



STATISTICAL POCKETBOOK

2021



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 (1990-2019) 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 2019; where available, more recent data have been provided.

The tables of this pocketbook can also be found on the Europa website at: https://ec.europa.eu/transport/media/media-corner/publications_en

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: <https://ec.europa.eu/eurostat/data/database>

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

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SYMBOLS AND ABBREVIATIONS

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

COUNTRY ABBREVIATIONS

EUROPEAN UNION COUNTRIES (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	Slovak Republic	2004
FI	Finland	1995
SE	Sweden	1995
OTHER EUROPEAN ECONOMIC AREA (EEA) AND IN EUROPEAN FREE TRADE ASSOCIATION (EFTA)		
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 which were members of the EU in 1994 became members of the EEA in 1994, those which joined the EU in 1995 had already been EEA members since 1994 and those which joined the EU in 2004 and 2007 became members of the EEA upon accession to the EU. Croatia joined EEA in 2014.
The former GDR is always included in **DE**; unification on 3.10.1990.

PART 1

GENERAL DATA

42.5%

875

4381.4

30.5

111.0

78.9

43.1

357.1

45.2

70.3

32.0

306.0

70.0

4.6

3.3

64.6

68.3

4.6

93.0

93.0

8.7

3.5

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

41.3

64.6

65.3

2.6

93.0

0.5

8.3

312.7

15.1

238.4

20.3

312.7

13.8

88.4

785.3

103.0

323.8

41.3

PART 1

SUMMARY

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General data

1.1

	AREA	POPULA- TION	GDP (NOMINAL)	GDP PER HEAD IN PPS	
	1 000 km ²	million	billion EUR	EU-27 = 100	
	on 1/1/2020		2019	2018	2019
EU-27	4 225.1	447.3	13 969.1	100	100
EU-28	4 469.5	513.5	16 495.7	101	101
BE	30.7	11.5	476.3	118	118
BG	111.0	7.0	61.2	51	53
CZ	78.9	10.7	224.0	92	93
DK	42.9	5.8	312.7	129	130
DE	357.6	83.2	3 449.1	123	120
EE	45.3	1.3	28.1	82	84
IE	69.9	5.0	356.1	190	193
EL	131.7	10.7	183.4	66	66
ES	506.0	47.3	1 244.8	91	91
FR	638.5	67.3	2 425.7	104	106
HR	56.6	4.1	54.2	64	65
IT	302.1	59.6	1 790.9	97	96
CY	9.3	0.9	22.3	91	89
LV	64.6	1.9	30.4	69	69
LT	65.3	2.8	48.8	81	83
LU	2.6	0.6	63.5	261	260
HU	93.0	9.8	146.1	71	73
MT	0.3	0.5	13.6	100	100
NL	37.4	17.4	810.2	130	128
AT	83.9	8.9	397.6	128	126
PL	311.9	38.0	533.6	71	73
PT	92.2	10.3	213.9	78	79
RO	238.4	19.3	223.0	65	69
SI	20.3	2.1	48.4	87	89
SK	49.0	5.5	93.9	71	70
FI	338.4	5.5	240.3	111	111
SE	447.4	10.3	476.9	120	119
UK	244.4	67.0	2 526.6	106	104
ME	13.8	0.6	5.0	48	50
MK	25.4	2.1	11.2	37	38
AL	28.7	2.8	13.8	30	31
RS	88.4	6.9	46.0	40	41
TR	780.3	83.2	679.5	63	59
IS	103.0	0.4	22.2	130	129
NO	323.8	0.0	362.2	156	147
CH	41.3	5.4	653.5	161	157

NB: CY: Area refers to the whole island.

FR: Area and population include the five French overseas departments Guadeloupe, French Guiana, Martinique, Mayotte and La Réunion.

GDP data based on ESA (European System of National and Regional Accounts) 2010 methodology.

1.2 Growth in GDP & industrial production

	GROWTH IN GDP Real growth				GROWTH IN INDUSTRIAL PRODUCTION (excl. construction)			
	% change compared to previous year							
	2016	2017	2018	2019	2016	2017	2018	2019
EU-27	2.0	2.8	2.1	1.6	1.8	3.3	1.2	-0.8
EU-28	2.0	2.6	2.0	1.6	1.7	3.3	1.0	-0.8
BE	1.3	1.6	1.8	1.8	4.5	2.9	1.1	4.9
BG	3.8	3.5	3.1	3.7	2.5	4.0	0.3	0.6
CZ	2.5	5.2	3.2	2.3	3.1	6.7	3.1	-0.4
DK	3.2	2.8	2.2	2.8	3.7	2.3	2.4	2.7
DE	2.2	2.6	1.3	0.6	1.1	3.4	1.0	-4.3
EE	3.2	5.5	4.4	5.0	3.0	4.2	4.8	6.9
IE	2.0	9.1	8.5	5.6	1.8	-2.3	-4.9	2.9
EL	-0.5	1.3	1.6	1.9	2.6	4.2	1.8	-0.7
ES	3.0	3.0	2.4	2.0	1.7	3.2	0.4	0.6
FR	1.1	2.3	1.8	1.5	0.5	2.3	0.6	0.6
HR	3.5	3.4	2.8	2.9	5.0	2.0	-1.0	0.5
IT	1.3	1.7	0.9	0.3	1.9	3.6	0.9	-1.1
CY	6.4	5.2	5.2	3.1	9.1	8.1	6.9	4.0
LV	2.4	3.3	4.0	2.0	4.7	8.7	2.0	0.8
LT	2.5	4.3	3.9	4.3	2.7	6.8	5.2	3.4
LU	4.6	1.8	3.1	2.3	-0.3	3.7	-1.1	-3.1
HU	2.1	4.3	5.4	4.6	0.7	5.4	3.8	5.6
MT	3.8	8.6	5.2	5.5	-7.3	8.7	1.5	1.1
NL	2.2	2.9	2.4	1.7	1.3	1.4	0.6	-0.9
AT	2.0	2.4	2.6	1.4	2.1	5.9	4.9	0.0
PL	3.1	4.8	5.4	4.7	3.1	6.9	5.8	4.3
PT	2.0	3.5	2.8	2.5	2.4	3.6	0.1	-2.2
RO	4.7	7.3	4.5	4.1	3.1	8.6	4.3	-3.2
SI	3.2	4.8	4.4	3.2	7.7	8.1	5.4	2.8
SK	2.1	3.0	3.7	2.5	4.6	3.3	4.3	0.5
FI	2.8	3.2	1.3	1.3	4.1	3.4	3.3	1.6
SE	2.1	2.6	2.0	2.0	1.6	4.8	2.7	2.2
UK	1.7	1.7	1.3	1.4	1.6	2.3	0.8	-1.1
ME	2.9	4.7	5.1	4.1	-2.8	-4.3	22.2	-6.0
MK	2.8	1.1	2.9	3.2	3.4	0.2	5.4	3.7
AL	3.2	3.8	4.1	2.2	-19.6	8.6	11.8	-1.1
RS	3.3	2.1	4.5	4.2	4.9	4.2	1.4	0.4
TR	3.3	7.5	3.0	0.9	3.4	9.0	1.3	-0.5
IS	6.3	4.2	4.7	2.6	-9.0	0.9	0.4	-2.6
NO	1.1	2.3	1.1	0.9	-1.5	2.0	1.2	-4.9
CH	2.0	1.6	3.0	1.1	0.1	5.4	5.4	4.4

NB: Industrial production: includes NACE Rev. 2 Sections B-D. Data adjusted by working days. Growth GDP section: data calculated according to the ESA 2010 methodology. AL, ME: national sources.

Growth industrial production section: data for the 27 Member States, UK, NO, CH, ME, MK, RS and TR provided by Eurostat. IS estimated, based on data from Organisation for Economic Cooperation and Development (OECD). AL data provided by UNECE.

Employment and unemployment 1.3

	EMPLOYMENT RATE				UNEMPLOYMENT RATE			
	%							
	2016	2017	2018	2019	2016	2017	2018	2019
EU-27	65.6	66.7	67.7	68.4	9.3	8.3	7.4	6.8
EU-28	66.6	67.6	68.6	69.3	8.7	7.8	7.0	6.4
BE	62.3	63.1	64.5	65.3	7.9	7.1	6.0	5.4
BG	63.4	66.9	67.7	70.1	7.7	6.2	5.3	4.3
CZ	72.0	73.6	74.8	75.1	4.0	2.9	2.3	2.1
DK	72.7	73.2	74.1	75.0	6.2	6.0	5.3	5.1
DE	74.7	75.2	75.9	76.7	4.2	3.8	3.5	3.2
EE	72.1	74.1	74.8	75.3	7.0	5.9	5.4	4.6
IE	66.4	67.7	68.6	69.5	8.6	6.9	5.9	5.1
EL	52.0	53.5	54.9	56.5	23.7	21.7	19.5	17.5
ES	59.5	61.1	62.4	63.3	19.7	17.3	15.4	14.2
FR	64.2	64.7	65.3	65.6	10.1	9.5	9.1	8.5
HR	56.9	58.9	60.6	62.1	13.3	11.3	8.5	6.7
IT	57.2	58.0	58.5	59.0	11.9	11.4	10.8	10.2
CY	63.7	65.6	68.6	70.5	13.2	11.3	8.6	7.3
LV	68.7	70.1	71.8	72.3	9.9	8.9	7.6	6.5
LT	69.4	70.4	72.4	73.0	8.1	7.3	6.3	6.5
LU	65.6	66.3	67.1	67.9	6.3	5.5	5.6	5.6
HU	66.5	68.2	69.2	70.1	5.1	4.2	3.7	3.5
MT	67.2	69.2	71.9	73.1	4.7	4.1	3.7	3.7
NL	74.8	75.8	77.2	78.2	6.1	4.9	3.8	3.4
AT	71.5	72.2	73.0	73.6	6.1	5.6	4.9	4.6
PL	64.5	66.1	67.4	68.2	6.2	5.0	3.9	3.3
PT	65.2	67.8	69.7	70.5	11.5	9.2	7.3	6.7
RO	61.6	63.9	64.8	65.8	6.1	5.1	4.3	4
SI	65.8	69.3	71.1	71.8	8.1	6.7	5.2	4.5
SK	64.9	66.2	67.6	68.4	9.7	8.2	6.6	5.8
FI	69.1	70.0	72.1	72.9	9.0	8.8	7.5	6.8
SE	76.2	76.9	77.4	77.1	7.1	6.9	6.5	7
UK	73.5	74.1	74.7	75.2	4.9	4.4	4.1	3.8
ME	52.0	53.1	54.7	56.0	18.0	16.4	15.5	15.4
MK	49.1	50.5	51.7	54.7	24.0	22.5	21.0	17.4
AL	55.9	57.4	59.5	61.2	15.6	14.1	12.8	12
RS	55.2	57.3	58.8	60.7	15.9	14.1	13.3	10.9
TR	50.6	51.5	52.0	50.3	11.1	11.1	11.1	14
IS	86.6	86.1	85.1	84.1	3.1	2.9	2.8	3.6
NO	74.3	74.0	74.8	75.3	4.8	4.3	3.9	3.8
CH	79.6	79.8	80.1	80.5	5.1	5.0	4.9	4.5

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 (15-64 years).

1.4

Share of gross value added
and employment – BY SECTOR

	SHARE OF GROSS VALUE ADDED (%)			SHARE OF EMPLOYMENT (%)		
	AGRI- CULTURE	INDUSTRY	SERVICES	AGRI- CULTURE	INDUSTRY	SERVICES
	2019			2019		
EU-27	1.8	25.2	73.0	4.6	22.5	72.9
EU-28	1.6	24.4	74.0	4.1	21.6	74.3
BE	0.7	21.4	77.9	1.2	17.4	81.3
BG	3.7	25.0	71.2	16.9	25.5	57.6
CZ	2.1	34.8	63.0	3.0	36.2	60.8
DK	1.5	24.2	74.3	2.4	17.3	80.4
DE	0.8	29.7	69.5	1.3	24.1	74.6
EE	2.9	25.3	71.8	3.1	27.8	69.1
IE	1.0	37.6	61.4	4.5	18.0	77.5
EL	4.4	14.9	80.8	10.9	13.3	75.8
ES	2.9	22.6	74.5	3.8	17.6	78.6
FR	1.7	19.6	78.7	2.6	16.5	80.9
HR	3.6	24.7	71.7	6.2	28.1	65.7
IT	2.1	23.8	74.0	3.7	22.8	73.6
CY	2.0	14.6	83.4	3.4	17.7	78.9
LV	4.3	21.4	74.4	7.3	23.7	69.0
LT	3.6	28.1	68.3	6.4	25.7	67.9
LU	0.2	12.5	87.3	0.8	18.4	80.9
HU	3.9	29.5	66.6	4.0	28.5	67.6
MT	0.5	14.1	85.4	1.0	16.3	82.7
NL	1.8	19.9	78.3	2.1	14.3	83.6
AT	1.2	28.6	70.2	3.3	22.8	73.9
PL	2.6	31.8	65.5	9.2	31.7	59.0
PT	2.4	21.8	75.8	7.9	23.1	69.1
RO	4.6	30.1	65.3	22.2	29.7	48.0
SI	2.3	33.0	64.7	7.0	30.1	62.9
SK	2.8	31.7	65.5	3.0	31.5	65.5
FI	2.8	27.7	69.5	3.3	22.1	74.6
SE	1.6	24.7	73.8	2.0	20.0	78.0
UK	0.7	20.0	79.4	1.2	16.1	82.7
ME	7.9	19.9	72.3	7.1	19.4	73.4
MK	9.3	27.1	63.6	13.9	31.1	55.0
AL	21.0	23.6	55.4	36.4	20.1	43.4
RS	7.2	30.9	61.9	15.6	27.4	57.0
TR	7.1	30.2	62.7	18.1	25.3	56.6
IS	4.9	22.0	73.1	3.5	19.6	76.9
NO	2.2	32.5	65.4	2.3	19.7	78.0
CH	0.7	25.5	73.8	2.6	20.7	43.4

NB: Agriculture covers agriculture, hunting, forestry and fishing.

Industry includes mining and quarrying, manufacturing, energy, gas and water supply as well as construction.

All other sectors are included in **services**.

ME, MK, RS, TR: data on employment: Eurostat [lfsa_egan2]; AL: UNECE.

Population

1.5

AT 1 JANUARY									
	million								%
	1995	2000	2005	2010	2015	2018	2019	2020	change '19/'20
EU-27	425.220	428.474	434.416	440.660	443.667	446.209	446.446	447.320	0.2
EU-28	483.163	487.259	494.598	503.171	508.520	512.482	513.094	514.345	0.2
BE	10.131	10.239	10.446	10.840	11.237	11.399	11.456	11.522	0.6
BG	8.427	8.191	7.689	7.422	7.202	7.050	7.000	6.951	-0.7
CZ	10.333	10.278	10.199	10.462	10.538	10.610	10.650	10.694	0.4
DK	5.216	5.330	5.411	5.535	5.660	5.781	5.806	5.823	0.3
DE	81.539	82.163	82.501	81.802	81.198	82.792	83.019	83.167	0.2
EE	1.448	1.401	1.359	1.333	1.315	1.319	1.325	1.329	0.3
IE	3.598	3.778	4.112	4.549	4.678	4.830	4.904	4.964	1.2
EL	10.536	10.776	10.970	11.119	10.858	10.741	10.725	10.719	-0.1
ES	39.343	40.470	43.296	46.487	46.450	46.658	46.937	47.333	0.8
FR	59.315	60.545	62.773	64.659	66.458	67.026	67.178	67.320	0.2
HR	4.659	4.498	4.311	4.303	4.225	4.105	4.076	4.058	-0.4
IT	56.844	56.924	57.875	59.190	60.796	60.484	59.817	59.641	-0.3
CY	0.645	0.690	0.733	0.819	0.847	0.864	0.876	0.888	1.4
LV	2.501	2.382	2.250	2.121	1.986	1.934	1.920	1.908	-0.6
LT	3.643	3.512	3.355	3.142	2.921	2.809	2.794	2.794	0.0
LU	0.406	0.434	0.461	0.502	0.563	0.602	0.614	0.626	2.0
HU	10.337	10.222	10.098	10.014	9.856	9.778	9.773	9.770	0.0
MT	0.369	0.389	0.403	0.414	0.440	0.476	0.494	0.515	4.3
NL	15.424	15.864	16.306	16.575	16.901	17.181	17.282	17.408	0.7
AT	7.943	8.002	8.201	8.352	8.585	8.822	8.859	8.901	0.5
PL	38.581	38.263	38.174	38.023	38.006	37.977	37.973	37.958	0.0
PT	10.009	10.249	10.495	10.573	10.375	10.291	10.277	10.296	0.2
RO	22.712	22.455	21.382	20.295	19.871	19.533	19.414	19.329	-0.4
SI	1.989	1.988	1.998	2.047	2.063	2.067	2.081	2.096	0.7
SK	5.356	5.399	5.373	5.390	5.421	5.443	5.450	5.458	0.1
FI	5.099	5.171	5.237	5.351	5.472	5.513	5.518	5.525	0.1
SE	8.816	8.861	9.011	9.341	9.747	10.120	10.230	10.328	1.0
UK	57.943	58.785	60.182	62.510	64.853	66.274	66.647	67.026	0.6
ME	0.633	0.603	0.613	0.619	0.622	0.622	0.622	0.622	0.0
MK	1.957	2.022	2.035	2.053	2.069	2.075	2.077	2.076	0.0
AL	3.249	3.058	3.135		2.886	2.870	2.862	2.846	-0.6
RS	7.625	7.528	7.456	7.307	7.114	7.001	6.964	6.927	-0.5
TR	61.204	66.889	68.010	72.561	77.696	80.811	82.004	83.155	1.4
IS	0.267	0.279	0.294	0.318	0.329	0.348	0.357	0.364	2.0
LI	0.031	0.032	0.035	0.036	0.037	0.038	0.038	0.039	1.0
NO	4.348	4.478	4.606	4.858	5.166	5.296	5.328	5.368	0.7
CH	7.019	7.164	7.415	7.786	8.238	8.484	8.545	8.606	0.7

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

FR: as from 1991, it includes the four French overseas departments and as from 2015 it includes Mayotte as well.

1.6a Member States external trade of goods

IMPORTS

YEAR 2019 (VALUE = billion EUR)

	IMPORTS FROM:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 5	EFTA	CHINA	UNITED STATES	UNITED KINGDOM	RUSSIA	JAPAN
EU-27	4950.861	3010.401	1940.460	88.284	167.795	363.429	234.951	194.307	145.044	62.986
BE	381.963	228.815	153.148	5.119	12.174	16.823	28.924	16.618	8.117	11.176
BG	33.650	20.583	13.067	3.097	0.284	1.522	0.323	0.461	3.331	0.146
CZ	159.958	118.329	41.629	1.739	1.112	14.806	3.148	3.440	2.937	1.547
DK	87.388	58.196	29.191	0.960	5.565	6.286	3.034	3.229	1.431	0.371
DE	1102.153	695.173	406.980	18.353	52.542	76.968	54.167	40.547	27.890	16.899
EE	16.111	12.215	3.896	0.109	0.217	0.651	0.172	0.369	1.382	0.065
IE	90.328	34.397	55.931	0.448	2.606	3.622	14.735	24.851	0.397	0.715
EL	55.839	28.566	27.274	2.526	0.578	4.061	1.223	1.215	4.084	0.170
ES	332.959	181.935	151.024	7.852	7.159	24.844	13.184	12.496	3.395	3.538
FR	584.682	372.629	212.053	8.105	19.332	32.101	32.921	24.668	8.265	6.146
HR	25.154	19.804	5.350	1.090	0.175	0.726	0.168	0.279	0.294	0.039
IT	424.236	241.671	182.566	12.331	12.062	31.663	17.007	10.388	14.324	4.113
CY	8.151	4.827	3.324	0.052	0.087	0.410	0.135	0.577	0.102	0.093
LV	16.941	12.697	4.244	0.121	0.160	0.510	0.152	0.460	1.169	0.028
LT	31.949	21.205	10.744	0.225	0.509	0.929	0.478	0.859	4.633	0.057
LU	21.658	18.074	3.584	0.038	0.140	1.514	0.677	0.275	0.024	0.486
HU	107.727	77.486	30.240	2.691	0.602	7.502	1.788	1.801	4.517	1.356
MT	6.312	3.334	2.978	0.225	0.048	0.255	0.119	1.314	0.012	0.057
NL	567.890	229.104	338.786	5.614	24.053	88.805	43.494	27.760	21.677	10.444
AT	165.008	125.720	39.289	2.315	6.940	5.606	4.848	2.938	2.079	1.036
PL	236.991	157.559	79.432	2.996	2.298	20.540	5.460	5.999	14.226	1.910
PT	79.977	58.990	20.987	0.985	0.495	2.953	1.477	2.102	1.093	0.398
RO	86.255	62.745	23.509	4.843	0.721	4.537	0.806	1.651	3.099	0.300
SI	39.319	24.443	14.876	3.758	3.008	2.016	0.341	0.430	0.615	0.124
SK	80.407	63.445	16.962	0.893	0.394	2.900	0.504	1.528	3.303	0.180
FI	65.848	45.401	20.447	0.425	1.692	2.301	1.417	1.590	8.928	0.323
SE	142.006	93.057	48.949	1.375	12.841	8.579	4.248	6.461	3.717	1.268

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

Member States external trade of goods 1.6b

EXPORTS

YEAR 2019 (VALUE = billion EUR)

	EXPORTS TO:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 5	EFTA	UNITED STATES	UNITED KINGDOM	CHINA	RUSSIA	JAPAN
EU-27	5203.230	3071.390	2131.840	92.569	202.355	384.689	320.021	198.498	87.760	62.628
BE	399.183	259.817	139.367	5.284	7.479	24.643	30.410	7.075	4.120	3.616
BG	29.789	19.116	10.673	3.188	0.237	0.567	0.700	0.825	0.525	0.051
CZ	177.903	141.295	36.609	2.569	3.533	4.094	8.031	2.147	3.798	0.880
DK	98.972	52.030	46.943	1.174	7.270	10.094	6.137	4.835	0.964	2.075
DE	1330.414	698.460	631.954	24.613	66.420	119.410	79.133	96.253	26.679	20.972
EE	14.390	9.870	4.520	0.156	0.688	0.974	0.294	0.168	0.865	0.080
IE	151.516	56.048	95.468	0.750	5.844	47.055	15.784	8.486	0.611	4.304
EL	33.864	17.744	16.121	3.742	0.259	1.305	1.249	0.892	0.209	0.190
ES	298.337	178.369	119.968	4.923	6.272	13.705	20.279	6.798	2.050	2.728
FR	509.948	262.092	247.856	6.762	19.801	42.440	34.757	20.960	5.628	7.742
HR	15.350	10.155	5.195	1.277	0.267	0.412	0.241	0.108	0.155	0.039
IT	480.352	245.447	234.905	11.936	28.033	45.536	25.233	12.969	7.882	7.711
CY	3.079	1.251	1.828	0.017	0.075	0.068	0.187	0.034	0.026	0.001
LV	14.035	8.714	5.320	0.175	0.404	0.213	0.731	0.163	1.979	0.058
LT	29.623	16.302	13.321	0.268	1.017	1.100	1.123	0.277	4.142	0.180
LU	14.673	11.722	2.951	0.161	0.283	0.405	0.627	0.199	0.170	0.086
HU	110.579	86.779	23.800	3.783	1.148	2.697	3.624	1.453	1.777	0.432
MT	2.686	1.441	1.246	0.024	0.026	0.116	0.052	0.036	0.006	0.127
NL	633.057	413.651	219.406	7.119	14.307	29.472	51.429	13.910	7.099	4.566
AT	159.588	108.308	51.280	2.261	8.580	9.862	4.611	4.609	2.373	1.571
PL	238.178	176.149	62.029	2.995	5.046	6.766	14.242	2.650	7.432	0.670
PT	59.903	42.367	17.535	0.614	0.828	3.036	3.629	0.602	0.194	0.151
RO	68.663	50.255	18.408	3.410	0.924	1.284	2.575	0.612	1.015	0.271
SI	40.147	28.905	11.242	2.191	2.409	0.599	0.603	0.435	0.887	0.084
SK	79.962	63.932	16.030	1.020	1.337	2.480	3.919	1.688	1.450	0.146
FI	65.615	35.919	29.697	0.760	2.551	4.937	2.683	3.552	3.660	1.536
SE	143.421	75.251	68.170	1.395	17.314	11.419	7.741	6.760	2.066	2.359

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

1.7 Comparison EU-27 – World

DATA FOR 2019

	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
Population million	446.9	328.2	126.3	1397.7	144.4
Population growth % change since previous year	0.1	0.5	-0.2	0.4	0.0
Urban population % of total	75	83	92	60	75
Area 1 000 km ²	4 225	9 832	378	9 600	17 098
Population density Persons/km ²	106	33	334	146	8
GDP (nominal) billion EUR	13 969	19 146	4 539	12 756	1 518
Real GDP growth %	1.6	2.2	0.7	5.9	1.3
Relative GDP per capita in PPS (EU-27 = 100)	100	141	91	36	63
Exports of goods billion EUR	2 132	1 476	621	2 132	375
Imports of goods billion EUR	1 940	2 248	620	1 781	227

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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Statistical overview – EU transport 2.1.1

Gross Value Added:

With around EUR 624 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 2019 ⁽¹⁾. 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 2019, the transport and storage services sector (including postal and courier activities) in the EU-27 employed around 10.5 million persons ⁽²⁾, some 5.4% of the total workforce ⁽³⁾. 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 27.5 % 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 2019, private households in the EU-27 spent EUR 964 billion or roughly 13 % of their total consumption on transport-related items.

Around 28.5 % of this sum (around EUR 274 billion) was used to purchase vehicles, around half (EUR 523 billion) was spent on the operation of personal transport equipment (e.g. to buy fuel for the car) and the rest (EUR 167 billion) was spent for transport services (e.g. bus, train, plane tickets).

Goods transport:

In 2019 total goods transport activities in the EU-27 are estimated to amount to 3392 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 52 % of this total, rail for 12 %, inland waterways for 4.1 % and oil pipelines for 3 %. Intra-EU maritime transport was the second most important mode with a share of 28.9 % while intra-EU air transport only accounted for 0.1 % of the total.

Passenger transport:

In 2019, total passenger transport activities in the EU-27 by any motorised means of transport are estimated to amount to 6 038 billion pkm or on average around 13 498 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 71.6 % of this total, powered two-wheelers for 1.9 %, buses & coaches for 8.1 %, railways for 7 % and tram and metro for 1.4 %. Intra-EU air and intra-EU maritime transport contributed for 9.7 % and 0.3 % 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 Account (2018 data).

⁽²⁾ Figures on number of persons employed in transport, total workforce and shares per mode based on Eurostat Labour Force Survey (age 15-64 years).

⁽³⁾ 4.6 % of total employment if postal and courier activities are not included.

2.1.1 Statistical overview – EU transport

Safety:

Road: 22 763 persons were killed in road accidents (fatalities within 30 days) in 2019, 2.4% less than in 2018 (when 23 331 people lost their lives). In comparison with 2001, the number of road fatalities was lower by more than half (-56 %).

Rail: 16 passengers lost their lives in 2019; this figure does not include casualties among railway employees or other people run over by trains.

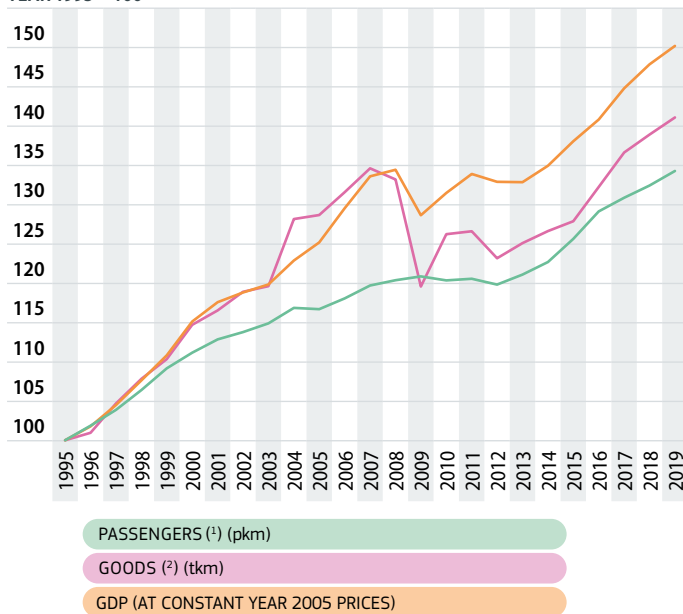
Air: No life was lost in 2020.

Transport growth – EU-27

2.1.2

PASSENGERS, GOODS, GDP 1995–2019

YEAR 1995 = 100



- NB:** (¹) Passenger cars, powered two-wheelers, buses & coaches, tram & metro, railways, intra-EU air, intra-EU sea.
 (²) 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

	1995–2019 p.a.	2000–2019 p.a.	2018–2019
GDP at year 2005 prices and exchange rates	1.7 %	1.4 %	1.6 %
Passenger transport (pkm)	1.2 %	1.0 %	1.4 %
Freight transport (tkm)	1.4 %	1.1 %	1.6 %

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	30 / 50	70 / 90 / 120	120	0.5
BG	50	90	120/140	0.5
CZ	50	90 / 110	130	0.0
DK	50	80	130	0.5
DE	50	100	(130)	0.5
EE	50	90	90	0.2
IE	50	80 / 100	120	0.5
EL	50	90	110 / 130	0.5
ES	50	80 / 90	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	40 / 50	60 / 80	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	0.3
MK	50	80 / 100	120	0.5
AL	40	80 / 90	110	0.1
RS	60	80 / 100	120	0.5
TR	50	90 / 110	120	0.5
IS	50	80 / 90	-	0.5
NO	50	80	100	0.2
CH	50	80 / 100	100 / 120	0.5

NB: UK, IE, CY and MT 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 the 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; 30 km/h in Brussels; 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, inexperienced) and professional drivers.

Road transport

MAXIMUM GROSS VEHICLE WEIGHT

2.1.4

tonnes	WEIGHT PER BEARING AXLE	WEIGHT PER DRIVE AXLE	LORRIES		ROAD TRAIN		ARTICULATED VEHICLES
			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 ⁽¹⁾	36	40	40
CZ	10	11.5	18	26 ⁽¹⁾	32	48	48
DK	10	11.5	18	24 ⁽¹⁾	38	44 ⁽²⁾	44 ⁽²⁾
DE	10	11.5	18 ^(1,2)	26 ^(1,2)	36	40	40
EE	10	11.5	18	26 ⁽¹⁾	36	40	40
IE	10	11.5	18	26	36	42 ⁽¹⁾	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 ⁽¹⁾	36	40	40 / 44
IT	12	12	18	26 ⁽¹⁾	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 ⁽²⁾	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 ⁽¹⁾	36	40	40
PT	10 ⁽⁶⁾	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 ⁽¹⁾	36	40	40
FI ⁽³⁾	10	11.5	18	28 ⁽¹⁾	36	44 ⁽⁴⁾	44 ⁽⁴⁾
SE	10	11.5	18	25 / 28	38	40 ⁽⁷⁾	44
UK	10	11.5	18	26	36	40 / 44	40 / 44
ME	10	11.5	18	26 ⁽¹⁾	36	40	40 / 44
MK	10	11.5	18	25	35 / 36	40	40
AL	10	11.5	18	26 ⁽¹⁾	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 ⁽¹⁾	36	40	44
LI	10	11.5	18	26 ⁽¹⁾	36	40	40
NO ⁽²⁾	10	11.5	19	26	39	46 / 50	46 / 50
CH	10	11.5	18	26 ⁽¹⁾	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 in case the vehicle is equipped with specific tyres or road-friendly suspensions, performing 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 International Transport Forum website.

⁽¹⁾ Only for air suspension or similar, and ABS (Anti-lock Braking System).

⁽²⁾ Under specific conditions EMS (European Modular System) combinations may have a maximum length of 25.25m and maximum mass of 60t.

⁽³⁾ For vehicles registered in an EEA member country.

⁽⁴⁾ 5 axles = 44 t; 6 axles = 56 t; 7 axles = 60 t,
 8 axles 64-68 t (restrictions for ADR), 69-76 t (not for ADR).

⁽⁵⁾ 5 axles = 46 t, 6 axles = 64 t, 7 axles = 64 t.

⁽⁶⁾ Increased values are applicable for certain types of transport.

⁽⁷⁾ On some roads the permissible maximum weight is 74 t.

2.1.5

Employment by mode of transport (*) 2018 – 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	10297.3	3 205.5	1 939.8	571.4	24.4	44.5	173.5	295.9	2 450.0	1 592.3
EU-28	11 675.8	3 496.4	2 187.0	636.8	26.0	45.7	186.9	376.6	2 872.4	1 847.8
BE	214.9	62.3	19.1	32.6	1.0	0.7	1.3	5.8	55.8	36.4
BG	173.9	73.9	30.6	11.2	0.2	0.6	0.8	2.3	34.1	20.2
CZ	293.5	131.3	41.2	26.7	0.2	0.6	0.0	2.6	52.7	38.1
DK	150.7	32.1	28.5	5.9	0.4	0.2	17.2	5.2	30.8	30.5
DE	2 375.4	452.8	495.2	46.4	2.0	10.2	22.6	64.8	735.8	545.6
EE	41.7	16.3	3.8	1.3	0.0	1.1	1.9	0.8	13.1	3.5
IE	102.1	24.1	29.0	3.2	0.2	0.3	0.8	8.5	18.2	17.6
EL	182.4	36.5	61.4	0.7	0.03	0.1	18.8	4.0	45.5	15.4
ES	919.4	342.2	192.8	15.7	0.7	0.5	8.2	32.6	235.1	91.6
FR	1 387.4	372.7	267.3	204.8	3.3	4.3	13.9	66.5	210.7	243.9
HR	81.0	23.0	15.4	3.7	0.7	0.1	4.4	1.1	21.9	10.8
IT	1 132.5	347.2	166.4	45.4	2.3	3.2	48.7	20.3	348.9	150.2
CY	19.7	2.1	3.5	0.0	0.0	0.0	0.3	0.4	11.5	1.9
LV	81.9	27.1	13.5	0.8	0.5	0.3	0.9	2.1	31.3	5.5
LT	140.8	82.4	17.2	10.2	0.1	0.1	1.1	0.9	21.8	7.0
LU	22.3	7.8	1.9	3.4	0.0	0.4	0.0	1.9	4.6	2.3
HU	255.1	81.2	52.8	19.0	0.5	0.9	0.0	1.4	63.5	35.7
MT	13.5	1.3	4.0	0.0	0.0	0.0	0.4	1.9	4.7	1.1
NL	426.6	128.8	59.3	17.1	0.1	13.4	7.8	26.4	103.1	70.5
AT	211.8	61.9	55.9	18.7	0.8	0.6	0.0	9.0	39.1	25.8
PL	909.4	458.4	141.3	50.2	5.0	1.0	2.1	4.8	148.6	98.0
PT	175.6	73.5	36.9	0.6	0.1	0.4	1.7	12.9	33.6	15.9
RO	390.1	160.8	80.4	26.9	5.9	2.1	0.3	4.6	67.9	41.1
SI	52.4	27.6	5.8	1.3	0.2	0.1	0.2	0.7	9.7	6.8
SK	117.5	50.9	16.0	7.0	0.2	0.4	0.0	0.6	25.4	17.0
FI	142.1	45.2	25.4	9.5	0.1	0.2	8.7	6.1	25.2	21.7
SE	283.8	82.2	75.2	8.9	0.0	2.7	11.5	7.6	57.3	38.4
UK	1 378.4	290.9	247.2	65.3	1.7	1.2	13.4	80.7	422.4	255.6

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 ESTAT or other official source, but are merely indicative estimates made by DG MOVE.

(**) 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.

Number of enterprises by mode of transport (*) 2018

2.1.6

	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	1206962	549291	401132	825	170	9472	9094	4339	139314	93325
EU-28	1317167	601664	414183	981	181	9732	10231	5462	159365	115368
BE	19023	8333	3617	26	34	345	143	246	3597	2682
BG	23279	13832	5835	11	2	33	50	56	2479	981
CZ	40878	31872	4039	36	2	94	3	54	4488	290
DK	11278	4953	3155	15	6	20	256	82	1471	1320
DE	108834	38321	32288	179	25	1004	912	544	20572	14988
EE	5713	3272	740	6	0	7	40	21	1475	153
IE	24876	4753	15273	12	2	34	174	94	1719	2815
EL	59684	16484	34330	7	8	22	2277	63	5368	1125
ES	196645	102151	62408	17	8	76	484	136	15604	15761
FR	134457	32283	65700	30	30	935	762	604	7456	26657
HR	9263	5437	1922	9	2	18	784	12	1005	74
IT	120158	63186	30580	21	10	1090	702	188	21862	2519
CY	3137	798	1238	0	0	0	66	3	821	211
LV	7740	3381	1155	23	2	21	58	32	2436	632
LT	18538	6200	8303	4	1	34	10	45	2511	1430
LU	996	417	243	1	0	27	0	29	214	65
HU	29729	14605	9138	34	6	117	5	76	4222	1526
MT	1766	407	882	0	0	0	108	22	306	41
NL	48397	12900	11863	55	11	4287	806	387	9495	8593
AT	14084	6329	5602	28	3	92	0	170	1334	526
PL	172850	100853	50453	136	10	405	254	774	15141	4824
PT	25592	7841	13505	4	1	49	251	91	2415	1435
RO	51922	31679	14855	95	2	162	61	80	3183	1805
SI	8685	5699	1067	8	2	51	44	115	1291	408
SK	21746	10464	5599	15	2	48	6	69	3957	1586
FI	19526	8861	7917	8	1	71	243	74	1913	438
SE	28166	13980	9425	45	0	430	595	272	2979	440
UK	110205	52373	13051	156	11	260	1137	1123	20051	22043

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

(**) 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 (*)

2018 – 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	1397368	345436	129125	70 830	13 092	8 181	118540	123215	480000	108949
EU-28	1620499	374531	152000	84 641	15 066	8 861	136390	155190	558083	135737
BE	46 572	11 945	1 248	2 590	733	209	2 958	3 523	18 847	4 520
BG	8 319	4 288	521	138	164	38	37	402	2 308	423
CZ	25 701	9 606	1 703	1 395	400	46	0.3	1 253	9 907	1 391
DK	57 962	6 269	3 304	1 069	433	167	29 935	2 898	11 807	2 081
DE	340 662	44 248	38 613	12 687	1 759	2 011	36 018	22 935	138 257	44 133
EE	5 836	1 417	160	81	0	61	447	372	3 135	164
IE	24 477	2 449	2 991	475	89	22	701	10 413	5 623	1 714
EL	14 041	2 531	1 512	98	237	2	2 142	1 386	5 258	875
ES	116 285	34 479	10 584	2 781	1 005	27	2 191	12 033	48 028	5 158
FR	216 825	49 430	25 210	24 689	752	751	19 975	20 981	60 008	15 030
HR	5 055	1 745	480	129	154	3	397	254	1 626	269
IT	161 547	50 081	12 576	8 257	3 536	488	11 329	9 303	55 803	10 173
CY	3 136	180	153	0	0	0	39	117	2 567	81
LV	5 782	1 546	208	165	39	17	87	641	2 919	160
LT	11 123	5 862	343	554	12	3	155	404	3 621	169
LU	6 589	1 443	311	185	0	295	0	2 856	762	738
HU	18 877	6 295	1 837	655	254	96	4	2 673	6 062	1 002
MT	2 364	121	137	0	0	0	80	1 121	790	116
NL	91 213	23 470	4 133	3 003	192	3 062	6 898	11 330	32 867	6 258
AT	44 312	9 547	4 887	4 591	891	122	0	3 237	17 810	3 227
PL	63 906	36 361	4 348	2 776	1 064	63	383	2 841	12 857	3 213
PT	21 864	6 027	1 437	77	103	45	430	4 865	7 908	972
RO	19 694	10 483	1 515	936	457	146	52	881	4 173	1 051
SI	6 367	3 088	291	245	43	3	34	234	2 083	347
SK	10 297	4 350	377	735	564	61	0.2	193	3 350	669
FI	23 118	6 925	1 795	887	209	19	2 042	3 294	6 117	1 830
SE	45 446	11 253	8 453	1 633	0	423	2 209	2 776	15 511	3 188
UK	223 131	29 095	22 875	13 810	1 974	680	17 851	31 975	78 083	26 788

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

(**) 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.

Final consumption of households for transport

2.1.8

BY TYPE OF EXPENDITURE – 2019

	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	964 147	273 593	523 462	167 093	13.1	2 150
EU-28	1 176 745	334 072	610 488	232 185	13.3	2 290
BE	26 191	7 240	16 354	2 597	11.2	2 280
BG	5 204	703	2 865	1 635	13.7	750
CZ	10 780	4 165	5 274	1 342	10.0	1 010
DK	17 144	5 839	9 355	1 950	12.1	2 950
DE	242 698	84 938	114 242	43 518	14.1	2 920
EE	1 595	320	965	311	11.7	1 200
IE	12 506	4 586	4 552	3 369	12.5	2 540
EL	18 041	4 320	5 772	7 949	12.9	1 680
ES	91 546	23 815	53 383	14 348	12.4	1 940
FR	178 799	43 845	102 720	32 235	14.1	2 650
HR	3 713	931	1 887	895	9.4	910
IT	140 484	34 971	84 337	21 176	12.9	2 350
CY	2 414	590	1 289	535	15.3	2 740
LV	2 202	453	1 262	487	12.1	1 150
LT	4 659	999	3 141	518	15.8	1 670
LU	3 337	1 000	2 218	120	16.0	5 370
HU	9 252	2 342	5 738	1 173	12.6	950
MT	842	223	395	225	11.5	1 670
NL	43 435	11 130	24 244	8 061	12.4	2 500
AT	24 843	6 351	13 488	5 004	12.1	2 800
PL	39 020	10 826	25 018	3 177	12.8	1 020
PT	19 298	6 824	9 948	2 526	13.2	1 880
RO	16 455	3 924	8 147	4 384	12.1	850
SI	4 500	1 312	2 918	270	17.0	2 150
SK	3 450	860	1 836	754	6.5	630
FI	13 970	3 774	7 598	2 598	11.6	2 530
SE	26 793	7 568	13 240	5 985	12.9	2 610
UK	212 740	60 805	86 785	65 150	13.8	3 180

NB: EL, FR, HR, CY, LU, HU, NL, PT, RO provisional 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
2020	105.8	103.8	104.6	104.5	105.0
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
2016	100.2	98.5	100.7	100.6	101.5
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
2020	103.3	101.9	98.0	111.8	107.0
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
2016	97.2	99.9	93.7	101.4	101.1
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
2020	104.3	101.6	105.9	102.5	106.0	107.2	106.8
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
2016	100.0	100.5	101.0	97.4	100.2	101.2	100.1
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

EU-27 External trade by mode of transport – 2019

PARTNER: EXTRA-EU-27

VALUE (BILLION EUR)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	873.6	41.0 %	1 011.2	52.1 %	1 884.9	46.3 %
Road	487.3	22.9 %	346.9	17.9 %	834.3	20.5 %
Rail	34.9	1.6 %	30.8	1.6 %	65.7	1.6 %
Inland waterway	3.4	0.2 %	3.9	0.2 %	7.3	0.2 %
Pipeline	4.7	0.2 %	73.8	3.8 %	78.4	1.9 %
Air	527.0	24.7 %	343.8	17.7 %	870.8	21.4 %
Self propulsion	65.9	3.1 %	25.0	1.3 %	90.9	2.2 %
Post	1.0	0.0 %	1.0	0.1 %	2.0	0.0 %
Unknown	134.0	6.3 %	104.1	5.4 %	238.1	5.8 %
TOTAL	2 131.8	100.0 %	1 940.5	100.0 %	4 072.3	100.0 %

WEIGHT (MILLION TONNES)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	527.2	70.3 %	1 206.1	71.3 %	1 733.3	71.0 %
Road	121.1	16.2 %	99.9	5.9 %	221.0	8.8 %
Rail	18.7	2.5 %	73.4	4.3 %	92.1	3.8 %
Inland waterway	8.3	1.1 %	9.6	0.6 %	17.9	0.7 %
Pipeline (*)	5.8	0.8 %	229.3	13.6 %	235.2	9.6 %
Air	15.7	2.1 %	4.0	0.2 %	19.7	0.8 %
Self propulsion (*)	0.7	0.1 %	1.7	0.1 %	2.4	0.1 %
Post (*)	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Unknown (**)	52.0	6.9 %	68.4	4.0 %	120.4	4.9 %
TOTAL	749.5	100.0 %	1 692.4	100.0 %	2 442.0	100.0 %

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

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

2.1.11 Environmental taxes & transport

ENERGY TAXES AS % OF GDP

(TRANSPORT FUEL TAXES) (*)

	%							RANKING IN 2019 (EU-27)
	2005	2010	2015	2016	2017	2018	2019	
EU-27		1.3	1.3	1.3	1.3	1.2	1.2	
EU-28		1.3	1.3	1.3	1.3	1.2	1.2	
BE	1.3	1.2	1.1	1.2	1.2	1.2	1.2	18
BG		2.4	2.4	2.1	2.1	1.8	1.9	5
CZ	2.2	1.9	1.7	1.7	1.6	1.6	1.5	11
DK	1.2	1.0	0.9	0.9	0.8	0.7	0.7	26
DE	1.5	1.4	1.2	1.2	1.1	1.1	1.1	22
EE	1.8	2.1	2.0	2.3	2.2	2.0	2.3	1
IE	1.2	1.3	0.9	0.9	0.8	0.7	0.7	27
EL	1.1	1.4	1.3	1.4	1.5	1.6	1.4	14
ES	1.3	1.1	1.1	1.1	1.1	1.1	1.1	21
FR	1.3	1.2	1.2	1.2	1.3	1.3	1.3	17
HR	2.2	1.9	2.3	2.3	2.3	2.2	2.0	3
IT	1.5	1.4	1.6	1.5	1.5	1.5	1.5	13
CY	1.5	1.6	2.0	2.0	1.9	1.8	1.6	8
LV	2.1	2.0	1.7	1.9	1.8	1.8	1.8	6
LT	1.7	1.7	1.6	1.7	1.7	1.7	1.7	7
LU	2.8	2.2	1.6	1.5	1.5	1.5	1.5	9
HU	1.8	1.8	1.7	1.7	1.6	1.6	1.5	12
MT	1.2	1.2	1.0	1.0	1.1	1.1	1.0	24
NL	1.2	1.2	1.1	1.1	1.1	1.1	1.0	23
AT	1.3	1.2	1.2	1.2	1.2	1.1	1.1	20
PL	1.9	1.8	1.9	2.0	2.0	2.0	1.9	4
PT	1.9	1.6	1.5	1.6	1.6	1.6	1.5	10
RO		1.5	1.7	1.7	1.4	1.4	1.4	15
SI	2.1	2.5	2.6	2.6	2.4	2.3	2.2	2
SK	2.1	1.5	1.3	1.4	1.4	1.4	1.3	16
FI	1.4	1.3	1.2	1.2	1.2	1.2	1.1	19
SE	1.3	0.9	0.8	0.8	0.8	0.8	0.7	25
UK	1.5	1.6	1.3	1.3	1.3	1.2	1.2	
ME								
MK								
AL								
RS								
TR								
IS								
NO	0.8	0.8	0.7	0.6	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.

