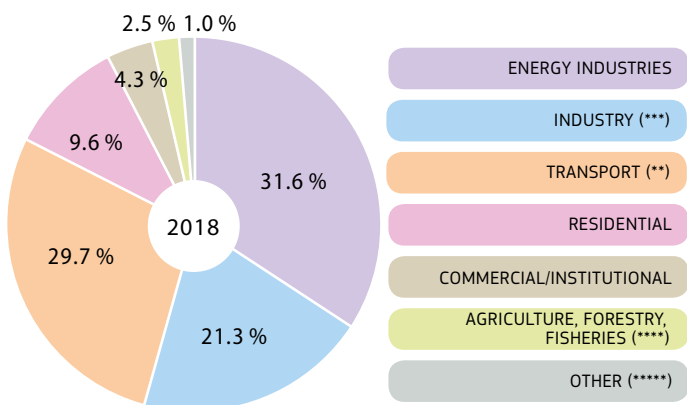


- NB:**
- (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.
  - (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.
  - (\*\*\*) Emissions from manufacturing and construction, industrial processes and product use.
  - (\*\*\*\*) Emissions from fuel combustion and other emissions from agriculture.
  - (\*\*\*\*\*) Emissions from other (not elsewhere specified), Fugitive Emissions from fuels, waste, indirect CO<sub>2</sub> and other.

## 3.2.10.

## CO<sub>2</sub> emissions (\*) EU-27 BY SECTOR (MILLION TONNES)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
713.5	687.0	172.5	427.2	87.2	17.9	23.3	300.9	13.4	3.8		4.2	3 925.3	1990
775.2	652.4	147.3	419.9	85.2	9.9	21.4	280.3	9.5	3.6		3.5	3 717.1	1995
869.5	616.5	146.6	389.2	80.7	6.8	20.9	282.3	9.4	2.8		2.9	3 700.2	2000
932.1	646.6	158.7	408.2	79.7	8.2	21.0	288.9	8.3	3.4		2.5	3 843.9	2005
908.2	634.4	164.4	395.6	74.5	5.6	21.2	240.7	7.8	3.4		2.2	3 543.1	2010
900.4	563.7	145.9	344.9	72.9	5.6	21.7	240.5	8.1	3.2		2.1	3 439.7	2011
869.7	569.0	147.9	350.1	71.0	4.9	21.6	226.8	8.3	3.3		2.0	3 362.9	2012
865.6	572.4	150.7	350.6	71.1	4.9	23.0	222.5	8.9	3.1		1.9	3 282.8	2013
873.2	498.1	132.8	295.2	70.0	4.8	22.4	227.6	9.0	3.1		1.8	3 149.2	2014
891.1	523.0	141.2	312.5	69.3	4.9	22.1	227.2	9.1	2.8		1.8	3 207.4	2015
915.6	531.1	139.9	321.4	69.8	5.0	21.5	228.6	9.4	2.9		1.7	3 218.3	2016
938.1	528.5	140.9	316.8	70.7	5.1	22.1	235.8	9.1	3.1		1.7	3 251.4	2017
946.1	513.6	137.4	305.2	71.0	4.5	21.8	235.7	9.3	2.9		1.6	3 184.0	2018



- NB:**
- (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.
  - (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.
  - (\*\*\*) Emissions from manufacturing and construction, industrial processes and product use.
  - (\*\*\*\*) Emissions from fuel combustion and other emissions from agriculture.
  - (\*\*\*\*\*) Emissions from other (not elsewhere specified), fugitive emissions from fuels, waste, indirect CO<sub>2</sub> and other.

## 3.2.10.

# CO<sub>2</sub> emissions (\*) EU-27

## BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	91.8	91.2	36.5	31.3	2.6	2.6	18.6	4.1	0.3	2.6	0.7	1.1	9.7
1991	92.4	91.8	36.2	31.3	2.5	2.4	17.8	4.0	0.3	2.5	0.8	1.2	9.0
1992	92.6	92.0	36.1	31.3	2.6	2.3	17.6	3.8	0.3	2.3	0.8	1.2	9.2
1993	92.6	92.0	35.4	30.5	2.7	2.2	17.2	3.6	0.3	2.2	0.8	1.3	9.0
1994	92.2	91.6	35.7	30.6	2.8	2.3	17.2	3.8	0.3	2.4	0.9	1.4	8.5
1995	92.0	91.4	35.3	30.1	2.9	2.3	17.5	3.8	0.3	2.6	0.9	1.4	8.4
1996	92.4	91.9	35.2	30.2	3.0	2.1	16.9	3.4	0.3	2.5	0.9	1.4	8.3
1997	92.1	91.5	34.9	29.8	3.1	2.1	16.9	3.6	0.3	2.5	0.9	1.4	8.2
1998	92.1	91.6	35.0	30.0	3.1	2.0	16.3	3.5	0.3	2.3	0.9	1.3	8.0
1999	92.3	91.7	34.5	29.7	3.0	1.8	16.1	3.3	0.3	2.3	0.8	1.3	8.0
2000	92.0	91.4	35.1	30.2	3.1	1.7	16.0	3.4	0.3	2.3	0.8	1.3	7.8
2001	92.4	91.8	35.3	30.5	3.1	1.6	15.3	3.1	0.3	2.2	0.8	1.3	7.5
2002	92.4	91.8	35.9	31.1	3.1	1.7	15.1	3.1	0.3	2.1	0.8	1.3	7.4
2003	92.3	91.8	36.3	31.6	3.0	1.6	14.9	3.0	0.3	2.1	0.8	1.2	7.4
2004	92.1	91.5	36.2	31.4	3.2	1.6	14.3	3.0	0.3	1.9	0.7	1.2	7.2
2005	92.1	91.6	35.8	30.9	3.2	1.7	14.5	3.0	0.3	2.1	0.8	1.2	7.1
2006	92.1	91.5	35.9	31.0	3.2	1.7	14.2	3.0	0.3	2.1	0.8	1.0	7.0
2007	91.9	91.3	36.6	31.7	3.2	1.7	14.5	3.1	0.3	2.1	0.7	1.0	7.2
2008	92.2	91.6	35.6	30.7	3.3	1.6	14.3	3.0	0.3	2.1	0.7	1.0	7.1
2009	93.2	92.6	35.7	30.9	3.4	1.4	12.8	2.3	0.3	2.0	0.7	1.0	6.5
2010	92.8	92.2	35.2	30.3	3.3	1.6	13.3	2.8	0.3	2.0	0.7	1.0	6.5
2011	92.6	92.0	35.9	31.0	3.3	1.6	13.3	2.8	0.3	2.0	0.7	1.0	6.5
2012	92.9	92.2	36.2	31.5	3.3	1.4	13.1	2.8	0.3	2.0	0.7	1.0	6.4
2013	92.8	92.1	35.2	30.6	3.2	1.3	13.0	2.7	0.3	2.0	0.7	1.0	6.3
2014	92.3	91.6	34.8	30.1	3.3	1.3	13.2	2.8	0.3	1.9	0.7	1.0	6.5
2015	92.5	91.8	34.3	29.9	3.2	1.2	13.2	2.9	0.2	1.9	0.7	1.0	6.5
2016	92.5	91.8	33.4	29.0	3.2	1.3	13.3	2.7	0.2	1.9	0.7	1.1	6.6
2017	92.3	91.6	32.8	28.5	3.1	1.2	13.5	2.8	0.3	2.0	0.7	1.1	6.7
2018	92.2	91.5	31.6	27.2	3.1	1.2	13.9	2.8	0.3	2.1	0.7	1.1	6.9

