



STATISTICAL POCKETBOOK

2019



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 28 Member States and, as far as possible, the current EU candidate countries, the EFTA countries and former EU countries.

The content of this pocketbook is based on a range of sources including Eurostat, international organisations, 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 (mis-)interpreted as 'official' data.

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 as well as other transport-related data, and, finally,
- (3) an energy and environmental part with data on the impact which the transport sector has on the environment.

Most of the tables have data up to 2017; where available, more recent data have been provided.

The tables of this pocketbook may also be found on the Europa site at: http://ec.europa.eu/transport/facts-fundings/statistics/index_en.htm

Many tables on the internet contain more data than could be presented in this pocketbook. Some tables may be updated on the web before the publication of the next paper version.

Eurostat, the main data provider, may be accessed directly on the internet at: <http://epp.eurostat.ec.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
ca.	circa = approximately
EUR	euro
DG	Directorate-General of the European Commission
dwt	deadweight ton (shipping)
GDP	Gross Domestic Product
grt	gross registered 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
rpk	revenue passenger kilometres (air)
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-28) (ALSO EEA MEMBERS)

		EU MEMBER STATE SINCE:
AT	Austria	1995
BE	Belgium	1958
BG	Bulgaria	2007
CY	Cyprus	2004
CZ	Czech Republic	2004
DE	Germany	1958
DK	Denmark	1973
EE	Estonia	2004
EL	Greece	1981
ES	Spain	1986
FI	Finland	1995
FR	France	1958
HR	Croatia	2013
HU	Hungary	2004
IE	Ireland	1973
IT	Italy	1958
LT	Lithuania	2004
LU	Luxembourg	1958
LV	Latvia	2004
MT	Malta	2004
NL	Netherlands	1958
PL	Poland	2004
PT	Portugal	1986
RO	Romania	2007
SE	Sweden	1995
SI	Slovenia	2004
SK	Slovak Republic	2004
UK	United Kingdom	1973

OTHER EUROPEAN ECONOMIC AREA (EEA) AND IN 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) COUNTRIES

CH	Switzerland	EFTA: 1960
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EUROPEAN UNION CANDIDATE COUNTRIES

AL	Albania
ME	Montenegro
MK	North Macedonia
RS	Serbia
TR	Turkey

OTHER COUNTRIES

CS	Czechoslovakia (until 1992)
CN	China
JP	Japan
RU	Russia
US	United States of America

Notes: 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

99 875
15033,785
42.5%
875

4381.4

30.5

111.0

78.9

43.1

357.1

45.2

70.3

32.0

306.0

30.0

4.6

3.3

64.6

60.3

4.6

93.0

93.0

8.7

3.3

3.9

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

64.6

65.3

2.6

93.0

0.5

8.3

312.7

5.1

238.4

20.3

31.4

4.6

243.8

13.8

88.4

785.3

103.0

323.8

41.3

PART 1

SUMMARY

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General Data

1.1

	AREA	POPULATION	GDP (NOMINAL)	GDP PER HEAD IN PPS	
	1 000 km ²	million	billion EUR	EU-28 = 100	
	on 1/1/2018		2017	2016	2017
EU-28	4 470.6	512.379	15 389.3	100	100
BE	30.5	11.399	439.2	118	117
BG	111.0	7.050	51.7	48	49
CZ	78.9	10.610	191.7	87	90
DK	43.1	5.781	292.8	126	128
DE	357.1	82.792	3 277.3	124	124
EE	45.2	1.319	23.6	77	79
IE	70.3	4.830	294.1	176	181
EL	132.0	10.741	180.2	68	67
ES	506.0	46.658	1 166.3	91	92
FR	633.1	66.926	2 295.1	104	104
HR	56.6	4.105	49.0	61	62
IT	301.3	60.484	1 727.4	97	96
CY	9.3	0.864	19.6	84	85
LV	64.6	1.934	27.0	64	67
LT	65.3	2.809	42.2	75	78
LU	2.6	0.602	55.3	260	253
HU	93.0	9.778	124.1	67	68
MT	0.3	0.476	11.3	95	98
NL	41.5	17.181	738.1	128	128
AT	83.9	8.822	369.9	128	127
PL	312.7	37.977	467.3	68	70
PT	92.1	10.291	194.6	77	77
RO	238.4	19.531	187.5	59	63
SI	20.3	2.067	43.0	82	85
SK	49.0	5.443	84.9	77	76
FI	338.4	5.513	223.9	109	109
SE	450.3	10.120	475.2	122	121
UK	243.8	66.274	2 338.0	106	106
AL	28.7	2.870	11.6	29	30
ME	13.8	0.622	4.3	44	46
MK	25.7	2.075	10.0	37	38
RS	88.4	7.001	39.2	39	39
TR	785.3	80.811	753.9	66	66
IS	103.0	0.348	21.7	130	130
NO	323.8	5.296	354.3	144	146
CH	41.3	8.484	601.4	159	156

Notes: CY: Area refers to the whole island.

FR: Area and population include the 5 French overseas departments Guyane, Martinique, Mayotte, Guadeloupe and La Réunion.

Data on GDP based on ESA2010 methodology.