Environmental taxes & transport 2.1.12

ENVIRONMENTAL TAXES AS % OF GDP

(TRANSPORT EXCL. FUEL) (*)

	%							RANKING IN 2019 (EU-27)
	1995	2000	2005	2010	2015	2018	2019	
EU-27			0.5	0.5	0.5	0.5	0.4	
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	0.6	9
BG	0.2	0.2	0.2	0.3	0.3	0.3	0.3	18
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	1.4	1
DE	0.4	0.3	0.4	0.3	0.3	0.3	0.3	17
EE	0.3	0.2	0.1	0.1	0.1	0.1	0.0	27
IE	1.3	1.4	1.2	0.9	0.7	0.6	0.6	11
EL	0.7	0.8	0.9	0.7	0.8	0.8	0.8	6
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	0.8	0.8	7
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	0.5	12
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	1.0	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	0.2	20
FI	0.8	1.1	1.1	0.9	0.9	0.9	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		
ME								
MK								
AL								
RS								
TR								
IS	1.1	1.7	1.6	0.2	0.4	0.5	0.3	
NO	1.4	1.2	1.4	1.2	1.0	0.8	0.7	
CH								

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

2.1.13 Environmental taxes & transport

AS % OF TOTAL TAXATION

(FUEL & OTHER TAXES) (*)

	%							RANKING IN 2019 (EU-27)
	2005	2010	2015	2016	2017	2018	2019	
EU-27		4.7	4.4	4.4	4.3	4.3	4.1	
EU-28		4.9	4.6	4.5	4.4	4.4	4.3	
BE	4.8	4.4	4.0	4.2	4.1	4.2	4.1	23
BG		10.1	9.3	8.3	8.1	7.2	7.3	2
CZ	6.8	6.3	5.4	5.4	5.0	4.7	4.5	21
DK	6.9	5.5	5.2	5.3	5.1	5.0	4.6	19
DE	5.2	4.6	3.9	3.8	3.6	3.5	3.4	26
EE	6.3	6.4	6.3	6.9	6.8	6.2	7.0	3
IE	7.8	8.0	6.8	6.7	6.2	5.8	5.5	13
EL	6.1	6.5	5.7	5.7	5.9	6.0	5.7	12
ES	4.8	4.4	4.0	4.1	4.0	3.8	3.8	24
FR	3.8	3.4	3.1	3.2	3.3	3.4	3.4	25
HR	8.9	7.5	8.3	8.3	8.3	7.8	7.4	1
IT	5.4	4.6	5.0	5.1	5.1	5.0	4.9	15
CY	9.2	7.9	8.1	8.1	7.7	7.2	5.9	9
LV	8.6	8.2	7.3	7.5	7.1	7.2	7.0	4
LT	7.4	6.2	6.0	6.1	6.1	6.1	5.8	11
LU	7.7	6.2	4.8	4.4	4.3	4.1	4.2	22
HU	6.3	6.0	5.2	5.3	5.2	5.1	4.9	16
MT	9.0	7.9	6.9	6.7	7.0	6.8	6.3	7
NL	6.8	6.6	5.8	5.5	5.5	5.5	5.2	14
AT	5.2	4.9	4.7	4.8	4.9	4.6	4.6	18
PL	6.7	6.5	6.6	6.7	6.4	6.4	6.1	8
PT	9.0	7.4	6.2	6.8	6.8	6.5	6.3	6
RO		6.9	7.0	7.4	6.2	6.0	5.9	10
SI	6.8	7.6	8.0	8.0	7.7	7.3	6.9	5
SK	7.2	6.0	4.9	5.0	4.9	4.7	4.5	20
FI	5.9	5.4	4.8	5.0	5.0	5.0	4.6	17
SE	3.6	3.1	2.9	2.9	2.7	2.9	2.8	27
UK	6.0	6.4	5.8	5.6	5.3	5.2	5.2	
ME								
MK								
AL								
RS								
TR								
IS								
NO	5.2	4.6	4.2	4.2	3.9	3.6		
CH								

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

Comparison EU-27 – World

INFRASTRUCTURE AND VEHICLES

2.1.14

TRANSPORT INFRASTRUCTURE					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
1 000 km	2019	2019	2018	2019	2019
Road network (paved)	4 409.8	4 676	1 008	4 699	1 189
Motorway network	74.0	92.5 ⁽¹⁾	9.4 ⁽²⁾	149.6	57.0 ⁽³⁾
Railway network	200.2	198.4 ⁽⁴⁾	19.1	140.0	85.5
Electrified rail lines	112.1		11.8	75.9	44.0
Navigable inland waterways	41.9	40.2		127.0	102.0
Oil pipelines	31.7	362.1		126.6 ⁽⁵⁾	70.0

VEHICLE STOCK						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2019	2019	2019	2019	2019
Passenger cars stock	million	247.4	251 ⁽⁶⁾	61.8 ⁽⁷⁾	137.0	48.4
Motorisation	cars / 1 000 persons	553	764	490	98	335
Commercial freight vehicles	million	35.61	13.09	14.19 ⁽⁸⁾	27.83	6.54

TRANSPORT SAFETY						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2019	2019	2019	2018	2019
Road fatalities	number	22 763	36 096	3 920	63 194	16 981
per million inhabitants		51	110	31	45	118

NB: ⁽¹⁾ Divided highways with four or more lanes (rural or urban interstate, freeways, expressways, arterial and collector) with full access control by the authorities.

⁽²⁾ Japan: national expressways.

⁽³⁾ Russia: roads of federal importance.

⁽⁴⁾ United States: a sum of partly overlapping networks.

⁽⁵⁾ China: both oil and gas pipelines.

⁽⁶⁾ United States: light duty vehicles, short wheel and long wheel base.

⁽⁷⁾ Japan: ordinary, small and light four-wheeled vehicles.

⁽⁸⁾ Japan: including 8.27 million light motor vehicles.

Sources: Chapter 2.5, 2.6 and 2.7, International Transport Forum (fatalities), Union internationale des chemins de fer (JP, CN), national statistics (CN, JP, RU, US), estimates (*in italics*)

2.1.15 Comparison EU-27 – World

PASSENGER AND FREIGHT TRANSPORT

PASSENGER TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion pkm	2019	2019	2018	2019	2019
Passenger car	4 325.0	7 876.7 ⁽¹⁾	5.9	885.7 ⁽²⁾	
Bus + trolley bus + coach	486.7	613.4	64.1		130.5
Railway	421.4	38.3	441.6	1 470.7	133.6
Tram + metro	87.0	24.8	⁽³⁾		51.2
Waterborne	21.1	0.9	3.2 ⁽⁴⁾	8.0	0.7
Air (domestic/intra-EU-27)	582.9	1 213.9	96.2	1 170.5	323.0

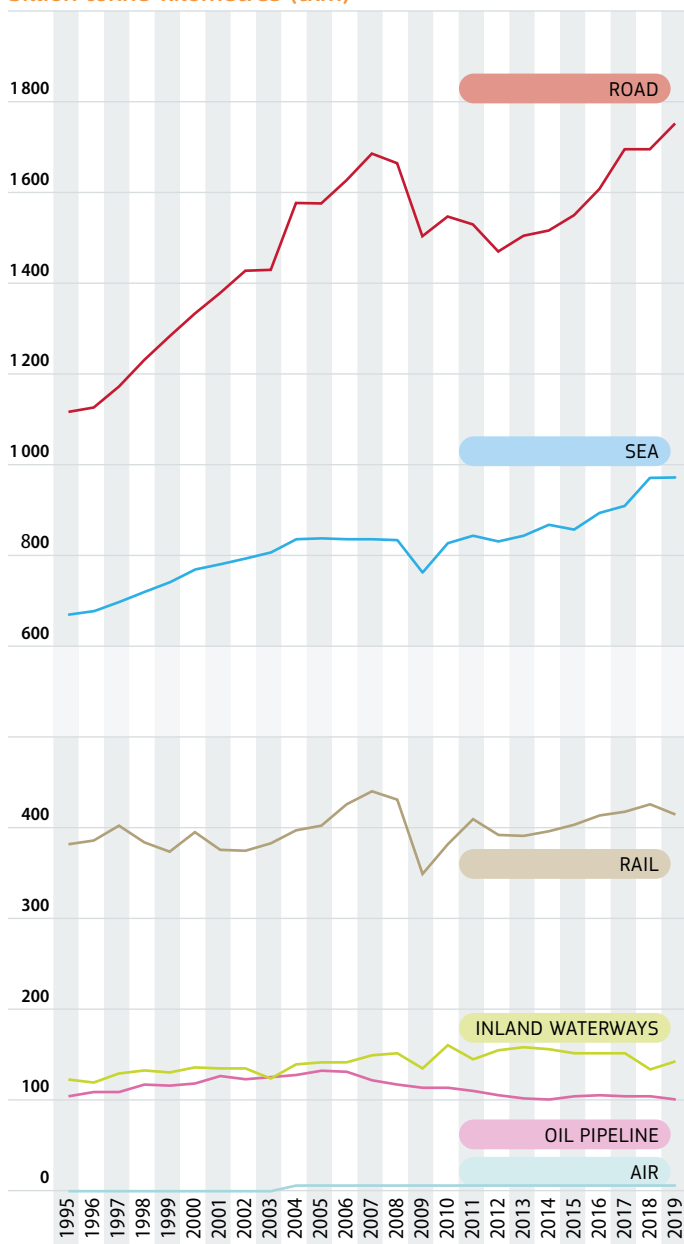
FREIGHT TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion tkm	2019	2019	2018	2019	2019
Road	1 764.2	2 969.5 ⁽⁵⁾	210.5	5 963.6	275.0
Rail	406.4	2 357.1 ⁽⁶⁾	19.4	3 018.2	2 602.0
Inland waterways	139.7	425.0			66.0
Oil pipeline	101.0	1 429.8 ⁽⁵⁾		534.9 ⁽⁷⁾	1 369.0
Sea (domestic/intra-EU-27)	978.8	239.4 ⁽⁸⁾	178.8	10 396.3 ⁽⁹⁾	37.0

- NB:** ⁽¹⁾ United States: including light trucks/vans.
⁽²⁾ China: passenger-kilometers of highways including buses and coaches.
⁽³⁾ Japan: included in railway pkm.
⁽⁴⁾ Japan: 2017 value.
⁽⁵⁾ United States: 2018 figures.
⁽⁶⁾ United States: Class I rail.
⁽⁷⁾ China: oil and gas pipelines.
⁽⁸⁾ United States: refers to coastal shipping.
⁽⁹⁾ China: both coastwise and inland waterway transport.

EU-27 Performance for freight transport 1995–2019 – BY MODE

2.2.1

billion tonne-kilometres (tkm)



2.2.2

EU-27 Performance BY MODE

FREIGHT TRANSPORT

	billion tkm						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA	AIR	TOTAL
1995	1127.2	374.8	121.9	103.8	671.4	1.4	2400
2000	1343.9	387.9	133.7	115.7	769.8	1.7	2753
2005	1588.2	394.6	138.6	126.8	844.5	1.8	3094
2010	1558.3	375.0	155.4	111.0	834.1	1.8	3036
2011	1541.6	401.1	141.8	108.3	850.1	1.9	3045
2012	1481.7	385.2	149.8	105.0	838.4	1.8	2962
2013	1516.4	384.3	152.6	102.1	851.0	1.8	3008
2014	1527.4	388.7	150.7	101.1	875.1	2.1	3045
2015	1562.0	395.9	147.4	104.1	863.6	2.1	3075
2016	1619.7	405.3	147.2	104.7	901.1	2.4	3180
2017	1707.3	408.6	147.2	104.0	916.3	2.2	3286
2018	1707.5	416.6	131.8	104.1	977.9	2.2	3340
2019	1764.2	406.4	139.7	101.0	978.8	2.3	3392
1995–2019 per year	56.5 %	8.4 %	14.6 %	-2.7 %	45.8 %	61.9 %	41.3 %
	1.9 %	0.3 %	0.6 %	-0.1 %	1.6 %	2.0 %	1.5 %
2000–2019 per year	31.3 %	4.8 %	4.5 %	-12.7 %	27.2 %	32.2 %	23.2 %
	1.4 %	0.2 %	0.2 %	-0.7 %	1.3 %	1.5 %	1.1 %
2018–2019	3.3 %	-2.5 %	6.0 %	-3.0 %	0.1 %	3.6 %	1.6 %

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	51.3	12.8	4.5	4.1	27.3	0.1	
2010	51.3	12.4	5.1	3.7	27.5	0.1	
2011	50.6	13.2	4.7	3.6	27.9	0.1	
2012	50.0	13.0	5.1	3.5	28.3	0.1	
2013	50.4	12.8	5.1	3.4	28.3	0.1	
2014	50.2	12.8	4.9	3.3	28.7	0.1	
2015	50.8	12.9	4.8	3.4	28.1	0.1	
2016	50.9	12.7	4.6	3.3	28.3	0.1	
2017	52.0	12.4	4.5	3.2	27.9	0.1	
2018	51.1	12.5	3.9	3.1	29.3	0.1	
2019	52.0	12.0	4.1	3.0	28.9	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 MOVE in line with the new EU-27 figures to avoid break in series. Following methodological changes, the times series (2005–2019) for maritime activity were backwards revised. 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.

Modal split of freight transport 2.2.3 on land 2019 – BY COUNTRY

	tkm in %			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
EU-27	73.2	16.9	5.8	4.2
EU-28	74.1	16.2	5.4	4.3
BE	75.8	10.5	11.3	2.4
BG	45.3	20.3	30.5	3.8
CZ	71.4	25.3	0.1	3.2
DK	82.9	10.8	-	6.3
DE	71.4	18.2	7.7	2.7
EE	58.0	42.0	-	-
IE	99.4	0.6	-	-
EL	97.3	2.5	-	0.2
ES	90.9	4.6	-	4.5
FR	84.8	9.3	2.4	3.5
HR	63.8	20.5	5.9	9.8
IT	83.4	11.2	0.0	5.3
CY	100.0	-	-	-
LV	25.2	70.4	-	4.3
LT	32.1	66.5	0.0	1.4
LU	85.0	6.9	8.2	-
HU	64.6	24.8	4.9	5.7
MT	100.0	-	-	-
NL	48.7	6.0	40.3	5.0
AT	59.5	27.5	2.2	10.8
PL	70.0	22.1	0.0	7.8
PT	85.0	12.7	-	2.3
RO	44.0	26.2	27.5	2.3
SI	64.5	35.5	-	-
SK	55.8	26.4	3.0	14.8
FI	72.8	26.9	0.3	-
SE	69.3	30.6	0.1	-
UK	86.1	8.7	0.1	5.1
ME				
MK				
AL				
RS				
TR				
IS				
NO	71.5	12.3	-	16.3
CH	65.4	34.2	0.1	0.3

2.2.4a

Road

NATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm								% OF TOTAL HAULAGE 2019	% CHANGE '18/'19
	1995	2000	2005	2010	2015	2018	2019		
EU-27		936.1	1 074.6	1 035.4	1 002.6	1 090.9	1 117.5	0.6	2.4
EU-28		1 086.4	1 225.8	1 173.2	1 145.4	1 242.9	1 271.9	0.6	2.3
BE	18.6	19.8	19.3	17.8	21.3	20.6	21.7	0.6	5.5
BG		3.1	5.0	6.1	7.2	7.7	5.7	0.3	-26.1
CZ		14.2	15.5	14.8	21.2	23.5	25.0	0.6	6.2
DK	9.3	11.0	11.1	10.6	12.5	12.1	12.2	0.8	0.7
DE	201.3	226.5	237.6	252.5	269.7	276.2	274.0	0.9	-0.8
EE	0.4	0.7	1.8	1.4	1.5	1.7	1.7	0.4	1.4
IE	4.7	8.3	14.0	8.2	7.8	9.4	10.0	0.8	6.4
EL	20.0	23.0	19.6	25.3	15.0	15.4	15.3	0.5	-0.7
ES	78.7	106.9	166.4	146.2	137.2	158.5	165.9	0.7	4.7
FR	135.3	163.2	177.3	164.3	141.2	161.9	162.5	0.9	0.3
HR		1.9	4.4	4.5	4.1	4.2	4.3	0.3	1.8
IT	150.3	158.3	171.6	149.2	104.1	111.7	122.5	0.9	9.6
CY		1.3	1.4	1.1	0.5	0.9	0.8	1.0	-3.9
LV		1.5	2.7	2.6	2.8	3.5	3.4	0.2	-3.2
LT		1.5	2.1	2.3	2.9	3.6	3.6	0.1	-2.4
LU	0.5	0.4	0.5	0.6	1.0	0.6	0.7	0.1	2.2
HU		12.1	11.4	11.3	10.4	13.0	13.4	0.4	3.1
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	34.3	35.1	0.5	2.2
AT	11.1	12.4	12.5	13.9	15.5	16.9	17.2	0.7	2.0
PL		48.0	60.9	82.2	104.7	114.7	119.4	0.3	4.1
PT	16.5	14.2	17.4	12.9	10.8	10.5	10.4	0.3	-1.1
RO		9.9	19.4	12.1	12.1	14.4	16.7	0.3	16.1
SI		1.9	2.4	2.3	2.1	2.3	2.3	0.1	2.2
SK		5.1	5.6	5.2	5.2	6.5	6.7	0.2	3.9
FI	21.8	27.7	27.8	25.2	21.4	26.0	26.7	0.9	2.9
SE	28.4	31.5	34.7	32.7	38.1	40.7	40.1	0.9	-1.4
UK	146.7	150.3	151.2	137.8	142.9	152.0	154.4	1.0	1.6
ME						0.0	0.1	0.7	12.5
MK			1.4	1.2	1.1	1.4	1.5	0.1	7.5
AL									
RS									
TR	112.5	161.6	166.8	190.4	244.3	266.5	267.6	1.0	0.4
IS	0.5	0.6	0.7	0.8	0.9	1.2	1.1	1.0	-5.2
NO		12.1	15.4	16.3	20.5	18.9	19.4	0.9	2.5
CH	8.4	8.9	9.2	9.6	10.4	10.7	10.6	0.9	-1.3

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

Road

2.2.4b

INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm								% OF TOTAL HAULAGE 2019	% CHANGE '18/'19
	1995	2000	2005	2010	2015	2018	2019		
EU-27		406.3	558.7	574.3	612.6	675.4	702.1	38.6	4.0
EU-28		421.6	568.8	583.2	619.8	682.5	708.5	35.8	3.8
BE	27.0	31.3	24.6	17.2	14.8	12.1	13.1	37.6	8.4
BG		3.3	9.3	13.3	25.1	19.2	14.8	72.2	-22.8
CZ		23.1	27.9	37.1	37.5	17.5	14.0	36.0	-19.9
DK	13.1	13.0	12.2	4.4	3.0	2.9	2.8	18.9	-3.3
DE	36.5	54.2	72.5	60.6	45.2	40.6	37.8	12.1	-6.9
EE	1.1	3.2	4.0	4.2	4.7	4.1	3.1	64.3	-24.6
IE	0.8	3.9	3.9	2.7	2.1	2.2	2.4	19.6	11.1
EL	4.0	4.5	4.2	4.6	4.7	13.9	12.9	45.8	-7.0
ES	22.9	41.8	66.8	63.9	72.2	80.5	83.6	33.5	3.9
FR	42.9	40.8	28.0	17.9	12.3	12.3	11.6	6.6	-5.7
HR		1.0	4.9	4.2	6.4	8.4	8.2	65.4	-2.8
IT	24.1	26.4	40.2	26.5	12.7	13.2	15.5	11.2	17.6
CY		0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.8
LV		3.3	5.7	8.0	11.9	11.5	11.6	77.6	0.7
LT		6.2	13.8	17.1	23.6	39.9	49.6	93.3	24.1
LU	5.0	7.2	8.3	8.1	6.9	6.2	6.7	91.0	9.2
HU		7.0	13.8	22.4	28.0	25.0	23.6	63.8	-5.6
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	34.6	33.3	48.7	-3.7
AT	15.4	22.7	24.5	14.7	10.0	8.8	9.2	34.8	3.9
PL		27.0	50.9	120.1	156.0	201.2	229.6	65.8	14.1
PT	15.5	12.6	25.2	22.5	21.0	22.4	20.6	66.4	-8.2
RO		4.4	32.1	13.8	27.0	44.4	44.4	72.7	-0.1
SI		3.4	8.7	13.6	15.8	20.0	21.7	90.4	8.7
SK		9.3	16.9	22.4	28.3	29.1	27.2	80.2	-6.5
FI	2.7	4.3	4.0	4.4	3.1	2.4	2.1	7.4	-12.6
SE	3.2	4.2	3.9	3.5	3.4	2.8	2.5	5.8	-11.5
UK	14.8	15.3	10.1	8.9	7.2	7.2	6.4	4.0	-10.5
ME						0.0	0.0	31.9	-7.9
MK					9.1	9.2	8.8	85.3	-4.8
AL									
RS									
TR									
IS									
NO		3.0	2.9	3.4	2.7	2.4	2.1	9.6	-14.5
CH	0.7	0.9	1.0	3.7	2.1	1.8	1.8	14.7	1.8

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

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

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 & INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm							%
	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-28	1 127.2	1 343.9	1 633.3	1 609.7	1 615.1	1 763.9	1 819.5	3.2
EU-28	1 288.7	1 509.5	1 794.6	1 756.4	1 765.2	1 923.2	1 980.4	3.0
BE	45.6	51.0	43.8	35.0	36.1	32.7	34.8	6.6
BG	5.2	6.4	14.4	19.4	32.3	27.0	20.6	-23.7
CZ	31.3	37.3	43.4	51.8	58.7	41.1	39.1	-4.9
DK	22.4	24.0	23.3	15.0	15.5	15.0	15.0	0.0
DE	237.8	280.7	310.1	313.1	314.8	316.8	311.9	-1.5
EE	1.5	3.9	5.8	5.6	6.3	5.8	4.8	-17.0
IE	5.5	12.3	17.9	10.9	9.9	11.6	12.4	7.3
EL	24.0	29.0	23.8	29.8	19.8	29.3	28.2	-3.7
ES	101.6	148.7	233.2	210.1	209.4	239.0	249.6	4.4
FR	178.2	204.0	205.3	182.2	153.6	171.9	174.1	1.3
HR		2.9	9.3	8.8	10.4	12.6	12.5	-1.3
IT	174.4	184.7	211.8	175.8	116.8	124.9	138.0	10.5
CY	1.2	1.3	1.4	1.1	0.6	0.9	0.9	-3.8
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	43.6	53.1	21.9
LU	5.5	7.6	8.8	8.7	7.8	6.8	7.4	8.5
HU	13.8	19.1	25.2	33.7	38.4	37.9	37.0	-2.6
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	68.9	68.3	-0.8
AT	26.5	35.1	37.0	28.7	25.5	25.8	26.4	2.6
PL	51.2	75.0	111.8	202.3	260.7	315.9	349.0	10.5
PT	32.0	26.8	42.6	35.4	31.8	33.0	31.0	-5.9
RO	19.7	14.3	51.5	25.9	39.0	58.8	61.0	3.9
SI	3.3	5.3	11.0	15.9	17.9	22.2	24.0	8.0
SK	15.9	14.3	22.6	27.6	33.5	35.6	33.9	-4.6
FI	24.5	32.0	31.9	29.5	24.5	28.3	28.8	1.8
SE	31.6	35.6	38.6	36.3	41.5	43.5	42.6	-2.0
UK	161.5	165.6	161.3	146.7	150.1	159.3	160.8	1.0
ME			0.1	0.2	0.1	0.1	0.1	3.8
MK			5.6	4.2	10.2	10.6	10.3	-3.5
AL	2.1	2.2	3.2	4.6	3.4	3.5	3.5	0.1
RS		0.6	0.7	1.7	3.0	6.4	8.2	26.9
TR	112.5	161.6	166.8	190.4	244.3	266.5	267.6	0.4
IS	0.5	0.6	0.7	0.8	0.9	1.2	1.1	-5.2
NO	9.7	15.1	18.2	19.8	23.1	21.3	21.5	0.6
CH	9.1	9.8	10.2	13.2	12.4	12.5	12.4	-0.8

NB: (*) Including cross-trade and cabotage.
Only haulage of heavy goods vehicles (usually >3.5 tonnes load capacity).
TR, IS: national transport only.
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.

Road – TRANSPORT PERFORMANCE 2.2.4d

ADJUSTED FOR TERRITORIALITY (*)

HAULAGE PERFORMED WITHIN THE TERRITORY OF EACH COUNTRY BY ANY VEHICLE

	billion tkm					%
	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27	1 588.2	1 558.3	1 562.0	1 707.5	1 764.2	3.3
EU-28	1 755.5	1 709.8	1 719.2	1 872.9	1 932.3	3.2
BE	46.8	45.6	50.5	50.9	52.4	2.9
BG	11.0	8.9	11.2	11.1	8.7	-21.9
CZ	32.3	32.0	42.7	43.4	45.6	5.1
DK	16.8	17.2	19.1	19.3	19.5	0.8
DE	370.8	404.9	433.1	458.6	469.3	2.3
EE	2.7	2.2	2.8	3.0	3.0	-1.2
IE	15.6	9.7	9.2	10.8	11.6	7.3
EL	21.9	27.6	17.7	19.4	19.0	-2.1
ES	210.7	184.4	178.0	203.6	212.7	4.5
FR	294.5	275.1	251.2	281.6	289.2	2.7
HR	10.5	7.9	8.2	9.5	9.0	-5.1
IT	204.0	183.6	134.0	146.3	158.3	8.2
CY	1.4	1.1	0.5	0.9	0.8	-3.9
LV	3.7	3.7	4.8	5.7	5.4	-5.4
LT	4.4	5.0	7.3	8.0	7.8	-2.0
LU	1.9	2.1	2.5	2.3	2.4	2.3
HU	22.2	21.3	22.1	27.0	27.7	2.6
MT						
NL	49.7	49.2	51.7	55.1	56.7	2.9
AT	32.4	37.9	41.4	46.3	47.1	1.7
PL	86.8	116.2	147.4	161.9	173.1	6.9
PT	23.9	18.9	16.3	16.7	16.6	-0.3
RO	32.5	15.6	16.5	19.9	22.3	11.9
SI	7.3	7.3	7.8	9.5	9.6	1.4
SK	10.5	11.8	13.9	16.5	17.2	4.0
FI	28.8	26.5	22.8	27.3	27.8	1.9
SE	45.1	42.4	49.4	52.8	51.5	-2.5
UK	167.3	151.5	157.2	165.4	168.1	1.7
ME						
MK						
AL						
RS						
TR						
IS						
NO	17.1	19.1	23.7	22.5	22.8	1.2
CH	23.0	21.6	20.8	22.1	22.3	1.1

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, exempted 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	2018	2019	CHANGE '18/'19
EU-27	374.8	387.9	394.6	375.0	395.9	416.6	406.4	-2.5
EU-28	388.1	406.0	416.0	393.5	415.2	433.8	423.3	-2.4
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	3.8	3.9	2.0
CZ	22.6	17.5	14.9	13.8	15.3	16.6	16.2	-2.3
DK	2.0	2.0	2.0	2.2	2.6	2.6	2.5	-2.7
DE	70.5	82.7	95.4	107.3	116.6	117.9	119.5	1.3
EE	3.8	8.1	10.6	6.6	3.1	2.6	2.2	-16.7
IE	0.6	0.5	0.3	0.1	0.1	0.1	0.1	-19.1
EL	0.3	0.4	0.6	0.6	0.3	0.4	0.5	20.3
ES	11.0	12.2	11.6	8.9	11.0	10.7	10.7	0.6
FR	48.3	57.7	40.7	30.0	34.3	32.0	31.8	-0.7
HR	2.0	1.8	2.8	2.6	2.2	2.7	2.9	6.1
IT	21.7	22.8	22.8	18.6	20.8	22.1	21.3	-3.4
CY	-	-	-	-	-	-	-	-
LV	9.8	13.3	19.8	17.2	18.9	17.9	15.0	-15.9
LT	7.2	8.9	12.5	13.4	14.0	16.9	16.2	-4.2
LU	0.5	0.6	0.4	0.3	0.2	0.2	0.2	-14.3
HU	8.4	8.8	9.1	8.8	10.0	10.6	10.6	0.4
MT	-	-	-	-	-	-	-	-
NL	3.1	4.5	5.9	5.9	6.5	7.0	7.0	-0.1
AT	13.2	16.6	19.0	19.8	20.3	22.0	21.7	-1.2
PL	68.2	54.0	50.0	48.7	50.6	59.4	54.6	-8.1
PT	2.0	2.2	2.4	2.3	2.7	2.8	2.5	-10.4
RO	17.9	16.4	16.6	12.4	13.7	13.1	13.3	1.8
SI	3.1	2.9	3.2	3.4	4.2	5.2	5.3	2.7
SK	13.8	11.2	9.5	8.1	8.4	8.4	8.1	-2.9
FI	9.6	10.1	9.7	9.8	8.5	11.2	10.3	-8.1
SE	19.4	19.5	21.7	23.5	20.7	23.4	22.7	-2.7
UK	13.3	18.1	21.4	18.6	19.3	17.2	16.9	-1.9
ME				0.2	0.1	0.1	0.1	15.0
MK		0.5	0.5	0.5	0.3	0.3	0.4	14.0
AL	0.1	0.0	0.0	0.1	0.0	0.0	0.0	115.0
RS				3.5	3.2	3.9	2.9	-27.2
TR	8.5	9.8	9.1	11.3	10.2	12.6	14.7	16.4
IS	-	-	-	-	-	-	-	-
NO	2.7	3.0	3.2	3.5	3.5	4.0	3.9	-1.7
CH	8.9	11.1	11.7	11.1	12.4	11.8	11.7	-0.9

NB: DE: data revision for the reference years 2016 to 2019.

Inland waterways

2.2.6

billion tkm								%
	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27	121.9	133.7	138.6	155.4	147.4	131.8	139.7	6.0
EU-28	122.1	133.9	138.8	155.5	147.5	131.9	139.9	6.1
BE	5.7	7.2	8.6	9.1	10.4	8.5	7.8	-7.7
BG	0.5	0.3	0.8	6.0	5.6	4.9	5.9	20.8
CZ	0.3	0.1	0.1	0.0	0.0	0.0	0.0	39.1
DK	-	-	-	-	-	-	-	-
DE	64.0	66.5	64.1	62.3	55.3	46.9	50.9	8.6
EE	0.0	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6.6	9.1	8.9	9.5	8.5	7.3	8.0	10.3
HR	0.0	0.1	0.1	0.9	0.9	0.7	0.8	23.2
IT	0.1	0.2	0.1	0.1	0.1	0.1	0.1	-25.7
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	11.2
HU	1.2	0.9	2.1	2.4	1.8	1.6	2.1	31.8
MT	-	-	-	-	-	-	-	-
NL	35.5	41.3	42.2	46.6	48.5	46.9	47.0	0.2
AT	2.0	2.4	1.8	2.4	1.8	1.5	1.7	15.2
PL	0.9	1.2	0.3	0.1	0.1	0.1	0.1	-30.4
PT	-	-	-	-	-	-	-	-
RO	3.1	2.6	8.4	14.3	13.2	12.3	14.0	13.8
SI	-	-	-	-	-	-	-	-
SK	1.5	1.4	0.7	1.2	0.7	0.8	0.9	20.4
FI	0.1	0.1	0.1	0.1	0.1	0.1	0.1	3.6
SE	-	-	-	-	-	0.0	0.0	14.0
UK	0.2	0.2	0.2	0.2	0.1	0.1	0.2	101.1
ME	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-
AL	-	-	-	-	-	-	-	-
RS	0.3	1.0	1.6	0.9	0.9	0.6	0.7	25.3
TR	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	0.0	0.1	0.0	0.0	0.0	0.0	0.0	30.3

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	2018	2019	CHANGE '18/'19
EU-27	103.8	115.7	126.8	111.0	104.1	104.1	101.0	-3.0
EU-28	114.9	127.1	137.6	121.1	114.1	114.1	111.0	-2.7
BE	1.4	1.6	1.5	1.5	1.6	1.6	1.6	-0.1
BG	0.4	0.4	0.4	0.4	0.7	0.7	0.7	9.6
CZ	2.3	1.6	2.3	2.2	2.0	2.1	2.1	-2.7
DK	3.1	4.7	5.1	3.5	2.3	2.1	1.5	-28.0
DE	14.8	15.0	16.7	16.3	17.7	17.2	17.6	2.4
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	0.2	0.2	0.0	0.0	0.0	-0.6
ES	5.9	7.5	9.2	8.2	10.1	9.9	10.5	5.2
FR	22.3	21.7	20.9	17.6	11.4	12.4	11.8	-5.2
HR		0.4	1.5	1.3	1.4	2.0	1.4	-30.0
IT	9.7	10.3	11.4	10.4	9.2	10.3	10.1	-2.2
CY	-	-	-	-	-	-	-	-
LV	5.3	6.5	3.4	2.4	2.0	1.1	0.9	-16.7
LT	2.0	3.5	4.4	0.6	0.5	0.3	0.3	0.9
LU	-	-	-	-	-	-	-	-
HU	2.2	2.3	2.7	3.2	2.5	2.5	2.5	-1.8
MT	-	-	-	-	-	-	-	-
NL	5.3	5.9	5.9	5.6	6.0	5.5	5.8	5.5
AT	6.8	7.6	7.8	7.0	8.5	8.6	8.6	-0.1
PL	13.5	20.4	25.4	24.2	21.8	21.3	19.4	-9.0
PT	-	0.5	0.5	0.4	0.4	0.4	0.5	2.8
RO	2.9	1.4	2.2	1.0	1.0	1.1	1.2	8.1
SI	-	-	-	-	-	-	-	-
SK	6.1	4.6	5.3	5.0	5.0	4.8	4.6	-5.0
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
UK	11.1	11.4	10.8	10.2	10.0	10.0	10.0	0.0
ME	-	-	0.1	0.1	0.0	0.01	0.04	200.0
MK	-	-	-	-	-	-	-	-
AL	-	-	-	-	-	-	-	-
RS	-	-	-	0.4	0.4	1.1	0.9	-11.6
TR	3.2	53.1	5.7	39.6	52.5	38.7	54.2	40.3
IS	-	-	-	-	-	-	-	-
NO	5.3	3.5	4.6	3.5	3.4	4.5	5.2	14.8
CH	1.2	0.2	0.2	0.2	0.1	0.1	0.1	-6.3

NB: Data are not harmonised and therefore not fully comparable; in most countries, only pipelines longer than 40km 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.

United States

2.2.8

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
2019	2 969.5	2 357.1	425.0	1 429.8	7 181.4

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	1.5	-6.1	-5.1	3.3	-1.5
2016	3.8	-8.8	-2.8	-1.5	-2.0
2017	-1.8	5.6	2.2	2.8	1.7
2018	0.5	3.3	1.8	9.6	3.2
2019	-0.2	-6.7	-8.2	-4.4	-3.7
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
2011-2019	-3.2	-0.9	-1.1	-0.5	-1.8

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.

Sources: US Department of Transportation,
International Transport Forum, estimates (*in italics*)

2.2.8

United States

MODAL SPLIT – FREIGHT TRANSPORT

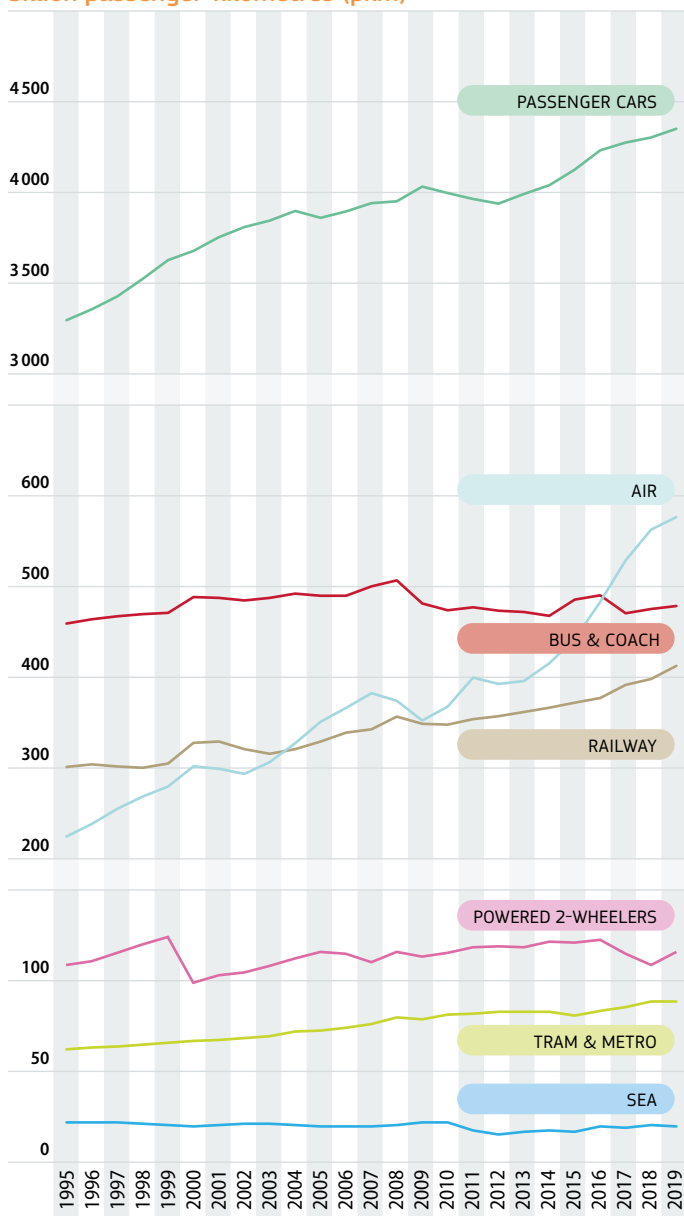
	%			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
1990	41.0	25.5	8.5	25.0
1991	41.9	25.0	8.3	24.8
1992	41.7	25.6	8.2	24.5
1993	42.4	25.8	7.7	24.0
1994	43.0	26.4	7.7	22.8
1995	43.0	27.2	7.6	22.2
1996	43.0	27.7	7.1	22.2
1997	44.0	27.4	7.0	21.6
1998	44.3	28.2	6.9	20.6
1999	44.4	29.1	7.0	19.5
2000	44.7	29.7	6.9	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
2019	41.3	32.8	5.9	19.9

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.

EU-27 Performance for passenger transport 1995-2019 – BY MODE

2.3.1

billion passenger-kilometres (pkm)



2.3.2

EU-27 Performance BY MODE

PASSENGER TRANSPORT

	billion pkm							
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA	TOTAL
1995	3283.8	108.2	468.0	312.7	63.8	237.2	26.3	4500
2000	3660.4	99.2	496.5	338.6	67.8	313.3	24.7	5001
2005	3839.2	114.6	497.8	339.8	73.2	361.3	21.3	5247
2010	3975.9	113.8	482.2	358.3	80.7	377.9	22.5	5411
2011	3943.6	116.9	485.6	364.1	81.1	409.2	20.0	5420
2012	3919.0	114.1	481.6	367.3	82.2	402.1	18.5	5385
2013	3969.3	113.7	480.5	371.8	82.0	405.4	19.3	5442
2014	4018.5	116.4	476.2	376.3	82.2	424.7	19.7	5514
2015	4104.0	116.2	493.4	381.7	80.2	450.9	19.4	5646
2016	4206.8	117.4	498.3	386.6	82.6	491.0	21.3	5804
2017	4250.0	110.9	479.0	400.8	84.2	536.0	20.6	5881
2018	4276.9	105.5	483.8	407.3	86.8	569.2	21.7	5951
2019	4325.0	114.2	486.7	421.4	87.0	582.9	21.1	6038
'95/'19	31.7%	5.6%	4.0%	34.8%	36.3%	145.7%	-19.7%	34.2%
/year	1.2%	0.2%	0.2%	1.3%	1.3%	3.8%	-0.9%	1.2%
'00/'19	18.2%	15.1%	-2.0%	24.5%	28.2%	86.0%	-14.5%	20.8%
/year	0.9%	0.7%	-0.1%	1.2%	1.3%	3.3%	-0.8%	1.0%
'18/'19	1.1%	8.2%	0.6%	3.5%	0.2%	2.4%	-2.7%	1.5%

MODAL SPLIT

	%						
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & 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	73.2	2.2	9.5	6.5	1.4	6.9	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	72.8	2.1	8.9	6.8	1.5	7.5	0.3
2013	72.9	2.1	8.8	6.8	1.5	7.4	0.4
2014	72.9	2.1	8.6	6.8	1.5	7.7	0.4
2015	72.7	2.1	8.7	6.8	1.4	8.0	0.3
2016	72.5	2.0	8.6	6.7	1.4	8.5	0.4
2017	72.3	1.9	8.1	6.8	1.4	9.1	0.3
2018	71.9	1.8	8.1	6.8	1.5	9.6	0.4
2019	71.6	1.9	8.1	7.0	1.4	9.7	0.3

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 MOVE in line with the new EU-27 figures to avoid break in series. Following change in the methodology, time series on maritime activity was revised.

P2W: Powered two-wheelers.

Modal split of passenger transport 2.3.3 on land 2019 – BY COUNTRY

pkm as %				
	PASSENGER CARS	BUSES & COACHES	RAILWAYS	TRAM & METRO
EU-27	81.3	9.1	7.9	1.6
EU-28	82.0	8.4	8.0	1.6
BE	80.4	10.2	8.3	1.1
BG	81.3	15.1	2.1	1.5
CZ	67.0	14.8	9.0	9.2
DK	82.2	9.1	8.2	0.5
DE	83.4	5.7	9.3	1.6
EE	79.5	17.5	2.2	0.8
IE	81.5	14.8	3.3	0.4
EL	81.9	15.8	1.0	1.3
ES	83.0	8.1	7.0	2.0
FR	82.0	6.2	10.6	1.2
HR	82.7	13.1	2.4	1.8
IT	81.4	11.4	6.3	0.8
CY	81.5	18.5	-	-
LV	84.0	11.9	3.5	0.7
LT	90.6	8.4	1.0	-
LU	82.4	12.5	4.8	0.3
HU	69.6	19.5	8.0	2.9
MT	82.9	17.1	-	-
NL	85.1	3.1	11.2	0.6
AT	71.7	9.4	12.1	6.7
PL	79.6	11.8	7.2	1.4
PT	87.3	7.1	4.5	1.1
RO	74.6	18.0	4.0	3.3
SI	86.6	11.7	1.8	-
SK	73.3	15.8	10.1	0.7
FI	83.2	9.8	6.1	0.8
SE	80.7	7.1	10.3	1.9
UK	86.1	4.0	8.4	1.6
ME	96.6	2.1	1.2	-
MK	87.4	11.9	0.7	-
AL	89.6	10.4	0.0	-
RS	73.8	24.0	0.7	1.5
TR	71.0	25.7	3.3	0.0
IS	88.8	11.2	-	-
NO	87.8	5.9	5.0	1.3
CH	76.9	5.1	17.1	0.9

NB: If powered two-wheelers are included, they account for 2.1 % of the total in EU-27, while the share of the other modes becomes:

EU-27	79.6	9.0	7.8	1.6
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2.3.4

Passenger cars

billion pkm									%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27		3 283.8	3 660.4	3 839.2	3 975.9	4 104.0	4 276.9	4 325.0	1.1
EU-28		3 901.7	4 298.9	4 505.9	4 626.9	4 786.0	4 998.4	5 062.6	1.3
BE	89.5	96.4	102.5	102.8	109.4	107.0	107.3	107.4	0.1
BG		25.0	26.9	35.1	46.9	56.8	57.2	58.1	1.5
CZ		54.5	63.9	68.6	63.6	69.7	78.0	81.2	4.1
DK	47.2	48.4	50.6	49.8	51.7	56.8	61.2	62.5	2.1
DE	683.1	815.3	831.3	856.9	887.0	927.0	898.6	902.3	0.4
EE		5.1	6.7	9.9	10.1	12.3	13.3	14.1	5.7
IE	28.5	31.6	34.6	44.4	48.1	51.9	57.2	58.7	2.7
EL	35.0	44.0	63.0	85.0	99.6	98.3	103.4	105.3	1.8
ES	174.4	250.4	302.6	337.8	341.6	317.6	340.6	342.0	0.4
FR	592.5	641.2	687.7	704.6	695.9	775.7	789.9	787.3	-0.3
HR		12.5	20.0	24.0	25.7	26.4	25.6	25.4	-0.9
IT	522.6	614.7	713.9	677.0	698.4	676.4	722.9	732.4	1.3
CY		3.4	3.9	4.8	5.9	6.2	6.8	7.0	3.5
LV		7.5	11.5	12.1	12.3	13.5	15.3	15.5	1.6
LT		16.0	26.0	34.8	32.6	24.9	30.1	31.4	4.3
LU	4.0	4.7	5.6	6.3	6.5	7.3	7.8	8.0	2.2
HU	47.0	45.4	46.2	49.4	52.6	54.6	63.9	67.0	4.8
MT		1.7	1.8	2.0	2.2	2.5	2.7	2.7	1.8
NL	137.3	131.4	141.1	148.8	144.2	139.5	144.7	146.5	1.2
AT	53.7	59.4	64.7	68.5	68.4	72.9	78.5	79.1	0.7
PL		110.7	130.1	152.3	188.8	200.6	233.8	244.5	4.5
PT	40.0	52.5	71.0	85.0	83.7	84.5	95.5	98.0	2.7
RO		40.0	51.0	61.0	75.5	89.9	103.8	110.5	6.5
SI	13.3	16.3	20.3	22.5	25.6	26.0	27.5	27.9	1.4
SK		18.0	23.9	25.8	26.9	27.5	28.5	28.6	0.5
FI	51.2	50.0	55.7	61.9	64.7	66.3	66.8	66.8	0.0
SE	85.9	87.6	103.7	108.0	108.0	111.9	116.0	114.5	-1.3
UK	588.0	617.9	638.6	666.7	651.1	682.0	721.4	737.6	2.2
ME					4.1	4.1	4.9	5.1	5.1
MK			4.8	4.0	4.7	7.0	7.5	7.7	2.7
AL		4.8	5.1	6.6	5.5	9.1	10.9	11.8	8.1
RS					30.6	28.6	30.2	31.3	3.7
TR	34.3	52.7	79.0	100.0	137.9	199.9	229.4	240.5	4.8
IS		3.0	3.8	4.6	5.0	5.6	7.3	7.4	0.4
NO	43.5	44.7	51.2	54.0	58.8	64.7	66.8	67.2	0.6
CH	73.3	69.6	75.0	77.8	85.9	92.0	96.9	97.9	1.0

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: passenger-km include transport activity on the territory of vehicles not registered in France. Includes foreign vans. Due to change in the methodology data revision back to 2012.