**NB:** (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

**NB:** Indirect emissions from electricity use are not included in the CO<sub>2</sub> emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

## 3.2.10.

# CO<sub>2</sub> emissions (\*) EU-27

## BY SECTOR (SHARES %)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
18.2	17.5	4.4	10.9	2.2	0.5	0.6	7.7	0.3	0.1		0.1	100	1990
18.7	18.8	4.6	11.9	2.2	0.4	0.6	7.1	0.3	0.1		0.1	100	1991
20.0	18.0	4.2	11.5	2.2	0.3	0.6	7.0	0.2	0.1		0.1	100	1992
20.5	18.7	4.3	12.0	2.4	0.3	0.6	6.9	0.3	0.1		0.1	100	1993
20.7	17.6	4.0	11.3	2.3	0.3	0.6	7.4	0.2	0.1		0.1	100	1994
20.9	17.6	4.0	11.3	2.3	0.3	0.6	7.5	0.3	0.1		0.1	100	1995
21.0	18.5	4.3	11.9	2.3	0.2	0.5	7.2	0.2	0.1		0.1	100	1996
21.7	17.7	4.0	11.5	2.3	0.2	0.6	7.4	0.3	0.1		0.1	100	1997
22.6	17.4	4.1	11.1	2.2	0.2	0.6	7.4	0.3	0.1		0.1	100	1998
23.6	17.3	4.2	10.9	2.2	0.2	0.6	7.3	0.3	0.1		0.1	100	1999
23.5	16.7	4.0	10.5	2.2	0.2	0.6	7.6	0.3	0.1		0.1	100	2000
23.5	17.6	4.2	11.2	2.1	0.2	0.5	7.2	0.2	0.1		0.1	100	2001
23.7	17.0	4.1	10.8	2.1	0.2	0.5	7.2	0.2	0.1		0.1	100	2002
23.5	16.9	4.0	10.9	2.1	0.2	0.6	7.3	0.2	0.1		0.1	100	2003
24.0	16.7	4.1	10.6	2.1	0.2	0.5	7.6	0.2	0.1		0.1	100	2004
24.2	16.8	4.1	10.6	2.1	0.2	0.5	7.5	0.2	0.1		0.1	100	2005
24.5	16.7	4.3	10.4	2.0	0.2	0.6	7.6	0.2	0.1		0.1	100	2006
25.1	14.9	3.8	9.2	1.9	0.2	0.6	7.7	0.2	0.1		0.1	100	2007
25.2	16.4	4.3	10.1	2.0	0.2	0.6	7.5	0.2	0.1		0.1	100	2008
26.5	17.5	4.6	10.8	2.1	0.2	0.6	6.4	0.2	0.1		0.1	100	2009
25.6	17.9	4.6	11.2	2.1	0.2	0.6	6.8	0.2	0.1		0.1	100	2010
26.2	16.4	4.2	10.0	2.1	0.2	0.6	7.0	0.2	0.1		0.1	100	2011
25.9	16.9	4.4	10.4	2.1	0.1	0.6	6.7	0.2	0.1		0.1	100	2012
26.4	17.4	4.6	10.7	2.2	0.1	0.7	6.8	0.3	0.1		0.1	100	2013
27.7	15.8	4.2	9.4	2.2	0.2	0.7	7.2	0.3	0.1		0.1	100	2014
27.8	16.3	4.4	9.7	2.2	0.2	0.7	7.1	0.3	0.1		0.1	100	2015
28.4	16.5	4.3	10.0	2.2	0.2	0.7	7.1	0.3	0.1		0.1	100	2016
28.9	16.3	4.3	9.7	2.2	0.2	0.7	7.3	0.3	0.1		0.1	100	2017
29.7	16.1	4.3	9.6	2.2	0.1	0.7	7.4	0.3	0.1		0.1	100	2018

**NB:** (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

**NB:** Indirect emissions from electricity use are not included in the CO<sub>2</sub> emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