UK: data refer to Great Britain only; include pkm by vans. Road estimates for the period 2010-2018 have been revised.

DE: includes DE-E: 1990 = 90.3. In 2021 revision of 2017 and 2018 data. 2019 provisional figures.

CH: includes activity of foreign vehicles in the country.

Buses & coaches

2.3.5

billion pkm									%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27		468.0	496.5	497.8	482.2	493.4	483.8	486.7	0.6
EU-28		512.8	544.5	541.7	528.4	534.3	520.6	520.8	0.0
BE	11.4	13.1	13.3	17.5	17.4	14.4	13.5	13.7	1.2
BG	26.0	11.6	14.6	13.7	10.6	12.5	9.9	10.8	9.6
CZ		18.6	16.2	15.6	17.0	16.3	18.1	18.0	-0.8
DK	6.4	7.3	7.4	7.2	6.8	6.9	7.1	6.9	-2.5
DE	73.1	68.5	69.0	67.1	61.8	65.1	62.5	61.4	-1.8
EE	4.5	2.0	2.6	2.7	2.1	3.1	2.8	3.1	11.2
IE	3.9	5.2	7.0	7.9	8.5	8.5	10.5	10.7	1.6
EL	17.7	20.2	21.7	21.7	21.1	21.1	20.5	20.3	-1.1
ES	33.4	39.6	50.3	53.2	50.9	46.4	32.2	33.3	3.3
FR	52.3	53.2	49.6	50.1	54.0	58.0	60.0	59.8	-0.3
HR	7.0	4.1	3.3	3.4	3.2	3.4	3.8	4.0	4.7
IT	84.0	87.1	93.4	101.0	102.2	102.5	103.0	102.9	0.0
CY		1.0	1.1	1.3	1.3	1.4	1.6	1.6	0.8
LV	5.9	1.8	2.3	2.9	2.3	2.2	2.2	2.2	1.6
LT	7.9	4.2	2.8	3.7	2.7	2.7	2.8	2.9	2.2
LU	0.5	0.5	0.6	0.8	0.9	1.1	1.2	1.2	4.2
HU	19.3	16.6	18.7	17.8	16.5	17.8	18.9	18.8	-0.5
MT		0.4	0.5	0.5	0.5	0.5	0.6	0.6	-1.4
NL	13.0	12.0	4.6	4.8	4.8	4.9	5.3	5.3	0.2
AT	5.7	7.1	9.0	9.2	8.6	9.1	10.3	10.4	1.4
PL	46.3	34.0	59.2	49.2	41.7	37.6	34.5	36.2	4.9
PT	10.3	11.3	11.8	6.4	6.1	6.6	7.9	7.9	0.2
RO	24.0	12.3	7.7	11.8	15.8	24.9	26.7	26.7	-0.1
SI	6.5	4.1	3.5	3.1	3.2	3.6	3.8	3.8	0.4
SK		14.4	9.3	8.5	5.3	5.4	6.2	6.2	-0.8
FI	8.5	8.0	7.7	7.5	7.5	7.5	8.0	7.9	-1.3
SE	9.7	9.7	9.2	9.3	9.4	9.8	10.0	10.1	0.8
UK	47.1	44.8	48.0	44.0	46.2	40.9	36.8	34.1	-7.2
ME					0.1	0.1	0.1	0.1	-0.9
MK		0.9	0.9	1.1	1.4	1.2	1.3	1.0	-18.2
AL	2.2	0.2	0.2	0.3	2.4	1.2	1.3	1.4	3.5
RS					9.4	9.4	10	10	-2.5
TR		85.7	87.4	95.0	89.1	90.8	88.3	87.1	-1.3
IS		0.4	0.5	0.6	0.6	0.7	0.9	0.9	-1.5
NO	3.9	3.8	4.1	4.3	4.5	4.1	4.3	4.6	5.9
CH	3.3	5.5	4.8	5.3	5.5	6.0	6.3	6.5	4.3

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 the Île-de-France until 2000. It also includes occasional bus transport in the territory of France performed by foreign buses.
In 2020 revision of data from 2012 onwards following change in the methodology.
AT: the times series includes an estimate for trolleybuses.
UK: GB data +1.5 bln pkm throughout to account for Northern Ireland. Road estimates for the period 2010-2018 have been revised.
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.
NO: includes scheduled bus transport; 2015-2018 data were adjusted in 2020 due to changes in the underlying statistics.
SE: 2019 time series break due to change in the methodology.
RO: includes interurban and international road transport, local public transport by buses and minibuses, and trolleybuses (since 2015). Data for 2019 for buses and minibuses and trolleybuses are provisional and don't include pensioners residents in Bucharest.

2.3.6

Tram & metro

billion pkm									%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27		63.8	67.8	73.2	80.7	80.2	86.9	87.0	0.0
EU-28		70.6	76.2	81.8	90.9	93.4	101.0	100.6	-0.4
BE	0.7	0.8	0.9	0.9	1.1	1.2	1.4	1.5	3.3
BG	0.6	0.3	0.4	0.4	0.9	0.7	1.1	1.1	-2.9
CZ		7.7	8.1	7.9	9.0	9.4	10.7	11.1	3.4
DK	-	-	-	0.2	0.2	0.3	0.4	0.4	13.6
DE	15.1	14.4	14.6	15.5	16.3	16.7	17.6	17.6	0.0
EE		0.1	0.1	0.1	0.2	0.2	0.1	0.1	2.8
IE	-	-	-	0.1	0.1	0.2	0.3	0.3	-3.8
EL	0.8	0.7	1.2	1.5	1.7	1.7	1.7	1.7	-1.1
ES	4.4	4.3	5.2	6.0	7.6	7.2	8.9	8.2	-7.8
FR	6.8	6.2	7.7	9.4	9.8	10.5	11.5	11.4	-1.1
HR		0.5	0.5	0.5	0.5	0.6	0.6	0.6	-4.5
IT	4.2	5.2	5.6	6.0	7.1	6.8	7.3	7.4	1.6
CY	-	-	-	-	-	-	-	-	-
LV	0.7	0.3	0.3	0.3	0.1	0.1	0.1	0.1	-3.5
LT	-	-	-	-	-	-	-	-	-
LU	-	-	-	-	-	-	0.0	0.0	60.0
HU		2.5	2.6	2.4	2.5	2.9	2.7	2.8	3.7
MT	-	-	-	-	-	-	-	-	-
NL	1.3	1.4	0.7	0.7	0.9	0.9	1.0	1.0	0.2
AT	4.2	5.1	6.0	6.4	6.9	7.2	7.2	7.4	2.5
PL		5.0	4.7	4.4	4.3	4.2	4.4	4.4	1.7
PT	0.7	0.5	0.5	0.8	1.1	1.0	1.2	1.3	9.8
RO		6.0	6.0	6.6	7.1	4.9	5.0	4.9	-1.4
SI	-	-	-	-	-	-	-	-	-
SK		0.4	0.4	0.4	0.3	0.3	0.3	0.3	-0.8
FI	0.4	0.4	0.5	0.5	0.5	0.5	0.7	0.7	-0.3
SE	2.0	1.9	2.0	2.0	2.3	2.5	2.7	2.7	-1.2
UK	6.5	6.8	8.3	8.7	10.2	13.2	14.1	13.6	-3.2
ME	-	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-	-
AL	-	-	-	-	-	-	-	-	-
RS					0.4	0.4	0.6	0.6	-0.6
TR									
IS	-	-	-	-	-	-	-	-	-
NO	0.4	0.4	0.5	0.5	0.6	0.8	1.0	1.0	0.5
CH		1.5	1.4	0.8	1.0	1.2	1.2	1.2	0.9

NB: Data are not harmonised and therefore not fully comparable across countries.

Data for 2017 are mostly provisional.

BE: Data used for the estimations were revised as of 2018 due to change in the methodology.

FR: include metro & tramways in Île-de-France (as of 2000) and metro in other French cities.

In 2020 revision of data from 2012 onwards following change in the methodology.

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: it includes regional rail transport activity.

NL: the time series from 2010 estimates the share of tram & metro over the aggregate 'bus/tram/metro' published in the OVIN Travel Survey. Previous years' estimates have been retrofitted until 2010.

RO: new methodology for 2015-2019 data.

Railways

2.3.7

	billion pkm							% UNDER PSO (*) 2019	% CHANGE '18/'19
	1995	2000	2005	2010	2015	2018	2019		
EU-27	312.7	338.6	339.8	358.3	381.7	407.3	421.4	58.9	3.5
EU-28	342.9	377.0	384.5	414.1	448.3	477.0	493.2		3.4
BE	6.8	7.7	8.5	10.6	10.3	10.7	11.1	89.7	3.3
BG	4.7	3.5	2.4	2.1	1.5	1.5	1.5	98.1	3.0
CZ	8.0	7.3	6.7	6.6	8.1	10.2	10.9	86.4	6.2
DK	4.9	5.5	6.0	6.3	6.5	6.2	6.2	100.0	0.5
DE	71.0	75.4	76.8	83.9	91.7	98.2	100.4	56.1	2.2
EE	0.4	0.3	0.2	0.2	0.3	0.4	0.4	94.8	-6.0
IE	1.3	1.4	1.8	1.7	1.9	2.3	2.4	100.0	5.2
EL	1.6	1.9	1.9	1.4	1.3	1.1	1.3	98.0	13.4
ES	16.6	20.1	21.6	22.5	26.1	28.4	28.8	42.5	1.5
FR	46.8	74.9	82.3	92.4	94.7	97.1	102.1	40.1	5.1
HR	1.1	1.3	1.2	1.7	0.9	0.7	0.7	98.6	-3.1
IT	46.7	49.6	50.1	47.2	52.2	55.5	56.6	55.5	2.0
CY	-	-	-	-	-	-	-	-	-
LV	1.4	0.7	0.9	0.7	0.6	0.6	0.6	93.7	3.0
LT	1.1	0.6	0.3	0.2	0.3	0.4	0.4	71.2	1.4
LU	0.3	0.3	0.3	0.3	0.4	0.4	0.5	100.0	4.5
HU	8.4	9.7	9.9	7.7	7.6	7.8	7.8	99.3	-0.2
MT	-	-	-	-	-	-	-	-	-
NL	16.4	14.7	15.2	16.9	17.5	18.9	19.4	100.0	2.4
AT	10.1	8.7	8.7	10.3	12.2	13.2	13.4	64.9	1.4
PL	26.6	24.1	18.2	17.9	17.4	21.0	22.1	88.7	4.8
PT	4.8	4.0	3.8	4.1	4.0	4.6	5.1	10.5	10.6
RO	18.9	11.6	8.0	5.4	5.1	5.6	5.9		5.9
SI	0.6	0.7	0.7	0.7	0.6	0.6	0.6	98.6	0.7
SK	4.2	2.9	2.2	2.3	3.4	3.8	4.0	74.0	4.4
FI	3.2	3.4	3.5	4.0	4.1	4.5	4.9	96.6	8.6
SE	6.8	8.2	8.9	11.2	12.7	13.5	14.6	53.0	7.9
UK	30.3	38.4	44.6	55.8	66.6	69.7	71.8	96.9	3.0
ME				0.1	0.1	0.1	0.1		-1.5
MK	0.1	0.1	0.1	0.2	0.2	0.1	0.1		-1.6
AL	0.2	0.1	0.1	0.0	0.0	0.0	0.0		-25.9
RS	2.3	1.2	0.7	0.5	0.5	0.3	0.3		-17.9
TR	5.8	5.8	5.0	5.5	4.8	5.6	11.1		99.1
IS	-	-	-	-	-	-	-	-	-
NO	2.4	2.6	2.7	3.2	3.6	3.8	3.8	99.9	1.4
CH	11.7	12.6	16.1	19.2	20.4	20.6	21.7		5.5

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-27 shares of PSO estimated on the basis of the available data.

FR: includes RER trains exploited by RATP and Tramline 4; in 2018 the methodology has changed, data back to 2015 were revised; recalibration of time serie back to 1990.

CH: 2018 data revised. Drop caused by a change in the parameter reporting of a company.

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	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
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	0.00	0.80	3.52	4.83	126.07	130.90	1.5
2019	1.56	0.88	33.20	16.07	59.95	12.79	0.45	1.68	0.70	0.00	0.81	3.90	4.83	132.01	136.83	4.7

NB: In this table, high-speed rail transport covers all traffic with high-speed rolling stock (incl. 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
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	31.6	56.7	58.5	23.0	2.1	7.4	14.5	0.3	17.5	26.0	6.9	31.0	27.4
2019	14.1	8.1	33.1	55.7	58.7	22.6	2.3	7.6	13.8	0.3	16.5	26.7	6.7	31.3	27.7

United States

2.3.9

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	195.4	12.3	563.6	6 100.0
1995	5 702.0	17.3	25.9	219.0	14.7	647.6	6 626.5
2000	6 372.2	24.9	31.1	259.0	17.3	829.8	7 534.3
2005	6 952.4	28.2	31.9	238.2	18.0	921.9	8 190.5
2010	7 131.7	34.6	36.7	469.8	20.8	892.7	8 586.4
2015	7 495.0	36.6	40.1	553.7	23.2	1 017.4	9 166.0
2018	7 804.1	37.5	37.5	624.5	24.7	1 162.6	9 690.8
2019	7 876.7	36.8	38.3	613.4	24.8	1 213.9	9 804.0

AVERAGE ANNUAL CHANGE

	% per year						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	TOTAL
2005	1.0	-8.0	-0.3	2.6	-1.1	4.6	1.4
2010	0.6	-11.1	0.5	-4.3	-2.8	2.6	0.5
2015	2.6	-1.8	-0.3	1.4	0.9	5.9	2.8
2016	2.5	4.3	-0.2	0.7	0.8	4.6	2.6
2017	0.9	-1.4	-2.9	5.4	3.5	3.6	1.4
2018	0.7	-0.4	-3.6	6.2	2.1	5.4	1.6
2019	0.9	-1.9	2.2	-1.8	0.4	4.4	1.2
'90/'95	1.5	-2.8	-1.7	2.3	3.5	2.8	1.7
'95/'00	2.2	7.5	3.7	3.4	3.4	5.1	2.6
'00/'10	1.1	3.3	1.7	6.1	1.9	0.7	1.3
'11/'19	1.2	0.8	-0.1	3.4	1.5	3.7	1.6

MODAL SPLIT

	%						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	
1990	86.6	0.3	0.5	3.2	0.2	9.2	
1995	86.0	0.3	0.4	3.3	0.2	9.8	
2000	84.6	0.3	0.4	3.4	0.2	11.0	
2005	84.9	0.3	0.4	2.9	0.2	11.3	
2010	83.1	0.4	0.4	5.5	0.2	10.4	
2015	81.8	0.4	0.4	6.0	0.3	11.1	
2016	81.7	0.4	0.4	5.9	0.2	11.3	
2017	81.2	0.4	0.4	6.2	0.3	11.6	
2018	80.5	0.4	0.4	6.4	0.3	12.0	
2019	80.3	0.4	0.4	6.3	0.3	12.4	

NB: Revision of bus data.

(*) Passenger cars include light duty vehicles, short wheel base and long wheel base.

(**) Bus includes highway busses and transit busses (motor bus, commuter bus, demand response; and trolleybus).

2.4

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
BE	10.6	300.4	489.5	708.0	1 826.1	66.3	504.5	1 109.2	6 175.2	2 428.7	246.9	3 544.6	64.6
BG	292.6	294.3	371.1	145.5	2 092.6	41.5	110.2	262.4	515.8	342.3	1.8	697.0	162.9
CZ	489.5	374.0	19.3	382.5	1 167.0	0.3	211.7	915.7	1 284.0	1 247.2	128.5	1 508.4	57.3
DK	706.3	144.5	378.1	1 882.5	3 004.6	117.1	272.8	1 038.2	3 102.6	1 583.1	237.3	1 503.7	106.4
DE	1 811.5	2 077.9	1 119.2	2 988.2	23 182.3	427.0	2 508.2	8 109.7	28 725.9	8 415.0	2 473.1	15 143.2	384.8
EE	66.1	42.4	0.0	116.7	429.9	31.1	21.0	66.3	67.1	44.1	7.5	88.0	40.7
IE	502.3	110.6	211.4	273.2	2 515.7	21.0	97.2	210.0	4 612.6	2 130.6	235.4	1 609.8	36.1
EL	1 171.4	261.3	906.8	1 002.7	8 040.6	64.5	203.0	8 579.2	906.5	2 965.9	97.1	3 780.0	1 668.5
ES	6 191.2	500.1	1 271.6	3 114.8	29 084.1	67.5	4 573.5	913.5	42 612.2	15 428.6	358.7	16 245.1	1.6
FR	2 266.8	312.8	1 163.3	1 473.0	8 504.1	43.8	2 056.5	2 768.3	13 886.0	31 717.9	691.4	11 861.8	3.4
HR	239.1	1.5	128.1	240.3	2 362.7	7.5	235.5	97.2	358.3	766.9	508.5	387.2	:
IT	3 535.7	701.8	1 507.1	1 509.4	15 202.3	87.9	1 609.2	3 788.9	16 207.2	12 491.6	385.8	32 398.7	122.5
CY	64.9	162.7	51.1	107.3	388.4	40.9	36.4	1 692.7	1.6	35.9	0.1	118.2	0.0
LV	151.0	28.4	109.6	275.7	965.4	289.9	151.3	99.0	233.5	186.9	27.4	274.2	58.1
LT	98.3	39.4	0.0	353.1	558.2	89.5	171.6	155.1	265.7	166.3	1.1	391.4	59.8
LU	0.9	25.1	13.6	80.1	596.5	0.0	90.9	84.2	574.4	348.1	9.7	410.2	0.6
HU	541.6	75.8	233.0	286.5	2 277.4	0.1	285.6	436.1	1 048.3	805.1	0.5	1 455.0	131.3
MT	225.4	47.0	27.0	83.1	896.0	17.7	105.6	93.5	376.0	450.5	3.5	1 437.6	14.9
NL	293.6	360.1	897.2	1 816.5	4 569.7	81.7	1 481.7	2 174.0	8 735.2	3 744.0	446.7	5 047.6	102.7
AT	479.1	503.3	175.8	562.6	7 333.7	49.6	260.4	1 229.7	2 599.7	1 499.0	357.3	2 040.4	309.9
PL	863.7	686.7	281.6	880.7	4 723.8	191.1	1 026.0	1 983.3	2 331.3	1 506.2	239.7	2 736.6	287.0
PT	1 621.5	33.0	171.9	399.0	5 210.0	3.6	1 372.0	125.5	5 706.4	7 440.7	32.2	2 541.6	0.1
RO	714.1	43.5	104.0	193.8	2 855.9		237.2	546.4	1 804.1	1 203.2	9.4	3 627.1	258.6
SI	98.5	8.6	10.5	26.0	250.7	0.2	0.1	50.9	6.5	102.2	0.2	2.0	4.6
SK	61.7	147.3	54.4	0.0	15.1	0.0	125.2	237.6	116.5	33.9	2.4	218.1	80.4
FI	242.0	68.9	311.8	897.2	2 107.0	325.7	118.9	627.4	1 757.2	698.9	225.7	593.8	42.7
SE	622.0	47.1	317.9	1 776.9	3 232.5	289.8	172.9	1 216.4	3 538.8	1 216.3	390.2	850.8	249.0

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

Air – PASSENGER TRAFFIC BETWEEN MEMBER STATES

2.4.1

2019

INCLUDING DOMESTIC FLIGHTS (1 000)

LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE
150.8	98.9	0.9	542.3	226.9	288.1	494.7	861.5	1 617.7	715.7	98.3	62.0	242.0	622.4
27.9	39.4	25.1	76.4	47.6	356.0	502.8	676.8	32.8	46.2	8.5	162.3	68.0	47.1
109.5	0.3	13.7	233.4	27.2	897.7	181.4	281.3	171.9	104.5	10.0	57.0	311.7	304.1
275.2	356.1	80.7	286.3	83.0	1 814.9	563.7	875.1	393.6	194.8	26.1	0.1	906.4	1 782.3
959.5	556.2	595.8	2 272.0	895.6	4 552.0	7 315.1	4 739.4	5 166.7	2 852.9	250.4	14.9	2 121.2	3 237.6
289.5	89.6	0.1	0.1	18.0	81.8	49.9	191.0	3.6	2.4	0.2		295.8	288.9
151.2	174.6	91.5	285.9	107.0	1 484.8	257.7	1 027.8	1 369.1	237.9	0.184	126.9	119.9	173.0
94.8	152.6	83.9	433.2	92.0	2 295.3	1 182.1	1 843.3	124.6	559.1	55.2	237.6	599.7	1 200.9
233.7	268.7	584.3	1 038.3	377.2	8 759.0	2 602.2	2 307.4	5 623.0	1 779.0	6.6	117.2	1 757.7	3 676.2
185.9	166.4	350.9	802.1	448.5	3 721.6	1 496.2	1 346.8	7 090.5	1 138.0	101.6	33.5	694.4	1 172.2
19.5	1.1	9.7	0.5	3.3	426.2	350.8	238.2	32.2	9.2	0.2	0.1	226.4	377.9
273.9	394.5	413.1	1 454.2	1 454.1	5 053.6	2 041.8	2 733.7	2 537.3	3 678.1	2.0	214.1	620.8	848.6
58.2	60.9	0.7	130.1	42.4	107.1	310.4	285.4	0.0	257.9	0.0	81.1	43.6	257.5
15.6	306.7		32.4	50.1	213.4	136.9	201.5	28.3	0.1	0.3	2.7	406.4	295.2
304.9	0.0	0.1	0.2	36.4	161.7	69.7	274.4	15.4	0.1	0.0	0.0	149.7	167.0
0.0	:	1.6	8.9	32.8	184.9	124.4	58.4	710.8		0.0	0.1	1.1	2.6
32.2	0.4	9.0	0.3	115.0	799.1	108.7	346.3	235.5	145.5	0.0	0.6	264.8	368.1
49.5	36.4	32.8	113.0	0.2	155.6	141.3	235.2	74.7	67.1	5.3	35.5	11.5	99.2
213.0	162.8	185.8	799.0	156.8	1.5	1 381.0	1 739.6	2 375.7	667.1	83.8	26.8	747.7	1 449.0
136.9	70.3	124.8	107.8	138.2	1 415.4	550.1	544.4	438.4	749.3	45.6	72.0	220.4	452.9
201.4	275.8	58.8	347.0	237.5	1 738.9	543.6	1 970.3	556.0	267.5	46.4	46.7	518.2	1 460.5
28.6	15.8	722.1	235.5	75.8	2 395.2	439.9	552.6	5 353.6	84.7	0.2	0.4	265.3	324.7
0.4	0.0	0.0	136.8	67.5	666.1	742.4	267.6	84.2	1 336.6	0.0	0.1	36.7	183.4
0.3	0.0			5.3	95.7	45.4	46.5	0.2		0.0	0.0	33.3	0.1
1.1		0.1	1.4	35.5	26.7	69.6	46.5	0.4	0.1	0.1	2.4	2.7	1.4
406.4	150.6	1.2	258.0	11.6	777.7	220.8	518.0	263.2	36.7	33.3	2.6	2 965.6	1 910.9
295.4	168.3	2.6	367.9	100.1	1 450.6	454.2	1 459.5	322.5	183.7	0.6	1.0	1 907.3	6 958.0

2.4.2

Air

MAJOR EUROPEAN AIRLINES

DOMESTIC + INTERNATIONAL

RANKING	BILLION REVENUE PASSENGER-KILOMETRES								%
	AIRLINE		2000	2005	2010	2015	2018	2019	
1	Ryanair ⁽¹⁾	IE	4.772	31.205	72.149	130.564	176.951	183.554	3.7
2	Lufthansa	DE	92.160	108.185	129.668	146.317	160.074	175.719	9.8
3	British Airways	UK	119.385	107.892	106.082	142.016	152.177	155.580	2.2
4	Air France ⁽²⁾	FR	91.848	115.163	125.165	142.487	147.729	154.033	4.3
5	Turkish Airlines	TR	17.396	21.318	47.950	119.372	149.131	153.186	2.7
6	KLM Royal Dutch Airlines ⁽²⁾	NL	60.336	68.322	76.065	93.228	107.676	109.476	1.7
7	Easyjet ⁽³⁾	UK	3.926	27.448	56.128	77.619	98.522	107.741	9.4
8	Norwegian	NO		2.703	13.774	42.284	85.124	86.616	1.8
9	Wizz Air	HU			12.278	30.786	55.994	65.698	17.3
10	Iberia	ES	40.049	49.060	51.242	48.569	58.274	63.991	9.8
11	SWISS Intern. Airlines	CH	3.481	21.164	29.522	40.047	50.303	53.120	5.6
12	TAP Air Portugal	PT	10.414	14.536	23.651	29.552	38.048	42.065	10.6
13	Virgin Atlantic Airways	UK	31.315	32.118	38.158	37.157	37.529	39.644	5.6
14	SAS	SE	22.922	27.724	23.497	33.780	39.946	39.375	-1.4
15	TUI Airways	UK	20.300	23.337	32.714	33.395	39.163	39.171	0.0
16	Alitalia	IT	40.846	37.969	33.344	34.397	37.956	38.679	1.9
17	Finnair	FI	12.587	16.735	19.222	25.592	34.660	38.534	11.2
18	Pegasus	TR			10.662	21.223	30.036	35.064	16.7
19	Vueling Airlines	ES		1.661	9.932	24.775	31.973	33.410	4.5
20	Jet2	UK	0.000	3.105	6.219	12.222	26.511	32.047	20.9
21	Condor	DE		22.245	19.888	27.903	31.555	31.995	1.4
22	Air Europa	ES	8.831	13.442	17.180	22.502	28.147	30.691	9.0
23	Thomas Cook Airlines	UK	10.118	7.500	8.354	22.460	28.417	28.417	0.0
24	Eurowings ⁽⁴⁾	DE		4.519	6.966	15.870	35.386	26.599	-24.8
25	Norwegian Air International	IE				13.193	30.122	24.785	-17.7
26	Aer Lingus	IE	8.808	12.563	13.895	17.531	23.516	24.753	5.3
27	Austrian	AT	17.967	22.894	17.494	18.190	21.973	23.050	4.9
28	LOT Polish Airlines	PL	0.000	6.284	7.554	7.232	16.641	20.115	20.9
29	Brussels Airlines	BE	2.131	4.851	8.486	11.833	17.248	17.928	3.9
30	Transavia Airlines	NL	8.270	9.575	10.738	12.593	16.747	17.634	5.3

NB: Scheduled and non-scheduled flights.

(1) Ryanair: Year up to 30 March of the following year.

(2) Air France and KLM merged in 2004 to build Air France KLM Group.

(3) Easyjet: Financial year up to 30 September of the year indicated.

(4) Germanwings merged with Eurowings in 2015.

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

Air – PASSENGER TRAFFIC AT MAJOR EU AIRPORTS

2.4.3

PASSENGERS CARRIED (*)

RANKING	(arriving + departing + in transit)		MILLION PASSENGERS						%
	AIRPORT		2000	2005	2010	2015	2018	2019	CHANGE '18/'19
1	Paris / Charles de Gaulle	FR	64.29	53.38	57.93	65.67	72.20	76.14	5.46
2	Amsterdam / Schiphol	NL	39.27	44.08	45.15	58.17	70.98	71.69	1.00
3	Frankfurt (Main)	DE	48.96	51.79	52.65	60.89	69.39	70.44	1.51
4	Madrid / Barajas	ES	24.38	41.72	49.80	46.30	56.48	59.75	5.79
5	Barcelona / El Prat	ES	14.39	27.02	29.18	39.42	49.59	51.73	4.31
6	München	DE	22.87	28.45	34.52	40.86	46.21	47.89	3.65
7	Roma / Fiumicino	IT	25.94	27.78	35.95	40.23	42.89	43.40	1.17
8	Dublin	IE	13.66	18.33	18.41	24.92	31.23	32.65	4.57
9	Paris / Orly	FR	23.83	24.85	25.16	29.66	33.11	31.85	-3.81
10	Wien / Schwechat	AT	11.92	15.80	19.62	22.74	27.02	31.63	17.06
11	Lisboa	PT	9.21	11.24	14.05	20.11	29.05	31.19	7.38
12	København / Kastrup	DK	18.11	19.82	21.39	26.51	30.19	30.12	-0.24
13	Palma De Mallorca	ES	16.87	21.22	21.08	23.72	29.07	29.61	1.87
14	Milano / Malpensa	IT	20.55	19.49	18.71	18.44	24.15	28.71	18.87
15	Brussel-Bruxelles / Brussels	BE	21.60	15.95	16.98	23.27	25.64	26.29	2.54
16	Stockholm / Arlanda	SE	18.61	17.16	16.96	23.15	26.84	25.63	-4.50
17	Athinai / Eleftherios Venizelos	EL	13.35	14.34	15.39	18.09	24.13	25.57	5.98
18	Düsseldorf	DE	15.91	15.39	18.91	22.45	24.26	25.48	5.03
19	Berlin-Tegel	DE	10.24	11.47	14.97	20.99	21.99	24.22	10.15
20	Helsinki-Vantaa	FI	10.00	11.13	12.86	16.42	20.99	22.05	5.04
21	Malaga	ES	8.26	12.61	12.02	14.36	18.93	19.60	3.54
22	Warszawa / Chopina	PL	4.33	7.08	8.73	11.21	17.77	18.87	6.16
23	Praha / Ruzyně	CZ	5.55	10.72	11.51	11.87	16.81	17.84	6.12
24	Hamburg	DE	9.82	10.57	12.88	15.58	17.20	17.27	0.44
25	Budapest / Ferihegy	HU	4.68	7.92	8.17	10.23	14.80	16.10	8.78
26	Alicante	ES	5.29	8.93	9.37	10.56	13.93	15.00	7.65
27	Bucuresti	RO	1.95	2.98	4.92	9.27	13.82	14.69	6.33
28	Nice / Côte d'Azur	FR	9.33	9.74	9.59	12.01	13.84	14.47	4.56
29	Bergamo / Orio Al Serio	IT	1.24	4.29	7.66	10.40	12.93	13.84	7.06
30	Porto	PT	2.73	3.11	5.28	8.09	11.94	13.19	10.49

NB: (*) 'Passengers carried' do 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	2018	2019	CHANGE '18/'19
1	Madrid / Barajas - Barcelona	4 358.3	3 083.8	2 251.7	2 467.8	2 572.9	4.3
2	Frankfurt (Main) - Berlin / Tegel	1 545.6	1 609.4	1 906.1	2 292.6	2 249.7	-1.9
3	Toulouse / Blagnac - Paris / Orly	2 327.1	2 193.7	2 318.1	2 282.4	2 217.9	-2.8
4	Palma De Mallorca - Barcelona	1 689.3	1 532.5	1 576.1	2 035.7	2 173.9	6.8
5	Paris / Orly - Nice / Côte d'Azur	2 262.6	2 100.3	2 112.9	2 144.6	2 059.1	-4.0
6	Palma de Mallorca - Madrid / Barajas	1 641.5	1 698.9	1 411.2	1 967.3	1 995.1	1.4
7	München - Berlin / Tegel	1 419.2	1 580.0	1 975.2	1 985.1	1 934.2	-2.6
8	Catania / Fontanarossa - Roma / Fiumicino	1 368.7	1 717.8	1 987.7	1 980.6	1 826.9	-7.8
9	Hamburg - München	1 450.5	1 653.0	1 810.9	1 745.4	1 740.0	-0.3
10	Las Palmas / Gran Canaria - Madrid / Barajas	1 388.1	1 553.7	1 305.7	1 616.6	1 659.1	2.6
11	Palermo / Punta Raisi - Roma / Fiumicino	1 106.7	1 406.8	1 476.9	1 666.9	1 582.1	-5.1
12	Palma De Mallorca - Düsseldorf	980.5	911.9	1 214.0	1 523.9	1 567.5	2.9
13	Lisboa - Madrid / Barajas	742.3	1 172.0	1 175.2	1 518.2	1 559.3	2.7
14	Tenerife Norte - Madrid / Barajas	1 359.4	1 319.7	1 149.5	1 487.3	1 493.8	0.4
15	München - Düsseldorf	1 381.5	1 533.4	1 552.2	1 419.4	1 488.3	4.9
16	Pointe-à-Pitre (Guadeloupe) / Pôle Caraïbes - Paris / Orly	987.6	1 033.8	1 159.6	1 302.2	1 431.5	9.9
17	Frankfurt (Main) - Hamburg	1 288.3	1 480.6	1 360.5	1 439.3	1 426.1	-0.9
18	Barcelona - Roma / Fiumicino	595.5	688.5	1 190.6	1 332.4	1 402.8	5.3
19	København / Kastrup - Stockholm / Arlanda	1 194.1	1 166.0	1 458.4	1 512.1	1 390.1	-8.1
20	Barcelona - Amsterdam / Schiphol	1 108.0	1 066.1	1 204.8	1 420.3	1 384.8	-2.5
21	Barcelona - Paris / Charles de Gaulle	876.3	860.8	1 231.4	1 273.4	1 373.1	7.8
22	Madrid / Barajas - Paris / Orly	964.3	1 105.9	1 169.1	1 331.5	1 361.6	2.3
23	Athinai / Eleftherios Venizelos - Thessaloniki	1 054.3	1 176.3	1 639.5	1 543.9	1 354.9	-12.2
24	Köln / Bonn - Berlin / Tegel	916.6	1 026.9	1 258.9	1 175.1	1 317.3	12.1
25	Roma / Fiumicino - Paris / Charles de Gaulle	1 240.4	1 195.4	1 141.4	1 207.4	1 310.1	8.5
26	Lisboa - Paris / Orly	556.2	604.7	1 045.1	1 288.0	1 304.7	1.3
27	Roma / Fiumicino - Madrid / Barajas	958.1	1 272.4	1 003.2	1 218.5	1 267.2	4.0
28	Milano / Malpensa - Catania / Fontanarossa	308.4	543.5	380.2	1 035.9	1 265.3	22.1
29	Helsinki / Vantaa - Stockholm / Arlanda	833.4	805.7	1 073.5	1 276.6	1 244.7	-2.5
30	Amsterdam / Schiphol - Paris / Charles de Gaulle	1 038.7	990.2	1 137.2	1 238.2	1 239.8	0.1

Air – MAIN CONNECTIONS BETWEEN EU & NON-EU AIRPORTS IN PASSENGER TRANSPORT

TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport) 1 000						%
	AIRPORT PAIRS	2005	2010	2015	2018	2019	CHANGE '18/'19
1	Dublin - London / Heathrow, United Kingdom	2 086	1 491	1 683	1 810	1 856	2.6
2	Amsterdam / Schiphol - London / Heathrow, United Kingdom	1 894	1 333	1 549	1 746	1 748	0.1
3	Paris / Charles de Gaulle - New York / J.F. Kennedy Intl, NY, United States	1 730	1 190	1 503	1 580	1 636	3.6
4	Barcelona - London / Gatwick, United Kingdom	556	377	1 354	1 556	1 588	2.0
5	Frankfurt (Main) - London / Heathrow, United Kingdom	1 523	1 260	1 523	1 551	1 541	-0.6
6	København / Kastrup - Oslo / Gardermoen, Norway	1 247	1 132	1 423	1 515	1 479	-2.4
7	Madrid / Barajas - London / Heathrow, United Kingdom	1 073	1 089	1 321	1 417	1 476	4.2
8	Stockholm / Arlanda - Oslo / Gardermoen, Norway	937	1 007	1 336	1 432	1 379	-3.7
9	Dublin - London / Gatwick, United Kingdom	626	843	1 087	1 348	1 348	0.0
10	München - London / Heathrow, United Kingdom	914	970	1 225	1 237	1 261	2.0
11	Paris / Charles de Gaulle - London / Heathrow, United Kingdom		1 313	1 282	1 245	1 255	0.8
12	Paris / Charles de Gaulle - Montreal / Pierre Elliot Trudeau Intl, Canada	929	1 148	1 147	1 185	1 247	5.2
13	Paris / Charles de Gaulle - Dubai Intl, United Arab Emirates	439	716	1 077	1 168	1 186	1.5
14	Berlin / Tegel - Zürich, Switzerland	467	801	986	1 180	1 165	-1.3
15	Malaga - London / Gatwick, United Kingdom	979	910	1 069	1 094	1 116	2.0
16	Amsterdam / Schiphol - London / Gatwick, United Kingdom	596	556	1 030	1 083	1 097	1.3
17	Amsterdam / Schiphol - Manchester, United Kingdom	592	442	858	1 043	1 070	2.6
18	Madrid / Barajas - London / Gatwick, United Kingdom	406	602	959	1 029	1 033	0.4
19	Madrid / Barajas - New York / J.F. Kennedy Intl, NY, United States	427	710	727	851	1 030	21.1
20	Amsterdam / Schiphol - New York / J.F. Kennedy Intl, NY, United States	498	519	659	881	1 021	15.9
21	Amsterdam / Schiphol - Dubai Intl, United Arab Emirates	231	434	775	901	1 014	12.4
22	Dublin - Manchester, United Kingdom	648	554	863	985	1 003	1.9
23	Amsterdam / Schiphol - Zürich, Switzerland	549	612	761	995	979	-1.7
24	Paris / Charles de Gaulle - Shanghai / Pudong , CN		521	778	916	972	6.1
25	Frankfurt (Main) - Dubai Intl, United Arab Emirates	491	679	903	1 006	960	-4.6
26	Stockholm / Arlanda - London / Heathrow, United Kingdom	900	912	1 002	970	960	-1.1
27	Madrid / Barajas - Bogota Intl, Colombia		578	535	883	957	8.3
28	Paris / Charles de Gaulle - Los Angeles Intl, CA, United States	393	494	541	777	956	23.0
29	Madrid / Barajas - Buenos Aires / Ezeiza Ministro Pistarini, Argentina	873	858	783	866	949	9.6
30	Dublin - Birmingham, United Kingdom	485	539	785	927	948	2.2

2.4.5

Air – FREIGHT TRAFFIC AT MAJOR EU AIRPORTS

CARGO AND MAIL LOADED AND UNLOADED

RANKING	1 000 TONNES								%
	AIRPORT		2000	2005	2010	2015	2018	2019	CHANGE '18/'19
1	Paris / Charles de Gaulle	FR	1 067.0	1 217.8	1 290.9	2 090.6	2 123.8	2 102.0	-1.0
2	Frankfurt / Main frankfurt Main	DE	1 703.4	1 950.6	2 270.2	2 075.7	2 175.7	2 089.3	-4.0
3	Amsterdam / Schiphol	NL	1 222.5	1 495.6	1 538.0	1 655.3	1 729.6	1 592.2	-7.9
4	Leipzig - Halle	DE	13.7	12.3	637.8	982.5	1 209.3	1 227.3	1.5
5	Luxembourg	LU	499.9	624.8	705.8	736.9	895.0	853.0	-4.7
6	Liège / Bierset	BE	270.3	325.7	508.5	625.3	799.4	808.5	1.1
7	Köln-Bonn	DE	438.3	646.8	638.2	739.5	844.3	799.1	-5.4
8	Brussel-Bruxelles / Brussels	BE	687.4	694.5	385.0	483.1	586.9	561.5	-4.3
9	Milano / Malpensa	IT	295.7	383.8	432.7	511.2	577.4	558.1	-3.4
10	Madrid / Barajas	ES	280.4	360.3	400.5	382.6	492.2	511.2	3.9
11	München	DE	148.4	218.2	291.1	336.0	368.1	350.0	-4.9
12	København / Kastrup	DK	419.4	355.1	138.1	196.6	224.6	226.2	0.7
13	Helsinki Vantaa	FI	96.1	114.8	157.5	177.4	192.4	221.5	15.1
14	Wien / Schwechat	AT	65.9	180.0	231.8	209.1	229.6	220.8	-3.8
15	Roma / Fiumicino	IT	153.3	131.9	164.4	145.0	205.8	194.5	-5.5
16	Lisboa	PT	114.6	100.0	105.2	100.8	135.2	154.3	14.2
17	Barcelona	ES	75.5	94.5	105.9	102.2	149.2	143.1	-4.1
18	Frankfurt / Hahn	DE	75.0	100.9	164.5	73.2	149.6	142.4	-4.8
19	Dublin	IE	35.5	64.1	105.3	137.3	143.7	133.2	-7.3
20	Bergamo / Orio al Serio		98.9	135.1	105.8	121.0	122.0	119.0	-2.4
21	Warszawa / Chopina	PL	44.6	31.1	57.1	72.3	108.3	114.1	5.3
22	Maastricht-Aachen	NL	44.3	54.6	62.0	56.6	110.8	111.4	0.5
23	Zaragoza	ES	3.2	3.8	42.1	65.1	116.9	111.3	-4.8
24	Athinai / Eleftherios Venizelos	EL	123.4	101.4	84.0	58.1	93.8	103.0	9.8
25	Paris / Orly	FR	107.3	80.0	53.8	126.3	95.1	98.5	3.5
26	Budapest / Liszt	HU	43.5	55.5	65.3	65.8	101.4	95.6	-5.7
27	Praha / Ruzyně	CZ		51.6	58.2	50.5	82.5	85.4	3.6
28	Düsseldorf	DE	59.4	56.5	87.1	90.2	74.8	65.9	-11.9
29	Toulouse / Blagnac	FR	37.8	56.2	52.2	61.0	67.7	65.3	-3.6
30	Marseille / Provence	FR	36.0	51.0	58.6	55.2	58.5	61.1	4.5

NB: Significant underreporting of Paris airports. Data from airport websites (*in italics*) often include air cargo which in reality is transported by lorry. The figures from airport websites are therefore not always fully comparable with those collected by Eurostat. The extraordinary growth rate for the Leipzig airport in 2008 is mainly due to DHL moving its hub there during 2008.

Air – AIRCRAFT TRAFFIC AT MAJOR EU AIRPORTS

2.4.6

COMMERCIAL AIR FLIGHTS (PASSENGERS, FREIGHT & MAIL)

RANKING	(not including general aviation)						1 000	%
	AIRPORT		2005	2010	2015	2018	2019	CHANGE '18/'19
1	Frankfurt (Main)	DE	475.6	456.0	460.5	505.0	506.9	0.4
2	Amsterdam / Schiphol	NL	408.2	390.4	455.2	501.5	496.0	-1.1
3	Paris / Gaulle	FR	543.8	477.9	468.5	477.8	494.8	3.6
4	Madrid / Barajas	ES	406.3	426.9	357.7	391.2	408.4	4.4
5	München	DE	382.3	368.2	365.7	398.2	402.2	1.0
6	Barcelona	ES	294.3	268.5	279.0	322.2	331.1	2.8
8	Roma / Fiumicino	IT	299.6	327.3	311.8	308.8	310.5	0.6
7	Wien / Schwechat	AT	227.5	243.0	224.8	238.7	264.1	10.6
9	København / Kastrup	DK	262.1	240.6	250.2	259.6	257.5	-0.8
10	Dublin	IE	169.6	156.4	188.8	222.7	229.1	2.9
11	Milano / Malpensa	IT	222.2	187.8	154.6	190.6	229.1	20.2
12	Stockholm / Arlanda	SE	222.2	185.4	216.9	234.0	225.6	-3.6
13	Brussel-Bruxelles / Brussels	BE	228.7	205.2	221.1	222.5	222.3	-0.1
14	Athinai / Eleftherios Venizelos	EL	170.4	181.6	167.9	209.5	220.2	5.1
15	Lisboa	PT	125.9	136.9	162.8	218.7	219.1	0.2
16	Paris / Orly	FR	231.0	215.5	231.3	229.0	218.4	-4.7
17	Düsseldorf	DE	189.0	211.4	202.8	209.5	216.9	3.5
18	Palma De Mallorca	ES	170.5	165.2	170.0	208.9	207.2	-0.8
19	Berlin / Tegel	DE	137.2	150.5	177.9	181.0	188.4	4.1
20	Helsinki / Vantaa	FI	163.1	169.9	165.3	183.7	187.0	1.8
21	Warszawa / Chopina	PL	131.1	133.0	136.4	176.2	184.2	4.5
22	Nice	FR	158.1	132.1	139.8	145.1	148.2	2.2
23	Praha / Ruzyně	CZ	150.2	147.9	120.1	141.2	141.2	-0.0
24	Hamburg	DE	134.2	138.4	142.1	139.9	140.3	0.3
25	Malaga	ES	111.1	97.3	101.0	130.5	134.6	3.1
26	Köln-Bonn	DE	139.9	120.6	114.8	131.9	130.8	-0.9
27	Stuttgart	DE	135.0	111.7	105.0	115.7	120.8	4.4
28	Gran Canaria	ES	98.4	93.2	89.9	120.0	117.2	-2.3
29	Bucuresti / Henri Coanda	RO	90.2	128.1	90.8	116.7	117.2	0.5
30	Budapest / Liszt Ferenc	HU	116.7	99.6	86.0	107.0	113.8	6.4
31	Lyon / Saint Exupery	FR	130.1	115.4	105.0	109.8	113.0	2.9
32	Alicante	ES	70.2	72.0	72.2	93.7	99.1	5.7
33	Porto	PT	45.3	54.6	68.6	94.3	96.9	2.7
34	Marseille / Provence	FR	90.3	95.9	89.8	92.1	96.2	4.5
35	Bergamo / Orio Al Serio	IT	47.8	65.3	74.3	86.8	91.7	5.6
36	Venezia / Tesserà	IT	74.0	68.7	75.2	89.1	89.1	0.0
37	Toulouse / Blagnac	FR	80.2	80.4	81.1	89.5	88.8	-0.8
38	Berlin / Brandenburg	DE	46.5	65.5	67.5	93.7	83.2	-11.2
39	Riga	LV	31.2	66.6	63.8	79.1	82.7	4.5
40	Napoli / Capodichino	IT	49.0	55.9	52.9	73.0	78.4	7.4

2.4.7 Sea – INWARD & OUTWARD FLOW OF PASSENGERS – BY COUNTRY

INWARDS

1 000	PASSENGERS			CRUISE PASSENGERS			CRUISE PASSENGERS		
	excluding cruise passengers			starting and ending a cruise			on excursion		
	2017	2018	2019	2017	2018	2019	2017	2018	2019
EU-27	188738	198687	201545	6058	6980	7354			
EU-28	200813	210828	213098	7009	8085	8444			
BE	159	166	155	475	396	397			
BG	0	0	1				3	0	1
CZ	-	-	-	-	-	-	-	-	-
DK	21279	21743	21924	211	204	209	601	681	672
DE	14200	14118	14138	1121	1186	1318			
EE	7395	7384	7498	7	6	13	591	652	676
IE	1392	1366	1328	2	20	22	262	378	388
EL	34802	36041	36715	219	236	265			
ES	12495	14569	15406	1502	1776	1949	6193	7848	9428
FR	12283	12524	12029	358	423	421	3655	3798	3981
HR	15937	16523	17063	38	34	40	1196	1316	1434
IT	35060	40278	40761	1875	2495	2403	3132	4150	3838
CY	25	13	15	21	1	13			
LV	487	521	522				88	77	70
LT	141	154	165				75	70	68
LU	-	-	-	-	-	-	-	-	-
HU	-	-	-	-	-	-	-	-	-
MT	5384	5758	5918	104	79	136			
NL	963	996	998						
AT	-	-	-	-	-	-	-	-	-
PL	1292	1360	1409	0	0	0			
PT	338	349	370	31	30	41	661	683	712
RO				0	0	0	2		
SI	15	12	13				74	109	118
SK	-	-	-	-	-	-	-	-	-
FI	9792	9659	9642	7	9	16	490	533	626
SE	15298	15151	15476	86	85	112	528	590	699
UK	12075	12141	11553	951	1105	1090			
IS	459	403	414			0	399	436	369
NO	2971	2923	3012	7	8	32	556	646	563
ME	62	45	43						
TR	626	624	751	58	64	64			

Sea – INWARD & OUTWARD FLOW OF PASSENGERS – BY COUNTRY

2.4.7

OUTWARDS

1 000	PASSENGERS			CRUISE PASSENGERS		
	excluding cruise passengers			starting and ending a cruise		
	2017	2018	2019	2017	2018	2019
EU-27	187 282	197 497	200 872	6 043	6 743	
EU-28	199 624	209 823	212 651	7 011	7 846	
BE	161	169	156	475	396	384
BG	2	3	4			0
CZ	-	-	-	-	-	-
DK	21 147	21 621	21 880	214	206	213
DE	14 326	14 229	14 627	1 126	1 154	1 329
EE	7 441	7 440	7 535	7	6	13
IE	1 378	1 344	1 316	2	21	22
EL	34 782	36 003	36 685	220	240	266
ES	12 400	14 499	15 334	1 501	1 750	1 945
FR	12 093	12 359	11 798	359	426	418
HR	15 314	16 068	17 000	37	33	39
IT	35 069	40 278	40 751	1 872	2 331	2 615
CY	26	13	15	0	1	11
LV	507	542	550			
LT	156	169	178			
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT	5 384	5 758	5 918	107	77	135
NL	965	984	1 011			
AT	-	-	-	-	-	-
PL	1 293	1 360	1 378	0	0	0
PT	338	349	371	32	29	41
RO				0	0	0
SI	16	12	13			
SK	-	-	-	-	-	-
FI	9 689	9 551	9 530			
SE	14 793	14 746	14 823	88	72	112
UK	12 342	12 326	11 779	968	1 103	1 082
IS	458	403	414			
NO	3 272	3 244	3 354	1	3	6
ME	57	54	46			
TR	633	618	861	61	77	77

2.4.8

Sea – PASSENGER TRAFFIC AT MAJOR EU SEAPORTS

PASSENGERS EMBARKED AND DISEMBARKED

RANKING	1 000							%
	PORT		2005	2010	2015	2018	2019	CHANGE '18/'19
1	Messina	IT	9802	10765	7021	10604	11669	10.0
2	Helsinki	FI	8854	9849	11214	11567	11619	0.4
3	Reggio di Calabria	IT	9645	9891	6053	9335	10884	16.6
4	Tallinn	EE	6701	7523	9299	9967	9961	-0.1
5	Peiraias	EL	11076	10944	8169	8927	9331	4.5
6	Napoli	IT	6084	8356	6484	7066	9257	31.0
7	Calais	FR	11695	10237	9757	9118	8478	-7.0
8	Stockholm	SE	8211	9147	9887	8534	8349	-2.2
9	Palma Mallorca	ES	4817	4496	5496	7338	7981	8.8
10	Helsingborg	SE	11 102	8540	7670	7136	7 153	0.2
11	Helsingør (Elsinore)	DK	11023	8534	7644	7152	7 105	-0.7
12	Paloukia Salaminas	EL	11 663	12 705	7 050	6 746	6 939	2.9
13	Perama	EL	11 663	12 705	7 050	6 746	6 939	2.9
14	Algeciras	ES	4829	4663	5473	5953	6 148	3.3
15	Puttgarden	DE	6 760	6 261	6 141	5 580	6 007	7.7
16	Cirkewwa	MT	3463	4031	4740	5758	5918	2.8
17	Mgarr, Gozo	MT	3463	4031	4740	5758	5918	2.8
18	Santa Cruz de Tenerife	ES	4249	4 110	4320	5368	5 615	4.6
19	Rødby (Færgenhavn)	DK	6 761	6 261	6 139	5 625	5 483	-2.5
20	Split	HR	3 267	3 523	3 992	4 760	4 958	4.2
21	Capri	IT	3 860	6 517	4 355	4 785	4 796	0.2
22	Sjællands Odde	DK	2 310	1 777	2 690	3 226	3 493	8.3
23	Rostock	DE	2 417	2 195	2 863	3 288	3 394	3.2
24	Århus	DK	1 710	1 284	2 532	3 145	3 385	7.6
25	Barcelona	ES	1 575	2 358	2 327	3 112	3 239	4.1
26	Olbia	IT	3 253	3 863	2 598	3 092	3 200	3.5
27	Turku	FI	3 697	3 498	3 256	3 137	3 137	0.0
28	Mariehamn	FI	3 192	3 302	3 043	3 032	2 956	-2.5
29	Livorno	IT	2 103	2 782	2 001	2 433	2 941	20.9
30	Civitavecchia	IT	2 099	2 440	2 236	2 997	2 886	-3.7
31	Genova	IT	2 406	2 991	2 344	2 609	2 881	10.4
32	Piombino	IT	3 277	3 477	3 517	3 662	2 827	-22.8
33	Bastia	FR	2 028	2 524	2 048	2 165	2 776	28.2
34	Igoumenitsa	EL	2 338	2 726	2 532	2 835	2 717	-4.2
35	Norddeich	DE	2 257	2 287	2 497	2 636	2 648	0.5
36	Hirtshals	DK	1 959	2 178	2 567	2 491	2 541	2.0
37	Sorrento	IT	1 558	1 637	1 844	2 306	2 474	7.3
38	Dubrovnik	HR	930	1 161	1 257	1 952	2 410	23.5
39	Ystad	SE	1 815	1 770	1 983	2 210	2 335	5.7
40	Kiel	DE	1 485	1 854	1 956	1 805	2 331	29.1

Sea – FREIGHT TRAFFIC AT MAJOR EU SEAPORTS

2.4.9

TONNES LOADED AND UNLOADED

RANKING	MILLION							%
	PORT		2005	2010	2015	2018	2019	CHANGE '18/'19
1	Rotterdam	NL	345.8	395.8	436.9	441.5	439.6	-0.4
2	Antwerpen	BE	145.8	160.0	190.1	212.0	214.0	1.0
3	Hamburg	DE	108.3	104.5	120.2	117.6	117.2	-0.4
4	Amsterdam	NL	69.3	89.9	98.8	99.5	103.9	4.4
5	Algeciras	ES	55.2	58.6	79.4	88.6	89.9	1.4
6	Marseille	FR	93.3	82.4	77.5	75.7	74.1	-2.1
7	Valencia	ES	35.0	53.1	57.6	62.0	65.3	5.4
8	Trieste	IT	43.4	40.6	49.1	57.4	60.3	5.1
9	Le Havre	FR	70.8	65.8	62.9	64.9	60.2	-7.3
10	Peiraia	EL	18.7	13.1	38.3	50.9	56.8	11.6
11	Barcelona	ES	37.1	35.3	38.0	54.6	54.7	0.3
12	Genova	IT	42.6	41.4	43.4	51.6	49.7	-3.6
13	Bremerhaven	DE	33.7	45.9	49.8	51.2	47.6	-7.0
14	Gdansk	PL	22.5	26.4	31.7	42.4	45.5	7.3
15	Klaipeda	LT	20.0	28.9	34.4	42.8	42.7	-0.2
16	Dunkerque	FR	48.5	36.3	36.9	41.1	42.6	3.6
17	Constanta	RO	44.4	30.4	36.3	39.5	42.2	6.7
18	Zeeland Seaports	NL			33.6	36.7	38.9	6.0
19	Sines	PT	24.9	24.7	41.2	44.3	38.9	-12.2
20	Göteborg	SE	36.5	42.9	37.8	40.6	38.9	-4.3
21	Livorno	IT	24.0	22.7	29.3	30.3	36.3	19.8
22	Cartagena	ES	26.7	19.0	32.4	33.5	33.9	1.2
23	Bilbao	ES	32.2	32.4	31.0	33.9	33.9	0.0
24	Gent (Ghent)	BE	22.1	27.6	26.1	33.7	33.3	-1.0
25	Huelva	ES	20.9	22.1	27.2	32.5	33.3	2.2
26	Tarragona	ES	30.7	32.1	32.8	31.8	32.6	2.5
27	Ravenna	IT	24.3	22.2	25.3	31.2	31.3	0.4
28	Riga	LV	24.4	29.1	39.4	34.4	30.6	-11.0
29	Nantes Saint-Nazaire	FR	34.0	30.6	24.9	31.9	30.2	-5.6
30	Zeebrugge	BE	28.4	33.9	23.8	23.9	29.0	21.4
31	Wilhelmshaven	DE	46.0	24.7	27.4	28.3	28.9	2.0
32	Venezia	IT	30.5	26.2	25.1	26.5	27.9	5.3
33	Porto Foxi	IT	22.8	23.9	24.6	24.9	26.8	7.8
34	Dublin	IE	19.2	19.5	22.2	26.3	26.3	0.0
35	Agioi Theodoroi	EL	13.0	17.4	23.4	26.1	25.4	-2.6
36	Sköldvik	FI	17.4	20.5	20.6	24.7	25.2	2.2
37	Rouen	FR	21.6	26.5	22.3	22.9	23.3	1.8
38	Gioia Tauro	IT	29.6	35.4	26.1	28.4	22.7	-20.0
39	Koper	SI	12.5	14.6	19.9	23.1	22.1	-4.4
40	Augusta	IT	33.0	25.8	19.9	22.0	21.5	-2.4

2.4.10a

Sea – INTRA-EU

MARITIME TRANSPORT – BY COUNTRY

(1) RELEVANCE OF INTRA-EU TRANSPORT IN TOTAL MARITIME TRANSPORT BY EU COUNTRY 2019

	INWARDS			OUTWARDS		
	total inwards	of which from EU	share of EU in total	total outwards	of which to EU	share of EU in total
	million tonnes	million tonnes	(%)	million tonnes	million tonnes	(%)
BE	151.9	38.7	25.5 %	125.9	29.0	23.0 %
BG	14.8	1.2	8.1 %	16.2	5.6	34.3 %
DK	49.4	29.2	59.0 %	33.5	24.3	72.5 %
DE	177.5	57.4	32.3 %	117.1	46.1	39.4 %
EE	10.9	6.9	63.2 %	23.5	13.9	59.0 %
IE	33.4	12.7	38.0 %	17.4	7.7	43.9 %
EL	94.4	39.0	41.3 %	82.7	45.9	55.5 %
ES	301.1	84.8	28.2 %	195.7	79.6	40.7 %
FR	199.4	43.9	22.0 %	96.2	33.3	34.6 %
HR	14.0	3.5	24.7 %	4.6	2.2	48.5 %
IT	309.3	134.8	43.6 %	189.9	136.0	71.6 %
CY (**)	5.6	3.8	68.6 %	1.8	0.3	14.7 %
LV	8.5	4.4	52.5 %	48.8	28.4	58.2 %
LT	19.4	5.8	30.0 %	32.9	16.4	49.9 %
MT	4.6	2.4	53.0 %	0.6	0.4	64.9 %
NL	411.6	61.4	14.9 %	195.9	35.2	18.0 %
PL	62.7	19.9	31.7 %	30.6	21.2	69.5 %
PT	52.8	20.1	38.0 %	32.5	17.4	53.5 %
RO (**)	25.9	1.7	6.5 %	25.9	7.6	29.4 %
SI	15.6	3.6	23.3 %	6.5	2.0	30.6 %
FI	56.4	36.3	64.3 %	61.7	48.4	78.4 %
SE	94.1	63.6	67.6 %	76.5	58.6	76.6 %

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 country.

(**) 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.

Sea – MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT

2.4.10b

(2) MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT 2019

	TOTAL			RANKING	country of loading port	country of unloading port	million tonnes transported
	total goods trans- ported (*)	of which to/from EU	share of EU in total				
	million tonnes	million tonnes	(%)				
				1	ITALY	ITALY	95.403
				2	SPAIN	SPAIN	42.137
BE	277.8	67.7	24.4 %	3	GREECE	GREECE	29.076
BG	31.0	6.8	21.8 %	4	SWEDEN	SWEDEN	19.831
DK	81.2	51.7	63.7 %	5	SPAIN	ITALY	19.105
DE	291.7	100.7	34.5 %	6	FRANCE	FRANCE	17.856
EE	34.2	20.6	60.2 %	7	SWEDEN	GERMANY	14.823
IE	50.3	19.8	39.4 %	8	FINLAND	GERMANY	14.539
EL	154.6	62.4	40.4 %	9	FINLAND	FINLAND	12.675
ES	461.8	129.4	28.0 %	10	DENMARK	DENMARK	11.794
FR	289.8	71.5	24.7 %	11	ITALY	SPAIN	11.701
HR	18.1	5.1	28.5 %	12	NETHERLANDS	FRANCE	10.897
IT	407.4	179.0	43.9 %	13	GERMANY	SWEDEN	10.869
CY (**)	7.4	4.1	55.3 %	14	NETHERLANDS	SPAIN	10.308
LV	57.2	32.8	57.3 %	15	SPAIN	NETHERLANDS	10.032
LT	52.2	22.2	42.6 %	16	DENMARK	SWEDEN	9.668
MT	5.2	2.8	54.5 %	17	SWEDEN	FINLAND	8.852
NL	607.5	96.5	15.9 %	18	GERMANY	DENMARK	8.572
PL	92.4	40.2	43.6 %	19	NETHERLANDS	GERMANY	8.449
PT	79.1	31.2	39.5 %	20	NETHERLANDS	SWEDEN	8.418
RO (**)	51.9	9.3	17.9 %	21	GREECE	ITALY	8.366
SI	22.1	5.6	25.5 %	22	FINLAND	NETHERLANDS	8.338
FI	112.1	78.7	70.2 %	23	SPAIN	FRANCE	7.741
SE	165.6	117.2	70.8 %	24	ITALY	GREECE	7.294
				25	FINLAND	SWEDEN	7.085
				26	SWEDEN	DENMARK	6.874
				27	SWEDEN	NETHERLANDS	6.861
				28	LATVIA	SWEDEN	6.616
				29	LATVIA	NETHERLANDS	6.443
				30	PORTUGAL	PORTUGAL	6.389

NB: Data from main ports only (ports handling more than 1 million tonnes per year); the tonnes have been calculated by taking the declarations of the unloading ports (inward declarations) and adding those outward declarations of partner ports for which the inward declarations were missing.

2.4.11 Sea – CONTAINER TRAFFIC AT MAJOR EU SEAPORTS

RANKING	1 000 TEU							%
	PORT		2005	2010	2015	2018	2019	CHANGE '18/'19
1	Rotterdam	NL	9 194.6	11 017.5	11 577.2	13 597.9	13 492.8	- 0.8
2	Antwerpen	BE	6 220.9	8 144.4	9 370.3	10 829.6	11 676.0	7.8
3	Hamburg	DE	8 084.3	7 905.5	8 847.9	8 740.9	9 282.0	6.2
4	Piraeus	GR	1 401.1	850.3	3 359.6	4 886.1	5 646.5	15.6
5	Valencia	ES	2 415.2	4 211.2	4 608.7	5 168.9	5 420.8	4.9
6	Algeciras	ES	3 179.8	2 772.7	4 515.8	4 773.2	5 125.4	7.4
7	Bremerhaven	DE	3 696.1	4 858.3	5 466.8	5 442.2	4 849.7	- 10.9
8	Barcelona	ES	2 071.4	1 928.0	1 950.1	3 422.3	3 313.3	- 3.2
9	Gioia Tauro	IT	3 123.2	3 896.7	3 030.0	4 005.5	2 981.9	- 25.6
10	Le Havre	FR	2 144.3	2 369.3	2 560.1	2 865.8	2 762.7	- 3.6
11	Genova	IT	1 037.6	1 020.0	2 079.1	2 554.2	2 175.6	- 14.8
12	Gdansk	PL	63.3	509.9	1 041.3	1 735.5	1 800.2	3.7
13	La Spezia	IT	915.6	1 180.6	1 578.9	1 652.6	1 658.9	0.4
14	Marseille	FR	910.6	1 030.9	1 255.8	1 398.4	1 454.6	4.0
15	Sines	PT	51.0	382.1	1 332.2	1 750.4	1 423.2	- 18.7
16	Las Palmas de Gran Canaria	ES	1 210.4	1 118.0	900.5	1 141.7	1 006.9	- 11.8
17	Livorno	IT	461.4	369.9	652.8	1 181.7	987.2	- 16.5
18	Koper	SI	210.3	481.0	802.7	980.2	934.1	- 4.7
19	Trieste	IT	182.7	261.1	628.0	976.0	917.9	- 6.0
20	Gdynia	PL	392.9	477.0	676.4	832.0	877.0	5.4
21	Dublin	IE	590.2	554.0	627.7	727.3	774.0	6.4
22	Goteborg	SE	771.7	891.5	809.6	749.9	762.9	1.7
23	Klaipeda	LT	214.3	295.2	350.4	749.1	705.2	- 5.9
24	Constanta	RO	867.0	546.1	689.5	668.0	664.7	- 0.5
25	Wilhelmshaven	DE	2.7		611.0	668.0	640.7	- 4.1
26	Bilbao	ES	862.8	532.0	627.9	638.4	628.4	- 1.6
27	Hamina Kotka (¹)	FI	532.1	517.5	487.4	598.8	626.9	4.7
28	Leixoes	PT	351.8	481.8	568.3	613.5	620.7	1.2
29	Thessaloniki	GR	372.5	289.2	591.4	678.0	618.8	- 8.7
30	Arhus	DK	397.2	446.3	445.2	540.4	574.1	6.2
31	Venezia	IT	196.0	237.7	476.0	547.5	547.6	0.0
32	Helsinki	FI	460.2	400.7	411.1	479.7	495.1	3.2
33	Zeebrugge	BE	682.3	1 436.8	393.0	378.3	477.4	26.2
34	Riga	LV	157.8	254.6	355.4	473.9	472.5	- 0.3
35	Lisboa	PT	512.2	512.0	482.6	429.5	462.9	7.8
36	Dunkerque	FR	201.6	200.8	292.1	420.4	451.5	7.4
37	Lemesos (Limassol)	CY	320.8	332.5	308.4	416.3	389.9	- 6.3
38	Napoli	IT	178.5	224.2	210.0	593.6	375.5	- 36.7
39	Port Réunion (ex Pointe des Galets) (Réunion)	FR	80.1	86.7	113.0	336.2	374.8	11.5
40	Santa Cruz de Tenerife	ES	416.9	308.6	310.4	477.5	373.8	- 21.7

NB: ⁽¹⁾ In 2011 the ports of Hamina and Kotka merged into a single legal entity. Older values refer to Kotka only.

Combined transport traffic

2.4.12

UIRR COMPANIES

TONNE-KILOMETRES				
YEAR	Billion	% of which:		
		< 300 km	300 - 900 km	> 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%
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	83.6	2%	45%	54%
2019	83.5	1%	51%	48%
2020	89.6	1%	49%	50%

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%
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	15%	6%	81%
2019	15%	6%	80%
2020	15%	5%	80%

NB: (*) Consignment = equivalent to 2.0 TEU, meaning:

- one semi-trailer;
- two swap bodies less than 8.30 m and under 16 t;
- one swap body more than 8.30 m or over 16 t;
- one vehicle on the rolling motorway (RoLa).

From 2012 to 2016, figures exclude traffic from RoLa operators.

From 2013 figures include traffic of new members TEL and FELB.

From 2015 figures include RCO CZ.

From 2017 figures include RCO (full), Metrans, Lugo, Amber Rail and Baltic Rail.

From 2018 figures include CargoBeamer and VIIA.

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
2011	10.6	3.8	29.3	20.7	64.4
2012	10.0	3.6	30.5	19.5	63.6
2013	9.3	3.5	30.1	18.8	61.7
2014	9.1	3.3	31.3	19.0	62.8
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
2019	8.0	3.2	40.8	21.8	73.7
AVERAGE ANNUAL CHANGE					
'85/'00	9.7%	3.3%	3.9%	5.4%	5.0%
'00/'19	0.3%	4.8%	2.3%	-1.2%	0.9%
'18/'19	-5.1%	-3.9%	2.5%	-0.6%	0.4%

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
2019	643	255	2 660	1 463	5 021

NB: Internal, import, export and transit traffic.

Road

PYRENEES CROSSING TRAFFIC

2.4.14

GOODS TRAFFIC

VEHICLES PER DAY			
	West coast Irun Biarritz	East coast La Jonquera Le Perthus	Other crossings
1997	5 657	6 729	880
1998	6 447	7 413	905
1999	6 914	8 018	914
2000	8 224	8 200	1 519
2001	8 806	8 050	1 172
2002	8 864	8 535	1 505
2003	9 276	8 920	1 758
2004	10 655	9 302	1 875
2005	9 970	9 243	1 825
2006	10 390	9 602	1 939
2008	10 670	9 484	1 334
2009	9 712	8 610	1 367
2011	9 414	8 945	1 044
2013	9 165	9 163	1 050
2014	8 605	9 501	981
2015	9 280	10 066	1 102
2016	10 745	10 097	1 103
2017	10 170	10 463	904

PASSENGER CAR TRAFFIC

VEHICLES PER DAY			
	West coast Irun Biarritz	East coast La Jonquera Le Perthus	Other crossings
1997	30 200	19 400	27 800
1998	30 230	20 601	33 168
1999	33 188	20 678	33 412
2000	40 923	24 390	31 962
2001	41 847	25 201	34 096
2002	41 812	28 544	37 654
2003	44 165	29 201	41 267
2004	45 041	30 923	41 196
2005	47 142	31 896	42 465
2006	47 172	32 180	43 228
2008	47 266	30 847	41 924
2009	47 907	31 465	42 452
2011	48 787	30 900	40 508
2013	47 110	30 529	38 612
2014	48 780	31 623	40 190
2015	49 150	32 458	41 496
2016	47 421	33 049	40 611
2017	50 130	33 441	44 587

NB: Between 2006 -2013, these statistics were available every two years.

Source: Own estimations based on Observatorio hispano-francés de Trafico en los Pirineos, Spain

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	2018	2019	CHANGE '18/'19	2019	2019
EU-27	3485.3	3461.5	3579.1	3678.8	3689.2	0.3	79.3	20.5
EU-28	3976.7	4005.5	4148.8	4246.7	4283.7	0.9	81.4	18.4
BE	92.6	95.1	95.2	101.3	105.5	4.1	82.0	18.0
BG	33.5	29.3	28.6	30.6	28.0	-8.4	71.8	28.2
CZ	147.7	155.1	157.3	169.1	170.4	0.7	80.2	19.8
DK	75.0	78.3	78.8	76.6	78.0	1.8	95.6	4.4
DE	986.7	992.4	1032.6	1095.8	1069.6	-2.4	75.7	24.3
EE	8.9	7.4	8.0	7.2	7.2	-0.3	78.2	21.8
IE	16.0	18.3	18.2	17.5	18.4	4.9	98.4	1.6
EL	17.7	17.0	10.8	10.5	10.5	0.2	90.7	9.3
ES	199.4	206.0	209.1	211.0	211.2	0.1	87.9	12.1
FR	505.8	458.0	460.0	426.8	430.6	0.9	85.0	15.0
HR	26.1	25.8	19.7	20.1	20.5	2.2	74.1	25.9
IT	373.3	356.1	366.4	388.1	395.8	2.0	87.8	12.2
CY	-	-	-	-	-	-	-	-
LV	18.9	16.6	17.2	15.7	14.4	-8.1	42.2	57.8
LT	14.3	14.4	14.0	16.1	14.4	-10.9	32.2	67.8
LU	7.6	8.0	8.9	8.0	8.0	0.1	93.8	6.2
HU	102.8	100.6	164.8	132.0	129.2	-2.1	65.7	33.1
MT	-	-	-	-	-	-	-	-
NL	133.8	139.1	149.4	157.8	161.0	2.0	94.5	5.5
AT	143.9	151.8	153.4	155.0	163.0	5.2	73.8	26.2
PL	207.2	211.7	204.6	243.8	245.0	0.5	67.6	30.0
PT	37.7	40.0	37.1	36.3	37.0	1.8	83.5	16.5
RO	94.5	86.3	79.9	77.3	84.3	9.1	75.1	24.9
SI	18.6	18.6	17.7	19.3	19.0	-1.4	52.3	47.7
SK	47.3	44.0	46.0	47.3	48.7	3.0	75.8	24.2
FI	48.2	51.0	48.6	50.5	51.5	1.9	71.4	28.6
SE	127.7	140.6	152.7	165.1	168.1	1.8	78.8	21.2
UK	491.4	544.0	569.8	567.9	594.5	4.7	94.3	5.7
ME			1.4	1.7	1.7	4.2	68.7	31.3
MK		2.8	2.2	1.9	1.7	-9.0	66.5	33.5
AL								
RS								
TR	44.9	38.8	41.1	44.7	50.5	12.9	52.0	48.0
IS	-	-	-	-	-	-	-	-
NO	41.1	43.8	48.6	41.1	48.8	18.8	84.7	15.3
CH	0.0	210.5	222.7	226.1	228.9	1.2	87.7	12.3

Rail – DEGREE OF MARKET OPENING – PASSENGERS

2.4.16a

SHARE OF ALL BUT THE PRINCIPAL UNDERTAKINGS

	%				Of which: Market share PSO (*)	Of which: Market share Commercial
	2010	2015	2018	2019	2019	2019
BE	0.2	3.3	6.1	7.0	0.0	64.0
BG	2.6	0.0	0.0	0.0	0.0	
CZ	0.2	5.0	12.5	13.0	3.4	75.9
DK	18.0	7.0	7.7	8.0	8.0	
DE	8.0	13.5	15.5	17.0	27.7	3.9
EE	50.0	0.0	4.6	5.0	0.0	99.0
IE	0.0		0.0	0.0	0.0	
EL	0.0	0.0	0.0	0.0	0.0	
ES	0.0	0.0	0.0	0.0	0.1	
FR	1.0	5.0	4.8	5.0	0.0	8.1
HR	0.0	0.0	0.0	0.0	0.0	0.0
IT	8.3	23.0	27.2	29.0	25.7	32.3
CY	-	-	-	-	-	-
LV	10.5	8.3	6.8	6.0	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	0.0
HU	1.8	3.5	0.1	3.0	3.2	18.0
MT	-	-	-	-	-	-
NL	4.8	14.9	5.3	6.0	5.5	
AT	5.4	12.2	13.5	13.0	7.2	24.4
PL	48.3	51.7	42.2	42.0	47.4	2.7
PT	9.0	5.4	6.9	5.0		5.9
RO	3.9			0.0	12.0	
SI	0.0	0.0	0.0	0.0	0.0	
SK	0.0	6.0	6.7	8.0	10.7	
FI	0.0	0.0	0.0	0.0	0.0	
SE		33.5	43.7	43.0	71.0	12.0
UK	89.9		86.9	87.0	86.1	100.0
NO	12.0	10.7	9.6	12.0	12.4	31.7

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.

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	2014	2015	2016	2017	2018	2019
BE	0.0	6.1	11.8	13.4	24.3	25.1	48.6	27.1	18.2	19.2
BG	3.2	14.3	21.6	36.5	48.8	51.4	54.5	58.6	52.7	42.8
CZ			13.2	20.6	30.1	33.5	34.9	36.8	35.1	39.8
DK			25.0	27.0	24.0	29.0	26.1	17.7	26.3	38.0
DE	16.4	22.0	25.0	28.6	34.1	40.9	45.5	47.5	51.3	54.0
EE	30.6	49.0	45.0	30.0	30.5	29.0	20.1	23.7	1.4	0.0
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	3.0
ES	4.9	5.0	8.1	16.8	20.5	26.0	29.5	30.8	34.3	37.0
FR	0.6	10.0	20.0	32.0	37.0	25.6	41.0	43.0	46.0	47.0
HR	0.0	0.0	0.0	0.0	0.5	2.0	14.7	23.9	32.0	38.0
IT	11.5		24.1	16.8	41.0	41.2	55.1	55.4	57.0	57.0
CY	-	-	-	-	-	-	-	-	-	-
LV	10.6	9.6	23.3	22.6	21.5	31.1	25.5	33.6	31.6	31.0
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	37.6	39.6	42.1	47.5	50.6	51.0
MT	-	-	-	-	-	-	-	-	-	-
NL	14.0	25.0	40.0	36.0	41.0		45.0	56.5	59.0	51.0
AT	10.0	14.0	14.6	17.6	21.4	23.6	26.1	24.5	30.7	32.0
PL	16.9	24.0	35.8	32.9	36.3	38.1	48.6	42.9	45.9	50.7
PT	0.0		9.0	11.0	11.3	11.8	15.4	14.2	13.6	17.9
RO	26.7	41.0	54.7	53.7	42.8	60.2	62.9	63.4	63.9	71.0
SI	0.0	0.0	0.0	9.5	9.9	12.1	13.0	13.3	14.8	16.8
SK	2.9	2.0	2.0	11.8	10.0	17.6	19.9	22.1	24.6	27.8
FI	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.3	2.0
SE	32.5		40.0		55.0	48.0	46.0	46.0	48.0	51.0
UK		44.2	51.4	53.6	54.7	52.6	55.0	57.6	61.0	61.0
NO		21.0	25.0	38.0	47.0	42.2	49.8	51.1	51.5	56.0

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).

Rail

2.4.17

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
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
2019	15.1	11.5	13.8	2.9	43.3
AVERAGE ANNUAL CHANGE					
'85/'00	2.7%	2.1%	4.2%	0.9%	2.5%
'00/'19	-0.6%	6.0%	2.5%	-5.6%	0.7%
'18/'19	-1.4%	-8.5%	-1.9%	8.7%	-3.0%

2.5.1

Road

LENGTH OF MOTORWAYS

km (at end of year)								
	1990	1995	2000	2005	2010	2015	2018	2019
EU-27	38 995	44 889	51 530	59 474	67 450	71 888	73 863	74 009
EU-28	42 176	48 269	55 111	63 107	71 122	75 657	77 719	77 866
BE	1 666	1 666	1 702	1 747	1 763	1 763	1 763	1 763
BG	273	277	319	331	437	734	757	790
CZ	357	414	501	564	734	776	1 252	1 276
DK	611	796	923	1 032	1 130	1 237	1 329	1 346
DE	10 854	11 190	11 712	12 363	12 819	12 993	13 141	13 183
EE	41	65	93	99	115	147	154	161
IE	26	70	103	247	900	916	916	995
EL	190	421	615	917	1 558	1 589	2 098	2 098
ES	4 976	6 962	9 049	11 432	14 262	15 336	15 585	15 585
FR	6 824	8 275	9 766	10 798	11 392	11 599	11 671	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	6 966	6 966
CY	120	167	257	276	257	272	257	257
LV	-	-	-	-	-	-	-	-
LT	421	394	417	417	309	309	324	403
LU	78	123	114	147	152	161	165	165
HU	267	335	448	859	1 477	1 884	1 982	1 723
MT	-	-	-	-	-	-	-	-
NL	2 092	2 208	2 265	2 600	2 651	2 756	2 756	2 790
AT	1 445	1 596	1 633	1 677	1 719	1 719	1 749	1 743
PL	257	246	358	552	857	1 559	1 637	1 676
PT	316	687	1 482	2 341	2 737	3 065	3 065	3 065
RO	113	113	113	228	332	747	823	866
SI	228	293	427	569	771	610	623	623
SK	192	198	296	328	416	463	482	495
FI	225	394	549	693	779	881	926	926
SE	939	1 262	1 499	1 700	1 971	2 119	2 132	2 133
UK	3 181	3 380	3 581	3 633	3 672	3 768	3 857	3 857
ME	-	-	-	-	-	-	-	-
MK	83			216	251	259	287	335
AL								
RS				603	603	603	645	778
TR	281			1 667	2 080	2 282	2 842	3 060
IS	-	-	-	11	11	11	41	41
NO	73	107	144	264	381	392	599	1 008
CH	1 148	1 197	1 270	1 358	1 406	1 440	1 462	1 462

NB: IT: 2018 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 the 1st of April.

Sources: Eurostat [road_if_motorwa], International Road Federation (www.irfnet.ch) (EL, IS, 2018), ASECAP (European Association of Operators of Toll Road Infrastructures) statistical bulletin (RS), national statistics (BG, NL, AT, UK), estimates (*in italics*)

Road

LENGTH OF ROAD NETWORK

2.5.2

km (at end of 2019) (*)				
	Motorways	Main or national roads	Secondary or regional roads	Other roads (**)
BE	1 763	13 229	1 349	138 869
BG	790	2 900	4 019	12 170
CZ	1 276	5 826	48 666	74 919
DK	1 346	2 603	70 900	
DE	13 183	37 842	178 751	
EE	161	3 850	12 595	42 461
IE	995	4 314	13 120	80 548
EL	2 098	9 299	30 864	75 600
ES	15 585	14 870	135 171	501 053
FR	11 671	9 522	378 693	704 201
HR	1 310	7 049	9 523	8 831
IT	6 966	23 335	135 691	69 098
CY	257	5 461	2 394	4 950
LV	-	1 673	5 448	62 022
LT	403	6 679	14 559	50 870
LU	165	839	1 891	19
HU	1 723	30 128		188 551
MT	-	520		2 120
NL	2 790	2 668	7 813	127 173
AT	1 743	10 858	23 653	91 238
PL	1 676	17 775	153 675	251 789
PT	3 065	6 457	4 791	
RO	866	17 007	35 083	33 435
SI	623	5 917	32 087	
SK	495	3 594	13 972	39 671
FI	926	12 538	13 469	50 992
SE	2 133	13 556	140 803	42 805
UK	3 857	49 749	33 235	336 525
ME	-		8 172	
MK	335		3 790	9 788
AL	-			
RS	645	3 864	9 651	30 402
TR	3 060	31 006	34 165	182 500
IS	41	4 370	3 380	5 158
NO	1 008	10 753	44 696	39 715
CH	1 462	397	17 772	51 927

NB: (*) BE end of 2015; EL: 2018; IT end of 2018; LU: 2018 (other roads); for MT end of 2017; UK 1st of April 2019.

CY: other road network includes forest gravel roads.

(**) The definition of road types varies from country to country, 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	2018	2019	OF WHICH: ELECTRIFIED 2019	
EU-27	220 757	205 664	200 500	203 847	201 396	200 584	200 161	112 104	56.0
EU-28	237 671	222 708	216 708	220 022	217 605	216 878	216 507	118 262	54.6
BE	3 479	3 471	3 544	3 582	3 607	3 602	3 602	3 112	86.4
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	9 406	9 396	3 213	34.2
DK	2 838	2 787	2 646	2 606	2 552	2 519	2 646	855	32.3
DE	40 981	36 588	34 221	37 679	38 828	39 299	39 379	20 920	53.1
EE	1 026	968	968	919	918	1 033	1 033	138	13.4
IE	1 944	1 919	1 919	1 894	1 894	2 045	2 045	108	5.3
EL	2 484	2 385	2 576	2 552	2 239	2 292	2 280	731	32.1
ES	14 539	14 347	15 015	15 837	16 056	15 893	15 718	10 016	63.7
FR	34 070	31 397	30 871	30 335	28 808	27 594	27 483	16 067	58.5
HR	2 429	2 726	2 726	2 722	2 604	2 605	2 617	970	37.1
IT	16 066	16 187	16 545	17 022	17 041	16 781	16 779	12 016	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	288	262	91.0
HU	7 838	8 005	7 950	7 893	7 894	7 752	7 588	3 183	41.9
MT	-	-	-	-	-	-	-	-	-
NL	2 798	2 802	2 810	3 013	3 031	3 220	3 055	2 310	75.6
AT	5 624	5 665	5 691	5 039	4 937	4 953	4 968	3 583	72.1
PL	26 228	22 560	19 507	19 702	18 510	18 536	18 538	11 909	64.2
PT	3 064	2 814	2 844	2 842	2 545	2 546	2 526	1 696	67.1
RO	11 348	11 015	10 948	10 777	10 770	10 765	10 759	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	3 627	3 629	1 587	43.7
FI	5 867	5 854	5 732	5 919	5 923	5 925	5 923	3 331	56.2
SE	11 193	11 037	11 017	11 160	10 908	10 906	10 899	8 185	75.1
UK	16 914	17 044	16 208	16 175	16 209	16 294	16 346	6 158	37.7
ME			248	249	250	249	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	3 724	3 724	1 273	34.2
TR	8 429	8 671	8 697	9 594	10 131	10 417	10 378	5 070	48.9
IS	-	-	-	-	-	-	-	-	-
NO	4 044	4 179	4 114	3 958	3 896	3 887	3 890	2 483	63.8
CH	3 215	3 216	3 399	3 597	3 592	4 032	4 055	4 055	100.0

NB: DE: includes former GDR: 1970=14 250, 1980=14 248, 1990=14 031

CH: since 2017 RhB is included

CS: 1970: 13 308, 1980: 13 131, 1990: 13 111

IE: main track length.

Railways

HIGH-SPEED RAIL NETWORK

2.5.4

LENGTH OF LINES

km (at end of year)													
	BE	DE	DK	ES	FR	IT	NL	AT	PL	FI	SE	UK	EU-27
1985	-	-	-	-	425	174	-	-	-	-	-	-	599
1990	-	90	-	-	717	194	-	24	-	-	-	-	1 025
1995	-	426	-	471	1 290	238	-	24	-	156	-	-	2 605
2000	72	576	-	471	1 290	238	-	24	-	156	187	-	3 014
2005	137	1 089	-	1 038	1 549	238	-	105	-	882	187	74	5 225
2010	209	1 178	-	2 102	1 912	856	90	121	-	1 120	680	113	8 268
2015	209	1 381	-	3 002	2 058	856	90	237	224	1 120	860	113	10 037
2018	209	1 571	-	3 002	2 734	896	90	254	224	1 120	860	113	10 960
2019	209	1 571	56	3 297	2 734	921	90	254	224	1 120	860	113	11 336
2020	209	1 571	56	3 487	2 734	921	90	254	224	1 120	860	113	11 526

NB: **High speed lines** include principal railway lines allowing traffic at speeds on the main segments equal to or greater than 200 km/h on upgraded lines and 250 km/h on especially built lines. **Dedicated high-speed** railway line is a line specially built to allow traffic at speeds equal to or greater than 250 km/h for the main segments. **Dedicated high-speed lines:** BE: 209 km; DE: 1 223 km; DK: 56 km; ES: 3 015 km; FR: 2 735 km; IT: 896 km; NL: 90 km.

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	Buggingen - Katzenbergtunnel (Basel)	32	2025
DE	(Karlsruhe) Katzenbergtunnel (Basel)	13	2025
ES	Venta de Banos - Burgos	91	2021
ES	León-Pola de Lena (Pajares New Pass)	76	2021
ES	Navalmoral - Plasencia/Badajos	246	2021
ES	Pedralba - Orense	113	2021
ES	Vitoria Gasteiz-Bilbao - San Sebastian	175	2028
ES	Monforte del Cid - Murcia	64	2021
ES	Murcia - Almeria	188	-
ES	Castejon - Pamplona	75	-
ES	La Encina - Valencia	107	-
IT	Genova - Milano (Tortona)	53	2022
IT	Brescia - Verona	45	-
IT	Napoli - Bari	150	-
IT	Verona - Padova	79	-
AT	Wien Stadlau - Staatsgrenze (AT/SK)	38	2022
AT	Wien Inzersdorf Ort - Wr. Neustadt	47	2023
AT	Graz - Klagenfurt	122	2025
AT	Gloggnitz - Müzzzuschlag	28	2026
AT	Volders-Baumkirchen/Innsbruck - Staatsgrenze AT/IT	46	2027
SE	Umeå - Dävd	12	2024
SE	Lund - Arlöv	11	2024
SE	Varberg - Hamra (Varbergstunnel)	7	2025
SE	Ängelholm - Maria	24	2025
SE	Järna - Linköping	160	2035

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

Source: Union internationale des chemins de fer

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	800-1200 (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
ES (*)	1 000	1 500		
	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	16.7Hz
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	16.7Hz
UK (**)	1 435	750	25 000	50 HZ
	1 600	(contact rail)		
	(N-IRL)			

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.

Air

NUMBER OF AIRPORTS

2.5.6

BY NUMBER OF PASSENGERS CARRIED (*) IN 2019

	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
EU-27	40	31	80	26	90	31
EU-28	47	37	89	30	98	35
BE	1	1			3	
BG		1	2			
CZ	1			1	1	2
DK	1		2		3	2
DE	8	1	9	2	4	
EE			1			
IE	1		2	1	1	
EL	1	3	6	2	12	9
ES	7	7	11	1	7	1
FR	5	3	11	6	18	1
HR			3	2		
IT	6	6	10	2	8	2
CY		1	1			
LV		1				
LT		1	1		1	
LU			1			
HU	1			1		
MT		1				
NL	1	1	1		2	
AT	1		3		2	
PL	1	2	4	2	3	
PT	2	1	2	1	4	3
RO	1		3	2	3	3
SI			1			
SK			1	1		
FI	1		1	1	8	6
SE	1	1	4	1	10	2
UK	7	6	9	4	8	4
ME			2			
MK			1			
AL			1			
RS		1			1	
TR	10	1	13	8	17	7
IS		1			2	
NO	1	1	7	2	11	6
CH	2	1			1	2

NB: (*) 'Passengers carried' do 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 TRANSPORT

km								
	1990	1995	2000	2005	2010	2015	2018	2019
EU-27		37 458	39 658	40 783	40 738	40 885	41 253	41 941
EU-28		38 611	40 811	41 848	41 788	41 935	42 303	42 991
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	449	449
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6 197	5 962	5 789	5 788	5 110	4 822	5 065	4 827
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	493	506
LU	37	37	37	37	37	37	37	37
HU	1 373	1 373	1 373	1 587	1 864	1 864	1 864	1 860
MT	-	-	-	-	-	-	-	-
NL	5 046	5 046	6 183	6 211	6 219	6 256	6 297	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	3 722
PT	-	-	-	-	-	-	-	
RO	1 782	1 779	1 779	1 779	1 779	1 779	1 779	2 635
SI	-	-	-	-	-	-	-	-
SK	2 379	172	172	172	172	172	172	172
FI	6 072	6 120	7 842	8 029	8 006	8 127	8 132	8 125
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.

RO: since 2019 the length of navigable lakes was added to the previous figures.

Pipelines

2.5.8

LENGTH OF OIL PIPELINES

km								
	1990	1995	2000	2005	2010	2015	2018	2019
EU-27		28 497	30 578	31 338	31 168	31 690	31 759	31 682
EU-28		31 967	34 532	35 839	35 614	36 136	36 205	36 128
BE	301	294	294	294	294	294	294	294
BG	578	578	578	578	578	570	571	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	4 723	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	4 018	4 018
CY	-	-	-	-	-	-	-	-
LV	766	766	766	860	417	417	417	340
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	3 060	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.