### 3.2.11. CO<sub>2</sub> emissions (\*) 2018 BY SECTOR (MILLION TONNES)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
EU-27	2934.6	2912.8	1004.9	867.6	97.8	39.4	443.6	89.4	8.4	67.1	22.7	34.9	221.2
EU-28	3333.5	3307.1	1098.7	933.9	110.9	53.9	494.3	98.2	9.1	72.5	24.1	39.3	251.1
BE	88.9	88.8	19.8	15.2	4.5	0.2	13.6	1.3	0.5	3.6	0.5	2.4	5.3
BG	40.2	39.4	23.4	22.6	0.8	0.0	4.2	0.1	0.2	1.5	0.1	0.2	2.0
CZ	93.2	93.1	50.8	44.5	0.5	5.8	9.9	2.0	0.2	1.9	0.4	1.0	4.5
DK	36.0	35.7	11.3	9.1	0.9	1.3	3.9	0.1		0.4	0.1	1.0	2.3
DE	734.2	732.2	290.1	261.5	18.9	9.7	129.0	36.5	0.2		0.0	0.2	92.1
EE	17.5	17.5	13.7	12.2		1.6	0.7			0.0	0.0	0.0	0.6
IE	39.2	39.2	10.4	10.0	0.3	0.1	4.7	0.0	1.4	0.3	0.0	0.9	2.1
EL	69.4	69.4	38.1	33.2	4.9	0.0	5.0	0.1	0.3	0.5	0.1	0.6	3.5
ES	266.6	262.8	71.5	59.0	11.4	1.1	45.3	5.6	1.3	9.1	4.2	4.9	20.0
FR	323.4	320.4	41.1	31.9	6.2	3.0	50.7	13.9	0.8	10.6	2.3	7.1	16.0
HR	16.2	16.0	3.9	2.4	1.3	0.2	2.4	0.1	0.0	0.3	0.1	0.3	1.6
IT	343.9	341.6	95.3	69.9	19.7	5.6	52.9	10.0	1.1	11.5	4.9	3.5	21.8
CY	7.5	7.5	3.3	3.3			0.6		0.0	0.0	0.0	0.1	0.5
LV	7.7	7.7	1.9	1.8		0.1	0.7	0.0	0.0	0.0	0.0	0.1	0.6
LT	11.6	11.4	2.4	1.0	1.3	0.1	1.2			0.3	0.0	0.3	0.7
LU	10.8	10.8	0.2	0.2			1.2	0.3	0.0	0.1	0.0	0.0	0.7
HU	44.8	44.7	13.0	11.1	1.6	0.4	5.3	0.2	0.2	0.4	0.4	0.8	3.3
MT	2.0	2.0	0.7	0.7			0.0						0.0
NL	164.8	163.7	59.8	47.7	9.1	3.0	27.9	5.0	0.2	13.9	0.8	3.7	4.3
AT	56.0	55.9	10.0	6.9	2.8	0.2	10.8	1.7	0.3	1.5	1.9	0.8	4.6
PL	319.4	314.6	162.5	155.1	4.4	3.1	31.4	5.5	1.3	6.3	1.3	4.6	12.5
PT	51.6	50.5	17.7	15.5	2.2		7.4	0.1		1.1	1.3	0.7	4.2
RO	66.4	65.8	24.2	20.2	1.8	2.1	12.1	0.9		2.0	0.2	0.8	8.3
SI	13.7	13.6	4.8	4.8		0.0	1.8	0.2	0.1	0.1	0.3	0.1	1.0
SK	27.5	27.5	7.4	4.7	1.5	1.2	7.6	3.4	0.1	0.5	0.3	0.3	2.9
FI	43.6	43.5	18.4	16.4	1.6	0.3	6.7	0.9	0.1	0.7	2.6	0.1	2.2
SE	38.3	37.5	9.1	6.7	2.1	0.4	6.7	1.3	0.1	0.6	0.8	0.3	3.6
UK	398.9	394.3	93.8	66.3	13.0	14.5	50.7	8.8	0.7	5.4	1.4	4.4	29.9
MK													
TR	371.8	371.6	157.4	149.0	6.1	2.3	59.3	4.2	0.8	7.0	1.0	5.0	41.3
IS	3.2	3.0	0.0	0.0			0.1	0.0	0.0			0.0	0.1
NO	37.9	35.7	15.2	1.7	0.9	12.5	3.1	0.1	0.2	0.5	0.1	0.3	2.0
CH	40.3	40.3	3.3	3.0	0.4		4.8	0.3	0.1	0.7	0.1	0.7	2.9

NB: (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

## 3.2.11.

# CO<sub>2</sub> emissions (\*) 2018

## BY SECTOR (MILLION TONNES)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
946.1	513.6	137.4	305.2	71.0	4.5	21.8	235.7	9.3	2.9		1.6	3 184.0	EU-27
1 103.2	604.8	157.2	371.6	76.0	6.1	26.4	249.3	10.6	3.1		1.6	3 598.0	EU-28
31.1	24.2	5.7	16.3	2.2	0.1	0.1	16.0	0.2	0.3			105.4	BE
10.4	1.4	0.3	0.7	0.5		0.7	4.1	0.0	0.0			44.3	BG
20.1	12.1	2.8	8.1	1.2	0.3	0.1	12.0	0.3	0.1		0.7	106.3	CZ
16.3	4.1	0.7	1.9	1.5	0.2	0.2	1.5	0.2	0.0		0.3	38.0	DK
191.7	120.6	32.0	82.7	5.9	0.7	2.0	48.3	2.9				785.4	DE
2.6	0.5	0.1	0.2	0.2	0.0	0.0	0.4	0.0	0.0			17.9	EE
15.4	8.8	2.1	6.0	0.6		0.0	2.3	0.5	0.0			42.1	IE
21.0	5.1	0.7	4.0	0.5	0.1	0.0	6.2	0.0	0.0			75.7	EL
107.0	38.6	12.5	14.7	11.5	0.4	3.8	20.3	0.5				287.5	ES
148.3	80.2	28.1	41.7	10.4		3.0	22.6	2.0	1.4			349.4	FR
6.9	2.7	0.6	1.5	0.6		0.3	2.0	0.1				18.3	HR
114.7	78.4	24.8	46.2	7.4	0.3	2.3	15.3	0.4	0.1			359.7	IT
3.1	0.5	0.1	0.3	0.1	0.0	0.0	0.9	0.0				8.4	CY
3.8	1.3	0.4	0.5	0.4	0.0	0.0	0.6	0.0	0.0		0.0	8.3	LV
6.4	1.3	0.3	0.8	0.2	0.0	0.3	2.4	0.0	0.0			14.0	LT
7.8	1.6	0.6	1.0	0.0	0.0	0.0	0.6	0.0				11.4	LU
14.6	11.7	2.9	7.4	1.5	0.0	0.1	5.4	0.2	0.0			50.5	HU
1.1	0.1	0.1	0.0	0.0	0.0		0.0		0.0			2.0	MT
43.3	32.5	7.5	16.4	8.7	0.2	1.1	7.5	0.0			0.4	172.8	NL
26.7	8.4	1.3	6.3	0.8	0.1	0.1	13.1	0.1	0.0			69.2	AT
67.4	53.2	6.9	35.1	11.1		4.8	19.7	0.9	0.6			340.7	PL
21.2	4.2	1.2	1.8	1.2	0.1	1.1	3.9	0.0	0.0		0.1	55.7	PT
18.6	10.4	2.2	6.8	1.4	0.6	0.6	10.8	0.1	0.0			77.4	RO
5.8	1.2	0.3	0.6	0.2	0.0	0.1	0.8	0.0	0.0			14.6	SI
7.8	4.6	1.4	2.8	0.3	0.1	0.0	8.7	0.1	0.0			36.3	SK
13.9	3.6	1.2	1.1	1.3	0.9	0.1	4.4	0.2			0.1	48.3	FI
19.1	2.4	0.7	0.5	1.2	0.2	0.8	6.0	0.1	0.1			44.6	SE
157.0	91.1	19.7	66.4	5.0	1.6	4.6	13.6	1.3	0.2			414.0	UK
													MK
94.8	60.1	13.5	37.2	9.4		0.2	58.1	1.3	0.0			431.2	TR
2.3	0.6	0.0	0.0	0.5	0.0	0.2	1.8	0.0	0.0			5.0	IS
14.5	2.8	1.3	0.7	0.8	0.1	2.2	7.5	0.1	0.0			45.5	NO
20.4	11.7	3.5	7.6	0.6	0.1	0.0	2.1	0.0	0.0	0.0	0.1	42.6	CH