2.6.1

Road
MOTORISATION

NUMBER OF PASSENGER CARS PER 1 000 INHABITANTS									%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27	339	377	412	443	483	513	544	553	1.6
EU-28	342	377	414	446	480	508	536	546	1.8
BE	387	421	456	468	480	497	511	511	0.0
BG	152	196	245	333	353	442	396	407	2.8
CZ	234	295	336	387	429	485	540	554	2.7
DK	309	320	347	362	389	419	447	455	1.9
DE	461	495	475	493	527	548	567	574	1.1
EE	154	269	333	366	416	514	563	598	6.2
IE	228	276	348	400	416	425	434	442	2.0
EL	169	208	295	391	469	474	493	504	2.4
ES	309	360	429	460	475	481	513	519	1.2
FR	464	468	489	482	503	555	571	569	-0.3
HR	121	155	262	321	353	358	409	425	4.0
IT	483	533	572	597	619	616	652	663	1.6
CY	304	335	384	477	551	575	629	645	2.5
LV	106	134	237	333	307	345	369	381	3.4
LT	133	199	336	442	554	431	512	536	4.8
LU	477	556	622	655	659	661	676	681	0.7
HU	187	218	232	287	299	325	373	390	4.7
MT	337	487	483	525	581	611	608	597	-1.8
NL	367	364	409	434	464	477	494	499	1.0
AT	388	452	511	504	530	546	562	566	0.7
PL	138	195	261	323	453	546	617	642	4.0
PT	185	255	333	400	444	457	514	530	3.0
RO	56	97	124	158	214	261	332	357	7.5
SI	294	357	435	479	518	523	549	556	1.2
SK	166	189	237	243	310	375	426	439	3.0
FI	388	371	412	462	535	594	633	647	2.1
SE	419	411	450	459	460	474	476	473	-0.6
UK	361	378	425	467	465	477	488	491	0.6
ME			0	0	266	283	332	350	5.6
MK	0	145	148	124	151	185	200	205	2.7
AL	0	18	37	62	101	140	161	176	9.3
RS			0	200	216	259	287	301	4.8
TR	0	49	68	84	102	134	151	150	-0.6
IS	468	445	561	625	643	681	749	741	-1.1
LI	582	609	663	699	744	766	780	774	-0.8
NO	380	386	411	437	469	501	516	522	1.0
CH	442	457	492	518	518	535	539	537	-0.3

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

Road

PASSENGER CARS

2.6.2

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27	142 906	160 511	176 926	193 282	212 324	228 092	242 902	247 371	1.8
EU-28	168 363	190 917	201 993	221 608	241 658	259 263	275 395	280 255	1.8
BE	3 864	4 273	4 678	4 919	5 276	5 624	5 854	5 889	0.6
BG	1 317	1 648	1 993	2 538	2 602	3 162	2 773	2 830	2.0
CZ	2 410	3 043	3 439	3 959	4 496	5 115	5 748	5 925	3.1
DK	1 590	1 679	1 854	1 965	2 164	2 391	2 594	2 652	2.2
DE	36 772	40 499	39 059	40 660	42 302	45 071	47 096	47 716	1.3
EE	241	383	464	494	553	677	746	795	6.5
IE	801	998	1 333	1 684	1 899	2 007	2 128	2 197	3.2
EL	1 736	2 205	3 195	4 303	5 217	5 108	5 283	5 407	2.3
ES	11 996	14 212	17 449	20 250	22 147	22 356	24 074	24 558	2.0
FR	27 072	27 872	29 808	30 497	32 676	36 978	38 371	38 335	-0.1
HR	580	711	1 125	1 385	1 515	1 500	1 666	1 725	3.5
IT	27 416	30 301	32 584	34 667	36 751	37 351	39 018	39 545	1.4
CY	179	220	268	355	463	488	551	573	4.0
LV	283	332	557	742	637	679	708	727	2.7
LT	493	718	1 172	1 455	1 692	1 244	1 431	1 499	4.8
LU	183	229	273	307	337	381	415	426	2.7
HU	1 944	2 245	2 365	2 889	2 984	3 197	3 642	3 812	4.7
MT	120	181	189	213	241	275	300	307	2.3
NL	5 509	5 633	6 539	7 092	7 736	8 101	8 531	8 678	1.7
AT	2 991	3 594	4 097	4 157	4 441	4 748	4 979	5 040	1.2
PL	5 261	7 517	9 991	12 339	17 240	20 723	23 429	24 360	4.0
PT	1 849	2 560	3 443	4 200	4 692	4 723	5 283	5 452	3.2
RO	1 292	2 197	2 778	3 364	4 320	5 155	6 453	6 903	7.0
SI	587	711	866	960	1 062	1 079	1 143	1 165	1.9
SK	880	1 016	1 274	1 304	1 669	2 035	2 322	2 394	3.1
FI	1 939	1 901	2 135	2 430	2 877	3 258	3 495	3 575	2.3
SE	3 601	3 631	3 999	4 154	4 335	4 669	4 870	4 887	0.4
UK	20 722	21 951	25 067	28 326	29 334	31 171	32 493	32 884	1.2
ME					165	176	206	218	5.6
MK		286	300	253	310	384	415	426	2.6
AL		59	115	195	295	404	460	500	8.6
RS				1 481	1 566	1 835	2 000	2 084	4.2
TR		3 059	4 422	5 773	7 545	10 589	12 398	12 503	0.8
IS	120	119	159	187	205	226	267	270	0.9
LI	17	19	22	24	27	29	30	30	0.2
NO	1 613	1 685	1 852	2 029	2 309	2 610	2 752	2 801	1.8
CH	2 985	3 229	3 545	3 861	4 076	4 458	4 603	4 624	0.5

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

Taxis are usually included.

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

FR: data revision since 2012, due to new methodology developed in 2020; data until 2012 included private cars < 15 years old.

2.6.3

Road

BUSES AND COACHES

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27	665.3	678.1	692.9	689.6	707.6	725.9	756.4	769.3	1.7
EU-28	740.3	754.0	781.5	795.2	819.2	839.3	868.5	880.2	1.4
BE	15.6	14.6	14.7	15.4	16.2	16.1	16.1	16.5	2.6
BG	34.6	41.8	43.0	37.8	24.5	24.1	20.8	20.7	-0.6
CZ	20.5	20.5	19.0	20.9	20.4	20.7	22.0	22.2	0.8
DK	8.1	13.7	14.0	14.4	14.5	13.4	13.2	13.0	-1.2
DE	100.4	85.4	77.2	75.2	76.5	78.3	80.5	81.4	1.0
EE	7.9	7.0	6.1	5.2	4.2	4.8	5.0	5.2	4.4
IE	4.0	5.3	7.0	7.6	8.2	9.3	10.9	11.4	4.4
EL	21.4	24.6	27.0	26.8	27.3	26.6	26.4	26.5	0.3
ES	45.8	47.4	54.7	58.2	62.4	60.3	64.9	65.5	0.9
FR	70.0	79.0	85.7	90.1	91.5	99.0	100.7	101.5	0.8
HR	5.8	3.9	4.7	4.9	4.9	5.3	5.9	6.0	2.8
IT	77.7	75.0	88.0	94.4	99.9	98.0	100.0	100.1	0.1
CY	2.3	2.7	2.9	3.2	3.4	2.7	3.1	3.2	2.2
LV	12.1	16.5	11.5	10.6	5.4	4.8	4.6	4.5	-1.8
LT	15.2	17.6	15.5	15.3	13.7	6.9	7.5	7.6	1.7
LU	0.8	0.9	1.1	1.3	1.6	1.9	2.0	2.2	5.7
HU	26.4	20.5	17.9	17.5	17.6	18.1	19.1	19.5	1.7
MT	1.0	1.0	1.1	1.1	1.8	2.0	2.1	2.1	0.0
NL	12.1	11.6	11.4	11.0	11.3	9.4	9.7	9.9	1.6
AT	9.4	9.8	9.9	9.3	9.6	9.7	10.0	10.1	1.1
PL	92.4	85.4	82.6	79.6	97.0	109.8	119.5	122.6	2.6
PT	12.1	15.0	19.8	14.7	15.4	14.7	15.5	17.8	15.0
RO	28.3	42.0	40.7	39.3	40.9	47.3	51.8	53.8	3.8
SI	3.1	2.5	2.3	2.3	2.4	2.6	2.8	2.9	1.8
SK	14.3	11.8	10.9	9.1	9.4	9.3	9.1	9.0	-1.0
FI	9.3	8.1	9.9	10.9	13.7	16.9	18.5	19.1	3.3
SE	14.6	14.6	14.4	13.5	13.9	14.1	14.4	14.9	3.7
UK	75.0	75.9	88.6	105.6	111.5	113.3	112.1	110.9	-1.1
ME						1.3	1.5	1.5	2.1
MK	2.3	2.5	2.5	2.3	2.7	3.2	3.2	3.1	-1.8
AL		6.7	16.8	29.5	7.0	6.4	7.1	7.5	5.0
RS				9.7	8.0	9.5	9.9	10.4	5.7
TR	188.1	263.2	354.3	501.9	595.5	666.3	706.1	706.7	0.1
IS	1.3	1.3	1.7	1.9	1.9	2.5	3.2	3.2	-0.1
LI			0.1	0.1	0.1	0.1	0.1	0.1	3.0
NO	21.2	32.5	36.7	28.8	20.3	16.7	15.6	15.9	1.5
CH	31.2	36.5	40.3	45.8	52.8	65.7	78.0	83.1	6.5

NB: 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
(BG: includes trolleybuses).

Road GOODS VEHICLES

2.6.4

STOCK OF REGISTERED VEHICLES

1 000									%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27		20 297	23 988	27 389	31 401	32 669	34 764	35 612	2.4
EU-28		22 862	26 917	30 942	35 198	36 911	39 417	40 384	2.5
BE	380	442	548	662	738	815	906	938	3.5
BG	162	223	259	334	334	444	438	452	3.2
CZ		219	298	439	598	652	711	724	1.8
DK	287	334	385	470	485	437	432	423	-2.2
DE	1 653	2 379	2 419	2 405	2 619	2 995	3 368	3 495	3.8
EE	68	66	82	86	81	102	122	131	7.8
IE	143	142	206	287	327	331	355	367	3.2
EL	766	884	1 057	1 186	1 319	1 333	1 359	1 374	1.1
ES	2 401	3 024	3 923	4 850	5 303	5 047	5 207	5 249	0.8
FR	4 840	5 116	5 152	5 347	6 705	6 837	6 947.5	7 013.5	0.9
HR		73	123	163	158	149	181.4	193.7	6.8
IT	2 208	2 510	3 087	3 786	4 142	4 098	4 314.0	4 368.4	1.3
CY	74	101	115	118	121	104	111.0	114.5	3.2
LV		69	97	113	72	86	89.2	91.3	2.4
LT	83	109	99	122	134	103	125.7	135.9	8.1
LU	11	16	25	30	36	40	45.0	47.0	4.4
HU	262	278	353	413	451	496	570.5	598.6	4.9
MT		41	51	44	42	44	48.8	50.6	3.7
NL	553	654	899	1 005	1 004	963	1 057.8	1 084.4	2.5
AT	262	303	344	358	397	444	495.2	513.9	3.8
PL		1 354	1 879	2 305	2 982	3 428	3 758.0	3 883.5	3.3
PT	781	912	1 313	1 308	1 337	1 313	1 369.7	1 513.0	10.5
RO	259	343	427	494	667	856	1 034.3	1 090.0	5.4
SI	31	43	54	66	84	91	110.4	116.0	5.1
SK	92	103	114	174	276	303	324.7	326.4	0.5
FI	264	252	304	364	464	561	626.8	649.1	3.6
SE	310	308	374	461	526	596	656.1	669.2	2.0
UK	2 706	2 565	2 928	3 552	3 797	4 242	4 652.2	4 772.1	2.6
ME						14	18.2	19.6	7.7
MK		23	25	18	33	39	42.6	43.7	2.4
AL		29	46	47	84	71	70.9	70.8	0.0
RS				118	152	140	228.9	241.2	5.4
TR		830	1 352	2 152	3 125	4 060	4 601.0	4 641.4	0.9
IS	13	15	19	26	30	33	40.5	41.8	3.1
LI			2	3	3	3	3.4	3.5	2.6
NO	308	350	414	465	527	554	566.2	576.3	1.8
CH	252	262	279	307	335	394	428.8	452.1	5.4

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

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: include special purpose vehicles.

2.6.5

Road

POWERED TWO-WHEELERS

STOCK OF REGISTERED VEHICLES

1 000								%
	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27		22 418.2	28 596.9	31 120.7	32 294.1	34 538.2	35 235.6	2.0
EU-28		23 389.2	29 831.9	32 385.1	33 547.2	35 803.3	36 509.0	2.0
BE		277.8	346.3	412.9	461.8	649.2	644.2	-0.8
BG	519.3	520.5	146.5	125.4	163.3	190.0	199.1	4.8
CZ	915.2	748.1	794.0	924.3	1 046.5	1 132.1	1 163.1	2.7
DK	58.0	138.3	171.9	203.6	198.0	199.2	194.3	-2.5
DE	3 995.5	4 438.1	5 202.9	3 827.9	4 228.2	4 438.6	4 506.4	1.5
EE	3.3	6.7	10.2	19.7	45.5	54.5	57.9	6.2
IE	23.5	30.6	34.3	38.1	37.0	40.2	42.5	5.7
EL		781.4	1 124.2	1 499.1	1 653.5	1 609.9	1 637.6	1.7
ES	1 301.2	1 445.6	4 117.6	4 997.7	5 102.7	5 393.2	5 515.7	2.3
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	157.4	159.4	1.3
IT	6 228.3	7 826.9	9 298.4	8 855.0	8 965.6	9 354.7	9 521.5	1.8
CY	50.4	43.3	40.4	40.7	39.3	39.8	39.7	-0.2
LV	15.8	20.7	32.5	36.7	49.3	55.9	60.4	8.1
LT	20.0	19.8	24.0	56.3	37.8	45.3	53.2	17.4
LU	28.4	32.8	37.7	42.1	28.3	30.6	30.8	0.6
HU		91.2	122.7	142.3	162.8	176.1	185.9	5.6
MT	17.4	12.4	12.0	14.7	19.2	27.3	30.3	10.8
NL	855.0	970.8	1 112.9	1 664.3	1 803.4	1 895.9	1 929.3	1.8
AT	546.4	632.7	627.7	727.9	799.9	847.4	860.8	1.6
PL	929.0	803.0	1 091.2	1 935.1	2 531.5	2 852.8	2 962.0	3.8
PT	216.3	345.9	588.4	498.0	527.6	616.1	660.9	7.3
RO	327.7	239.2	197.4	85.2	112.9	136.4	148.4	8.8
SI	8.5	11.2	48.7	91.0	100.3	130.9	135.8	3.7
SK	81.8	45.6	56.4	87.9	120.6	140.5	147.5	5.0
FI	159.5	193.4	301.8	486.8	581.1	613.7	624.0	1.7
SE	264.2	310.1	453.1	570.2	632.6	676.5	690.9	2.1
UK	714.0	971.0	1 235.0	1 264.4	1 253.1	1 265.1	1 273.4	0.7
ME					4.2	5.7	6.3	10.5
MK			1.7	7.8	10.1	13.3	12.0	-10.1
AL	6.9	3.8	7.2	24.0	33.1	33.7	37.1	10.2
RS			16.0	37.9	64.2	62.4	72.0	15.4
TR	819.9	1 011.3	1 441.1	2 389.5	2 938.4	3 211.3	3 331.3	3.7
IS	1.9	2.3	4.2	9.7	10.4	13.4	13.7	2.4
LI		2.6	3.1	3.7	4.3	4.7	4.7	0.1
NO	158.6	201.6	257.5	315.5	354.3	356.0	357.7	0.5
CH	688.5	712.7	748.0	790.8	871.3	940.6	955.8	1.6

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.

Road

PASSENGER CARS

2.6.6

NEW VEHICLE REGISTRATIONS

	1 000					Zero emission vehicles (%) *			%
	2005	2010	2015	2019	2020	2015	2019	2020	CHANGE '19/'20
EU-27	12 754.6	11 407.4	11 079.9	13 026.6	9 936.3	0.4	1.9	5.4	-23.7
EU-28	15 194.3	13 438.2	13 713.4	15 337.8	11 567.4	0.4	1.9	5.6	-24.6
BE	480.1	547.3	501.1	550.0	431.5	0.3	1.6	3.5	-21.5
BG	32.7	15.6	24.3	39.4	27.2	0.0	0.5	1.0	-31.0
CZ	151.7	169.6	230.9	249.9	203.0	0.1	0.3	1.6	-18.8
DK	146.9	153.6	207.0	225.4	198.2	2.2	2.5	7.2	-12.1
DE	3 319.3	2 916.3	3 206.0	3 607.3	2 917.7	0.4	1.7	6.6	-19.1
EE	19.6	10.3	21.0	27.6	19.3	0.2	0.3	1.9	-30.1
IE	171.7	88.4	124.8	117.1	88.3	0.4	3.1	4.5	-24.6
EL	269.7	141.5	75.8	114.2	81.0	0.1	0.2	0.8	-29.1
ES	1 528.9	982.0	1 034.2	1 258.3	851.2	0.1	0.8	2.1	-32.3
FR	2 067.8	2 251.7	1 917.2	2 214.3	1 650.1	0.9	1.9	6.7	-25.5
HR	102.1	46.2	35.7	62.9	36.1	0.1	0.4	1.4	-42.7
IT	2 237.4	1 961.6	1 569.1	1 917.0	1 381.6	0.1	0.6	2.4	-27.9
CY	19.2	15.1	10.1	12.6	10.2	0.0	0.5	0.4	-18.8
LV	16.6	6.4	13.8	18.2	13.5	0.1	0.6	2.1	-25.9
LT	10.5	8.0	17.1	46.4	40.3	0.1	0.4	1.1	-13.0
LU	48.5	49.7	46.5	54.9	45.1	0.2	1.8	5.6	-17.9
HU	199.0	43.5	77.2	157.9	128.0	0.2	1.2	2.3	-18.9
MT	6.6	4.1	7.1	7.7	4.6	0.5	3.7	3.0	-40.2
NL	465.2	482.6	448.9	445.2	355.6	0.7	13.9	20.6	-20.1
AT	307.9	328.6	308.6	329.4	248.7	0.5	2.8	6.4	-24.5
PL	235.5	333.5	352.4	553.9	428.5	0.0	0.3	0.9	-22.6
PT	206.5	223.5	178.5	223.8	145.1	0.4	3.1	5.4	-35.1
RO (1)	172.5	106.3	81.2	161.6	126.4	0.0	1.0	2.3	-21.8
SI	59.3	61.1	59.7	59.9	40.2	0.2	1.0	4.1	-32.8
SK	57.1	64.0	78.0	101.6	76.3	0.2	0.2	1.2	-24.9
FI	147.9	107.3	108.8	114.2	96.4	0.2	1.7	4.4	-15.6
SE	274.3	289.7	345.1	356.0	292.0	0.9	4.4	9.6	-18.0
UK	2 439.7	2 030.8	2 633.5	2 311.1	1 631.1	0.4	1.7	6.6	-29.4
ME		8.6	13.7	19.8	16.4				-17.2
MK	15.9	49.3	29.3	39.2	33.0				-15.9
AL									
RS			112.6	167.8	166.2				-0.9
TR	406.8	485.6	746.4	386.8	601.5	0.0	0.1	0.1	55.5
IS	18.1	3.1	14.0	11.7	9.4	2.8	9.8	27.0	-20.1
NO	109.9	127.8	150.7	142.4	141.4	17.1	42.4	54.3	-0.7
CH	264.9	292.5	321.7	311.3	236.7	1.0	4.2	8.2	-24.0

NB: 2020 figures are provisional.

(*) Zero emission vehicles include battery electric vehicles and hydrogen vehicles;

(1) Data for Romania refers to sales (APIA).

For registrations, see ACAROM figures at www.acea.be

2.6.7

Road

GOODS VEHICLES

NEW VEHICLE REGISTRATIONS

LIGHT COMMERCIAL			COMMERCIAL VEHICLES		HEAVY COMMERCIAL		TOTAL		%	
<3.5 t			>3.5 t & <16 t		>16 t					
										CHANGE '19/'20
2019		2020	2019	2020	2019	2020	2019	2020		
EU-27	1751311	1440352					2084223	1689483	-18.9	
EU-28	2127168	1741901					2515513	2028651	-19.4	
BE	85101	75750	2672	2323	9744	6375	97517	84448	-13.4	
BG	10331	6501	(1)	(1)	(1)	(1)	10331	6501	-37.1	
CZ	20440	17115	1502	1219	8393	5998	30335	24332	-19.8	
DK	33045	30493	457	563	4583	4546	38085	35602	-6.5	
DE	304925	267981	28273	22538	71267	52117	404465	342636	-15.3	
EE	4450	3301	51	48	1006	457	5507	3806	-30.9	
IE	25091	21512	556	477	1869	1641	27516	23630	-14.1	
EL	7878	6848	145	212	289	351	8312	7411	-10.8	
ES	214975	158108	3971	3159	20793	16176	239739	177443	-26.0	
FR	478375	401154	6742	5962	49519	36737	534636	443853	-17.0	
HR	9143	7004	284	181	1127	725	10554	7910	-25.1	
IT	186334	158462	4525	3701	18679	16279	209538	178442	-14.8	
CY	1894	1440	108	73	12	12	2014	1525	-24.3	
LV	2700	2119	61	60	1169	654	3930	2833	-27.9	
LT	4424	2979	147	95	7266	4093	11837	7167	-39.5	
LU	5401	4727	143	196	1216	849	6760	5772	-14.6	
HU	26203	22041	514	321	4760	2950	31477	25312	-19.6	
MT	779	630	(1)	(1)	(1)	(1)	779	630	-19.1	
NL	75860	60103	1957	1614	14025	9217	91842	70934	-22.8	
AT	43413	36539	742	507	7503	5262	51658	42308	-18.1	
PL	67908	56954	2757	2367	25877	18319	96542	77640	-19.6	
PT	38392	27297	829	823	3973	3812	43194	31932	-26.1	
RO	18037	14266	411	318	6536	4186	24984	18770	-24.9	
SI	8597	6256	143	94	2122	1252	10862	7602	-30.0	
SK	8543	6375	369	208	3000	1511	11912	8094	-32.1	
FI	15261	13389	598	597	2914	2328	18773	16314	-13.1	
SE	53811	31008	568	408	6745	5220	61124	36636	-40.1	
UK	375857	301549	55433	37619	(2)	(2)	431290	339168	-21.4	
IS	1368	1025	138	94	162	100	1668	1219	-26.9	
NO	37723	32101	2012	1871	5378	4092	45113	38064	-15.6	
CH	40119	34612	1122	1063	3609	3085	44850	38760	6.7	

NB: (¹) Data included under 'Light commercial vehicles'.

(²) 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.

Road

BUSES AND COACHES

2.6.8

NEW VEHICLE REGISTRATIONS

LIGHT BUSES & COACHES			BUSES & COACHES		HEAVY BUSES & COACHES		TOTAL		%
<3.5 t			>3.5 t & <16 t		>16 t				
	2019	2020	2019	2020	2019	2020	2019	2020	CHANGE '19/'20
EU-27							38 313	29 079	-24.1
EU-28							45 539	34 281	-24.7
BE	1	0	230	220	1 056	547	1 287	767	-40.4
BG	346	167	(¹)	(¹)	(¹)	(¹)	346	167	-51.7
CZ	1	4	90	66	1 150	1 197	1 241	1 267	2.1
DK	1 101	403	288	200	127	7	1 516	610	-59.8
DE	9	10	886	784	5 199	5 639	6 094	6 433	5.6
EE	0	0	52	75	155	148	207	223	7.7
IE	48	24	123	70	347	74	518	168	-67.6
EL	108	85	125	110	142	110	375	305	-18.7
ES	0	0	677	349	2 541	1 741	3 218	2 090	-35.1
FR	0	0	1 265	941	5 515	5 109	6 780	6 050	-10.8
HR	0	0	61	22	253	92	314	114	-63.7
IT	38	24	1 415	913	2 698	1 985	4 151	2 922	-29.6
CY ⁽²⁾	19	246	(¹)	(¹)	(¹)	(¹)	19	246	1194.7
LV	2	0	76	53	41	56	119	109	-8.4
LT	0	0	229	152	286	163	515	315	-38.8
LU	0	0	32	17	240	180	272	197	-27.6
HU	3	0	95	188	611	444	709	632	-10.9
MT	33	96	40	51	2	2	75	149	98.7
NL	2	0	98	45	836	600	936	645	-31.1
AT	4	1	100	72	1 014	775	1 118	848	-24.2
PL	3 598	1 599	(¹)	(¹)	(¹)	(¹)	3 598	1 599	-55.6
PT	0	0	215	183	303	286	518	469	-9.5
RO	5	5	1 241	534	663	283	1 909	822	-56.9
SI	0	0	53	26	149	47	202	73	-63.9
SK	0	0	50	20	315	209	365	229	-37.3
FI	1	1	277	144	315	139	593	284	-52.1
SE	1	1	384	226	933	1 119	1 318	1 346	2.1
UK	7 226	5 202	(¹)	(¹)	(¹)	(¹)	7 226	5 202	-28.0
IS	47	13	4	8	48	8	99	29	-70.7
NO	36	26	450	295	1 844	1 087	2 330	1 408	-39.6
CH	136	161	170	109	476	462	782	732	-6.4

NB: (¹) Figures included in other categories.

(²) The high increase is caused by the renewal of the vehicle fleet of one of the major urban transport companies in Cyprus.

2.6.9

Road
MOTORCYCLES

NEW VEHICLE REGISTRATIONS

	1 000							%
	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27			1 229.0	1 000.0	794.7	912.1	991.2	8.7
EU-28			1 337.1	1 081.3	900.4	1 012.5	1 092.4	7.9
BE		25.3	25.0	26.4	21.6	23.9	24.2	1.1
BG		1.2	0.6	0.9	0.8	0.9	0.9	-3.1
CZ	6.9	3.9	7.6	5.4	13.4	13.9	15.1	8.5
DK	2.3	3.3	5.8	2.6	2.2	3.5	3.2	-7.4
DE	218.2	252.6	168.7	122.3	151.7	156.1	166.7	6.8
EE		0.1	0.3	0.5	0.5	0.6	0.7	21.2
IE		3.8	2.4	1.1	1.0	1.4	1.7	25.3
EL		64.0	83.1	61.5	32.5	32.6	37.2	14.1
ES		72.0	205.6	134.3	132.5	159.9	177.0	10.7
FR		179.6	196.6	231.6	153.2	177.2	197.5	11.4
HR			6.7	2.9	1.5	2.8	3.2	16.5
IT		524.6	420.5	306.3	172.1	219.7	231.7	5.4
CY			2.5	3.1	1.7	2.3	1.9	-16.5
LV			0.4	0.3	0.6	0.8	1.0	29.2
LT		0.4	1.7	0.2	0.3	0.4	0.6	34.5
LU	1.0	1.3	1.3	1.6	1.7	2.0	2.1	6.2
HU			12.5	3.2	2.1	3.1	4.1	33.1
MT			0.4	0.6	1.3	2.5	3.1	24.2
NL	17.8	19.6	16.8	15.2	11.7	13.5	14.4	6.7
AT	18.7	23.8	19.1	21.4	24.9	26.0	27.7	6.5
PL			3.8	8.7	23.9	14.6	19.2	32.0
PT	12.1	17.7	11.2	18.9	17.6	28.3	29.9	5.4
RO			0.8	1.6	1.3	2.7	3.9	45.2
SI		1.2	2.5	2.7	1.9	2.3	2.3	-0.6
SK			1.2	2.3	5.3	5.3	5.7	8.8
FI		5.2	9.2	9.5	3.2	3.2	3.3	3.7
SE		18.4	22.8	14.8	14.4	12.7	12.8	0.8
UK		121.9	108.1	81.3	105.7	100.4	101.3	0.9
ME					0.7	0.9	1.1	20.7
MK	1.0	0.5	0.1	3.2	2.4	3.0	3.2	3.8
AL								
RS				8.0	3.9	3.7	3.9	6.6
TR			227.7	135.6	162.8	110.4	94.5	-14.4
IS		0.2	1.1					
NO			6.2	7.0	6.8	11.3	10.5	-7.1
CH		30.6	40.2	38.2	47.7	40.8	39.2	-4.1

NB: SE: Since 2010 national figures are used.
MT: including e-bicycles.

Road MOPEDS

2.6.10

NEW VEHICLE DELIVERIES

	1 000						%
	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27				336.5	288.9	324.7	12.4
EU-28				345.9	294.3	330.8	12.4
BE	33.2	17.3	14.2	12.4	21.4	27.1	26.6
BG	2.1	1.1	2.1	0.8	0.8	1.0	25.2
CZ		8.0	2.9	1.5	0.9	1.1	23.3
DK	9.8	4.9	17.6	8.0	5.6	6.1	9.3
DE	108.7	97.3	64.9	32.6	25.6	25.2	-1.5
EE		8.0	0.0	0.7	0.6	0.6	-13.6
IE	3.0	0.8	0.2	0.2	0.2	0.2	-1.8
EL	19.2	24.1	18.9	8.6	3.4	2.4	-30.1
ES	248.6	115.1	34.2	16.0	16.1	18.7	16.1
FR	192.3	154.9	144.5	89.6	72.9	91.0	24.8
HR		13.2	6.4	1.8	2.5	1.9	-25.5
IT	311.8	128.3	90.2	24.6	21.3	21.1	-0.9
CY		2.1	0.5	0.2	0.3	0.3	-9.4
LV		0.6	1.0	1.0	0.6	0.8	24.1
LT			1.2	0.7	0.3	0.3	1.2
LU	0.5	0.5	0.7	0.9	0.3	0.4	31.1
HU			3.6	3.3	3.2	3.2	-0.2
MT				0.0	0.1	0.7	548.6
NL	66.9	40.9	90.7	66.0	59.4	62.3	5.0
AT	21.3	27.7	24.9	13.8	11.9	12.7	6.6
PL		23.3	72.2	30.4	16.4	19.1	16.2
PT	15.0		4.6	2.6	2.5	2.2	-11.8
RO			1.1	0.0	0.0	0.0	-37.9
SI		3.1	3.5	2.3	5.2	4.3	-17.9
SK		2.0	1.8	0.6	0.2	0.3	50.0
FI	6.4	20.9	17.9	7.0	4.9	5.2	6.1
SE	10.0	15.4	13.3	10.6	11.6	16.0	37.8
UK	48.2	24.7	14.5	9.4	5.4	6.1	13.6
ME							
MK							
AL							
RS			8.8	2.4	1.9	2.2	17.8
TR			1.5	2.3	46.6	60.1	28.9
IS							
NO		11.9	8.1	7.4	4.2	3.3	-22.2
CH	19.4	3.1	3.1	0.8	0.8	0.9	12.7

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 2020									
	TOTAL FLEET CONTROLLED		NATIONAL FLAG (*)		FOREIGN FLAG (INCLUDING OTHER EU)		% OF FOREIGN FLAG IN TOTAL FLEET		
	Number	mio dwt	Number	mio dwt	Number	mio dwt	Number	mio dwt	
EU-27	12 499	667.891	2 887	129.467	9 612	538.424			
EU-28	13 288	705.886	3 072	135.573	10 216	570.313			
BE	249	28.455	90	10.044	159	18.411	63.9	64.7	
BG	74	1.779	14	0.119	60	1.660	81.1	93.3	
CZ	-	-	-	-	-	-	-	-	
DK	882	45.176	361	20.410	521	24.766	59.1	54.8	
DE	2626	89.098	177	8.227	2449	80.871	93.3	90.8	
EE	83	0.655	9	0.017	74	0.638	89.2	97.4	
IE	96	1.732	40	0.370	56	1.362	58.3	78.6	
EL	4926	394.594	688	65.545	4238	329.049	86.0	83.4	
ES	197	3.458	86	0.514	111	2.944	56.3	85.1	
FR	321	16.226	118	3.528	203	12.698	63.2	78.3	
HR	81	2.390	56	1.699	25	0.691	30.9	28.9	
IT	1103	50.159	417	10.364	686	39.795	62.2	79.3	
CY	155	6.023	48	1.801	107	4.222	69.0	70.1	
LV	50	0.285	3	0.007	47	0.278	94.0	97.5	
LT	52	0.230	17	0.103	35	0.127	67.3	55.2	
LU	12	1.201	-	-	12	1.201	100.0	100.0	
HU	-	-	-	-	-	-	-	-	
MT	45	0.957	28	0.334	17	0.623	37.8	65.1	
NL	896	11.779	566	4.704	330	7.075	36.8	60.1	
AT	4	0.031	-	-	4	0.031	100.0	100.0	
PL	111	2.672	4	0.011	107	2.661	96.4	99.6	
PT	50	1.490	21	0.117	29	1.373	58.0	92.1	
RO	84	0.993	2	0.024	82	0.969	97.6	97.6	
SI	2	0.008	-	-	2	0.008	100.0	100.0	
SK	-	-	-	-	-	-	-	-	
FI	104	1.884	64	0.669	40	1.215	38.5	64.5	
SE	296	6.616	78	0.860	218	5.756	73.6	87.0	
UK	789	37.995	185	6.106	604	31.889	76.6	83.9	
ME	4	0.140	4	0.140	-	-	0.0	0.0	
MK	-	-	-	-	-	-	-	-	
AL	27	0.092	12	0.030	15	0.062	55.6	67.4	
RS	-	-	-	-	-	-	-	-	
TR	1496	28.772	402	6.090	1 094	22.682	73.1	78.8	
IS	14	0.086	3	0.001	11	0.085	78.6	98.8	
NO	1741	81.014	619	18.437	1 122	62.577	64.4	77.2	
CH	181	8.652	21	0.975	160	7.677	88.4	88.7	

NB: (*) Including international registers like NIS and DIS.
Including vessels registered at territorial dependencies.

Sea – WORLD MERCHANT FLEET 2.6.12a

BY WORLD REGION

TOTAL CONTROLLED FLEET BY WORLD REGION

dwt (million)								
On 1 January								
World region	1995	2000	2005	2010	2015	2018	2019	2020
Europe (*)	311.246	350.136	400.947	518.276	739.100	805.649	843.062	866.235
of which: EU-27 (**)	223.564	257.975	316.850	432.246	578.157	642.827	654.901	667.891
North America	51.024	49.413	45.414	50.539	82.881	88.228	93.243	87.887
Latin America	18.691	15.679	14.422	30.867	29.608	26.115	27.835	33.609
Asia / Oceania	246.722	292.722	361.311	532.446	805.594	887.850	931.773	983.390
Africa	6.742	7.121	5.142	6.981	13.451	15.183	15.183	15.529
Unknown	37.956	38.115	52.687	86.555	4.561	3.025	5.852	5.607
TOTAL	672.381	753.226	879.923	1 225.665	1 675.195	1 826.050	1 872.817	1 961.597

SHARE OF EU IN TOTAL AND OF FOREIGN FLAG IN EU

EU-27 (**)	%							
Control of total	33.2	34.2	36.0	35.3	34.5	35.2	35.0	34.0
Foreign flag share (***)	56.5	68.1	67.8	69.4	75.5	78.9	80.2	80.6

NB: Only ships of 1 000 gt and over.

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

(**) EU-27 since 2012.

(***) Foreign flag share includes ships registered by EU countries in other EU countries.

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 2020	Number			dwt (1 000)		
(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
TOTAL FLEET	45 374	12 499	28	1 961 597	667 891	34
Tankers	13 161	3 489	27	717 527	254 507	35
OF WHICH:						
Crude oil and oil product tankers	6 149	1 507	25	520 506	191 048	37
Oil / chemical tankers	5 195	1 509	29	121 068	44 383	37
Liquid gas tankers	1 817	473	26	73 280	19 076	26
Bulk carriers	11 716	3 115	27	848 811	247 116	29
Container ships	5 338	2 373	44	274 623	134 975	49
General cargo	12 531	2 732	22	1 138 14	28 584	25
OF WHICH:						
Conventional cargo	8 446	1 578	19	447 33	9 155	20
Special cargo (*)	1 765	641	36	45 385	12 975	29
Pure car carriers	771	79	10	12 441	1 206	10
Reefer	626	147	23	3 837	1 354	35
Ro-Ro cargo	923	287	31	7 417	3 895	53
Passenger and passenger cargo	2 471	746	30	6 825	2 375	35

FOR TRANSPORT OF GOODS AND PASSENGERS / CARGO SHIPS / CRUISE SHIPS BY REGISTERED FLAG

NUMBERS AND GROSS TONS						
On 1 January 2020	Number			gt (1 000)		
(ships of 300 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
TOTAL	5 057	1 341	27	43 818	17 215	42
Cargo passenger and Ro-Ro passenger ships	2 978	838	28	18 308	9 260	49
Passenger (not Ro-Ro)	2 079	503	24	25 510	7 954	30

Up to December 2020 (**)

(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
Cruise ships by registered flag	349	110		24 018	7 693	32

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.

Air

PASSENGER AIRCRAFT

2.6.13

NUMBER OF CIVIL AIRCRAFT IN SERVICE

PASSENGER AIRCRAFT					
On 31 December 2020					
	50 seats or less	51 to 150 seats	151 to 250 seats	251 seats and more	TOTAL
EU-27	113	666	1 315	329	2 423
EU-28	144	705	1 527	400	2 776
BE	1	15	15	15	46
BG		14	10	1	25
CZ	4	5	17		26
DK	10	7	4	2	23
DE	9	78	105	54	246
EE	2	2			4
IE	1	11	286	8	306
EL	8	12	45		65
ES	5	91	130	47	273
FR	35	95	92	76	298
HR	1	9	2		12
IT		49	24	9	82
CY		1			1
LV	1	23	3		27
LT	3	1	5	1	10
LU		9	4		13
HU	1		90		91
MT	1	1	140	2	144
NL	5	65	63	61	194
AT	3	31	77	3	114
PL	3	41	74	8	126
PT	5	33	42	21	101
RO	1	16	13		30
SI	4	1			5
SK			3		3
FI		26	4	13	43
SE	10	30	67	8	115
UK	31	39	212	71	353
ME					0
MK					
AL		1	4		5
RS		14	1	1	16
TR	2	5	257	67	331
IS	9	2	5	4	20
LI					
NO	33	13	5		51
CH	10	36	46	13	105

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 2020

	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	115	251	19	120	1 828
EU-28	124	297	19	138	2 149
BE	1	36			63
BG		6			15
CZ				1	62
DK	4	14	7	1	69
DE	4	88		46	440
EE	9				14
IE	14	15			28
EL	5	1		3	16
ES	27	11	5	9	62
FR		19	2	2	143
HR					16
IT	3	9		19	72
CY					12
LV	2				1
LT		1	3	1	12
LU	1	26		6	84
HU	6	2	1		15
MT		6			202
NL		4		1	32
AT	2			7	222
PL	17		1		44
PT		4		4	117
RO					11
SI		2			14
SK					14
FI		3			12
SE	20	4		20	36
UK	9	46		18	321
ME					2
MK					5
AL					1
RS					25
TR		31		17	84
IS		11		2	
LI					3
NO				2	13
CH	6	3		5	132

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.

Rail

2.6.15

LOCOMOTIVES AND RAILCARS

STOCK OF VEHICLES

	1990	2000	2005	2010	2015	2018	2019	% CHANGE '18/'19
EU-27			46 374	53 322	53 495	52 617	53 712	2.1
EU-28			49 551	64 032	64 842	63 964	65 059	1.7
BE	1 727	1 670	1 518	1 341	1 188	1 188	1 188	0.0
BG	1 119	762	669	624	440	455	450	-1.1
CZ		3 596	3 163	2 258	2 285	2 253	2 162	-4.0
DK	524	415	464	495	881	723	741	2.5
DE	14 437	9 656	7 742	15 613	16 613	16 480	16 804	2.0
EE	300	196	344	374	358	343	266	-22.4
IE	166	224	412	572	482	482	482	0.0
EL	400	244	289	306	258	258	258	0.0
ES	1 922	1 693	1 946	1 732	1 634	1 481	1 595	7.7
FR	7 422	7 158	6 948	6 849	7 614	7 609	7 566	-0.6
HR	563	480	377	284	298	298	266	-10.7
IT	4 818	4 697	4 674	4 494	2 631	2 137	2 048	-4.2
CY	-	-	-	-	-	-	-	-
LV	739	433	358	196	204	177	177	0.0
LT	389	419	365	275	240	227	224	-1.3
LU	97	124	145	91	89	100	119	19.0
HU	2 040	1 453	1 385	1 275	1 225	1 081	1 081	0.0
MT	-	-	-	-	-	-	-	-
NL	2 372	1 965	2 078	2 411	2 780	3 272	3 333	1.9
AT	1 543	1 530	1 500	2 081	1 972	2 039	2 124	4.2
PL	5 483	5 293	5 828	5 657	5 526	5 295	5 197	-1.9
PT	530	589	439	363	231	47	47	0.0
RO	4 515	3 440	2 186	2 158	2 095	2 032	2 995	47.4
SI	358	300	261	267	401	400	389	-2.8
SK		1 570	1 204	1 035	978	804	788	-2.0
FI	669	735	702	644	650	641	641	0.0
SE	1 234	1 032	1 377	1 927	2 422	2 795	2 771	-0.9
UK	5 610		3 177	10 710	11 347	11 347	11 347	0.0
ME						36	37	2.8
MK	92	101	73	63	53	58	59	1.7
AL								
RS					335	325	227	-30.2
TR	897	849	735	673	851	861	804	-6.6
IS	-	-	-	-	-	-	-	-
NO	502	299	289	544	270	279	279	0.0
CH	1 254	1 528	2 198	1 745	1 694	1 675	1 403	-16.2

NB: Data relates to main railway undertakings.

Values on this table consider the declared values of locomotives (diesel + electric) and railcars (diesel + electric) and in some cases multiple units.

EL, FI, NO: figures in italics refer to value of previous year.

BE: 2013 data.

UK: 2014 data.

DE: includes former GDR: 1990=6 331.

CS: 1990: 6 010.

2.6.16

Rail

PASSENGER TRANSPORT VEHICLES

STOCK OF COACHES, RAILCARS AND TRAILERS

								%
	1990	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27		100 981	90 831	89 486	85 849	84 994	85 462	0.6
EU-28		111 405	101 765	101 237	98 153	97 298	97 766	0.5
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	778	766	-1.5
CZ		5 252	4 895	4 514	4 139	3 845	3 816	-0.8
DK	1 594	1 590	1 473	1 307	2 209	1 999	1 927	-3.6
DE	24 139	21 097	20 169	18 565	18 990	18 059	18 133	0.4
EE	596	241	234	217	280	273	267	-2.2
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	4 267	4 387	2.8
FR	15 748	15 694	15 879	13 521	16 204	16 493	16 782	1.8
HR	1 052	720	579	523	545	497	452	-9.1
IT	14 025	11 914	10 066	12 465	9 762	8 692	8 588	-1.2
CY	-	-	-	-	-	-	-	-
LV	1 226	702	490	238	374	370	370	0.0
LT	664	563	467	337	217	192	171	-10.9
LU	114	149	185	214	242	251	251	0.0
HU	4 385	3 232	2 787	3 136	2 495	2 305	2 261	-1.9
MT	-	-	-	-	-	-	-	-
NL	2 268	2 742	852	2 824	2 791	3 165	3 233	2.1
AT	3 689	3 468	3 112	2 974	2 646	2 834	3 004	6.0
PL	11 928	9 761	8 843	7 885	7 409	6 764	6 808	0.7
PT	1 232	1 303	1 125	965	977	981	990	0.9
RO	6 352	6 234	3 310	3 037	2 329	2 312	2 312	0.0
SI	606	461	401	355	349	347	348	0.3
SK		2 273	1 808	1 530	1 406	1 289	1 303	1.1
FI	957	1 003	1 084	1 071	1 101	1 226	1 226	0.0
SE	1 747	1 748	1 882	2 352	2 858	3 084	3 096	0.4
UK		10 424	10 934	11 751	12 304	12 304	12 304	0.0
ME			83			35	35	0.0
MK	175	164	125	64	67	67	67	0.0
AL								
RS					817	542	508	-6.3
TR	1 443	1 415	1 312	1 342	1 467	1 332	2 106	58.1
IS	-	-	-	-	-	-	-	-
NO	900	918	191	210	386	394	394	0.0
CH	4 136	3 333	4 293	4 949	5 245	5 474	5 566	1.7

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

LV, RO, FI, MK, NO: figures in italics refer to value of previous year.

BE: 2017 data.

UK: 2014 data.

DE: includes former GDR: 1990 = 9635.

CS: 1990 = 8597.

Rail

2.6.17

GOODS TRANSPORT WAGONS

STOCK OF VEHICLES

	1990	2000	2005	2010 (*)	2015 (*)	2018 (*)	2019 (*)
EU-27							
EU-28							
BE	30 332	18 790	17 375	11 612	11 612	11 612	11 612
BG	42 459	29 720	16 511	11 751	4 572	4 629	4 877
CZ		58 524	44 545	27 416	25 863	22 578	21 835
DK	4 632	2 236					
DE	366 724	189 558	158 247	108 840	88 066	80 608	79 531
EE		5 857	18 971	17 575	21 501	22 522	22 752
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	11 382	10 168
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	5 326	5 252
IT	99 728	70 115	45 730	30 331	20 270	15 383	13 697
CY	-	-	-	-	-	-	-
LV	11 085	9 146	8 871	9 033	9 807	8 012	7 215
LT	12 860	13 155	13 192	9 238	8 574	7 772	7 692
LU	2 719	2 626	3 222	4 147	3 006	3 161	3 175
HU		23 528	19 130	11 357	8 916	8 750	8 679
MT	-	-	-	-	-	-	-
NL	6 697	4 700					
AT	34 330	23 970	22 655	21 015	19 294	18 242	17 895
PL	275 582	130 116	103 234	89 270	86 364	87 990	86 796
PT	4 579	4 162	3 495	3 194	3 283	3 072	2 684
RO	166 086	117 982	65 175	72 605	36 858	35 322	36 855
SI	8 692	6 258	4 465	3 211	3 049	2 748	2 692
SK		26 975	25 515	15 260	15 533	13 836	13 182
FI	15 200	12 630	11 216	10 464	8 854	8 741	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	6 527	6 527
TR	21 941	17 872	17 499	17 773	19 077	16 902	17 025
IS	-	-	-	-	-	-	-
NO							
CH	27 104	19 894	18 339	8 794	6 467	5 763	5 247

NB: (*) Not including private-owners' vehicles, not fully comparable with data from previous years.

Data relate to main railways (UIC members).

FI, RS: figures in italics refer to value of previous year.

EL, IE, MK: 2017 data.

BE: 2009 data (UIC).

DE: includes former GDR: 1990 = 163 158.

2.7.1

Road fatalities

	1990	2000	2005	2010	2015	2018	2019	CHANGE '18/'19	% CHANGE '01/'19
EU-27	71 774	53 502	42 607	29 611	24 360	23 331	22 763	-2.4	-55.7
EU-28	77 176	57 082	45 943	31 516	26 164	25 170	24 571	-2.4	-55.3
BE	1 976	1 470	1 089	850	762	604	646	7.0	-56.5
BG	1 567	1 012	957	776	708	610	628	3.0	-37.9
CZ	1 291	1 486	1 286	802	734	656	618	-5.8	-53.6
DK	634	498	331	255	178	171	199	16.4	-53.8
DE	11 046	7 503	5 361	3 648	3 459	3 275	3 046	-7.0	-56.3
EE	436	204	170	79	67	67	52	-22.4	-73.9
IE	478	418	400	212	162	138	140	1.4	-66.0
EL	1 737	2 037	1 658	1 258	793	700	688	-1.7	-63.4
ES	9 032	5 777	4 442	2 479	1 689	1 806	1 755	-2.8	-68.2
FR	11 215	8 079	5 318	3 992	3 461	3 246	3 244	-0.1	-60.3
HR	1 360	655	597	426	348	317	297	-6.3	-54.1
IT	7 151	7 061	5 818	4 114	3 428	3 334	3 173	-4.8	-55.3
CY	101	111	102	60	57	49	52	6.1	-46.9
LV	947	635	442	218	188	148	132	-10.8	-76.3
LT	1 001	641	773	299	242	173	186	7.5	-73.7
LU	71	76	47	32	36	36	22	-38.9	-68.6
HU	2 432	1 200	1 278	740	644	633	602	-4.9	-51.4
MT	4	15	17	13	11	18	16	-11.1	0.0
NL	1 376	1 082	750	537	531	598	586	-2.0	-41.0
AT	1 558	976	768	552	479	409	416	1.7	-56.6
PL	7 333	6 294	5 444	3 908	2 938	2 862	2 909	1.6	-47.4
PT	2 646	1 877	1 247	937	593	700	688	-1.7	-58.8
RO	3 782	2 466	2 629	2 377	1 893	1 867	1 864	-0.2	-23.9
SI	517	314	258	138	120	91	102	12.1	-63.3
SK	662	628	606	371	310	260	270	3.8	-56.0
FI	649	396	379	272	270	239	211	-11.7	-51.3
SE	772	591	440	266	259	324	221	-31.8	-62.1
UK	5 402	3 580	3 336	1 905	1 804	1 839	1 808	-1.7	-49.7
ME				95	51	48	47	-2.1	
MK		162	143	162	148	133	132	-0.8	23.4
AL		280	307	352	270	213	227	6.6	-23.6
RS				656	601	548	534	-2.6	
TR	6 317	5 510	4 505	4 045	7 530	6 675	5 473	-18.0	24.8
IS	24	32	19	8	16	18	6	-66.7	-75.0
NO	332	341	224	208	123	108	108	0.0	-60.7
CH	954	592	409	328	253	233	187	-19.7	-65.6

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 after the accident (break in series). As of 2018 PT includes data for Azores and Madeira. For the NL, the number of fatalities registered by the police is under-reported and equates to around 85 % of the total number of fatalities published nationally (total in 2019 was 661).

Road fatalities country rankings 2.7.2

FATALITIES

2019					
per million inhabitants		per 10 billion pkm		per million passenger cars	
SE	22	SE	19	SE	45
IE	28	IE	24	LU	52
MT	32	LU	27	MT	53
NL	34	FI	31	FI	60
DK	34	DK	32	DE	64
LU	35	DE	33	IE	65
DE	37	EE	36	EE	67
ES	37	SI	36	NL	68
FI	38	NL	39	ES	72
EE	39	FR	41	DK	76
AT	47	IT	41	IT	81
FR	48	ES	50	AT	83
SI	49	EU-27	51	FR	85
SK	50	AT	51	SI	88
EU-27	51	MT	56	CY	93
IT	53	LT	59	EU-27	93
BE	56	BE	59	CZ	106
CZ	58	EL	62	BE	110
CY	59	PT	69	SK	115
HU	62	CZ	72	PL	122
EL	64	CY	73	LT	127
LT	67	LV	82	PT	128
PT	67	HU	88	EL	129
LV	69	SK	90	HU	162
HR	73	BG	105	HR	175
PL	77	HR	116	LV	184
BG	90	PL	117	BG	224
RO	96	RO	162	RO	279

NB: Fatalities: all fatalities on the road: car drivers and passengers, bus and coach occupants, powered two-wheelers' 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 2019, Eurostat [demo_gind].

Passenger cars: the average stock of vehicles indicated in table 2.6.2 for 2018 and 2019.

2.7.3a

Road fatalities

BY TYPE OF USER

	YEAR	TOTAL	DRIVERS	PASSENGERS	CYCLISTS	MOPED/MOTOR-BIKE RIDERS AND PASSENGERS	PEDESTRIANS	VULNERABLE ROAD USERS AS % OF TOTAL	PEDESTRIANS AS % OF TOTAL
BE	2019	646	276	76	95	103	92	44.9	14.2
BG	2019	628	299	141	27	7	154	29.9	24.5
CZ	2019	618	265	103	53	86	111	40.5	18.0
DK	2019	199	78	20	31	40	30	50.8	15.1
DE	2019	3 046	1 252	323	445	605	421	48.3	13.8
EE	2019	52	23	10	2	4	13	36.5	25.0
IE	2016	182	77	38	10	22	35	36.8	19.2
EL	2019	688	216	58	22	247	145	60.2	21.1
ES	2019	1 755	615	213	80	466	381	52.8	21.7
FR	2019	3 237	1 404	421	187	749	476	43.6	14.7
HR	2019	297	116	49	16	55	61	44.4	20.5
IT	2019	3 173	1 215	385	253	786	534	49.6	16.8
CY	2019	52	16	5	1	16	13	57.7	25.0
LV	2019	132	60	21	9	2	40	38.6	30.3
LT	2015	242	69	52	22	16	81	49.2	33.5
LU	2019	22	12	4	0	4	2	27.3	9.1
HU	2019	602	191	130	63	74	144	46.7	23.9
MT	2018	18	4	3	1	8	2	61.1	11.1
NL	2019	586	226	-	148	80	49	47.3	8.4
AT	2019	416	172	51	33	91	69	46.4	16.6
PL	2019	2 909	949	527	258	382	793	49.3	27.3
PT	2019	688	224	134	27	163	140	48.0	20.3
RO	2019	1 864	485	383	198	69	729	53.4	39.1
SI	2019	102	35	20	9	23	15	46.1	14.7
SK	2019	270	107	64	17	2	80	36.7	29.6
FI	2019	211	115	30	23	28	15	31.3	7.1
SE	2019	221	94	40	17	34	27	35.3	12.2
UK	2018	1 839	642	264	100	361	472	50.7	25.7

NB: Persons deceased within 30 days of their accident.

Totals include the victims labelled as 'Unknown'.

Vulnerable road users comprise pedestrians, cyclists, moped and motorbike riders.

NL - 2019 data on passengers not available.

Road fatalities of vehicle occupants 2.7.3b

BY TYPE OF VEHICLE

	YEAR	TOTAL	CAR & TAXI	MOTOR CYCLE	MOPED	BUS AND COACH	PEDAL CYCLE	AGRICULTURAL TRACTOR	HEAVY GOODS VEHICLE	LORRY, <3.5 TONNES	OTHER OR UNKNOWN
BE	2019	554	306	84	19	1	95	3	11	17	18
BG	2019	474	348	5	2	3	27	0	0	0	89
CZ	2019	507	329	84	2	3	53	0	17	13	6
DK	2019	169	87	27	13	0	31	0	2	9	0
DE	2019	2 625	1 364	542	63	7	445	19	80	72	33
EE	2019	41	20	3	1	2	2	1	5	-	7
IE	2016	147	106	22	-	0	10	-	3	5	1
EL	2019	543	202	228	19	0	22	12	4	49	7
ES	2019	1 374	641	417	49	3	80	17	55	86	26
FR	2019	2 761	1 622	615	134	4	187	14	36	98	51
HR	2019	236	141	46	9	0	16	9	1	7	7
IT	2019	2 639	1 411	698	88	5	253	16	67	70	31
CY	2019	39	14	16	0	0	1	0	0	6	2
LV	2019	92	62	1	1	0	9	5	3	8	3
LT	2015	161	115	13	3	1	22	0	3	1	3
LU	2019	20	16	3	1	0	0	0	0	0	0
HU	2019	458	273	64	10	1	63	-	12	31	4
MT	2018	16	5	8	0	2	1	-	0	0	0
NL	2019	537	240	45	35	0	148	0	5	22	42
AT	2019	347	200	79	12	1	33	5	2	10	5
PL	2019	2 116	1 333	295	87	10	258	10	26	84	13
PT	2019	548	235	127	36	29	27	15	7	55	17
RO	2019	1 135	682	51	18	27	198	14	5	74	66
SI	2019	87	28	20	3	1	9	2	2	2	20
SK	2019	190	124	-	2	12	17	1	1	11	22
FI	2019	196	123	25	3	0	23	5	3	10	4
SE	2019	194	103	29	5	0	17	2	3	26	9
UK	2018	1 367	799	353	8	16	100	6	17	38	30

NB: Persons deceased within 30 days of their accident.
Pedestrians killed are excluded from this table (see 2.7.3a).

2.7.4

Road accidents

NUMBER OF ACCIDENTS INVOLVING PERSONAL INJURY

	1 000								%
	1990	1995	2000	2005	2010	2015	2018	2019	CHANGE '18/'19
EU-27	1 236.477	1 195.684	1 263.536	1 138.269	970.318	944.685	948.511	936.753	-1.2
EU-28	1 502.077	1 433.020	1 505.653	1 341.981	1 130.398	1 090.888	1 076.895	1 065.137	-1.1
BE	62.446	50.744	49.065	49.307	40.569	40.303	38.455	37.699	-2.0
BG	6.478	7.435	6.886	8.224	6.610	7.226	6.684	6.730	0.7
CZ	21.910	28.746	25.445	25.239	19.675	21.561	21.890	20.806	-5.0
DK	9.155	8.373	7.346	5.413	3.498	2.853	2.964	2.808	-5.3
DE	389.350	388.003	382.949	336.618	288.297	305.659	308.721	300.143	-2.8
EE	2.099	1.644	1.504	2.341	1.347	1.391	1.474	1.413	-4.1
IE	6.067	8.117	7.749	6.533	5.779	5.831	6.093	6.093	0.0
EL	19.609	22.798	23.001	16.914	15.032	11.440	10.737	10.712	-0.2
ES	101.507	83.586	101.729	91.187	85.503	97.756	102.299	104.080	1.7
FR	162.573	132.949	121.223	84.525	67.288	56.600	55.762	56.006	0.4
HR	14.471	12.668	14.430	15.679	13.274	11.038	10.450	9.694	-7.2
IT	161.782	182.761	256.546	240.011	212.997	174.539	172.553	172.183	-0.2
CY	3.172	3.052	2.411	1.382	1.198	0.660	0.499	0.490	-1.8
LV	4.325	4.056	4.482	9.310	3.193	3.692	3.975	3.729	-6.2
LT	5.135	4.144	5.807	6.772	3.530	3.031	2.926	2.926	0.0
LU	1.216	1.145	0.899	0.775	0.787	0.983	0.947	0.987	4.2
HU	27.801	19.817	17.493	20.777	16.308	16.333	16.951	16.627	-1.9
MT	0.238	0.969	1.253	0.848	0.577	1.367	1.346	1.346	0.0
NL	44.892	42.641	42.271	27.007	10.778	18.523	19.270	19.046	-1.2
AT	46.338	38.956	42.126	40.896	35.348	37.960	36.846	35.736	-3.0
PL	50.532	56.904	57.331	48.100	38.832	32.967	31.674	30.288	-4.4
PT	45.110	48.339	44.463	37.066	35.426	31.955	35.816	37.251	4.0
RO	9.708	9.119	7.889	19.819	25.995	28.944	30.202	31.146	3.1
SI	5.177	6.567	8.951	10.509	7.659	6.578	6.013	6.023	0.2
SK	8.236	8.713	7.884	7.903	8.119	5.502	5.335	5.105	-4.3
FI	10.175	7.812	6.633	7.020	6.072	5.164	4.312	4.002	-7.2
SE	16.975	15.626	15.770	18.094	16.627	14.829	14.317	13.684	-4.4
UK	265.600	237.336	242.117	203.712	160.080	146.203	128.384	128.384	0.0
ME					9.138	4.944	5.872	6.210	5.8
MK	2.300	2.436	1.667	2.821	4.223	3.854	3.740	3.233	-13.6
AL		0.399	0.428	0.853	1.564	1.992	1.718	1.498	-12.8
RS					14.179	13.638	14.142	14.134	-0.1
TR	55.771	66.029	75.201	87.273	116.804	183.011	186.532	174.896	-6.2
IS	0.564	1.057	0.979	0.671	0.876	0.912	0.868	0.770	-11.3
NO	8.801	8.625	8.440	8.088	6.434	4.563	3.895	3.580	-8.1
CH	23.834	23.030	23.737	21.706	19.609	17.736	18.033	17.761	-1.5

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.

2019 figures for IE, LT, MT, UK refers to 2018.

Railway fatalities

2.7.5

NUMBER OF RAILWAY PASSENGERS KILLED
IN ACCIDENTS INVOLVING RAILWAY

	1990	2000	2005	2010	2015	2016	2017	2018	2019
EU-27			58	63	27	44	12	13	16
EU-28			58	63	27	44	15	16	16
BE	0	3	0	18	0	2	1	0	0
BG			3	0	2	1	0	0	0
CZ		1	4	2	6	4	1	0	1
DK	1	3	0	0	0	0	0	0	8
DE	50	38	7	0	3	7	2	1	0
EE			0	0	0	0	0	0	0
IE	1	2	0	0	0	0	0	0	0
EL	0	20	0	1	0	0	1	0	1
ES	4	0	1	15	0	3	1	0	0
FR	30	15	5	2	4	2	1	0	2
HR			1	1	0	0	0	0	0
IT	9	8	22	7	2	19	2	4	1
CY	-	-	-	-	-	-	-	-	-
LV			0	0	0	0	0	0	1
LT			0	0	0	0	0	0	0
LU	0	0	0	0	0	0	0	0	0
HU	33	11	6	3	3	4	1	3	1
MT	-	-	-	-	-	-	-	-	-
NL	2	0	0	0	0	1	0	0	0
AT	6	4	1	0	1	0	0	1	0
PL	21	20	0	7	3	1	1	2	0
PT	22	2	7	1	0	0	0	0	0
RO		0	1	4	3	0	0	0	0
SI		0	0	0	0	0	0	1	0
SK		0	0	0	0	0	1	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	3	3*	0
ME					0	0	0	0	0
MK			0	0	0	0	0	0	0
AL									
RS									
TR	17	9	10	3	0	1	0	32	1
IS	-	-	-	-	-	-	-	-	-
NO	4	32	0	0	0	0	0	1	0
CH	8	2	3	0	0	0	0	0	0

NB: (*) Includes the figure for 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
2020	0	0
1970–1979/yr.*	312	328
1980–1989/yr.*	179	128
1990–1999/yr.	46	68
2000–2009/yr.	64	78
2010–2019/yr.	16	28

NB: (*) UK is included.

Onboard fatalities, and only those in aircraft with a take-off mass above 5,701kg. 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).

Sea

2.7.7

SHIPS LOST (WORLD) – BY TYPE

YEAR	TANKERS		BULKERS AND COMBINED CARRIERS		OTHER SHIPS	
	N°	1 000 gt	N°	1 000 gt	N°	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
2019	3	9	2	69	40	225

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

PART 3

ENERGY AND ENVIRONMENT



PART 3

SUMMARY

3.1	ENERGY	115
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Glossary

3.1.1

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 off-shore 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 sulphur. 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 3600 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

Average calorific values – Energy content

3.1.2

		kJ (NCV)	kgoe (NCV)
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	2.388×10^{-5}	0.2778
Gcal		4.1868×10^{-3}	1	1×10^{-7}	1.163×10^{-3}
Mtoe		4.1868×10^4	1×10^7	1	11630
GWh		3.6	860	8.6×10^{-5}	1

VOLUME

FROM:	TO:	Barrel	Litre	US gallon	UK gallon
Barrel		1	158.99	42	34.9723
Litre		0.6290×10^{-2}	1	0.2642	0.2200
US gallon		0.2381×10^{-1}	3.7854	1	0.8327
UK gallon		0.2859×10^{-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 (μ)
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)

Energy statistics for EU-27

3.1.4

Mtoe	1990	1995	2000	2005	2010	2015	2018	2019
Production (*)	742.5	707.9	677.8	704.4	696.9	658.9	635.5	616.4
Solid fuels	315.3	247.7	195.9	184.2	154.3	140.3	124.4	105.2
Oil & petroleum products	41.0	40.2	45.6	46.7	33.9	29.3	25.4	23.6
Gas	123.1	127.3	112.2	111.1	109.5	72.4	59.2	52.3
Nuclear	188.6	204.5	222.1	236.8	220.5	204.3	195.7	196.9
Renewables	70.8	82.7	96.1	118.4	168.3	200.6	217.6	225.0
Waste, non-renewable	3.7	5.5	5.9	7.2	10.5	12.1	13.2	13.4
Net imports	744.8	773.9	865.7	954.5	895.3	833.7	886.3	909.0
Solid fuels	71.5	67.8	83.3	97.9	93.7	95.9	92.2	74.3
Oil & petroleum products	540.7	560.5	578.5	606.1	550.2	513.9	517.1	528.0
Gas	129.5	144.9	202.8	248.1	245.8	220.5	270.5	301.1
Electricity	2.9	0.4	0.8	0.6	0.4	-0.6	0.8	0.3
Renewables	0.2	0.3	0.3	1.7	5.1	3.5	5.3	4.9
Other (**)	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.5
Gross inland consumption	1 455.7	1 451.7	1 498.3	1 603.5	1 559.5	1 449.0	1 479.7	1 454.0
Solid fuels	391.5	317.5	284.4	280.2	252.3	240.1	217.4	174.3
Oil & petroleum products	547.9	570.3	579.8	598.6	538.8	491.5	503.9	502.2
Gas	249.8	270.6	308.6	359.7	362.8	296.1	324.8	335.7
Nuclear	188.6	204.5	222.1	236.8	220.5	204.3	195.7	196.9
Renewables	71.1	83.0	96.5	120.0	173.5	204.1	222.5	229.7
Other (***)	6.7	5.9	6.9	8.3	11.7	12.9	15.5	15.2
Gross electricity generation (TWh)	2 275.0	2 408.7	2 656.9	2 917.7	2 981.0	2 900.6	2 940.3	2 904.0
Bunker fuels								
International maritime	33.2	32.8	40.4	47.2	46.7	39.6	43.4	43.6
International aviation	18.2	22.5	28.6	31.1	32.1	34.4	40.9	41.7
Final energy consumption by fuel/product	906.6	892.6	926.0	986.4	972.8	909.9	940.5	935.5
Solid fuels	104.7	64.4	42.5	35.9	33.2	29.1	28.2	25.0
Oil & petroleum products	374.2	381.1	396.7	405.2	366.1	338.9	344.6	345.7
Gas	170.8	187.0	205.1	222.8	217.6	192.5	201.8	198.9
Electricity	162.3	168.8	189.0	209.3	215.8	210.7	215.8	213.7
Renewables	38.6	43.6	48.8	60.7	85.8	89.8	99.5	101.7
Other (**)	56.0	47.8	43.9	52.6	54.2	48.8	50.4	50.6
by sector								
Industry	310.4	271.7	271.0	274.9	243.7	233.3	242.4	239.0
Transport (****)	220.7	235.9	262.9	281.6	280.0	272.9	286.6	289.4
Rail	7.5	7.5	7.4	6.8	6.3	5.4	5.4	5.3
Road	201.6	217.9	243.2	260.2	260.6	255.5	267.6	270.3
Domestic aviation	5.0	4.3	5.7	5.8	5.6	5.5	6.4	6.6
Domestic navigation	5.2	5.1	5.2	5.6	5.0	3.9	4.1	4.2
Consumption in pipeline transport, etc.	1.5	1.1	1.4	3.2	2.4	2.6	3.1	3.0
Households	236.9	246.2	248.5	267.1	278.9	245.0	246.9	245.9
Agriculture and fishing	33.4	31.3	28.4	28.3	26.7	25.6	28.8	29.3
Services, etc.	105.2	107.5	115.2	134.6	143.5	133.1	135.8	131.9
CO₂ emissions (Mt) (****)	3 945.0	3 714.3	3 699.1	3 843.9	3 539.6	3 211.1	3 189.4	3 054.7
Primary energy intensity 2020-2030 (toe/M€ '15)	166.4	154.1	137.6	135.4	125.5	110.8	105.2	101.7
CO₂ intensity (tCO₂/toe)	2.71	2.56	2.47	2.40	2.27	2.22	2.16	2.10
Import dependency, %	50.1	52.2	56.3	57.8	55.7	56.0	58.2	60.7
RES share in transport, % (*****)	0.0	0.0	0.0	2.0	5.5	6.8	8.3	8.9

NB: (*) Including recovered products. (**) Derived heat & industrial waste. (***) Electrical energy & industrial waste. (****) Excluding international aviation, in line with changes in the energy balance methodology. (*****) Source: European Environment Agency (EEA), June 2021, including international aviation and indirect CO₂ but excluding international maritime and LULUCF (land use, land-use change and forestry). (*****): Renewables 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.

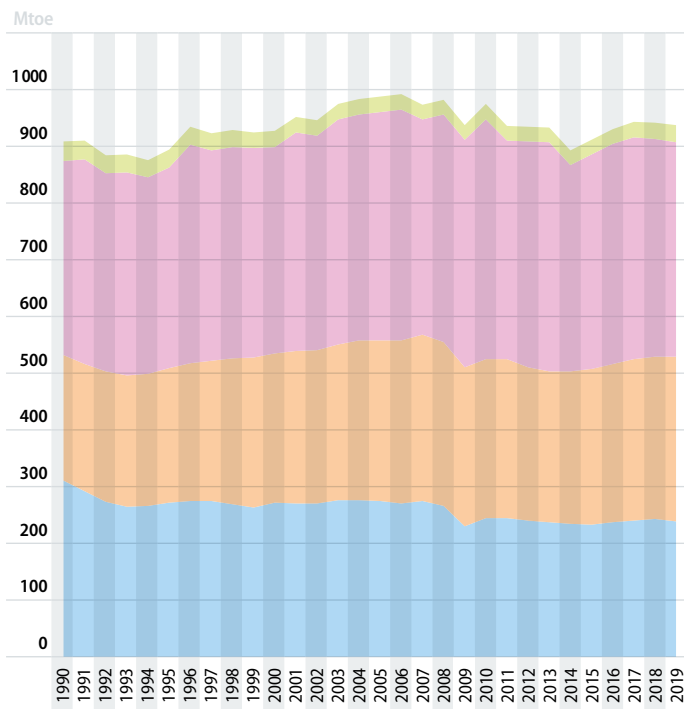
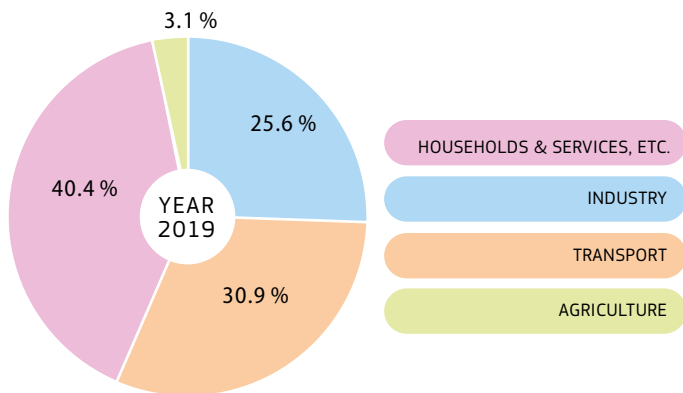
3.1.5

Final energy consumption 2019 – 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	935.5	239.0	289.4	270.3	5.3	6.6	4.2	3.0	407.0	245.9	29.3	131.9
Share	100 %	26 %	31 %	93 %	2 %	2 %	1 %	1 %	44 %	60 %	7 %	32 %
EU-28	1 056.9	260.2	330.9	308.9	6.4	7.5	5.1	3.0	465.9	284.0	30.7	151.2
Share	100 %	25 %	31 %	93 %	2 %	2 %	2 %	1 %	44 %	61 %	7 %	32 %
BE	32.6	10.3	8.8	8.5	0.2	0.0	0.2	0.0	13.4	7.9	0.9	4.6
BG	9.7	2.7	3.4	3.3	0.0	0.0	0.0	0.1	3.6	2.2	0.2	1.3
CZ	24.3	6.6	6.8	6.5	0.2	0.0	0.0	0.0	10.9	7.0	0.6	3.2
DK	13.6	2.3	4.3	4.0	0.1	0.0	0.1	0.1	7.0	4.4	0.7	2.0
DE	200.6	55.7	56.4	53.3	1.2	0.7	0.3	0.8	88.5	57.7	3.6	27.2
EE	2.8	0.5	0.8	0.8	0.0	0.0	0.0	0.0	1.5	1.0	0.1	0.5
IE	11.3	2.3	4.1	4.0	0.0	0.0	0.1	0.0	4.9	2.9	0.2	1.8
EL	15.4	2.6	6.0	5.2	0.0	0.2	0.6	0.0	6.8	4.1	0.3	2.4
ES	81.5	20.0	32.9	29.0	0.4	2.4	1.0	0.2	28.6	14.7	2.9	11.0
FR	139.4	27.5	45.2	42.0	0.9	1.7	0.5	0.1	66.7	39.8	4.4	22.4
HR	6.7	1.2	2.2	2.1	0.0	0.0	0.1	0.0	3.3	2.2	0.2	0.8
IT	113.1	24.9	35.9	33.1	0.5	0.9	0.6	0.7	52.3	31.1	2.9	18.3
CY	1.6	0.2	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.3
LV	3.9	0.9	1.1	1.0	0.1	0.0	0.0	0.0	2.0	1.2	0.2	0.6
LT	5.5	1.1	2.2	2.1	0.1	0.0	0.0	0.0	2.2	1.4	0.1	0.6
LU	3.8	0.6	2.2	2.1	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.5
HU	18.0	4.5	5.1	4.8	0.1	0.0	0.0	0.1	8.4	5.7	0.7	2.1
MT	0.5	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1
NL	44.7	13.4	10.9	10.5	0.2	0.0	0.3	0.0	20.4	9.3	4.1	7.0
AT	26.2	7.4	8.9	8.3	0.2	0.0	0.0	0.3	9.9	6.7	0.5	2.7
PL	69.1	16.5	22.8	22.0	0.4	0.0	0.0	0.4	29.8	18.2	3.8	7.8
PT	16.4	4.6	6.0	5.7	0.1	0.2	0.1	0.0	5.8	2.9	0.5	2.4
RO	23.7	6.7	6.6	6.2	0.2	0.1	0.0	0.0	10.5	7.8	0.6	2.2
SI	4.9	1.3	1.9	1.9	0.0	0.0	0.0	0.0	1.6	1.1	0.1	0.5
SK	10.2	3.5	2.8	2.5	0.0	0.0	0.0	0.2	4.0	2.6	0.1	1.2
FI	24.7	10.9	4.2	3.9	0.1	0.1	0.1	0.0	9.6	5.6	0.7	3.2
SE	31.3	10.9	7.0	6.5	0.2	0.2	0.1	0.0	13.4	7.4	0.7	5.4
UK	121.4	21.1	41.5	38.6	1.1	0.9	0.9	0.0	58.8	38.1	1.4	19.3
MK	1.9	0.5	0.8	0.8	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.2
TR	99.1	30.5	28.4	26.3	0.2	1.2	0.4	0.3	40.2	21.6	4.7	14.0
IS	2.9	1.3	0.4	0.3	0.0	0.0	0.0	0.0	1.3	0.5	0.3	0.5
NO	18.9	6.2	4.5	3.3	0.1	0.4	0.6	0.1	8.3	4.6	0.4	3.3
CH												

Final energy consumption EU-27 – BY SECTOR (MTOE)

3.1.5



NB: Transport excluding international aviation and maritime.

3.1.6 Final consumption of motor gasoline, diesel, biofuels & biogas for transport 2019 – BY FUEL (KTOE)

	TOTAL FINAL CONSUMPTION OF MOTOR GASOLINE AND DIESEL OIL FOR TRANSPORT (*)	Motor gasoline	Gas / Diesel oil	BIOFUELS	Biogasoline	Biodiesel	Biogas	Other liquid biofuels (**)
EU-27	250 695.4	66 706.5	183 988.8	15 815.8	2 705.7	12 949.0	160.5	0.7
EU-28	289 049.5	79 199.2	209 850.3	17 468.9	3 092.1	14 215.7	160.5	0.7
BE	8 087.1	1 800.7	6 286.4	485.3	129.4	355.9		
BG	2 607.8	472.8	2 135.0	179.4	31.8	147.6		
CZ	6 049.4	1 601.6	4 447.8	340.4	73.5	266.9		
DK	3 922.8	1 317.6	2 605.2	226.4	43.7	182.7		
DE	50 681.2	16 715.3	33 965.9	2 679.6	720.1	1 902.0	56.8	0.6
EE	776.4	273.2	503.2	32.6	7.4	20.0	5.2	
IE	3 898.2	774.0	3 124.2	188.2	26.2	162.0		
EL	5 017.7	2 347.7	2 670.0	184.7	23.9	160.8		
ES	27 692.5	5 407.9	22 284.7	1 630.5	130.2	1 500.4		
FR	39 185.9	8 173.4	31 012.5	3 190.0	653.3	2 536.7		
HR	2 060.5	495.2	1 565.3	62.6	1.0	61.6		
IT	29 362.3	7 711.7	21 650.6	1 276.1	30.4	1 245.7	0.0	
CY	679.6	356.2	323.4	10.7		10.7		
LV	1 006.5	174.6	831.8	37.0	7.3	29.7		
LT	1 936.7	242.5	1 694.2	75.1	9.7	65.4		
LU	2 011.2	342.7	1 668.6	129.6	17.1	112.5		0.0
HU	4 657.9	1 511.2	3 146.7	202.5	45.7	156.7		
MT	239.9	84.6	155.3	10.9		10.9		
NL	9 900.9	4 177.3	5 723.6	616.2	198.7	417.4		
AT	7 832.6	1 559.2	6 273.4	479.7	56.5	422.8	0.4	
PL	18 915.7	4 535.7	14 380.0	1 025.1	187.3	837.8		
PT	5 383.5	1 106.9	4 276.6	272.1	8.2	263.9		
RO	5 905.0	1 322.3	4 582.6	412.3	97.8	314.5		
SI	1 792.4	407.7	1 384.7	95.1	4.2	90.8		
SK	2 367.3	548.8	1 818.5	157.0	19.8	137.1		
FI	3 578.4	1 255.3	2 323.1	428.9	89.1	338.4	1.3	
SE	5 145.9	1 990.4	3 155.5	1 387.9	93.2	1 197.9	96.8	
UK	38 354.1	12 492.7	25 861.4	1 653.1	386.4	1 266.7		
MK	695.4	109.0	586.4	0.1		0.1		
TR	22 688.5	2 388.1	20 300.4	167.3	53.2	114.2		
IS	323.6	125.6	198.0	20.6	3.8	15.5	1.3	
NO	3 375.3	726.2	2 649.0	487.2	46.6	416.2	24.3	
CH								

NB: (*) Without bio components.

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

Biofuels production

2019 – BY FUEL (KTOE)

3.1.7

	TOTAL	Biogasoline	Biodiesel	Bio jet kerosene	Other liquid biofuels (*)
EU-27	15 846.3	2 347.9	12 936.0	24.7	537.7
EU-28	16 432.6	2 481.1	13 389.0	24.7	537.7
BE	455.5	220.1	229.0		6.4
BG	164.9	10.6	154.3		
CZ	279.5	60.0	219.5		
DK	3.4				3.4
DE	3 578.7	338.5	3 175.6		64.6
EE					
IE	29.6		29.6		
EL	180.2	8.1	172.1		
ES	2 080.4	276.8	1 803.6		
FR	2 519.8	628.2	1 868.4		23.2
HR	0.2		0.2		
IT	1 061.4	9.9	770.5		281.0
CY					
LV	75.4	0.6	74.9		
LT	158.5	11.0	147.6		
LU					
HU	472.6	322.1	150.5		
MT					
NL	1 779.4		1 739.5		40.0
AT	377.7	123.1	254.5		0.0
PL	980.8	130.1	848.7		2.0
PT	347.1		347.1		
RO	219.1	34.6	184.5		
SI					
SK	171.5	67.7	103.8		
FI	407.5		338.6	24.7	44.2
SE	502.9	106.6	323.4		72.9
UK	586.3	133.3	453.0		
MK					
TR	173.6	53.2	114.2		6.2
IS					
NO	75.8		75.8		
CH					

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

3.2.1 Total greenhouse gas (GHG) emissions (*) (MILLION TONNES CO₂ EQUIVALENT)

	1990	1995	2000	2005	2010	2015	2018	2019
EU-27	4 925.1	4 619.8	4 535.6	4 638.8	4 277.2	3 929.9	3 891.8	3 742.6
EU-28	5 732.0	5 384.7	5 273.9	5 360.1	4 913.9	4 468.6	4 391.3	4 228.8
BE	148.9	156.5	153.6	149.2	137.9	123.4	123.1	121.9
BG	100.7	73.8	58.1	63.3	60.3	61.9	58.1	56.7
CZ	199.5	158.3	151.1	149.8	141.6	129.7	130.5	124.6
DK	72.6	80.6	73.5	69.3	66.0	51.3	51.2	47.4
DE	1 260.6	1 135.7	1 062.0	1 015.5	966.3	929.0	886.1	839.7
EE	41.2	20.3	17.6	19.4	21.3	18.3	20.4	14.9
IE	55.5	59.9	70.3	72.8	64.3	63.0	65.8	63.1
EL	105.8	112.0	129.0	139.0	121.1	98.4	96.2	89.7
ES	294.8	336.0	397.9	453.7	370.6	351.6	351.7	333.7
FR	553.2	547.5	562.8	567.0	524.2	475.0	462.5	454.8
HR	31.9	22.7	25.8	30.0	28.1	24.3	24.1	24.2
IT	523.0	537.9	563.5	597.6	525.4	450.1	440.6	430.8
CY	6.3	7.8	9.1	10.1	10.3	9.1	9.9	9.9
LV	26.1	12.6	10.2	11.1	12.2	11.1	11.7	11.6
LT	48.2	22.3	19.5	22.8	20.9	20.5	20.5	20.7
LU	13.1	10.7	10.6	14.3	13.5	11.7	12.4	12.6
HU	95.3	77.8	75.6	77.5	66.8	62.1	65.6	65.3
MT	2.8	3.0	3.1	3.3	3.3	2.6	2.5	2.7
NL	225.2	238.0	228.1	224.0	222.4	204.6	199.0	192.7
AT	79.3	80.6	81.8	94.1	86.4	80.6	81.2	82.8
PL	476.5	448.1	397.4	406.1	415.0	392.7	414.9	394.0
PT	60.4	70.4	83.9	88.2	71.6	70.9	71.4	68.0
RO	267.2	188.1	142.2	149.5	118.8	117.1	118.6	114.3
SI	18.6	18.7	18.7	20.5	19.7	16.8	17.6	17.1
SK	73.5	53.0	48.8	50.6	45.5	40.9	42.4	40.2
FI	72.3	72.7	71.3	71.2	77.4	57.1	58.7	55.7
SE	72.6	74.6	70.1	68.6	66.7	56.2	55.0	53.6
UK	806.8	764.9	738.3	721.3	636.6	538.7	499.5	486.2
MK								
TR	220.1	248.8	300.6	340.7	405.1	484.5	534.6	520.1
IS	3.9	3.8	4.5	4.4	5.2	5.4	6.1	5.7
NO	52.1	52.2	56.0	56.2	56.6	55.8	54.0	52.0
CH	57.1	56.7	57.8	59.0	59.2	53.5	52.2	52.0

NB: Emissions data are downloaded from European Environment Agency (EEA), which is the main provider for EU-wide GHE 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 (CO₂), methane (CH₄), nitrous oxide (N₂O), sulphur hexafluoride (SF₆), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs).

(*) Excluding international maritime and LULUCF (land use, land-use change and forestry) emissions, including international aviation and indirect CO₂.

GHG emissions from transport 3.2.2

(MILLION TONNES CO₂ EQUIVALENT)

INCLUDING INTERNATIONAL BUNKERS (*)

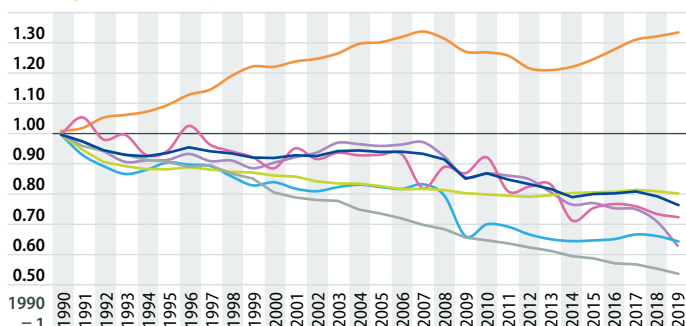
	1990	1995	2000	2005	2010	2015	2018	2019
EU-27	828.3	892.6	1 011.5	1 096.9	1 068.6	1 031.7	1 096.2	1 106.2
EU-28	974.2	1 045.8	1 179.2	1 273.3	1 233.0	1 197.0	1 265.5	1 273.3
BE	37.5	39.0	46.1	55.8	56.0	50.4	61.9	58.1
BG	7.4	6.1	5.9	8.8	8.8	10.1	10.8	10.9
CZ	12.0	11.0	12.7	18.3	17.8	18.4	20.2	20.4
DK	15.6	19.0	18.9	18.6	17.9	17.7	18.3	18.5
DE	183.5	198.5	208.2	191.9	187.2	195.0	198.4	199.0
EE	3.1	1.9	2.1	2.7	3.0	3.4	3.6	3.2
IE	6.3	7.8	13.1	16.0	14.3	14.9	16.0	16.0
EL	25.4	31.1	33.3	34.0	34.1	25.9	28.7	30.3
ES	75.2	87.0	115.8	140.0	131.6	122.3	131.5	133.7
FR	139.4	150.6	164.8	166.9	158.9	156.5	156.1	156.6
HR	4.5	3.7	4.8	5.9	6.3	6.3	7.0	7.3
IT	111.0	124.3	136.0	143.7	131.4	121.5	123.6	124.5
CY	2.2	2.6	3.3	3.9	3.8	3.5	4.0	4.1
LV	4.8	2.7	2.3	4.2	4.5	4.3	4.0	4.8
LT	6.5	3.8	3.6	4.8	5.0	5.6	7.1	7.3
LU	3.0	3.9	5.8	8.5	7.8	7.1	7.9	8.0
HU	9.4	8.1	9.9	12.9	12.4	12.8	14.7	15.6
MT	1.4	2.3	3.1	2.9	5.4	6.1	8.3	8.6
NL	68.0	73.2	85.7	97.3	90.1	83.1	80.0	81.4
AT	14.9	17.3	20.6	27.0	24.7	24.9	27.0	27.5
PL	22.7	25.0	30.4	38.2	51.5	50.5	69.0	70.2
PT	13.8	17.0	23.5	23.8	23.3	21.6	24.1	25.3
RO	13.2	9.2	10.3	13.0	14.8	16.6	18.9	19.5
SI	2.8	4.1	3.8	4.5	5.4	5.6	6.7	6.3
SK	7.0	5.6	5.8	7.8	7.6	7.4	7.9	8.3
FI	15.0	13.3	15.3	15.8	15.0	13.8	15.1	14.9
SE	22.8	24.6	26.7	29.9	29.7	26.3	25.4	26.1
UK	145.9	153.1	167.7	176.4	164.4	165.4	169.3	167.0
MK								
TR	27.9	35.5	39.4	48.8	53.7	89.7	99.7	99.3
IS	0.9	0.9	1.1	1.2	1.2	1.7	2.6	2.2
NO	13.3	14.1	16.2	17.1	17.6	17.0	15.6	14.7
CH	17.8	18.0	20.7	19.4	20.7	20.3	20.6	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 CO₂ 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	3 795.8	3 643.3	1 438.5	1 233.2	103.4	101.8	745.0	153.3	11.7	102.2	29.8	44.6	403.2
1995	3 572.9	3 442.3	1 317.2	1 125.7	108.4	83.1	649.8	135.1	11.4	98.1	33.7	53.6	317.9
2000	3 529.1	3 421.3	1 303.8	1 126.3	115.8	61.7	591.4	118.8	12.7	86.6	32.2	48.7	292.5
2005	3 655.4	3 559.4	1 384.4	1 197.9	123.5	63.0	559.7	105.5	11.5	84.2	30.9	45.2	282.4
2010	3 392.2	3 310.3	1 252.2	1 082.1	114.9	55.1	480.6	93.1	10.8	75.6	27.3	36.6	237.3
2011	3 292.1	3 210.6	1 241.5	1 074.7	112.4	54.4	471.4	93.3	10.2	74.0	26.4	35.2	232.4
2012	3 231.7	3 150.7	1 224.4	1 070.2	109.4	44.7	453.0	88.5	9.4	71.0	25.7	35.0	223.4
2013	3 151.4	3 071.3	1 161.8	1 015.9	103.8	42.1	436.0	82.2	8.9	69.3	25.2	35.2	215.1
2014	3 007.3	2 929.5	1 102.3	958.6	102.0	41.6	421.7	80.2	8.3	64.3	23.6	34.8	210.4
2015	3 067.7	2 990.4	1 109.6	966.9	103.0	39.7	431.7	85.1	8.3	63.6	23.6	35.1	216.1
2016	3 076.8	3 001.9	1 084.6	941.3	103.3	40.0	435.6	82.1	8.4	64.2	23.9	35.9	221.3
2017	3 101.8	3 026.9	1 079.8	939.0	101.4	39.4	446.1	83.0	8.8	67.8	24.1	37.3	225.2
2018	3 034.0	2 962.1	1 020.3	879.9	100.3	40.1	447.8	83.1	8.9	70.1	24.0	37.0	224.7
2019	2 899.9	2 833.4	900.3	760.1	101.5	38.7	435.5	77.4	9.1	67.0	24.8	36.5	220.6

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

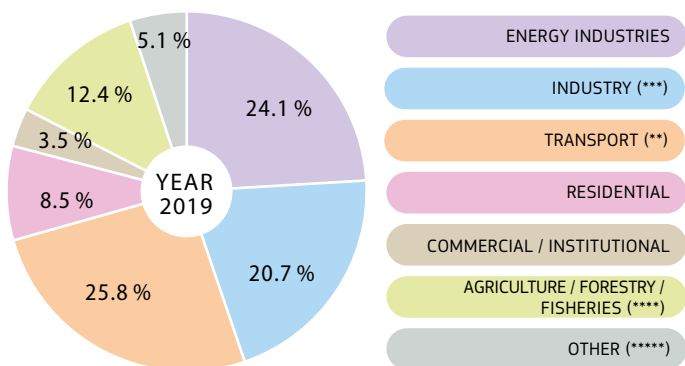


- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from 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 CO₂ and other.