**NB:** (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

## 3.2.11.

# CO<sub>2</sub> emissions (\*) 2018

## BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other Energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
EU-27	92.2	91.5	31.6	27.2	3.1	1.2	13.9	2.8	0.3	2.1	0.7	1.1	6.9
EU-28	92.6	91.9	30.5	26.0	3.1	1.5	13.7	2.7	0.3	2.0	0.7	1.1	7.0
BE	84.4	84.3	18.8	14.4	4.3	0.1	12.9	1.2	0.5	3.4	0.5	2.2	5.1
BG	90.6	89.0	52.8	50.9	1.9	0.0	9.5	0.3	0.5	3.4	0.2	0.5	4.6
CZ	87.7	87.6	47.8	41.9	0.5	5.4	9.3	1.9	0.1	1.7	0.4	0.9	4.2
DK	94.7	94.1	29.7	24.0	2.3	3.3	10.2	0.3		0.9	0.2	2.7	6.1
DE	93.5	93.2	36.9	33.3	2.4	1.2	16.4	4.7	0.0		0.0	0.0	11.7
EE	97.7	97.7	76.7	67.9		8.7	3.8			0.1	0.2	0.0	3.4
IE	93.2	93.2	24.7	23.7	0.8	0.3	11.2	0.0	3.3	0.7	0.0	2.1	5.0
EL	91.8	91.8	50.4	43.8	6.5	0.1	6.7	0.1	0.4	0.6	0.1	0.8	4.6
ES	92.8	91.4	24.9	20.5	3.9	0.4	15.7	2.0	0.5	3.2	1.5	1.7	7.0
FR	92.6	91.7	11.8	9.1	1.8	0.9	14.5	4.0	0.2	3.0	0.7	2.0	4.6
HR	88.8	87.3	21.4	13.0	7.2	1.1	13.2	0.3	0.1	1.5	0.5	1.8	8.9
IT	95.6	95.0	26.5	19.4	5.5	1.6	14.7	2.8	0.3	3.2	1.4	1.0	6.1
CY	89.3	89.3	39.9	39.9			6.6		0.0	0.1	0.0	0.8	5.6
LV	92.0	92.0	22.7	22.1		0.6	8.5	0.0	0.0	0.5	0.1	1.1	6.9
LT	82.7	80.9	17.0	7.3	9.3	0.4	8.9			2.0	0.3	1.8	4.7
LU	94.8	94.8	1.9	1.9			10.1	2.5	0.4	1.2	0.0	0.2	5.7
HU	88.8	88.5	25.8	21.9	3.1	0.7	10.5	0.4	0.4	0.8	0.8	1.6	6.5
MT	99.7	99.7	34.8	34.8			2.2						2.2
NL	95.4	94.7	34.6	27.6	5.3	1.7	16.1	2.9	0.1	8.1	0.5	2.1	2.5
AT	80.9	80.7	14.4	10.0	4.1	0.3	15.6	2.5	0.5	2.1	2.8	1.1	6.6
PL	93.8	92.3	47.7	45.5	1.3	0.9	9.2	1.6	0.4	1.8	0.4	1.3	3.7
PT	92.6	90.6	31.8	27.8	4.0		13.3	0.2		1.9	2.3	1.3	7.5
RO	85.8	85.1	31.2	26.2	2.3	2.7	15.6	1.2		2.5	0.2	1.0	10.7
SI	94.0	93.1	32.7	32.7		0.0	12.4	1.4	0.8	0.4	2.1	0.7	6.8
SK	75.8	75.7	20.3	13.0	4.1	3.3	20.9	9.4	0.3	1.4	1.0	0.9	7.9
FI	90.3	90.1	38.0	34.0	3.4	0.6	13.8	1.9	0.2	1.5	5.3	0.3	4.6
SE	86.0	84.2	20.5	15.1	4.6	0.8	15.1	3.0	0.2	1.2	1.7	0.7	8.2
UK	96.3	95.2	22.7	16.0	3.2	3.5	12.2	2.1	0.2	1.3	0.3	1.1	7.2
MK													
TR	86.2	86.2	36.5	34.6	1.4	0.5	13.8	1.0	0.2	1.6	0.2	1.2	9.6
IS	64.1	60.9	0.0	0.0			2.8	0.0	0.2			0.5	2.1
NO	83.3	78.5	33.4	3.8	2.0	27.5	6.9	0.2	0.3	1.0	0.2	0.7	4.4
CH	94.6	94.6	7.8	7.0	0.9		11.2	0.7	0.2	1.8	0.3	1.5	6.7

**NB:** (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.  
 (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.



## 3.2.11.

# CO<sub>2</sub> emissions (\*) 2018

## BY SECTOR (SHARES %)

TRANSPORT (**)	OTHER SECTORS	Commercial/ institutional	Residential	Agriculture/forestry/ fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES AND PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
29.7	16.1	4.3	9.6	2.2	0.1	0.7	7.4	0.3	0.1		0.1	100	EU-27
30.7	16.8	4.4	10.3	2.1	0.2	0.7	6.9	0.3	0.1		0.0	100	EU-28
29.5	22.9	5.4	15.4	2.1	0.1	0.1	15.1	0.2	0.3			100	BE
23.4	3.3	0.7	1.5	1.0		1.6	9.3	0.1	0.0			100	BG
18.9	11.4	2.6	7.6	1.1	0.3	0.1	11.3	0.3	0.1		0.6	100	CZ
43.0	10.7	1.8	4.9	3.9	0.6	0.6	3.8	0.6	0.0		0.7	100	DK
24.4	15.4	4.1	10.5	0.8	0.1	0.3	6.2	0.4				100	DE
14.4	2.6	0.4	0.9	1.2	0.3	0.0	2.2	0.1	0.0			100	EE
36.5	20.8	5.0	14.4	1.5		0.0	5.4	1.3	0.1			100	IE
27.7	6.8	0.9	5.3	0.6	0.2	0.0	8.2	0.0	0.0			100	EL
37.2	13.4	4.3	5.1	4.0	0.2	1.3	7.1	0.2				100	ES
42.5	22.9	8.0	11.9	3.0		0.9	6.5	0.6	0.4			100	FR
37.8	15.0	3.4	8.1	3.5		1.5	10.8	0.4				100	HR
31.9	21.8	6.9	12.8	2.1	0.1	0.6	4.3	0.1	0.0			100	IT
36.9	5.6	1.3	3.4	0.9	0.3	0.0	10.7	0.0				100	CY
45.2	15.4	4.6	5.6	5.2	0.2	0.0	7.3	0.5	0.0		0.1	100	LV
45.4	9.5	2.4	5.6	1.5	0.1	1.8	17.1	0.2	0.0			100	LT
68.3	14.5	5.2	9.1	0.2	0.0	0.0	5.1	0.1				100	LU
28.9	23.3	5.7	14.7	2.9	0.1	0.3	10.7	0.4	0.1			100	HU
56.1	6.5	3.5	2.0	0.9	0.2		0.3		0.0			100	MT
25.1	18.8	4.3	9.5	5.0	0.1	0.6	4.3	0.0			0.3	100	NL
38.5	12.1	1.9	9.0	1.2	0.1	0.2	18.9	0.2	0.0			100	AT
19.8	15.6	2.0	10.3	3.3		1.4	5.8	0.3	0.2			100	PL
38.0	7.5	2.2	3.2	2.1	0.1	2.0	7.0	0.1	0.1		0.2	100	PT
24.0	13.4	2.9	8.7	1.8	0.8	0.7	14.0	0.2	0.0			100	RO
40.1	7.9	2.1	4.3	1.5	0.0	0.9	5.7	0.2	0.1			100	SI
21.6	12.6	4.0	7.7	0.9	0.2	0.1	24.0	0.2	0.0			100	SK
28.9	7.4	2.4	2.3	2.7	2.0	0.2	9.1	0.4			0.1	100	FI
42.8	5.4	1.6	1.1	2.7	0.4	1.9	13.4	0.3	0.3			100	SE
37.9	22.0	4.8	16.0	1.2	0.4	1.1	3.3	0.3	0.1			100	UK
													MK
22.0	13.9	3.1	8.6	2.2		0.0	13.5	0.3	0.0			100	TR
46.9	11.2	0.0	0.1	11.0	0.0	3.1	35.7	0.1	0.1			100	IS
31.8	6.2	2.8	1.6	1.8	0.3	4.8	16.5	0.2	0.0			100	NO
47.9	27.4	8.2	17.8	1.4	0.3	0.1	5.0	0.1	0.0	0.0	0.2	100	CH

**NB:** (\*) Excluding LULUCF emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.

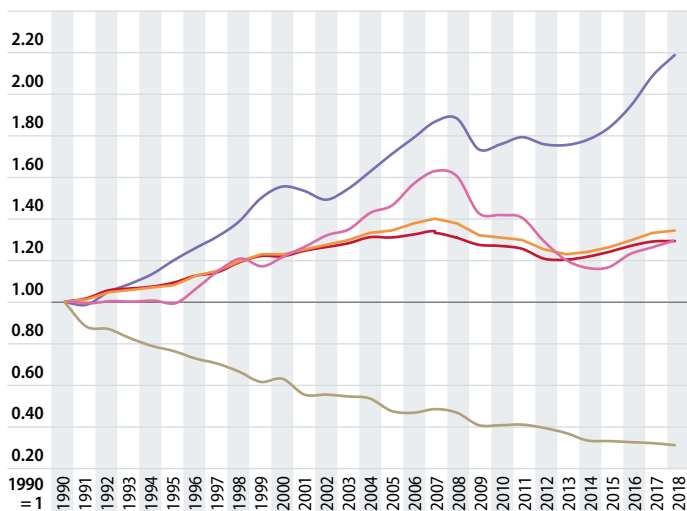
(\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

### 3.2.12. CO<sub>2</sub> emissions from transport EU-27 BY MODE (MILLION TONNES)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION			OTHER TRANSPORTATION (****)	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	International bunkers – aviation				Navigation (domestic) (*)	International bunkers – maritime transport				
1990	65.4	12.2	53.2	609.0	11.9	122.7	22.0	100.6	5.1	814.1	4 025.9
1995	78.5	13.4	65.1	661.9	9.3	121.8	20.6	101.2	5.0	876.4	3 818.3
2000	101.7	17.0	84.6	734.8	7.7	145.5	19.0	126.5	6.4	996.0	3 826.7
2005	111.8	16.6	95.2	786.9	6.0	171.3	19.5	151.7	7.9	1 083.8	3 995.6
2010	114.9	15.8	99.2	763.4	5.2	166.4	18.1	148.2	6.5	1 056.4	3 691.3
2011	117.2	15.8	101.4	755.4	5.2	165.1	16.3	148.8	6.3	1 049.2	3 588.5
2012	115.0	14.6	100.3	728.2	5.0	153.4	15.8	137.6	5.8	1 007.3	3 500.6
2013	114.7	13.4	101.3	725.4	4.7	143.9	14.4	129.5	6.3	995.1	3 412.3
2014	116.4	13.3	103.1	733.6	4.3	139.6	13.7	126.0	5.2	999.2	3 275.2
2015	120.2	13.3	106.9	747.3	4.3	139.9	14.2	125.7	5.2	1 016.9	3 333.1
2016	127.2	13.8	113.4	764.0	4.2	146.6	14.8	131.8	5.4	1 047.3	3 350.1
2017	136.6	14.2	122.3	775.8	4.2	149.9	15.8	134.1	5.7	1 072.2	3 385.5
2018	143.0	14.9	128.1	777.0	4.1	153.3	16.3	137.0	5.8	1 083.1	3 321.0