GHG emissions (*) EU-27 – BY SECTOR 3.2.3

(MILLION TONNES CO₂ EQUIVALENT)

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Other	Indirect CO ₂	TOTAL EMISSIONS	
Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries					Agriculture	Waste						
726.5	710.5	171.5	447.7	91.3	22.9	152.5	462.1	488.0	174.9			4.3	4 925.1	1990
790.1	674.5	148.4	436.1	89.9	10.7	130.5	445.0	420.6	177.7			3.6	4 619.8	1995
883.5	633.6	142.7	405.6	85.3	8.9	107.8	423.6	413.1	166.8			3.0	4 535.6	2000
943.5	660.8	153.0	423.5	84.4	11.0	96.0	436.0	392.8	151.9			2.6	4 638.8	2005
918.7	650.8	161.7	409.3	79.7	8.0	81.9	364.0	381.0	137.8			2.3	4 277.2	2010
910.8	578.5	141.3	359.2	78.0	8.4	81.6	363.3	380.0	134.2			2.2	4 171.8	2011
879.8	586.4	141.0	369.5	75.9	7.3	81.0	350.4	379.9	131.3			2.1	4 095.4	2012
875.4	590.7	142.4	372.2	76.1	7.2	80.1	348.2	383.0	128.2			1.9	4 012.7	2013
883.6	514.9	125.8	314.2	74.9	7.0	77.8	354.9	388.7	124.5			1.9	3 877.3	2014
902.0	539.9	134.0	331.6	74.3	7.2	77.3	347.8	390.3	122.3			1.9	3 929.9	2015
926.4	548.8	135.0	339.1	74.6	6.5	74.9	349.3	391.4	119.6			1.8	3 938.8	2016
949.8	544.6	133.9	335.3	75.4	6.6	74.9	357.5	394.0	118.4			1.8	3 973.5	2017
958.1	529.9	130.3	323.1	76.5	6.1	71.9	349.1	390.1	116.8			1.7	3 891.8	2018
967.5	523.5	129.5	317.2	76.8	6.7	66.5	339.8	385.8	115.5			1.6	3 742.6	2019



- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
- (**) 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 CO₂ 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	29.2	25.0	2.1	2.1	15.1	3.1	0.2	2.1	0.6	0.9	8.2
1991	77.8	74.9	29.2	25.2	2.0	2.0	14.5	3.1	0.2	2.0	0.7	1.0	7.5
1992	77.8	74.9	29.1	25.2	2.1	1.8	14.3	2.9	0.2	1.9	0.6	1.0	7.7
1993	77.8	74.9	28.5	24.5	2.2	1.8	14.0	2.7	0.2	1.8	0.7	1.1	7.5
1994	77.3	74.5	28.8	24.7	2.3	1.8	13.9	2.9	0.2	1.9	0.7	1.1	7.0
1995	77.3	74.5	28.5	24.4	2.3	1.8	14.1	2.9	0.2	2.1	0.7	1.2	6.9
1996	77.8	75.1	28.5	24.5	2.4	1.6	13.6	2.6	0.2	2.1	0.7	1.2	6.8
1997	77.5	74.6	28.2	24.1	2.4	1.7	13.6	2.7	0.3	2.0	0.7	1.1	6.7
1998	77.8	75.1	28.5	24.4	2.5	1.6	13.2	2.6	0.3	1.9	0.7	1.1	6.6
1999	78.1	75.4	28.1	24.2	2.5	1.4	13.1	2.5	0.3	1.9	0.7	1.1	6.6
2000	77.8	75.4	28.7	24.8	2.6	1.4	13.0	2.6	0.3	1.9	0.7	1.1	6.5
2001	78.4	76.2	29.0	25.2	2.6	1.3	12.6	2.4	0.3	1.9	0.7	1.1	6.3
2002	78.6	76.3	29.6	25.8	2.6	1.3	12.5	2.3	0.3	1.8	0.7	1.1	6.3
2003	78.9	76.7	30.1	26.3	2.5	1.3	12.4	2.3	0.3	1.8	0.7	1.1	6.3
2004	78.7	76.6	29.9	26.0	2.6	1.3	12.2	2.3	0.3	1.8	0.7	1.0	6.2
2005	78.8	76.7	29.8	25.8	2.7	1.4	12.1	2.3	0.2	1.8	0.7	1.0	6.1
2006	78.9	76.9	30.0	25.9	2.6	1.4	11.9	2.3	0.2	1.8	0.7	0.9	6.0
2007	78.5	76.6	30.5	26.4	2.7	1.4	12.2	2.5	0.2	1.8	0.6	0.9	6.2
2008	78.8	76.8	29.6	25.6	2.7	1.3	12.0	2.3	0.2	1.8	0.6	0.9	6.1
2009	79.1	77.1	29.5	25.6	2.8	1.1	10.7	1.8	0.2	1.7	0.6	0.8	5.5
2010	79.3	77.4	29.3	25.3	2.7	1.3	11.2	2.2	0.3	1.8	0.6	0.9	5.5
2011	78.9	77.0	29.8	25.8	2.7	1.3	11.3	2.2	0.2	1.8	0.6	0.8	5.6
2012	78.9	76.9	29.9	26.1	2.7	1.1	11.1	2.2	0.2	1.7	0.6	0.9	5.5
2013	78.5	76.5	29.0	25.3	2.6	1.0	10.9	2.0	0.2	1.7	0.6	0.9	5.4
2014	77.6	75.6	28.4	24.7	2.6	1.1	10.9	2.1	0.2	1.7	0.6	0.9	5.4
2015	78.1	76.1	28.2	24.6	2.6	1.0	11.0	2.2	0.2	1.6	0.6	0.9	5.5
2016	78.1	76.2	27.5	23.9	2.6	1.0	11.1	2.1	0.2	1.6	0.6	0.9	5.6
2017	78.1	76.2	27.2	23.6	2.6	1.0	11.2	2.1	0.2	1.7	0.6	0.9	5.7
2018	78.0	76.1	26.2	22.6	2.6	1.0	11.5	2.1	0.2	1.8	0.6	1.0	5.8
2019	77.5	75.7	24.1	20.3	2.7	1.0	11.6	2.1	0.2	1.8	0.7	1.0	5.9

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂. Indirect emissions from electricity use are not included in the GHG emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

GHG emissions (*) EU-27

BY SECTOR (SHARES %)

3.2.3

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Indirect CO ₂	TOTAL EMISSIONS	
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries				Agriculture	Waste	Other				
14.8	14.4	3.5	9.1	1.9	0.5	3.1	9.4	9.9	3.6		0.1	100	1990
15.3	15.5	3.7	9.9	1.9	0.4	2.9	8.9	9.5	3.7		0.1	100	1991
16.3	14.9	3.4	9.6	1.9	0.3	2.9	8.9	9.4	3.8		0.1	100	1992
16.7	15.5	3.4	10.0	2.0	0.3	2.9	8.9	9.3	3.9		0.1	100	1993
17.0	14.6	3.2	9.4	2.0	0.3	2.9	9.5	9.2	3.9		0.1	100	1994
17.1	14.6	3.2	9.4	1.9	0.2	2.8	9.6	9.1	3.8		0.1	100	1995
17.3	15.5	3.4	10.1	2.0	0.2	2.7	9.4	9.0	3.7		0.1	100	1996
17.8	14.8	3.2	9.6	1.9	0.2	2.8	9.7	9.1	3.7		0.1	100	1997
18.7	14.5	3.2	9.4	1.9	0.2	2.7	9.3	9.1	3.7		0.1	100	1998
19.5	14.5	3.3	9.3	1.9	0.2	2.7	9.0	9.2	3.7		0.1	100	1999
19.5	14.0	3.1	8.9	1.9	0.2	2.4	9.3	9.1	3.7		0.1	100	2000
19.6	14.7	3.4	9.5	1.9	0.2	2.3	8.9	9.0	3.6		0.1	100	2001
19.8	14.2	3.3	9.2	1.8	0.2	2.3	8.9	8.8	3.5		0.1	100	2002
19.7	14.3	3.2	9.2	1.8	0.2	2.2	9.0	8.6	3.4		0.1	100	2003
20.2	14.1	3.3	9.1	1.8	0.2	2.1	9.3	8.5	3.3		0.1	100	2004
20.3	14.2	3.3	9.1	1.8	0.2	2.1	9.4	8.5	3.3		0.1	100	2005
20.6	14.2	3.5	9.0	1.8	0.2	2.0	9.4	8.4	3.2		0.1	100	2006
21.1	12.7	3.1	7.9	1.7	0.2	2.0	9.7	8.5	3.2		0.1	100	2007
21.1	14.0	3.4	8.8	1.8	0.2	2.0	9.3	8.6	3.2		0.1	100	2008
22.0	14.7	3.6	9.2	1.9	0.2	2.0	8.3	9.2	3.4		0.1	100	2009
21.5	15.2	3.8	9.6	1.9	0.2	1.9	8.5	8.9	3.2		0.1	100	2010
21.8	13.9	3.4	8.6	1.9	0.2	2.0	8.7	9.1	3.2		0.1	100	2011
21.5	14.3	3.4	9.0	1.9	0.2	2.0	8.6	9.3	3.2		0.1	100	2012
21.8	14.7	3.5	9.3	1.9	0.2	2.0	8.7	9.5	3.2		0.0	100	2013
22.8	13.3	3.2	8.1	1.9	0.2	2.0	9.2	10.0	3.2		0.0	100	2014
23.0	13.7	3.4	8.4	1.9	0.2	2.0	8.8	9.9	3.1		0.0	100	2015
23.5	13.9	3.4	8.6	1.9	0.2	1.9	8.9	9.9	3.0		0.0	100	2016
23.9	13.7	3.4	8.4	1.9	0.2	1.9	9.0	9.9	3.0		0.0	100	2017
24.6	13.6	3.3	8.3	2.0	0.2	1.8	9.0	10.0	3.0		0.0	100	2018
25.8	14.0	3.5	8.5	2.1	0.2	1.8	9.1	10.3	3.1		0.0	100	2019

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

Indirect emissions from electricity use are not included in the GHG emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

3.2.4 GHG emissions (*) 2019 – BY SECTOR (MILLION TONNES CO₂ 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	2899.9	2833.4	900.3	760.1	101.5	38.7	435.5	77.4	9.1	67.0	24.8	36.5	220.6
EU-28	3297.2	3221.2	986.9	818.7	114.2	54.0	485.8	86.8	9.8	71.9	26.2	40.7	250.4
BE	91.0	90.3	21.2	15.4	5.7	0.2	13.5	1.2	0.4	3.5	0.6	2.5	5.4
BG	41.0	39.1	22.5	21.5	1.0	0.0	4.1	0.1	0.3	1.4	0.1	0.2	2.0
CZ	94.9	92.0	49.2	43.2	0.5	5.5	9.4	1.4	0.1	1.9	0.5	0.9	4.6
DK	33.1	32.8	8.7	6.5	1.0	1.2	3.7	0.1		0.3	0.1	0.9	2.4
DE	707.3	700.1	249.7	217.9	21.8	9.9	125.4	35.9	0.2		0.0	0.2	89.2
EE	12.5	12.5	8.2	6.6		1.6	0.7	0.0	0.0	0.0	0.1	0.1	0.6
IE	38.6	38.5	9.4	9.0	0.3	0.1	4.6	0.0	1.4	0.4	0.0	1.0	1.8
EL	65.3	64.5	32.0	27.3	4.6	0.0	4.6	0.1	0.4	0.5	0.1	0.6	3.0
ES	255.9	252.1	56.1	43.1	11.1	2.0	47.2	5.6	1.6	9.6	5.0	5.1	20.2
FR	315.8	312.2	38.2	29.1	6.2	2.9	47.9	5.2	0.8	12.5	2.6	8.4	18.4
HR	17.0	16.7	3.9	2.7	1.0	0.2	2.4	0.0	0.0	0.3	0.1	0.3	1.6
IT	349.1	341.6	91.8	67.3	19.1	5.4	49.9	9.9	1.1	9.1	5.0	3.7	21.0
CY	7.6	7.6	3.3	3.3		0.0	0.6		0.0	0.0	0.0	0.1	0.5
LV	7.9	7.8	1.8	1.8		0.1	0.7	0.0	0.0	0.0	0.0	0.1	0.6
LT	12.3	11.7	2.3	0.9	1.3	0.0	1.3			0.3	0.0	0.2	0.7
LU	11.1	11.1	0.2	0.2			1.2	0.3	0.0	0.1	0.0	0.0	0.7
HU	47.1	45.2	12.5	10.5	1.6	0.4	5.2	0.2	0.2	0.4	0.5	0.8	3.1
MT	2.2	2.2	0.7	0.7			0.0						0.0
NL	162.0	160.4	57.1	44.5	10.0	2.6	26.9	4.9	0.2	13.1	0.9	3.6	4.3
AT	58.0	57.6	10.3	7.2	2.8	0.3	10.7	1.9	0.3	1.5	2.0	0.7	4.3
PL	325.1	303.3	150.7	142.7	4.6	3.4	31.4	4.6	1.3	6.6	1.5	4.5	12.8
PT	48.8	47.6	13.0	10.8	2.2		7.8	0.1		1.3	1.4	0.8	4.2
RO	76.4	67.8	21.4	18.5	1.8	1.1	14.6	0.8	0.4	2.2	0.2	0.9	10.0
SI	13.7	13.4	4.6	4.6		0.0	1.7	0.2	0.1	0.1	0.3	0.1	0.9
SK	27.0	26.6	7.1	4.5	1.4	1.2	6.3	2.4	0.1	0.5	0.5	0.3	2.5
FI	41.7	41.6	16.3	14.2	1.7	0.3	6.6	0.8	0.1	0.7	2.6	0.1	2.2
SE	37.6	37.0	8.1	6.0	1.8	0.4	7.0	1.6	0.1	0.5	0.8	0.3	3.8
UK	397.3	387.8	86.5	58.6	12.6	15.3	50.4	9.4	0.7	5.0	1.4	4.2	29.8
MK													
TR	378.4	368.7	148.5	139.1	7.0	2.4	54.5	4.6	0.8	6.4	1.0	5.2	36.6
IS	2.8	2.7	0.0	0.0			0.1	0.0	0.0			0.0	0.1
NO	37.3	35.1	15.2	1.6	0.9	12.6	2.8	0.1	0.1	0.2	0.1	0.3	1.9
CH	40.8	40.6	3.4	3.0	0.3	0.0	4.7	0.3	0.1	0.7	0.1	0.7	2.8

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

GHG emissions (*) 2019 – BY SECTOR 3.2.4

(MILLION TONNES CO₂ EQUIVALENT)

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
967.5	523.5	129.5	317.2	76.8	6.7	66.5	339.8	385.8	115.5		1.6	3 742.6	EU-27
1 124.3	615.9	149.2	384.8	81.8	8.4	76.0	367.8	427.6	134.6		1.6	4 228.8	EU-28
31.2	24.3	5.7	16.1	2.5	0.1	0.7	20.2	9.4	1.3			121.9	BE
10.7	1.8	0.4	0.9	0.5	0.0	1.9	6.4	6.2	3.1			56.7	BG
20.4	12.7	3.0	8.5	1.3	0.3	2.9	15.5	8.2	5.3		0.7	124.6	CZ
16.3	4.0	0.6	1.9	1.5	0.2	0.3	1.8	10.9	1.2		0.3	47.4	DK
195.4	128.6	32.8	89.8	6.1	0.9	7.1	61.4	61.8	9.2			839.7	DE
2.6	0.9	0.3	0.3	0.3		0.0	0.6	1.5	0.3			14.9	EE
15.5	9.0	1.8	6.5	0.7		0.1	3.2	20.5	0.9			63.1	IE
21.9	5.9	0.7	4.7	0.5	0.1	0.7	11.7	7.9	4.8			89.7	EL
110.5	37.8	10.7	15.2	11.9	0.5	3.8	26.1	37.8	13.9			333.7	ES
151.0	73.5	21.4	41.3	10.9	1.6	3.6	47.7	73.2	18.1			454.8	FR
7.2	3.1	0.6	1.8	0.7		0.4	2.7	2.7	1.8			24.2	HR
118.0	81.5	25.0	48.1	8.3	0.5	7.5	33.9	29.5	18.2			430.8	IT
3.2	0.5	0.1	0.3	0.1	0.0		1.2	0.5	0.6		0.0	9.9	CY
3.8	1.5	0.4	0.6	0.5	0.0	0.1	0.9	2.2	0.6		0.0	11.6	LV
6.7	1.5	0.3	0.9	0.2	0.0	0.5	3.4	4.2	0.8			20.7	LT
8.0	1.7	0.7	1.0	0.0	0.0	0.0	0.7	0.7	0.1			12.6	LU
15.6	12.0	2.8	7.7	1.6	0.1	1.8	7.7	7.1	3.4			65.3	HU
1.3	0.1	0.1	0.0	0.0	0.0		0.3	0.1	0.2			2.7	MT
43.0	33.3	7.2	15.8	10.3	0.2	1.5	9.8	17.7	2.9		0.4	192.7	NL
27.4	9.1	1.4	6.7	1.0	0.1	0.3	16.4	7.2	1.3			82.8	AT
69.3	51.9	6.5	33.4	12.0		21.8	24.1	32.7	12.0			394.0	PL
22.2	4.5	1.1	2.1	1.2	0.1	1.2	7.7	6.9	4.6		0.2	68.0	PT
19.4	11.8	2.3	8.0	1.6	0.6	8.6	13.1	18.8	6.0			114.3	RO
5.7	1.3	0.3	0.8	0.2	0.0	0.4	1.3	1.7	0.4			17.1	SI
8.3	4.8	1.3	3.1	0.3	0.1	0.5	8.7	2.8	1.6		0.0	40.2	SK
13.9	3.8	1.2	1.3	1.3	1.1	0.1	5.5	6.6	1.8		0.1	55.7	FI
19.1	2.6	0.8	0.6	1.2	0.2	0.6	7.9	6.9	1.1			53.6	SE
156.8	92.4	19.7	67.6	5.0	1.7	9.4	28.0	41.8	19.1			486.2	UK
													MK
96.5	69.2	14.7	43.7	10.9		9.7	56.4	68.0	17.2			520.1	TR
2.0	0.6	0.0	0.0	0.5	0.0	0.2	2.0	0.6	0.2			5.7	IS
14.0	3.0	1.5	0.6	0.8	0.1	2.2	9.3	4.4	1.1			52.0	NO
20.6	11.8	3.5	7.7	0.6	0.1	0.2	4.4	5.9	0.8	0.0	0.1	52.0	CH

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

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

3.2.4

GHG emissions (*) 2019

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	77.5	75.7	24.1	20.3	2.7	1.0	11.6	2.1	0.2	1.8	0.7	1.0	5.9
EU-28	78.0	76.2	23.3	19.4	2.7	1.3	11.5	2.1	0.2	1.7	0.6	1.0	5.9
BE	74.7	74.1	17.4	12.6	4.7	0.1	11.1	1.0	0.4	2.9	0.5	2.0	4.4
BG	72.3	68.9	39.7	38.0	1.7	0.0	7.2	0.2	0.4	2.5	0.2	0.4	3.5
CZ	76.2	73.8	39.5	34.7	0.4	4.4	7.5	1.1	0.1	1.5	0.4	0.7	3.7
DK	69.9	69.3	18.3	13.7	2.0	2.6	7.9	0.2		0.6	0.1	1.9	5.0
DE	84.2	83.4	29.7	26.0	2.6	1.2	14.9	4.3	0.0		0.0	0.0	10.6
EE	83.8	83.6	55.2	44.4		10.8	5.0	0.0	0.0	0.1	0.4	0.6	3.8
IE	61.1	61.0	14.8	14.2	0.4	0.2	7.3	0.0	2.2	0.7	0.0	1.6	2.8
EL	72.8	72.0	35.7	30.5	5.1	0.0	5.2	0.1	0.4	0.5	0.1	0.7	3.4
ES	76.7	75.5	16.8	12.9	3.3	0.6	14.1	1.7	0.5	2.9	1.5	1.5	6.0
FR	69.4	68.6	8.4	6.4	1.4	0.6	10.5	1.1	0.2	2.8	0.6	1.8	4.0
HR	70.3	68.8	16.2	11.1	4.1	1.0	10.0	0.2	0.1	1.2	0.5	1.4	6.7
IT	81.0	79.3	21.3	15.6	4.4	1.3	11.6	2.3	0.3	2.1	1.2	0.9	4.9
CY	77.0	77.0	33.3	33.3		0.0	5.7		0.0	0.1	0.0	0.7	4.9
LV	68.3	67.5	15.7	15.1		0.6	5.8	0.0	0.0	0.2	0.0	0.8	4.7
LT	59.1	56.6	11.0	4.4	6.4	0.2	6.3			1.5	0.2	1.1	3.4
LU	88.3	88.1	1.9	1.9			9.4	2.4	0.4	1.0	0.0	0.2	5.4
HU	72.1	69.3	19.1	16.1	2.4	0.6	7.9	0.3	0.3	0.6	0.7	1.2	4.8
MT	81.4	81.4	27.5	27.5			1.7						1.7
NL	84.0	83.2	29.6	23.1	5.2	1.3	14.0	2.5	0.1	6.8	0.5	1.9	2.2
AT	70.0	69.6	12.4	8.7	3.4	0.4	13.0	2.2	0.4	1.9	2.4	0.9	5.2
PL	82.5	77.0	38.3	36.2	1.2	0.9	8.0	1.2	0.3	1.7	0.4	1.1	3.2
PT	71.7	70.0	19.1	15.9	3.2		11.5	0.1		2.0	2.1	1.1	6.2
RO	66.9	59.3	18.7	16.2	1.6	1.0	12.7	0.7	0.3	1.9	0.2	0.8	8.8
SI	80.1	77.9	26.7	26.7		0.0	10.1	1.3	0.6	0.4	1.8	0.6	5.5
SK	67.3	66.1	17.7	11.3	3.5	2.9	15.8	6.1	0.3	1.2	1.1	0.9	6.2
FI	74.9	74.7	29.2	25.6	3.1	0.5	11.8	1.5	0.2	1.3	4.7	0.3	3.9
SE	70.2	69.1	15.2	11.2	3.3	0.7	13.1	2.9	0.2	0.9	1.5	0.5	7.0
UK	81.7	79.8	17.8	12.1	2.6	3.1	10.4	1.9	0.1	1.0	0.3	0.9	6.1
MK													
TR	72.8	70.9	28.6	26.7	1.4	0.5	10.5	0.9	0.1	1.2	0.2	1.0	7.0
IS	49.6	46.6	0.1	0.1			1.6	0.0	0.1			0.3	1.1
NO	71.6	67.4	29.2	3.1	1.8	24.3	5.4	0.1	0.3	0.4	0.2	0.6	3.7
CH	78.6	78.1	6.5	5.9	0.6	0.0	9.1	0.5	0.2	1.3	0.2	1.4	5.4

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

GHG emissions (*) 2019

3.2.4

BY SECTOR (SHARES %)

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
25.8	14	3.5	8.5	2.1	0.2	1.8	9.1	10.3	3.1		0	100	EU-27
26.6	14.6	3.5	9.1	1.9	0.2	1.8	8.7	10.1	3.2		0	100	EU-28
25.6	20	4.7	13.2	2	0.1	0.5	16.6	7.7	1.1			100	BE
18.9	3.1	0.6	1.6	0.9	0	3.3	11.2	11	5.5			100	BG
16.3	10.2	2.4	6.8	1	0.2	2.3	12.5	6.6	4.3		0.5	100	CZ
34.3	8.4	1.3	4	3.1	0.4	0.6	3.9	23	2.6		0.6	100	DK
23.3	15.3	3.9	10.7	0.7	0.1	0.8	7.3	7.4	1.1			100	DE
17.5	5.9	1.7	2	2.2		0.1	4.1	10	2.1			100	EE
24.6	14.2	2.8	10.3	1.1		0.1	5	32.4	1.4			100	IE
24.4	6.6	0.8	5.2	0.6	0.2	0.8	13	8.8	5.4			100	EL
33.1	11.3	3.2	4.5	3.6	0.1	1.1	7.8	11.3	4.2			100	ES
33.2	16.2	4.7	9.1	2.4	0.4	0.8	10.5	16.1	4			100	FR
29.8	12.8	2.6	7.3	3		1.5	11.3	11.1	7.2			100	HR
27.4	18.9	5.8	11.2	1.9	0.1	1.7	7.9	6.9	4.2			100	IT
32.2	5.5	1.2	3.4	0.9	0.3		12	5.2	5.8		0.1	100	CY
32.8	12.9	3.4	5	4.5	0.2	0.8	7.7	18.9	5		0.1	100	LV
32.1	7	1.6	4.3	1.1	0.1	2.5	16.4	20.5	4			100	LT
63.6	13.3	5.5	7.6	0.2	0	0.2	5.4	5.7	0.6			100	LU
23.8	18.4	4.2	11.7	2.4	0.1	2.8	11.7	10.9	5.3			100	HU
47.1	5.1	2.8	1.6	0.7	0.1		9.8	2.8	5.9			100	MT
22.3	17.3	3.8	8.2	5.3	0.1	0.8	5.1	9.2	1.5		0.2	100	NL
33.1	11	1.7	8.1	1.2	0.1	0.4	19.8	8.6	1.5			100	AT
17.6	13.2	1.6	8.5	3		5.5	6.1	8.3	3			100	PL
32.6	6.6	1.7	3.1	1.8	0.1	1.8	11.3	10.1	6.7		0.2	100	PT
17	10.3	2	7	1.4	0.6	7.5	11.5	16.5	5.2			100	RO
33.3	7.8	2	4.4	1.4	0	2.2	7.4	10	2.5			100	SI
20.6	11.8	3.4	7.7	0.8	0.2	1.2	21.6	6.9	4.1		0.1	100	SK
24.9	6.8	2.1	2.3	2.4	2	0.2	9.9	11.9	3.2		0.1	100	FI
35.7	4.8	1.4	1.1	2.3	0.3	1.1	14.8	13	2			100	SE
32.3	19	4.1	13.9	1	0.4	1.9	5.8	8.6	3.9			100	UK
													MK
18.5	13.3	2.8	8.4	2.1		1.9	10.9	13.1	3.3			100	TR
35.1	9.8	0	0.1	9.6	0	2.9	35.6	10.9	3.9			100	IS
26.9	5.7	2.9	1.2	1.6	0.2	4.2	17.8	8.5	2			100	NO
39.7	22.7	6.7	14.8	1.2	0.2	0.4	8.4	11.3	1.5	0	0.2	100	CH

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

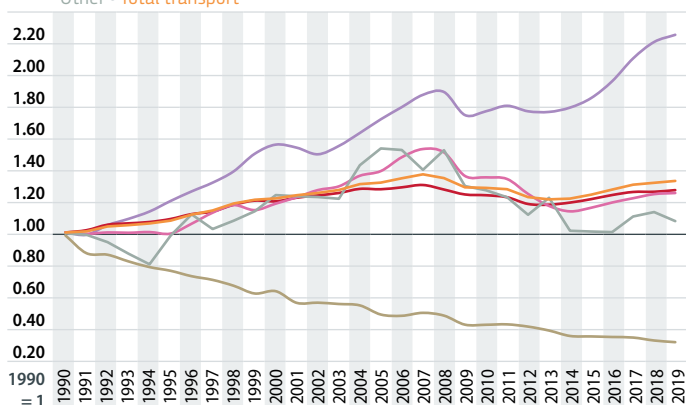
(**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.5 GHG emissions from transport – EU-27 BY MODE (MILLION TONNES CO₂ 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 (**)
1990	66.0	11.9	54.2	620.1	12.7	124.3	22.4	101.8	5.2	828.3	5 027.0
1995	79.1	12.9	66.1	675.1	9.9	123.5	20.9	102.5	5.1	892.6	4 722.3
2000	102.5	17.3	85.1	747.1	8.2	147.3	19.3	128.0	6.4	1 011.5	4 663.6
2005	113.0	17.1	95.8	796.3	6.3	173.3	19.9	153.4	8.0	1 096.9	4 792.1
2010	116.3	16.1	100.2	771.9	5.5	168.3	18.4	149.8	6.6	1 068.6	4 427.1
2011	118.6	15.9	102.7	763.7	5.5	167.0	16.6	150.4	6.4	1 061.1	4 322.2
2012	116.3	14.9	101.4	736.3	5.3	155.1	16.0	139.1	5.8	1 018.8	4 234.5
2013	116.0	13.8	102.3	733.4	5.0	145.5	14.6	130.9	6.4	1 006.3	4 143.6
2014	117.8	13.5	104.4	742.0	4.6	141.2	13.9	127.3	5.3	1 010.9	4 004.6
2015	121.8	13.5	108.3	756.0	4.6	144.1	14.4	129.7	5.2	1 031.7	4 059.6
2016	128.8	14.0	114.7	772.8	4.5	148.2	15.1	133.2	5.2	1 059.6	4 072.0
2017	138.3	14.6	123.7	785.3	4.5	151.7	16.1	135.6	5.7	1 085.4	4 109.1
2018	145.1	15.2	129.9	786.1	4.2	154.9	16.8	138.2	5.9	1 096.2	4 029.9
2019	148.0	15.4	132.6	792.8	4.1	155.8	17.0	138.8	5.6	1 106.2	3 881.4

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



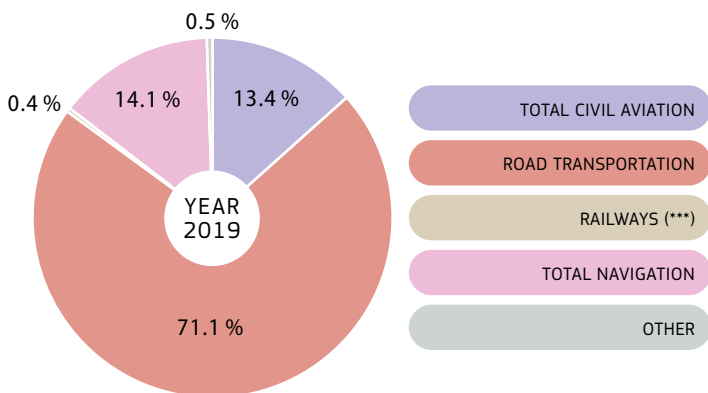
- NB:** (*) Excluding international bunkers (international traffic departing from the EU)
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

GHG emissions from transport EU-27 – BY MODE (SHARES %)

3.2.5

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	1.4	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	1.6	8.7	72.6	0.6	15.8	1.8	14.0	0.7	22.9	100
2010	10.9	1.5	9.4	72.2	0.5	15.7	1.7	14.0	0.6	24.1	100
2011	11.2	1.5	9.7	72.0	0.5	15.7	1.6	14.2	0.6	24.6	100
2012	11.4	1.5	9.9	72.3	0.5	15.2	1.6	13.7	0.6	24.1	100
2013	11.5	1.4	10.2	72.9	0.5	14.5	1.5	13.0	0.6	24.3	100
2014	11.7	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	73.3	0.4	14.0	1.4	12.6	0.5	25.4	100
2016	12.2	1.3	10.8	72.9	0.4	14.0	1.4	12.6	0.5	26.0	100
2017	12.7	1.3	11.4	72.3	0.4	14.0	1.5	12.5	0.5	26.4	100
2018	13.2	1.4	11.8	71.7	0.4	14.1	1.5	12.6	0.5	27.2	100
2019	13.4	1.4	12.0	71.7	0.4	14.1	1.5	12.5	0.5	28.5	100



- NB:** (*) Excluding international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) 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 – 2019

BY MODE (MILLION TONNES CO₂ 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	148.0	15.4	132.6	792.8	4.1	155.8	17.0	138.8	5.6	1 106.2	3 881.4
EU-28	186.5	16.9	169.6	903.2	5.8	171.6	22.6	149.0	6.2	1 273.3	4 377.8
BE	5.2	0.0	5.2	25.0	0.1	27.3	0.4	27.0	0.5	58.1	148.8
BG	0.8	0.0	0.7	9.8	0.0	0.2	0.0	0.2	0.1	10.9	56.9
CZ	1.3	0.0	1.3	18.7	0.3	0.0	0.0		0.1	20.4	124.6
DK	3.3	0.2	3.1	12.2	0.2	2.8	0.5	2.2		18.5	49.6
DE	32.2	2.2	29.9	159.7	0.7	5.2	1.6	3.5	1.2	199.0	843.2
EE	0.2	0.0	0.2	2.3	0.0	0.6	0.0	0.5		3.2	15.5
IE	3.4	0.0	3.3	11.6	0.1	0.7	0.3	0.4	0.1	16.0	63.6
EL	4.4	0.4	4.0	15.2	0.0	10.6	2.2	8.5		30.3	98.1
ES	22.3	3.2	19.1	84.5	0.2	26.5	3.3	23.2	0.1	133.7	356.8
FR	24.2	5.4	18.8	124.6	0.4	6.9	1.3	5.6	0.5	156.6	460.4
HR	0.6	0.0	0.6	6.4	0.1	0.2	0.2	0.1		7.3	24.3
IT	14.9	2.4	12.5	97.7	0.2	11.1	4.5	6.5	0.7	124.5	437.3
CY	1.0	0.0	1.0	2.1		0.9	0.0	0.9		4.1	10.8
LV	0.5	0.0	0.5	3.2	0.2	1.0	0.0	1.0		4.8	12.6
LT	0.4	0.0	0.4	6.1	0.2	0.6	0.0	0.6	0.0	7.3	21.4
LU	1.8	0.0	1.8	6.2	0.0	0.0	0.0	0.0		8.0	12.6
HU	0.9	0.0	0.9	14.4	0.1	0.0	0.0		0.2	15.6	65.3
MT	0.5	0.0	0.5	0.7		7.3	0.0	7.3		8.6	10.0
NL	12.0	0.0	12.0	29.9	0.1	39.3	0.9	38.4	0.1	81.4	231.1
AT	3.0	0.0	2.9	23.7	0.1	0.1	0.1	0.0	0.5	27.5	82.8
PL	3.4	0.1	3.2	64.8	0.3	0.9	0.0	0.9	0.9	70.2	394.8
PT	4.9	0.5	4.4	16.9	0.0	3.4	0.3	3.1		25.3	71.1
RO	0.7	0.2	0.5	18.2	0.4	0.2	0.1	0.1	0.0	19.5	114.4
SI	0.1	0.0	0.1	5.6	0.0	0.6	0.0	0.6	0.0	6.3	17.8
SK	0.2	0.0	0.2	7.6	0.1	0.0	0.0	0.0	0.4	8.3	40.2
FI	2.8	0.2	2.6	10.5	0.1	1.5	0.4	1.1	0.0	14.9	56.7
SE	3.2	0.5	2.7	15.0	0.0	7.7	0.7	7.0	0.2	26.1	60.6
UK	38.5	1.5	37.0	110.4	1.7	15.8	5.6	10.2	0.6	167.0	496.4
MK											
TR	17.5	3.5	14.0	76.7	0.4	4.1	1.2	2.9	0.6	99.3	523.0
IS	1.0	0.0	1.0	1.0		0.3	0.1	0.2		2.2	5.9
NO	2.8	1.1	1.7	8.5	0.0	3.3	2.7	0.7		14.7	52.7
CH	5.9	0.1	5.7	14.6	0.0	0.1	0.1	0.0	0.0	20.6	52.0

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

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

GHG emissions from transport 3.2.6

2019 – 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	13.4	1.4	12.0	71.7	0.4	14.1	1.5	12.5	0.5	28.5	100
EU-28	14.6	1.3	13.3	70.9	0.5	13.5	1.8	11.7	0.5	29.1	100
BE	9.0	0.0	9.0	43.0	0.1	47.0	0.6	46.4	0.8	39.1	100
BG	6.9	0.2	6.7	89.4	0.3	2.2	0.1	2.2	1.2	19.2	100
CZ	6.3	0.0	6.3	91.9	1.4	0.1	0.1		0.2	16.3	100
DK	17.7	0.8	16.9	66.1	1.2	14.9	2.8	12.1		37.3	100
DE	16.2	1.1	15.0	80.3	0.4	2.6	0.8	1.8	0.6	23.6	100
EE	6.8	0.1	6.7	74.0	1.2	17.9	0.5	17.4		20.4	100
IE	21.0	0.1	20.9	72.7	0.9	4.5	1.7	2.8	0.9	25.2	100
EL	14.6	1.4	13.3	50.1	0.1	35.1	7.2	27.9		30.9	100
ES	16.7	2.4	14.3	63.2	0.2	19.8	2.5	17.3	0.1	37.5	100
FR	15.5	3.4	12.0	79.6	0.3	4.4	0.8	3.6	0.3	34.0	100
HR	8.8	0.4	8.4	87.2	0.7	3.2	2.2	1.1		30.0	100
IT	12.0	1.9	10.0	78.5	0.1	8.9	3.6	5.2	0.6	28.5	100
CY	25.4	0.0	25.4	52.6		22.0	0.1	21.9		37.8	100
LV	10.1	0.0	10.1	65.5	3.2	21.3	0.2	21.0		38.2	100
LT	5.1	0.0	5.1	83.1	2.6	8.8	0.2	8.5	0.4	34.1	100
LU	22.7	0.0	22.7	77.2	0.1	0.0	0.0	0.0		63.6	100
HU	5.6	0.1	5.5	92.4	0.9	0.1	0.1		1.1	23.8	100
MT	6.1	0.0	6.0	8.4		85.5	0.3	85.2		85.8	100
NL	14.8	0.0	14.7	36.7	0.1	48.3	1.1	47.2	0.1	35.2	100
AT	10.8	0.2	10.7	86.3	0.4	0.5	0.3	0.2	2.0	33.2	100
PL	4.8	0.2	4.6	92.3	0.4	1.3	0.0	1.2	1.2	17.8	100
PT	19.4	2.0	17.4	67.1	0.1	13.4	1.1	12.3		35.5	100
RO	3.4	1.0	2.4	93.1	2.3	1.2	0.7	0.5	0.0	17.0	100
SI	1.3	0.0	1.2	88.5	0.4	9.8	0.0	9.8	0.0	35.7	100
SK	2.3	0.0	2.3	91.6	1.1	0.2	0.1	0.2	4.8	20.6	100
FI	18.8	1.4	17.4	70.7	0.4	10.0	2.9	7.1	0.0	26.3	100
SE	12.1	1.8	10.3	57.5	0.2	29.5	2.7	26.8	0.7	43.1	100
UK	23.0	0.9	22.1	66.1	1.0	9.5	3.3	6.1	0.4	33.7	100
MK											
TR	17.7	3.5	14.1	77.2	0.4	4.1	1.2	2.9	0.6	19.0	100
IS	45.0	1.3	43.7	43.2		11.8	2.4	9.4		37.4	100
NO	19.1	7.4	11.6	57.8	0.3	22.8	18.1	4.7		27.8	100
CH	28.4	0.6	27.8	70.7	0.1	0.6	0.5	0.1	0.2	39.7	100

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

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

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

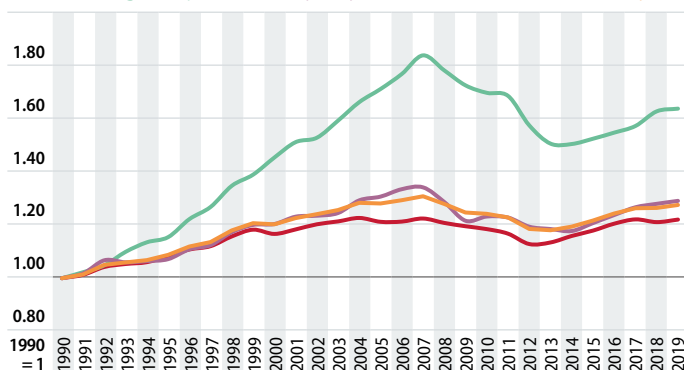
3.2.7 GHG emissions from road transport

EU-27 – BY TRANSPORT MEAN

(MILLION TONNES CO₂ EQUIVALENT)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	620.1	391.9	53.7	166.0	8.0	0.5	828.3	5 027.0
1995	675.1	425.3	61.9	178.0	9.7	0.2	892.6	4 722.3
2000	747.1	458.7	77.8	200.1	10.3	0.2	1 011.5	4 663.6
2005	796.3	477.0	91.5	217.3	10.4	0.2	1 096.9	4 792.1
2010	771.9	466.0	90.7	204.8	10.2	0.1	1 068.6	4 427.1
2011	763.7	459.1	90.1	204.2	10.2	0.1	1 061.1	4 322.2
2012	736.3	443.5	84.2	198.4	10.1	0.1	1 018.8	4 234.5
2013	733.4	445.9	80.6	196.9	9.9	0.1	1 006.3	4 143.6
2014	742.0	455.7	80.5	195.7	10.0	0.2	1 010.9	4 004.6
2015	756.0	463.8	81.5	200.7	9.9	0.1	1 031.7	4 059.6
2016	772.8	474.2	82.8	205.8	9.9	0.1	1 059.6	4 072.0
2017	785.3	480.7	84.1	210.6	9.8	0.1	1 085.4	4 109.1
2018	786.1	476.6	87.0	212.8	9.6	0.1	1 096.2	4 029.9
2019	792.8	480.4	87.5	214.7	10.0	0.1	1 106.2	3 881.4

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



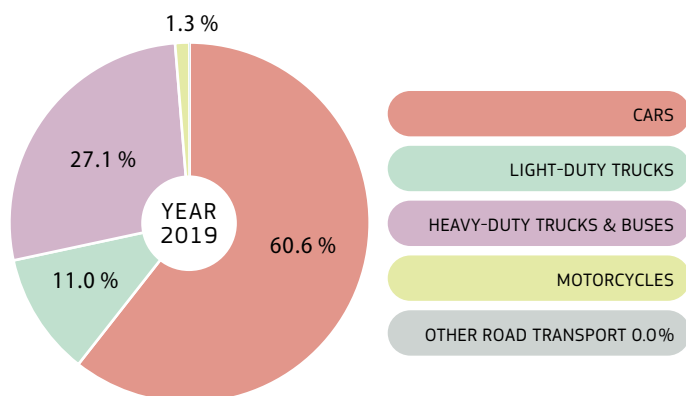
NB: (*) Including international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

GHG emissions from road transport 3.2.7

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	47.3	6.5	20.0	1.0	0.1	16.5	100
1995	75.6	47.6	6.9	19.9	1.1	0.0	18.9	100
2000	73.9	45.4	7.7	19.8	1.0	0.0	21.7	100
2005	72.6	43.5	8.3	19.8	0.9	0.0	22.9	100
2010	72.2	43.6	8.5	19.2	1.0	0.0	24.1	100
2011	72.0	43.3	8.5	19.2	1.0	0.0	24.6	100
2012	72.3	43.5	8.3	19.5	1.0	0.0	24.1	100
2013	72.9	44.3	8.0	19.6	1.0	0.0	24.3	100
2014	73.4	45.1	8.0	19.4	1.0	0.0	25.2	100
2015	73.3	45.0	7.9	19.5	1.0	0.0	25.4	100
2016	72.9	44.8	7.8	19.4	0.9	0.0	26.0	100
2017	72.3	44.3	7.7	19.4	0.9	0.0	26.4	100
2018	71.7	43.5	7.9	19.4	0.9	0.0	27.2	100
2019	71.7	43.4	7.9	19.4	0.9	0.0	28.5	100



NB: (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

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

3.2.8

Total CO₂ emissions (*)

(MILLION TONNES)

	1990	1995	2000	2005	2010	2015	2018	2019
EU-27	3 945.0	3 714.3	3 699.1	3 843.9	3 539.6	3 211.1	3 189.4	3 054.7
EU-28	4 558.6	4 298.5	4 294.1	4 446.2	4 080.4	3 664.2	3 605.1	3 457.8
BE	123.4	128.8	131.4	129.2	118.7	105.4	105.4	104.9
BG	77.4	58.9	45.7	51.2	48.4	48.8	44.4	43.0
CZ	166.6	133.6	128.9	127.7	119.5	106.6	108.1	102.7
DK	56.5	64.5	57.5	54.8	52.1	38.1	38.0	34.3
DE	1 064.4	954.0	919.1	889.5	857.2	820.2	784.0	741.1
EE	37.8	18.3	15.5	17.3	19.1	16.0	18.2	12.6
IE	34.0	37.0	47.1	50.6	44.1	41.2	42.5	40.6
EL	85.9	89.6	105.5	116.5	99.9	77.8	75.7	69.7
ES	235.9	274.1	320.9	381.2	296.5	286.2	288.1	270.5
FR	406.8	403.1	427.8	440.2	402.5	357.0	350.0	344.9
HR	23.5	17.1	19.9	23.6	21.3	18.2	18.3	18.4
IT	443.8	455.6	478.4	510.7	445.0	370.9	361.0	352.2
CY	5.4	6.7	8.0	8.8	8.9	7.7	8.4	8.4
LV	19.9	9.2	7.2	8.0	8.9	7.6	8.3	8.1
LT	36.2	15.2	11.9	14.3	14.1	13.6	14.1	14.3
LU	12.2	9.7	9.7	13.4	12.5	10.7	11.4	11.6
HU	73.7	61.9	59.1	61.1	52.8	47.2	50.2	49.9
MT	2.6	2.8	2.9	2.9	2.9	2.1	2.0	2.2
NL	167.3	180.6	181.5	188.3	192.2	176.0	171.6	165.5
AT	63.0	65.3	67.8	81.0	74.0	68.5	69.1	70.9
PL	377.4	363.7	318.5	324.3	336.3	315.3	340.0	322.7
PT	47.0	56.4	67.9	72.2	55.9	55.6	55.7	52.2
RO	190.6	128.4	95.7	102.8	80.6	80.2	81.1	77.4
SI	15.1	15.4	15.1	17.0	16.5	13.7	14.6	14.1
SK	61.6	44.3	41.3	43.0	38.6	34.6	36.3	34.0
FI	58.1	59.2	58.2	58.4	65.8	46.1	48.3	45.2
SE	58.7	60.9	56.6	55.8	55.2	45.8	44.9	43.6
UK	613.6	584.2	595.0	602.3	540.8	453.1	415.7	403.1
MK								
TR	152.1	181.7	231.4	267.5	320.2	392.4	431.4	413.3
IS	2.4	2.7	3.3	3.4	4.0	4.2	4.9	4.5
NO	36.0	39.3	43.4	44.8	47.5	47.0	45.6	43.9
CH	47.6	47.4	48.5	49.4	49.4	43.8	42.6	42.6

NB: (*) Excluding international maritime and LULUCF (land use, land-use change and forestry) emissions, including international aviation and indirect CO₂. Emissions data are downloaded from the European Environment Agency (EEA), which is the main provider for EU-wide GHG emissions data. 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.