Total civil aviation · Road transportation · Railways (\*\*\*) · Total navigation · Total transport

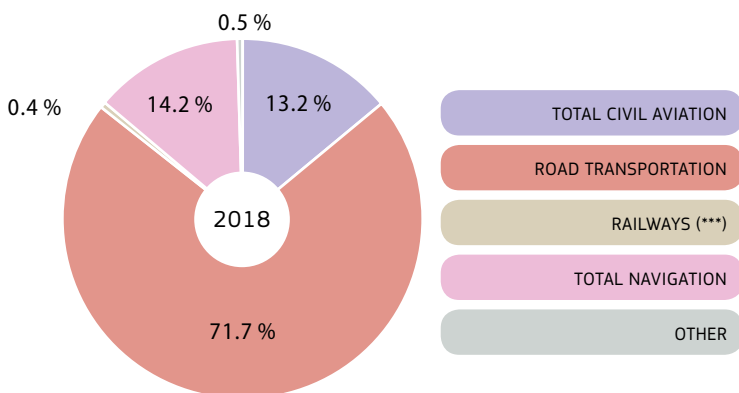


- NB:**
- (\*) Excluding international bunkers (international traffic departing from the EU).
  - (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.
  - (\*\*\*) Excluding indirect emissions from electricity consumption.
  - (\*\*\*\*) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

### 3.2.12. CO<sub>2</sub> emissions from transport EU-27 BY MODE (SHARES %)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – maritime transport	OTHER TRANSPORT (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.0	1.5	6.5	74.8	1.5	15.1	2.7	12.4	0.6	20.2	100
1995	9.0	1.5	7.4	75.5	1.1	13.9	2.3	11.5	0.6	23.0	100
2000	10.2	1.7	8.5	73.8	0.8	14.6	1.9	12.7	0.6	26.0	100
2005	10.3	1.5	8.8	72.6	0.5	15.8	1.8	14.0	0.7	27.1	100
2010	10.9	1.5	9.4	72.3	0.5	15.7	1.7	14.0	0.6	28.6	100
2011	11.2	1.5	9.7	72.0	0.5	15.7	1.6	14.2	0.6	29.2	100
2012	11.4	1.5	10.0	72.3	0.5	15.2	1.6	13.7	0.6	28.8	100
2013	11.5	1.3	10.2	72.9	0.5	14.5	1.4	13.0	0.6	29.2	100
2014	11.6	1.3	10.3	73.4	0.4	14.0	1.4	12.6	0.5	30.5	100
2015	11.8	1.3	10.5	73.5	0.4	13.8	1.4	12.4	0.5	30.5	100
2016	12.1	1.3	10.8	72.9	0.4	14.0	1.4	12.6	0.5	31.3	100
2017	12.7	1.3	11.4	72.4	0.4	14.0	1.5	12.5	0.5	31.7	100
2018	13.2	1.4	11.8	71.7	0.4	14.2	1.5	12.6	0.5	32.6	100



- NB:**
- (\*) Excluding international bunkers (international traffic departing from the EU).
  - (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.
  - (\*\*\*) Excluding indirect emissions from electricity consumption.
  - (\*\*\*\*) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.
  - (\*\*\*\*\*) Total transport share in total emissions.

### 3.2.13. CO<sub>2</sub> emissions from transport 2018

#### BY MODE (MILLION TONNES)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION			OTHER TRANSPORTATION	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	International bunkers – aviation				Navigation (domestic) (*)	International bunkers – maritime transport				
EU-27	143.0	14.9	128.1	777.0	4.1	153.3	16.3	137.0	5.8	1083.1	3 321.0
EU-28	180.8	16.4	164.4	888.5	5.8	169.4	21.6	147.8	6.4	1 250.9	3 745.8
BE	5.2	0.0	5.1	25.1	0.1	30.7	0.4	30.3	0.4	61.4	135.6
BG	0.8	0.1	0.8	9.2	0.0	0.3	0.0	0.3	0.3	10.6	44.6
CZ	1.2	0.0	1.2	18.5	0.3	0.0	0.0		0.0	20.1	106.3
DK	3.2	0.1	3.0	12.3	0.2	2.3	0.6	1.7		18.1	39.7
DE	32.1	2.0	30.1	155.8	0.8	6.0	1.7	4.3	1.3	196.0	789.7
EE	0.2	0.0	0.2	2.3	0.0	0.9	0.0	0.9		3.5	18.9
IE	3.3	0.0	3.3	11.6	0.1	0.8	0.3	0.5	0.1	15.9	42.6
EL	4.3	0.4	3.9	14.6	0.1	9.1	2.0	7.1		28.1	82.8
ES	20.8	3.0	17.8	82.7	0.3	24.5	3.1	21.4	0.1	128.4	308.9
FR	23.0	5.2	17.8	123.2	0.4	7.6	1.3	6.3	0.4	154.6	355.7
HR	0.6	0.0	0.6	6.1	0.0	0.2	0.1	0.1		7.0	18.3
IT	14.0	2.3	11.6	95.8	0.1	9.9	4.1	5.9	0.8	120.6	365.6
CY	1.0	0.0	1.0	2.0		0.9	0.0	0.9		3.9	9.2
LV	0.5	0.0	0.5	3.1	0.2	0.1	0.0	0.1		3.9	8.5
LT	0.4	0.0	0.4	5.8	0.2	0.7	0.0	0.6	0.0	7.0	14.7
LU	1.8	0.0	1.8	6.0	0.0	0.0	0.0	0.0		7.8	11.4
HU	0.8	0.0	0.8	13.4	0.1	0.0	0.0		0.2	14.6	50.5
MT	0.5	0.0	0.5	0.6		7.3	0.1	7.2		8.3	9.2
NL	12.2	0.0	12.2	30.0	0.1	36.8	1.0	35.8	0.1	79.2	208.6
AT	2.6	0.0	2.5	23.4	0.1	0.1	0.0	0.0	0.6	26.7	69.3
PL	3.1	0.1	3.0	63.0	0.3	0.9	0.0	0.8	0.9	68.3	341.5
PT	4.6	0.5	4.1	16.3	0.0	2.9	0.3	2.7		23.8	58.4
RO	0.6	0.2	0.4	17.6	0.3	0.2	0.1	0.1	0.0	18.6	77.4
SI	0.1	0.0	0.1	5.7	0.0	0.7		0.7	0.0	6.5	15.3
SK	0.2	0.0	0.2	7.3	0.1	0.0	0.0	0.0	0.3	7.8	36.3
FI	2.6	0.2	2.4	10.9	0.1	1.4	0.4	1.0	0.0	15.0	49.3
SE	3.3	0.5	2.8	14.8	0.0	9.1	0.7	8.3	0.2	27.4	52.9
UK	37.8	1.5	36.3	111.5	1.8	16.1	5.3	10.8	0.6	167.8	424.8
MK											
TR	15.7	3.6	12.0	77.3	0.4	4.0	0.9	3.1	0.5	97.9	434.3
IS	1.3	0.0	1.3	1.0		0.3	0.0	0.2		2.6	5.2
NO	2.9	1.2	1.7	8.9	0.0	3.3	2.6	0.7		15.1	46.2
CH	5.7	0.1	5.6	14.5	0.0	0.1	0.1	0.0	0.0	20.4	42.6

NB: (\*) Excluding international bunkers (international traffic departing from the EU).

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

### 3.2.13. CO<sub>2</sub> emissions from transport 2018

#### BY MODE (SHARES %)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
EU-27	13.2	1.4	11.8	71.7	0.4	14.2	1.5	12.6	0.5	32.6	100
EU-28	14.5	1.3	13.1	71.0	0.5	13.5	1.7	11.8	0.5	33.4	100
BE	8.4	0.0	8.4	40.8	0.1	50.0	0.7	49.3	0.6	45.2	100
BG	7.8	0.5	7.3	86.4	0.3	2.5	0.1	2.4	3.0	23.8	100
CZ	6.2	0.0	6.2	92.2	1.4	0.0	0.0		0.2	18.9	100
DK	17.6	0.7	16.9	68.2	1.2	13.0	3.4	9.6		45.5	100
DE	16.4	1.0	15.3	79.5	0.4	3.0	0.9	2.2	0.7	24.8	100
EE	6.0	0.1	5.9	66.3	0.7	27.0	0.4	26.5		18.7	100
IE	20.8	0.1	20.7	72.8	0.7	4.8	1.6	3.1	0.9	37.3	100
EL	15.2	1.5	13.7	51.9	0.4	32.5	7.1	25.4		34.0	100
ES	16.2	2.4	13.9	64.4	0.2	19.1	2.4	16.7	0.1	41.6	100
FR	14.9	3.4	11.5	79.7	0.3	4.9	0.8	4.1	0.2	43.5	100
HR	8.5	0.5	8.0	87.8	0.7	3.1	2.1	0.9		38.0	100
IT	11.6	1.9	9.7	79.4	0.1	8.2	3.4	4.9	0.7	33.0	100
CY	26.3	0.0	26.3	51.9		21.8	0.1	21.7		42.8	100
LV	12.1	0.1	12.0	80.0	4.3	3.6	0.5	3.1		45.9	100
LT	5.4	0.0	5.4	82.1	2.7	9.3	0.2	9.1	0.5	47.7	100
LU	23.2	0.0	23.2	76.7	0.1	0.0	0.0	0.0		68.3	100
HU	5.8	0.0	5.8	92.1	0.9	0.1	0.1		1.1	28.9	100
MT	5.7	0.0	5.7	6.7		87.6	1.1	86.4		90.4	100
NL	15.4	0.0	15.4	37.9	0.1	46.5	1.2	45.3	0.1	37.9	100
AT	9.6	0.2	9.5	87.6	0.3	0.2	0.0	0.2	2.2	38.6	100
PL	4.6	0.2	4.4	92.3	0.5	1.3	0.0	1.2	1.4	20.0	100
PT	19.4	2.1	17.3	68.3	0.1	12.2	1.1	11.1		40.8	100
RO	3.1	0.9	2.2	94.4	1.5	0.9	0.7	0.3	0.0	24.1	100
SI	1.6	0.0	1.6	87.8	0.4	10.2		10.2	0.0	42.7	100
SK	2.4	0.0	2.4	92.6	1.1	0.2	0.0	0.1	3.8	21.6	100
FI	17.4	1.4	16.0	72.5	0.4	9.6	2.8	6.8	0.1	30.3	100
SE	12.1	1.9	10.2	54.1	0.2	33.1	2.6	30.4	0.6	51.8	100
UK	22.5	0.9	21.6	66.4	1.1	9.6	3.2	6.4	0.3	39.5	100
MK											
TR	16.0	3.7	12.3	79.0	0.4	4.1	0.9	3.2	0.6	22.5	100
IS	51.2	1.0	50.3	37.7		11.1	1.7	9.4		49.4	100
NO	19.1	7.8	11.4	59.0	0.3	21.6	17.1	4.5		32.8	100
CH	28.1	0.6	27.5	71.0	0.1	0.6	0.5	0.1	0.1	47.9	100

NB: (\*) Excluding international bunkers (international traffic departing from the EU).

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

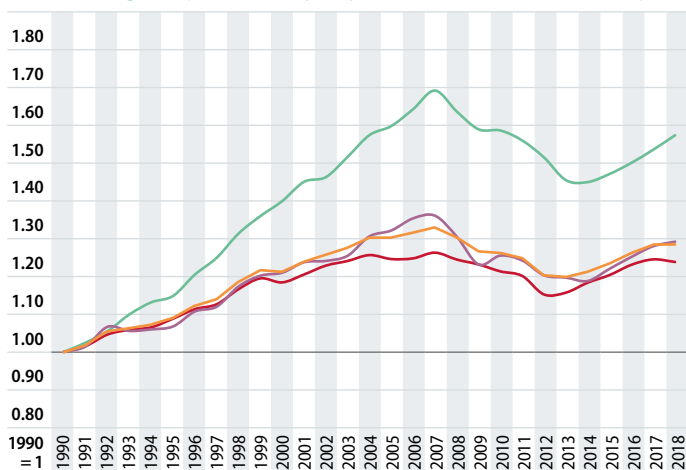
(\*\*\*) Total transport share in total emissions.