CO₂ emissions from transport 3.2.9

(MILLION TONNES)

INCLUDING INTERNATIONAL BUNKERS (*)

	1990	1995	2000	2005	2010	2015	2018	2019
EU-27	814.4	876.9	996.1	1 084.3	1 057.1	1 020.2	1 083.8	1 093.5
EU-28	957.3	1 026.8	1 161.1	1 258.6	1 219.9	1 183.8	1 251.3	1 258.8
BE	37.1	38.5	45.6	55.3	55.5	49.9	61.3	57.6
BG	7.2	6.0	5.8	8.6	8.7	10.0	10.7	10.8
CZ	11.7	10.8	12.4	18.1	17.6	18.2	19.9	20.1
DK	15.4	18.7	18.7	18.4	17.7	17.5	18.1	18.3
DE	180.3	195.6	205.7	190.2	185.4	192.9	196.1	196.6
EE	3.1	1.9	2.0	2.6	3.0	3.3	3.6	3.1
IE	6.2	7.6	12.9	15.7	14.1	14.7	15.9	15.8
EL	24.7	30.1	32.4	33.2	33.4	25.5	28.1	29.8
ES	74.1	85.7	113.9	138.5	130.3	121.0	130.1	132.2
FR	137.3	148.1	162.6	164.9	157.3	154.8	154.5	155.0
HR	4.4	3.6	4.6	5.8	6.2	6.3	7.0	7.2
IT	109.1	121.4	133.5	141.9	129.9	120.1	122.2	123.1
CY	2.1	2.5	3.2	3.8	3.8	3.4	4.0	4.0
LV	4.7	2.6	2.3	4.1	4.4	4.2	3.9	4.7
LT	6.4	3.7	3.5	4.7	4.9	5.5	7.0	7.2
LU	3.0	3.9	5.8	8.4	7.8	7.0	7.8	7.9
HU	9.2	7.9	9.7	12.7	12.3	12.6	14.5	15.4
MT	1.4	2.3	3.0	2.9	5.4	6.1	8.3	8.5
NL	67.3	72.4	84.8	96.3	89.2	82.3	79.2	80.6
AT	14.7	17.0	20.4	26.8	24.5	24.7	26.7	27.2
PL	22.2	24.3	29.6	37.6	50.9	49.9	68.2	69.4
PT	13.6	16.6	23.0	23.5	23.1	21.4	23.8	25.0
RO	12.8	8.9	10.0	12.7	14.6	16.3	18.6	19.2
SI	2.7	3.9	3.6	4.5	5.4	5.6	6.6	6.3
SK	6.8	5.5	5.7	7.7	7.5	7.3	7.8	8.2
FI	14.7	13.1	15.0	15.7	14.9	13.6	15.0	14.8
SE	22.4	24.2	26.3	29.6	29.4	25.9	25.0	25.7
UK	142.9	149.9	165.0	174.3	162.8	163.7	167.5	165.2
MK								
TR	27.2	34.6	38.4	47.7	52.6	88.1	97.9	97.5
IS	0.8	0.8	1.1	1.2	1.2	1.7	2.6	2.2
NO	13.1	13.9	15.9	16.8	17.3	16.6	15.2	14.3
CH	17.5	17.7	20.4	19.2	20.5	20.1	20.4	20.4

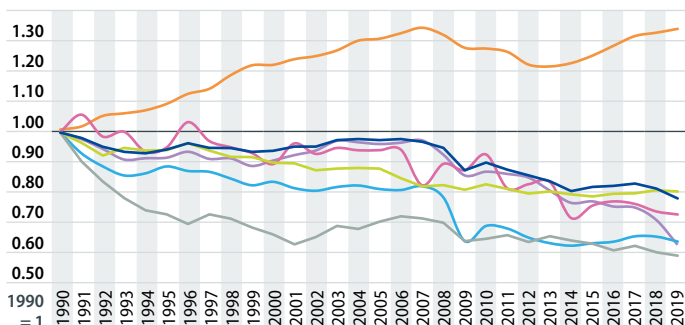
NB: (*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries. For the EU-27, changes in international maritime emissions between 2010 and 2011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

3.2.10

CO₂ 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	3610.3	3587.1	1430.3	1226.7	102.9	100.8	738.9	152.6	11.6	101.8	29.4	44.4	399.0
1995	3409.8	3388.6	1309.3	1119.0	107.9	82.4	644.3	134.4	11.3	97.6	33.2	53.3	314.4
2000	3391.5	3370.7	1295.7	1119.3	115.2	61.2	585.6	118.2	12.6	86.0	31.6	48.3	288.9
2005	3530.1	3509.1	1374.9	1189.4	123.0	62.6	553.0	104.9	11.4	83.6	30.2	44.9	278.0
2010	3278.6	3257.5	1241.9	1072.8	114.4	54.6	474.9	92.6	10.7	75.1	26.6	36.3	233.6
2011	3182.1	3160.5	1231.1	1065.4	111.9	53.9	465.7	92.8	10.2	73.4	25.7	34.8	228.8
2012	3120.6	3099.0	1213.5	1060.4	109.0	44.2	447.3	88.0	9.3	70.4	25.0	34.6	220.0
2013	3042.8	3019.8	1151.0	1006.1	103.4	41.6	430.4	81.8	8.9	68.7	24.5	34.7	211.8
2014	2903.6	2881.2	1092.0	949.3	101.6	41.1	416.3	79.8	8.3	63.7	23.0	34.3	207.2
2015	2962.6	2940.6	1099.2	957.4	102.5	39.2	426.1	84.6	8.3	63.0	22.9	34.5	212.8
2016	2973.4	2952.0	1074.2	931.8	102.8	39.5	430.2	81.7	8.3	63.7	23.2	35.3	218.0
2017	2997.9	2975.8	1069.3	929.4	101.0	38.9	440.4	82.6	8.8	67.2	23.4	36.6	221.8
2018	2933.2	2911.5	1009.9	870.5	99.9	39.5	441.9	82.6	8.8	69.5	23.2	36.4	221.3
2019	2804.4	2783.6	890.4	751.2	101.1	38.0	429.7	77.1	9.1	66.4	24.0	35.9	217.2

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

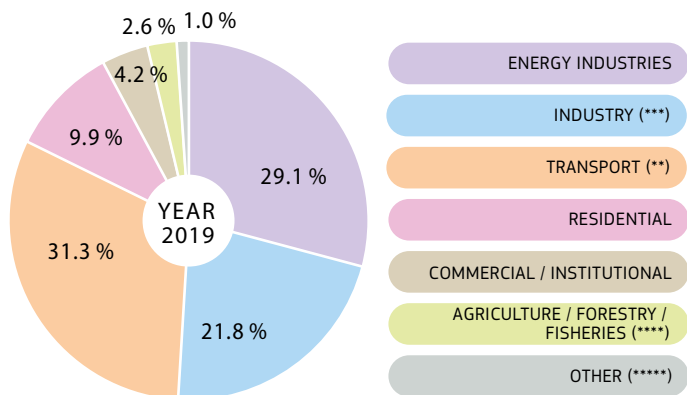


- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from 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 CO₂ and other.

CO₂ emissions (*) EU-27 BY SECTOR (MILLION TONNES)

3.2.10

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
713.8	681.7	169.0	425.8	86.9	22.4	23.2	312.6	14.0	3.8		4.3	3945.0	1990
775.7	648.8	147.1	416.8	84.9	10.5	21.2	287.4	9.8	3.6		3.6	3714.3	1995
869.7	610.8	141.5	389.0	80.4	8.8	20.8	291.8	10.0	2.8		3.0	3699.1	2000
932.6	637.8	151.7	406.7	79.4	10.8	20.9	298.9	9.0	3.4		2.6	3843.9	2005
908.8	624.0	160.1	389.7	74.2	7.9	21.1	246.6	8.7	3.3		2.3	3539.6	2010
901.0	554.4	139.8	342.1	72.6	8.2	21.6	246.6	8.8	3.2		2.2	3442.8	2011
870.1	560.9	139.5	350.8	70.7	7.1	21.6	232.8	9.1	3.2		2.1	3367.8	2012
865.8	565.4	141.1	353.6	70.8	7.1	22.9	230.2	9.7	3.1		1.9	3287.7	2013
873.8	492.1	124.5	297.8	69.8	6.9	22.4	235.5	9.7	3.1		1.9	3153.7	2014
891.9	516.4	132.7	314.6	69.1	7.0	22.0	234.1	9.7	2.8		1.9	3211.1	2015
916.0	525.2	133.7	322.0	69.4	6.4	21.5	235.7	10.3	2.9		1.8	3224.1	2016
939.1	520.6	132.5	318.1	70.0	6.4	22.0	244.5	9.9	3.1		1.8	3257.1	2017
947.1	506.6	128.9	306.7	71.0	6.0	21.7	241.8	10.0	2.8		1.7	3189.4	2018
956.3	500.7	128.2	301.4	71.2	6.6	20.8	236.8	9.4	2.5		1.6	3054.7	2019



- NB:** (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
- (**) 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 CO₂ and other.

3.2.10

CO₂ 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	91.5	90.9	36.3	31.1	2.6	2.6	18.7	3.9	0.3	2.6	0.7	1.1	10.1
1991	92.1	91.6	36.1	31.2	2.5	2.4	17.9	3.8	0.3	2.5	0.8	1.2	9.2
1992	92.3	91.7	36.0	31.2	2.6	2.2	17.6	3.6	0.3	2.3	0.8	1.2	9.4
1993	92.4	91.8	35.3	30.4	2.7	2.2	17.2	3.3	0.3	2.2	0.8	1.3	9.3
1994	91.9	91.4	35.7	30.6	2.8	2.3	17.1	3.6	0.3	2.4	0.9	1.4	8.6
1995	91.8	91.2	35.2	30.1	2.9	2.2	17.3	3.6	0.3	2.6	0.9	1.4	8.5
1996	92.2	91.7	35.2	30.2	2.9	2.0	16.7	3.2	0.3	2.5	0.9	1.4	8.3
1997	91.9	91.3	34.9	29.8	3.0	2.0	16.7	3.4	0.3	2.5	0.9	1.4	8.2
1998	91.9	91.3	35.0	30.0	3.1	1.9	16.2	3.2	0.3	2.3	0.9	1.3	8.1
1999	92.0	91.4	34.5	29.7	3.0	1.7	15.9	3.0	0.3	2.4	0.8	1.3	8.0
2000	91.7	91.1	35.0	30.3	3.1	1.7	15.8	3.2	0.3	2.3	0.9	1.3	7.8
2001	92.1	91.6	35.2	30.5	3.1	1.6	15.3	2.9	0.4	2.3	0.8	1.3	7.6
2002	92.1	91.5	35.8	31.1	3.1	1.6	15.0	2.8	0.3	2.2	0.8	1.3	7.6
2003	92.1	91.5	36.2	31.6	3.0	1.5	14.8	2.7	0.3	2.2	0.8	1.3	7.5
2004	91.8	91.3	35.9	31.1	3.1	1.6	14.6	2.8	0.3	2.2	0.8	1.2	7.4
2005	91.8	91.3	35.8	30.9	3.2	1.6	14.4	2.7	0.3	2.2	0.8	1.2	7.2
2006	91.7	91.1	35.8	31.0	3.2	1.7	14.1	2.7	0.3	2.1	0.8	1.1	7.1
2007	91.5	91.0	36.4	31.6	3.2	1.6	14.5	2.9	0.3	2.1	0.8	1.0	7.3
2008	91.9	91.3	35.4	30.6	3.3	1.6	14.3	2.8	0.3	2.2	0.7	1.0	7.2
2009	93.0	92.5	35.6	30.9	3.4	1.4	12.9	2.2	0.3	2.1	0.8	1.0	6.6
2010	92.6	92.0	35.1	30.3	3.2	1.5	13.4	2.6	0.3	2.1	0.8	1.0	6.6
2011	92.4	91.8	35.8	30.9	3.3	1.6	13.5	2.7	0.3	2.1	0.7	1.0	6.6
2012	92.7	92.0	36.0	31.5	3.2	1.3	13.3	2.6	0.3	2.1	0.7	1.0	6.5
2013	92.6	91.9	35.0	30.6	3.1	1.3	13.1	2.5	0.3	2.1	0.7	1.1	6.4
2014	92.1	91.4	34.6	30.1	3.2	1.3	13.2	2.5	0.3	2.0	0.7	1.1	6.6
2015	92.3	91.6	34.2	29.8	3.2	1.2	13.3	2.6	0.3	2.0	0.7	1.1	6.6
2016	92.2	91.6	33.3	28.9	3.2	1.2	13.3	2.5	0.3	2.0	0.7	1.1	6.8
2017	92.0	91.4	32.8	28.5	3.1	1.2	13.5	2.5	0.3	2.1	0.7	1.1	6.8
2018	92.0	91.3	31.7	27.3	3.1	1.2	13.9	2.6	0.3	2.2	0.7	1.1	6.9
2019	91.8	91.1	29.1	24.6	3.3	1.2	14.1	2.5	0.3	2.2	0.8	1.2	7.1

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂. Indirect emissions from electricity use are not included in the CO₂ emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

CO₂ emissions (*) EU-27 BY SECTOR (SHARES %)

3.2.10

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
18.1	17.3	4.3	10.8	2.2	0.6	0.6	7.9	0.4	0.1		0.1	100	1990
18.6	18.5	4.5	11.7	2.2	0.5	0.6	7.4	0.3	0.1		0.1	100	1991
19.9	17.8	4.2	11.4	2.2	0.4	0.6	7.2	0.3	0.1		0.1	100	1992
20.4	18.5	4.2	11.9	2.3	0.4	0.6	7.2	0.3	0.1		0.1	100	1993
20.7	17.5	4.0	11.2	2.3	0.3	0.6	7.6	0.3	0.1		0.1	100	1994
20.9	17.5	4.0	11.2	2.3	0.3	0.6	7.7	0.3	0.1		0.1	100	1995
21.0	18.5	4.2	11.9	2.3	0.3	0.5	7.4	0.3	0.1		0.1	100	1996
21.7	17.7	4.0	11.4	2.3	0.3	0.6	7.7	0.3	0.1		0.1	100	1997
22.6	17.3	4.0	11.1	2.2	0.3	0.6	7.6	0.3	0.1		0.1	100	1998
23.6	17.2	4.0	11.0	2.2	0.3	0.6	7.5	0.3	0.1		0.1	100	1999
23.5	16.5	3.8	10.5	2.2	0.2	0.6	7.9	0.3	0.1		0.1	100	2000
23.5	17.4	4.1	11.1	2.1	0.2	0.5	7.5	0.3	0.1		0.1	100	2001
23.7	16.8	3.9	10.7	2.1	0.2	0.5	7.5	0.3	0.1		0.1	100	2002
23.5	16.7	3.9	10.8	2.1	0.2	0.6	7.5	0.2	0.1		0.1	100	2003
24.0	16.5	3.9	10.5	2.1	0.3	0.5	7.8	0.2	0.1		0.1	100	2004
24.3	16.6	3.9	10.6	2.1	0.3	0.5	7.8	0.2	0.1		0.1	100	2005
24.5	16.5	4.1	10.4	2.0	0.3	0.6	7.9	0.2	0.1		0.1	100	2006
25.1	14.7	3.7	9.1	1.9	0.3	0.6	8.1	0.2	0.1		0.1	100	2007
25.2	16.2	4.1	10.1	2.0	0.2	0.6	7.7	0.2	0.1		0.1	100	2008
26.5	17.2	4.4	10.7	2.1	0.2	0.6	6.5	0.3	0.1		0.1	100	2009
25.7	17.6	4.5	11.0	2.1	0.2	0.6	7.0	0.2	0.1		0.1	100	2010
26.2	16.1	4.1	9.9	2.1	0.2	0.6	7.2	0.3	0.1		0.1	100	2011
25.8	16.7	4.1	10.4	2.1	0.2	0.6	6.9	0.3	0.1		0.1	100	2012
26.3	17.2	4.3	10.8	2.2	0.2	0.7	7.0	0.3	0.1		0.1	100	2013
27.7	15.6	3.9	9.4	2.2	0.2	0.7	7.5	0.3	0.1		0.1	100	2014
27.8	16.1	4.1	9.8	2.2	0.2	0.7	7.3	0.3	0.1		0.1	100	2015
28.4	16.3	4.1	10.0	2.2	0.2	0.7	7.3	0.3	0.1		0.1	100	2016
28.8	16.0	4.1	9.8	2.1	0.2	0.7	7.5	0.3	0.1		0.1	100	2017
29.7	15.9	4.0	9.6	2.2	0.2	0.7	7.6	0.3	0.1		0.1	100	2018
31.3	16.4	4.2	9.9	2.3	0.2	0.7	7.8	0.3	0.1		0.1	100	2019

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

Indirect emissions from electricity use are not included in the CO₂ emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

3.2.11

CO₂ emissions (*) 2019

BY SECTOR (MILLION TONNES)

	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	2804.4	2783.6	890.4	751.2	101.1	38.0	429.7	77.1	9.1	66.4	24.0	35.9	217.2
EU-28	3192.0	3166.9	975.8	809.2	113.7	52.9	479.7	86.5	9.8	71.3	25.4	40.0	246.6
BE	89.2	89.1	21.0	15.3	5.6	0.2	13.4	1.2	0.4	3.4	0.5	2.5	5.3
BG	39.2	38.4	22.4	21.4	1.0	0.0	4.1	0.1	0.3	1.4	0.1	0.2	1.9
CZ	90.4	90.3	48.9	43.0	0.5	5.4	9.3	1.4	0.1	1.9	0.4	0.9	4.5
DK	32.4	32.2	8.5	6.3	1.0	1.2	3.7	0.1		0.3	0.1	0.9	2.3
DE	692.3	690.3	244.8	213.5	21.8	9.6	124.3	35.7	0.1		0.0	0.2	88.2
EE	12.2	12.2	8.2	6.6		1.6	0.7	0.0	0.0	0.0	0.1	0.1	0.6
IE	37.9	37.9	9.2	8.8	0.3	0.1	4.6	0.0	1.4	0.4	0.0	1.0	1.8
EL	63.7	63.7	31.9	27.2	4.6	0.0	4.6	0.1	0.4	0.5	0.1	0.6	3.0
ES	251.2	247.6	55.4	42.6	11.0	1.8	46.0	5.6	1.6	9.3	4.8	4.9	19.8
FR	309.9	307.3	37.9	28.8	6.2	2.9	47.2	5.1	0.8	12.5	2.5	8.3	17.8
HR	16.3	16.1	3.9	2.6	1.0	0.2	2.4	0.0	0.0	0.3	0.1	0.3	1.6
IT	336.7	334.0	91.3	66.9	19.0	5.4	48.8	9.8	1.1	9.1	5.0	3.5	20.4
CY	7.5	7.5	3.3	3.3			0.6		0.0	0.0	0.0	0.1	0.5
LV	7.5	7.5	1.8	1.7		0.1	0.6		0.0	0.0	0.0	0.1	0.5
LT	11.6	11.4	2.2	0.8	1.3	0.0	1.3			0.3	0.0	0.2	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	44.5	44.4	12.4	10.4	1.6	0.4	5.1	0.2	0.2	0.4	0.5	0.8	3.1
MT	2.2	2.2	0.7	0.7			0.0						0.0
NL	159.0	157.9	56.6	44.1	10.0	2.5	26.8	4.9	0.2	13.0	0.9	3.6	4.2
AT	56.7	56.6	10.2	7.1	2.8	0.3	10.6	1.9	0.3	1.5	1.9	0.7	4.2
PL	301.7	297.4	149.9	141.9	4.6	3.4	31.1	4.5	1.3	6.6	1.5	4.5	12.6
PT	47.8	46.7	12.9	10.7	2.2		7.7	0.1		1.3	1.4	0.8	4.1
RO	66.6	66.0	21.3	18.4	1.8	1.1	14.5	0.8	0.4	2.2	0.2	0.9	10.0
SI	13.2	13.1	4.6	4.6		0.0	1.7	0.2	0.1	0.1	0.3	0.1	0.9
SK	26.1	26.1	7.1	4.5	1.4	1.2	6.3	2.4	0.1	0.5	0.4	0.3	2.5
FI	40.8	40.7	15.9	14.0	1.7	0.3	6.4	0.8	0.1	0.7	2.5	0.1	2.1
SE	36.7	36.1	7.9	5.7	1.8	0.4	6.8	1.6	0.1	0.5	0.7	0.3	3.7
UK	387.6	383.3	85.4	57.9	12.6	14.9	50.0	9.4	0.7	5.0	1.4	4.2	29.4
MK													
TR	363.0	362.8	147.7	138.3	7.0	2.4	54.3	4.6	0.8	6.4	1.0	5.2	36.3
IS	2.8	2.6	0.0	0.0			0.1	0.0	0.0			0.0	0.1
NO	36.0	34.3	15.0	1.6	0.9	12.5	2.8	0.1	0.1	0.2	0.1	0.3	1.9
CH	40.3	40.2	3.3	3.0	0.3		4.7	0.3	0.1	0.7	0.1	0.7	2.8

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

CO₂ emissions (*) 2019

BY SECTOR (MILLION TONNES)

3.2.11

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
956.3	500.7	128.2	301.4	71.2	6.6	20.8	236.8	9.4	2.5		1.6	3 054.7	EU-27
1 111.4	591.8	147.8	367.8	76.1	8.3	25.1	250.3	11.0	2.8		1.6	3 457.8	EU-28
30.8	23.8	5.7	15.8	2.3	0.1	0.1	15.2	0.2	0.3			104.9	BE
10.5	1.4	0.3	0.6	0.4	0.0	0.8	3.7	0.0	0.0			43.0	BG
20.1	11.7	2.9	7.5	1.2	0.3	0.1	11.3	0.3	0.1		0.7	102.7	CZ
16.1	3.8	0.6	1.8	1.4	0.2	0.2	1.4	0.2	0.0		0.3	34.3	DK
193.1	127.1	32.6	88.7	5.8	0.9	2.0	45.9	2.8				741.1	DE
2.6	0.7	0.3	0.2	0.3		0.0	0.4	0.0	0.0			12.6	EE
15.4	8.8	1.8	6.4	0.6		0.0	2.2	0.4	0.0			40.6	IE
21.5	5.6	0.7	4.5	0.5	0.1	0.0	5.9	0.0	0.0			69.7	EL
109.3	36.5	10.6	14.2	11.8	0.4	3.6	18.8	0.4				270.5	ES
149.5	71.1	21.3	39.9	9.9	1.6	2.6	31.5	2.1	1.4			344.9	FR
7.1	2.7	0.6	1.4	0.6		0.2	2.0	0.1				18.4	HR
116.7	76.7	24.6	44.6	7.5	0.5	2.8	14.9	0.4	0.1			352.2	IT
3.2	0.5	0.1	0.3	0.1	0.0		0.8	0.0			0.0	8.4	CY
3.8	1.3	0.4	0.4	0.5	0.0	0.0	0.6	0.1	0.0		0.0	8.1	LV
6.6	1.3	0.3	0.7	0.2	0.0	0.2	2.7	0.0	0.0			14.3	LT
7.9	1.7	0.7	0.9	0.0	0.0	0.0	0.6	0.0				11.6	LU
15.4	11.4	2.7	7.2	1.6	0.1	0.1	5.2	0.2	0.0			49.9	HU
1.3	0.1	0.1	0.0	0.0	0.0		0.0		0.0			2.2	MT
42.6	31.8	7.2	15.4	9.2	0.2	1.1	6.0	0.1			0.4	165.5	NL
27.1	8.7	1.4	6.4	0.9	0.1	0.1	14.0	0.1	0.0			70.9	AT
68.5	47.9	6.4	30.8	10.7		4.3	19.4	1.1	0.5			322.7	PL
21.9	4.1	1.1	1.8	1.2	0.1	1.1	4.1	0.0	0.0		0.2	52.2	PT
19.1	10.5	2.2	6.8	1.4	0.6	0.6	10.6	0.1	0.0			77.4	RO
5.6	1.2	0.3	0.6	0.2	0.0	0.1	0.8	0.0	0.0			14.1	SI
8.2	4.5	1.3	2.8	0.3	0.1	0.0	7.8	0.1	0.0		0.0	34.0	SK
13.7	3.5	1.2	1.0	1.3	1.1	0.1	4.1	0.2			0.1	45.2	FI
18.8	2.4	0.7	0.5	1.2	0.2	0.5	6.7	0.1	0.1			43.6	SE
155.1	91.1	19.7	66.5	4.9	1.7	4.3	13.6	1.6	0.2			403.1	UK
													MK
94.7	66.2	14.6	41.8	9.7		0.2	49.0	1.3	0.0			413.3	TR
2.0	0.5	0.0	0.0	0.5	0.0	0.2	1.7	0.0	0.0			4.5	IS
13.7	2.7	1.5	0.4	0.8	0.1	1.7	7.8	0.1	0.0			43.9	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 (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

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

3.2.11

CO₂ emissions (*) 2019

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	91.8	91.1	29.1	24.6	3.3	1.2	14.1	2.5	0.3	2.2	0.8	1.2	7.1
EU-28	92.3	91.6	28.2	23.4	3.3	1.5	13.9	2.5	0.3	2.1	0.7	1.2	7.1
BE	85.1	84.9	20.0	14.5	5.3	0.1	12.8	1.2	0.4	3.3	0.5	2.4	5.0
BG	91.2	89.3	52.1	49.8	2.3	0.0	9.4	0.3	0.6	3.3	0.2	0.5	4.5
CZ	88.0	87.9	47.6	41.8	0.5	5.3	9.0	1.4	0.1	1.8	0.4	0.9	4.4
DK	94.5	93.9	24.7	18.4	2.8	3.5	10.7	0.3		0.8	0.2	2.6	6.8
DE	93.4	93.2	33.0	28.8	2.9	1.3	16.8	4.8	0.0		0.0	0.0	11.9
EE	96.8	96.8	64.9	52.1		12.8	5.9	0.0	0.0	0.2	0.5	0.7	4.5
IE	93.4	93.4	22.7	21.8	0.7	0.3	11.3	0.0	3.4	1.0	0.0	2.4	4.4
EL	91.4	91.4	45.7	39.1	6.6	0.1	6.6	0.1	0.5	0.6	0.1	0.8	4.3
ES	92.9	91.5	20.5	15.7	4.1	0.7	17.0	2.1	0.6	3.4	1.8	1.8	7.3
FR	89.9	89.1	11.0	8.4	1.8	0.8	13.7	1.5	0.2	3.6	0.7	2.4	5.2
HR	88.6	87.5	21.1	14.4	5.4	1.3	13.2	0.2	0.1	1.6	0.6	1.8	8.8
IT	95.6	94.8	25.9	19.0	5.4	1.5	13.9	2.8	0.3	2.6	1.4	1.0	5.8
CY	90.1	90.1	39.2	39.2			6.7		0.0	0.1	0.0	0.8	5.7
LV	91.6	91.6	21.9	21.1		0.8	7.7		0.0	0.3	0.1	1.1	6.2
LT	81.2	79.6	15.5	5.9	9.3	0.3	9.0			2.2	0.3	1.6	4.9
LU	94.7	94.7	1.9	1.9			10.1	2.6	0.4	1.1	0.0	0.2	5.8
HU	89.1	88.9	24.8	20.9	3.1	0.8	10.2	0.4	0.4	0.8	0.9	1.6	6.2
MT	99.8	99.8	33.9	33.9			2.1						2.1
NL	96.1	95.4	34.2	26.7	6.1	1.5	16.2	3.0	0.1	7.9	0.6	2.2	2.6
AT	80.1	79.9	14.3	10.0	3.9	0.4	14.9	2.6	0.4	2.2	2.7	1.0	6.0
PL	93.5	92.2	46.5	44.0	1.4	1.0	9.6	1.4	0.4	2.0	0.5	1.4	3.9
PT	91.7	89.5	24.7	20.5	4.1		14.7	0.2		2.6	2.6	1.4	7.9
RO	86.1	85.3	27.6	23.8	2.3	1.4	18.7	1.1	0.5	2.9	0.3	1.1	12.9
SI	93.7	92.8	32.3	32.3		0.0	12.1	1.5	0.7	0.4	2.2	0.7	6.5
SK	76.7	76.7	20.8	13.2	4.2	3.4	18.5	7.2	0.3	1.4	1.3	1.0	7.3
FI	90.3	90.1	35.3	30.9	3.7	0.6	14.2	1.8	0.2	1.6	5.5	0.3	4.8
SE	84.1	82.9	18.0	13.1	4.0	0.9	15.7	3.6	0.3	1.1	1.6	0.6	8.5
UK	96.2	95.1	21.2	14.4	3.1	3.7	12.4	2.3	0.2	1.2	0.3	1.0	7.3
MK													
TR	87.8	87.8	35.7	33.5	1.7	0.6	13.1	1.1	0.2	1.5	0.2	1.2	8.8
IS	61.7	58.1	0.1	0.1			1.9	0.0	0.2			0.3	1.3
NO	82.0	78.2	34.3	3.6	2.1	28.5	6.3	0.2	0.3	0.5	0.2	0.7	4.4
CH	94.6	94.5	7.9	7.1	0.8		11.0	0.6	0.3	1.6	0.3	1.7	6.5

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

CO₂ emissions (*) 2019

BY SECTOR (SHARES %)

3.2.11

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO ₂	TOTAL EMISSIONS	
31.3	16.4	4.2	9.9	2.3	0.2	0.7	7.8	0.3	0.1		0.1	100	EU-27
32.1	17.1	4.3	10.6	2.2	0.2	0.7	7.2	0.3	0.1		0.0	100	EU-28
29.4	22.7	5.4	15.1	2.2	0.1	0.1	14.5	0.2	0.3			100	BE
24.5	3.2	0.7	1.4	1.0	0.0	1.9	8.7	0.1	0.0			100	BG
19.6	11.4	2.9	7.3	1.2	0.3	0.1	11.0	0.3	0.1		0.6	100	CZ
46.9	11.0	1.8	5.1	4.1	0.6	0.6	4.1	0.5	0.1		0.8	100	DK
26.1	17.2	4.4	12.0	0.8	0.1	0.3	6.2	0.4				100	DE
20.5	5.6	2.0	1.3	2.3		0.0	3.1	0.1	0.0			100	EE
37.9	21.6	4.4	15.7	1.5		0.0	5.5	1.1	0.1			100	IE
30.8	8.1	1.1	6.4	0.6	0.2	0.0	8.5	0.0	0.0			100	EL
40.4	13.5	3.9	5.2	4.3	0.2	1.3	6.9	0.2				100	ES
43.3	20.6	6.2	11.6	2.9	0.5	0.8	9.1	0.6	0.4			100	FR
38.7	14.5	3.3	7.6	3.5		1.1	11.0	0.4				100	HR
33.1	21.8	7.0	12.7	2.1	0.1	0.8	4.2	0.1	0.0			100	IT
37.6	6.3	1.4	3.9	1.0	0.3		9.8	0.0			0.1	100	CY
46.2	15.5	4.4	5.3	5.7	0.3	0.0	7.6	0.7	0.0		0.2	100	LV
46.0	8.9	2.2	5.1	1.5	0.2	1.6	18.6	0.2	0.0			100	LT
68.3	14.3	6.0	8.1	0.2	0.0	0.0	5.2	0.1				100	LU
30.8	22.9	5.5	14.3	3.1	0.1	0.3	10.4	0.4	0.1			100	HU
57.5	6.2	3.4	1.9	0.9	0.1		0.2		0.0			100	MT
25.7	19.2	4.3	9.3	5.5	0.1	0.6	3.6	0.0			0.3	100	NL
38.3	12.3	2.0	9.1	1.2	0.1	0.2	19.7	0.2	0.0			100	AT
21.2	14.8	2.0	9.5	3.3		1.3	6.0	0.3	0.1			100	PL
42.0	7.9	2.2	3.5	2.3	0.1	2.2	7.9	0.1	0.1		0.3	100	PT
24.7	13.5	2.9	8.8	1.9	0.8	0.8	13.8	0.2	0.0			100	RO
40.0	8.3	2.4	4.4	1.5	0.0	0.9	6.0	0.2	0.1			100	SI
24.0	13.2	3.9	8.4	0.9	0.2	0.1	22.9	0.2	0.0		0.1	100	SK
30.4	7.8	2.6	2.3	2.9	2.5	0.1	9.2	0.4			0.1	100	FI
43.2	5.5	1.7	1.1	2.7	0.4	1.2	15.3	0.3	0.3			100	SE
38.5	22.6	4.9	16.5	1.2	0.4	1.1	3.4	0.4	0.1			100	UK
													MK
22.9	16.0	3.5	10.1	2.4		0.0	11.9	0.3	0.0			100	TR
43.9	12.2	0.0	0.2	12.0	0.0	3.6	38.0	0.1	0.2			100	IS
31.2	6.2	3.3	0.9	1.9	0.3	3.8	17.8	0.2	0.0			100	NO
48.0	27.5	8.2	17.9	1.4	0.3	0.1	5.0	0.1	0.0	0.0	0.3	100	CH

NB: (*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO₂.

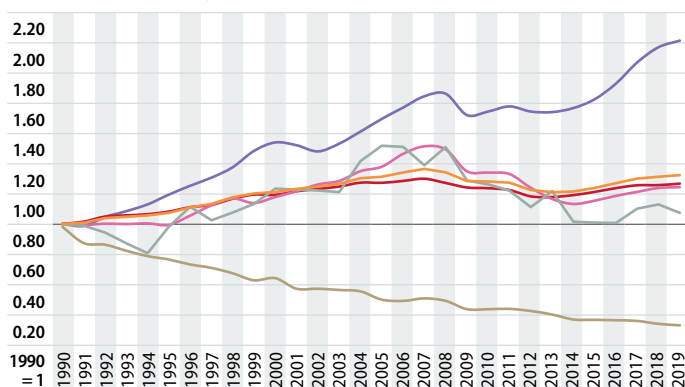
(**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.12 CO₂ 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	11.7	53.7	609.3	12.0	122.7	22.1	100.6	5.1	814.4	4 045.6
1995	78.3	12.8	65.5	662.4	9.3	121.8	20.6	101.2	5.1	876.9	3 815.5
2000	101.5	17.2	84.4	735.0	7.7	145.5	19.0	126.5	6.4	996.1	3 825.6
2005	112.0	17.0	95.0	787.2	6.0	171.2	19.6	151.7	7.9	1 084.3	3 995.6
2010	115.3	16.0	99.3	763.8	5.2	166.3	18.1	148.2	6.5	1 057.1	3 687.8
2011	117.5	15.8	101.8	755.6	5.2	165.1	16.3	148.7	6.3	1 049.7	3 591.6
2012	115.2	14.8	100.5	728.4	5.0	153.3	15.8	137.6	5.7	1 007.7	3 505.4
2013	115.0	13.6	101.4	725.4	4.7	143.9	14.4	129.5	6.3	995.3	3 417.2
2014	116.8	13.3	103.5	733.9	4.3	139.6	13.6	126.0	5.2	999.8	3 279.7
2015	120.7	13.4	107.3	747.6	4.3	142.4	14.1	128.3	5.2	1 020.2	3 339.4
2016	127.6	13.9	113.7	764.1	4.3	146.5	14.8	131.7	5.2	1 047.7	3 355.8
2017	137.0	14.4	122.6	776.3	4.2	149.9	15.8	134.1	5.7	1 073.1	3 391.2
2018	143.8	15.1	128.7	777.0	4.0	153.2	16.5	136.7	5.8	1 083.8	3 326.1
2019	146.7	15.3	131.4	783.5	3.8	153.9	16.7	137.2	5.5	1 093.5	3 191.9

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



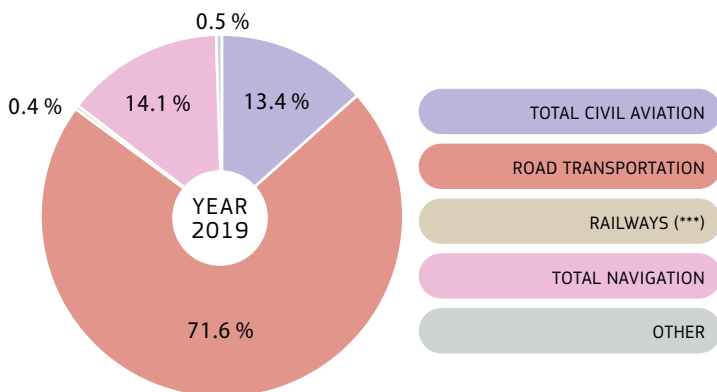
- NB:** (*) Excluding international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

CO₂ emissions from transport 3.2.12

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 TRANSPORTATION (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.0	1.4	6.6	74.8	1.5	15.1	2.7	12.4	0.6	20.1	100
1995	8.9	1.5	7.5	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	1.6	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	28.7	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	28.7	100
2013	11.6	1.4	10.2	72.9	0.5	14.5	1.4	13.0	0.6	29.1	100
2014	11.7	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	73.3	0.4	14.0	1.4	12.6	0.5	30.6	100
2016	12.2	1.3	10.9	72.9	0.4	14.0	1.4	12.6	0.5	31.2	100
2017	12.8	1.3	11.4	72.3	0.4	14.0	1.5	12.5	0.5	31.6	100
2018	13.3	1.4	11.9	71.7	0.4	14.1	1.5	12.6	0.5	32.6	100
2019	13.4	1.4	12.0	71.6	0.4	14.1	1.5	12.5	0.5	34.3	100



- NB:** (*) Excluding international bunkers (international traffic departing from the EU).
 (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).
 (***) 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 CO₂ emissions from transport 2019 – BY MODE (MILLION TONNES)

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	146.7	15.3	131.4	783.5	3.8	153.9	16.7	137.2	5.5	1 093.5	3 191.9
EU-28	184.8	16.8	168.1	892.7	5.5	169.5	22.2	147.3	6.1	1 258.8	3 605.1
BE	5.2	0.0	5.2	24.7	0.1	27.1	0.4	26.7	0.5	57.6	131.7
BG	0.7	0.0	0.7	9.6	0.0	0.2	0.0	0.2	0.1	10.8	43.2
CZ	1.3	0.0	1.3	18.5	0.3	0.0	0.0		0.1	20.1	102.7
DK	3.2	0.1	3.1	12.1	0.2	2.7	0.5	2.2		18.3	36.5
DE	31.9	2.2	29.6	157.7	0.7	5.1	1.6	3.5	1.2	196.6	744.5
EE	0.2	0.0	0.2	2.3	0.0	0.6	0.0	0.5		3.1	13.1
IE	3.3	0.0	3.3	11.5	0.1	0.7	0.3	0.4	0.1	15.8	41.0
EL	4.4	0.4	4.0	15.0	0.0	10.3	2.1	8.3		29.8	78.0
ES	22.1	3.1	19.0	83.5	0.2	26.2	3.3	22.9	0.1	132.2	293.4
FR	24.0	5.3	18.7	123.3	0.4	6.8	1.3	5.5	0.5	155.0	350.4
HR	0.6	0.0	0.6	6.3	0.0	0.2	0.2	0.1		7.2	18.5
IT	14.8	2.4	12.4	96.6	0.1	10.9	4.5	6.5	0.7	123.1	358.6
CY	1.0	0.0	1.0	2.1		0.9	0.0	0.9		4.0	9.3
LV	0.5	0.0	0.5	3.1	0.1	0.9	0.0	0.9		4.7	9.1
LT	0.4	0.0	0.4	6.0	0.2	0.6	0.0	0.6	0.0	7.2	14.9
LU	1.8	0.0	1.8	6.1	0.0	0.0	0.0	0.0		7.9	11.6
HU	0.9	0.0	0.9	14.2	0.1	0.0	0.0		0.2	15.4	49.9
MT	0.5	0.0	0.5	0.7		7.3	0.0	7.3		8.5	9.5
NL	11.9	0.0	11.9	29.6	0.1	38.9	0.9	38.0	0.1	80.6	203.5
AT	3.0	0.0	2.9	23.4	0.1	0.1	0.1	0.0	0.5	27.2	70.9
PL	3.3	0.1	3.2	64.1	0.3	0.9	0.0	0.9	0.9	69.4	323.6
PT	4.9	0.5	4.4	16.8	0.0	3.3	0.3	3.1		25.0	55.2
RO	0.7	0.2	0.5	17.9	0.4	0.2	0.1	0.1	0.0	19.2	77.5
SI	0.1	0.0	0.1	5.5	0.0	0.6	0.0	0.6	0.0	6.3	14.7
SK	0.2	0.0	0.2	7.5	0.1	0.0	0.0	0.0	0.4	8.2	34.0
FI	2.8	0.2	2.6	10.5	0.1	1.5	0.4	1.0	0.0	14.8	46.2
SE	3.1	0.5	2.6	14.8	0.0	7.5	0.7	6.9	0.2	25.7	50.4
UK	38.1	1.5	36.6	109.2	1.7	15.6	5.5	10.1	0.6	165.2	413.2
MK											
TR	17.4	3.5	13.9	75.1	0.4	4.0	1.2	2.8	0.6	97.5	416.1
IS	1.0	0.0	1.0	0.9		0.3	0.1	0.2		2.2	4.7
NO	2.8	1.1	1.7	8.4	0.0	3.1	2.5	0.6		14.3	44.5
CH	5.8	0.1	5.7	14.4	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 CO₂ but excluding LULUCF (land use, land-use change and forestry).

CO₂ emissions from transport 3.2.13

2019 – 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	13.4	1.4	12.0	71.6	0.4	14.1	1.5	12.5	0.5	34.3	100
EU-28	14.7	1.3	13.4	70.9	0.4	13.5	1.8	11.7	0.5	34.9	100
BE	9.0	0.0	9.0	42.9	0.1	47.1	0.6	46.4	0.8	43.7	100
BG	7.0	0.2	6.8	89.3	0.3	2.2	0.1	2.2	1.2	24.9	100
CZ	6.3	0.0	6.3	92.0	1.3	0.1	0.1		0.3	19.6	100
DK	17.7	0.8	16.9	66.1	1.2	14.9	2.8	12.1		50.2	100
DE	16.2	1.1	15.1	80.2	0.4	2.6	0.8	1.8	0.6	26.4	100
EE	6.9	0.1	6.7	74.1	1.1	18.0	0.5	17.5		23.7	100
IE	21.1	0.1	21.0	72.7	0.8	4.5	1.7	2.8	0.9	38.5	100
EL	14.8	1.4	13.4	50.4	0.1	34.7	7.0	27.7		38.2	100
ES	16.7	2.4	14.4	63.2	0.2	19.8	2.5	17.3	0.1	45.1	100
FR	15.5	3.4	12.1	79.6	0.3	4.4	0.8	3.6	0.3	44.2	100
HR	8.9	0.4	8.4	87.3	0.6	3.2	2.2	1.1		39.0	100
IT	12.0	1.9	10.1	78.5	0.1	8.9	3.6	5.2	0.6	34.3	100
CY	25.5	0.0	25.5	52.6		21.9	0.1	21.9		43.6	100
LV	10.3	0.0	10.3	66.9	2.9	19.9	0.2	19.6		51.7	100
LT	5.2	0.0	5.1	83.3	2.3	8.8	0.2	8.6	0.4	48.3	100
LU	22.8	0.0	22.8	77.1	0.1	0.0	0.0	0.0		68.3	100
HU	5.6	0.1	5.5	92.4	0.8	0.1	0.1		1.1	30.8	100
MT	6.0	0.0	6.0	8.4		85.6	0.3	85.3		90.2	100
NL	14.8	0.0	14.8	36.7	0.1	48.3	1.1	47.2	0.1	39.6	100
AT	10.9	0.2	10.7	86.3	0.3	0.5	0.3	0.2	2.0	38.3	100
PL	4.8	0.2	4.6	92.3	0.4	1.3	0.0	1.2	1.2	21.4	100
PT	19.5	2.0	17.5	67.1	0.1	13.4	1.1	12.3		45.3	100
RO	3.4	1.0	2.4	93.3	2.0	1.2	0.7	0.5	0.0	24.8	100
SI	1.3	0.0	1.2	88.5	0.4	9.8	0.0	9.8	0.0	42.5	100
SK	2.3	0.0	2.3	91.6	1.0	0.2	0.1	0.2	4.9	24.0	100
FI	18.8	1.4	17.4	70.7	0.4	10.0	2.9	7.1	0.0	32.0	100
SE	12.1	1.8	10.3	57.7	0.2	29.3	2.7	26.7	0.7	50.9	100
UK	23.1	0.9	22.2	66.1	1.0	9.4	3.3	6.1	0.4	40.0	100
MK											
TR	17.8	3.6	14.3	77.1	0.4	4.1	1.2	2.9	0.6	23.4	100
IS	45.1	1.3	43.8	43.1		11.8	2.4	9.4		46.3	100
NO	19.3	7.5	11.8	58.5	0.3	21.9	17.7	4.2		32.1	100
CH	28.4	0.6	27.9	70.7	0.1	0.6	0.5	0.1	0.2	48.0	100

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

(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

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

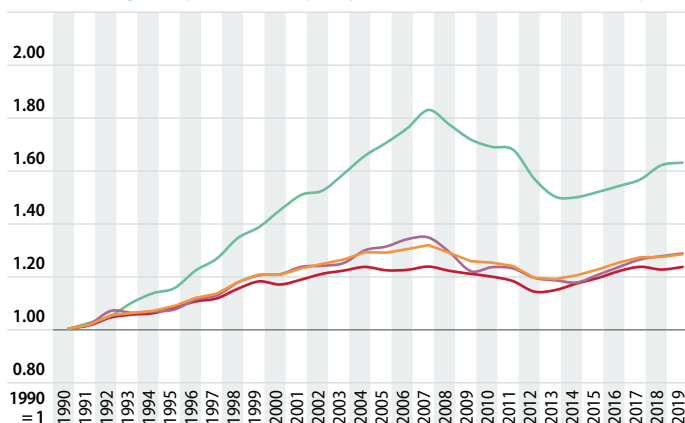
3.2.14

CO₂ 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	609.3	383.8	53.2	164.2	7.5	0.4	814.4	4045.6
1995	662.4	415.3	61.4	176.3	9.2	0.2	876.9	3815.5
2000	735.0	449.4	77.1	198.5	9.8	0.2	996.1	3825.6
2005	787.2	470.5	90.7	215.9	9.9	0.2	1084.3	3995.6
2010	763.8	461.0	89.8	202.9	9.9	0.1	1057.1	3687.8
2011	755.6	454.3	89.2	202.1	9.9	0.1	1049.7	3591.6
2012	728.4	438.8	83.4	196.2	9.8	0.1	1007.7	3505.4
2013	725.4	441.3	79.8	194.7	9.6	0.1	995.3	3417.2
2014	733.9	451.0	79.7	193.3	9.7	0.1	999.8	3279.7
2015	747.6	459.0	80.8	198.2	9.6	0.1	1020.2	3339.4
2016	764.1	469.3	82.0	203.1	9.7	0.1	1047.7	3355.8
2017	776.3	475.6	83.3	207.8	9.5	0.1	1073.1	3391.2
2018	777.0	471.6	86.2	209.8	9.3	0.1	1083.8	3326.1
2019	783.5	475.4	86.7	211.6	9.8	0.1	1093.5	3191.9

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



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

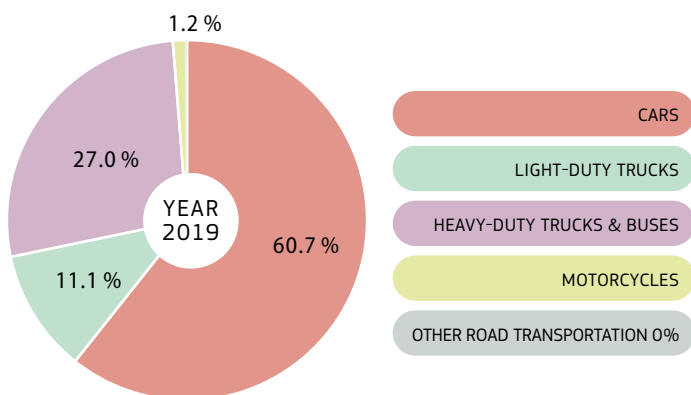
(**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

CO₂ emissions from road transport – EU-27

3.2.14

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	47.1	6.5	20.2	0.9	0.1	20.1	100
1995	75.5	47.4	7.0	20.1	1.0	0.0	23.0	100
2000	73.8	45.1	7.7	19.9	1.0	0.0	26.0	100
2005	72.6	43.4	8.4	19.9	0.9	0.0	27.1	100
2010	72.3	43.6	8.5	19.2	0.9	0.0	28.7	100
2011	72.0	43.3	8.5	19.3	0.9	0.0	29.2	100
2012	72.3	43.5	8.3	19.5	1.0	0.0	28.7	100
2013	72.9	44.3	8.0	19.6	1.0	0.0	29.1	100
2014	73.4	45.1	8.0	19.3	1.0	0.0	30.5	100
2015	73.3	45.0	7.9	19.4	0.9	0.0	30.6	100
2016	72.9	44.8	7.8	19.4	0.9	0.0	31.2	100
2017	72.3	44.3	7.8	19.4	0.9	0.0	31.6	100
2018	71.7	43.5	7.9	19.4	0.9	0.0	32.6	100
2019	71.6	43.5	7.9	19.3	0.9	0.0	34.3	100



NB: (**) Including international bunkers and indirect CO₂ but excluding LULUCF (land use, land-use change and forestry).

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

3.2.15

Oil spills at sea

NUMBER OF OIL SPILLS, TOTAL AMOUNT SPILT

PERIOD		Number of 7 to 700 tonnes	Number of over 700 tonnes	Tonnes of oil spilt
2020		3	0	1 000
2019		2	1	1 000
2018		4	3	116 000
2017		4	2	7 000
2016		4	1	6 000
2015		6	2	7 000
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	Taeon, 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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