### 3.2.14. CO<sub>2</sub> emissions from road transport EU-27

BY TRANSPORT MEAN (MILLION TONNES)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	609.0	381.3	59.3	159.9	8.0	0.5	814.1	4 025.9
1995	661.9	413.8	67.9	170.4	9.5	0.2	876.4	3 818.3
2000	734.8	449.3	82.6	192.6	10.1	0.2	996.0	3 826.7
2005	786.9	472.2	94.2	210.0	10.4	0.2	1 083.8	3 995.6
2010	763.4	460.1	93.5	199.6	10.0	0.2	1 056.4	3 691.3
2011	755.4	455.6	92.0	197.6	10.0	0.2	1 049.2	3 588.5
2012	728.2	437.5	89.4	191.5	9.7	0.1	1 007.3	3 500.6
2013	725.4	439.3	85.9	190.5	9.6	0.1	995.1	3 412.3
2014	733.6	449.1	85.6	189.2	9.7	0.1	999.2	3 275.2
2015	747.3	456.5	86.8	194.2	9.6	0.1	1 016.9	3 333.1
2016	764.0	466.6	88.5	199.1	9.7	0.1	1 047.3	3 350.1
2017	775.8	471.8	90.6	203.5	9.8	0.1	1 072.2	3 385.5
2018	777.0	469.3	92.8	205.3	9.4	0.1	1 083.1	3 321.0

Cars · Light-duty trucks · Heavy-duty trucks and buses · Total road transport

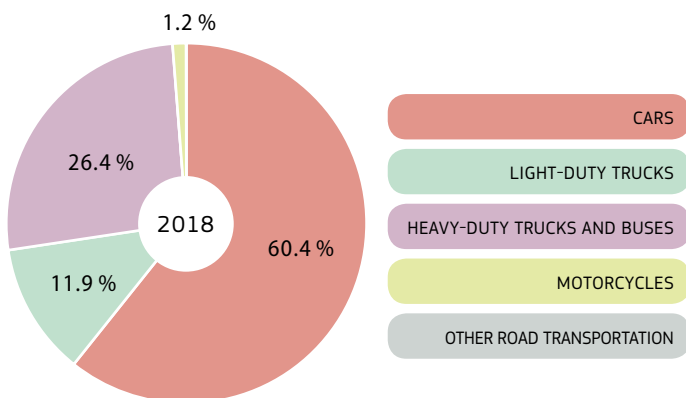


NB: (\*) Including international bunkers (international traffic departing from the EU).  
 (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

### 3.2.14. CO<sub>2</sub> emissions from road transport EU-27

BY TRANSPORT MEAN (SHARES %)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	74.8	46.8	7.3	19.6	1.0	0.1	20.2	100.0
1995	75.5	47.2	7.8	19.4	1.1	0.0	23.0	100.0
2000	73.8	45.1	8.3	19.3	1.0	0.0	26.0	100.0
2005	72.6	43.6	8.7	19.4	1.0	0.0	27.1	100.0
2010	72.3	43.6	8.9	18.9	0.9	0.0	28.6	100.0
2011	72.0	43.4	8.8	18.8	0.9	0.0	29.2	100.0
2012	72.3	43.4	8.9	19.0	1.0	0.0	28.8	100.0
2013	72.9	44.1	8.6	19.1	1.0	0.0	29.2	100.0
2014	73.4	44.9	8.6	18.9	1.0	0.0	30.5	100.0
2015	73.5	44.9	8.5	19.1	0.9	0.0	30.5	100.0
2016	72.9	44.5	8.5	19.0	0.9	0.0	31.3	100.0
2017	72.4	44.0	8.4	19.0	0.9	0.0	31.7	100.0
2018	71.7	43.3	8.6	19.0	0.9	0.0	32.6	100.0



**NB:** (\*) Including international bunkers (international traffic departing from the EU).

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF.

(\*\*\*) Total transport share in total emissions.

### 3.2.15. Oil spills at sea

#### NUMBER OF OIL SPILLS, TOTAL AMOUNT SPILT

PERIOD		Number from 7 to 700 tonnes	Number over 700 tonnes	Tonnes of oil spilt
2019		2	1	1 000
2018		3	3	116 000
2017		4	2	7 000
2016		4	1	6 000
2015		6	2	7 000
2014		4	1	5 000
2013		5	3	7 000
2012		7	0	1 000
2011		4	1	2 000
2010		5	4	12 000
2005		22	3	15 000
2000		21	4	14 000
1990–1999	average	28.1	7.7	113 400
1980–1989	per	36.0	9.4	117 500
1970–1979	year	54.3	24.5	319 500

#### SELECTED MAJOR OIL SPILLS – world outside Europe

SHIP NAME	Year	Location	Oil lost (t)
Atlantic Empress	1979	Off Tobago, West Indies	287 000
ABT Summer	1991	900 miles off Angola	260 000
Castillo de Bellver	1983	Off Saldanha Bay, South Africa	252 000
Odyssey	1988	700 miles off Nova Scotia, Canada	132 000
Sea Star	1972	Gulf of Oman	115 000
Sanchi	2018	Off Shanghai	113 000
Hawaiian Patriot	1977	300 miles off Honolulu	95 000
Khark 5	1989	Off Atlantic Coast of Morocco	70 000
Nova	1985	Off Kharg Island, Gulf of Iran	70 000
Katina P	1992	Off Maputo, Mozambique	67 000
Exxon Valdez	1989	Prince William Sound, Alaska	37 000
Hebei Spirit	2007	Taejeon, Republic of Korea	11 000

#### SELECTED MAJOR OIL SPILLS – Europe

SHIP NAME	Year	Location	Oil lost (t)
Amoco Cadiz	1978	Off Brittany, France	223 000
Haven	1991	Genoa, Italy	144 000
Torrey Canyon	1967	Scilly Isles, United Kingdom	119 000
Irenes Serenade	1980	Navarino Bay, Greece	100 000
Urquiola	1976	La Coruna, Spain	100 000
Independenta	1979	Bosphorus, Turkey	95 000
Jakob Maersk	1975	Oporto, Portugal	88 000
Braer	1993	Shetland Islands, United Kingdom	85 000
Aegean Sea	1992	La Coruna, Spain	74 000
Sea Empress	1996	Milford Haven, United Kingdom	72 000
Prestige	2002	Cape Finistere, Spain	63 000
Erika	1999	Brittany, France	20 000



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