1.2 Growth in GDP & Industrial Production COMPARED TO THE PREVIOUS YEAR

	GROWTH IN GDP Real growth				GROWTH IN INDUSTRIAL PRODUCTION (excl. construction)			
	% CHANGE				% CHANGE			
	2014	2015	2016	2017	2014	2015	2016	2017
EU-28	1.8	2.3	2.0	2.5	1.2	2.6	1.7	3.1
BE	1.3	1.7	1.5	1.7	1.3	-1.2	4.5	2.9
BG	1.8	3.5	3.9	3.8	2.0	2.7	2.8	3.8
CZ	2.7	5.3	2.5	4.4	5.2	4.5	3.0	6.8
DK	1.6	2.3	2.4	2.3	0.6	0.0	3.7	2.3
DE	2.2	1.7	2.2	2.2	1.3	0.9	1.1	3.4
EE	2.9	1.9	3.5	4.9	4.3	-0.2	3.0	4.3
IE	8.8	25.1	5.0	7.2	21.1	35.9	1.8	-2.3
EL	0.7	-0.4	-0.2	1.5	-2.0	1.0	2.6	4.8
ES	1.4	3.6	3.2	3.0	1.4	3.4	1.7	3.2
FR	1.0	1.1	1.2	2.3	-1.1	1.4	0.5	2.4
HR	-0.1	2.4	3.5	2.9	1.1	2.6	5.0	1.9
IT	0.1	0.9	1.1	1.7	-0.6	1.0	1.9	3.6
CY	-1.3	2.0	4.8	4.5	-0.5	5.0	9.1	7.5
LV	1.9	3.0	2.1	4.6	-0.9	3.4	4.9	8.5
LT	3.5	2.0	2.4	4.1	0.1	4.2	2.7	6.8
LU	4.3	3.9	2.4	1.5	4.4	1.2	0.1	2.6
HU	4.2	3.5	2.3	4.1	7.2	7.1	0.7	5.4
MT	8.5	10.7	5.7	6.8	-5.7	-0.2	-7.3	8.7
NL	1.4	2.0	2.2	2.9	-2.8	-3.5	1.3	1.4
AT	0.7	1.1	2.0	2.6	0.9	2.1	2.9	5.4
PL	3.3	3.8	3.1	4.8	3.1	4.8	2.8	6.9
PT	0.9	1.8	1.9	2.8	1.7	2.0	2.4	3.6
RO	3.4	3.9	4.8	7.0	6.3	2.6	3.1	8.6
SI	3.0	2.3	3.1	4.9	1.7	5.1	7.7	8.3
SK	2.8	4.2	3.1	3.2	3.2	6.6	4.7	3.2
FI	-0.6	0.5	2.8	3.0	-1.8	-1.0	4.3	3.3
SE	2.6	4.5	2.7	2.1	-1.7	3.2	1.3	4.8
UK	2.9	2.3	1.8	1.8	1.4	1.2	1.5	1.6
AL	1.8	2.2	3.3	3.8	3.1	-9.2	-19.6	8.6
ME	1.8	3.4	2.9	4.7	-11.4	7.9	-2.9	-4.2
MK	3.6	3.9	2.8	0.2	4.7	4.9	3.4	0.2
RS	-1.6	1.8	3.3	2.0	-7.5	7.4	4.7	4.4
TR	5.2	6.1	3.2	7.4	5.7	5.8	3.4	9.0
IS	2.1	4.7	6.6	4.6	1.1	9.4	-9.0	0.9
NO	2.0	2.0	1.2	2.0	3.5	0.6	-1.5	2.0
CH	2.4	1.3	1.6	1.6	1.0	-2.1	-0.1	5.5

Notes: Industrial production: includes NACE Rev. 2 Sections B, C and D.

Data adjusted by working days.

Growth GDP section: data calculated according to the ESA2010 methodology.

Growth industrial production section: data for the 28 member states, NO, CH, ME, MK, RS and TR provided by Eurostat. IS estimated by OECD. AL provided by UNECE.

Employment and Unemployment 1.3

	EMPLOYMENT RATE				UNEMPLOYMENT RATE			
	%				%			
	2014	2015	2016	2017	2014	2015	2016	2017
EU-28	64.8	65.6	66.6	67.7	10.4	9.6	8.7	7.8
BE	61.9	61.8	62.3	63.1	8.6	8.6	7.9	7.1
BG	61.0	62.9	63.4	66.9	11.5	9.2	7.7	6.2
CZ	69.0	70.2	72.0	73.6	6.2	5.1	4.0	2.9
DK	72.8	73.5	74.9	74.2	6.8	6.3	6.3	5.9
DE	73.8	74.0	74.7	75.2	5.1	4.7	4.2	3.8
EE	69.6	71.9	72.1	74.1	7.5	6.3	7.0	5.9
IE	63.1	64.8	66.4	67.7	12.1	10.1	8.6	6.9
EL	49.4	50.8	52.0	53.5	26.7	25.1	23.7	21.7
ES	56.0	57.8	59.5	61.1	24.6	22.2	19.7	17.3
FR	63.7	63.8	64.2	64.7	10.3	10.4	10.1	9.5
HR	54.6	56.0	56.9	58.9	17.5	16.4	13.3	11.3
IT	55.7	56.3	57.2	58.0	12.9	12.1	11.9	11.4
CY	62.1	62.7	63.7	65.6	16.3	15.2	13.2	11.3
LV	66.3	68.1	68.7	70.1	11.1	10.1	9.9	8.9
LT	65.7	67.2	69.4	70.4	10.9	9.3	8.1	7.3
LU	66.6	66.1	65.6	66.3	5.9	6.7	6.3	5.5
HU	61.8	63.9	66.5	68.2	7.8	6.8	5.1	4.2
MT	63.9	65.1	67.2	69.2	5.8	5.4	4.7	4.1
NL	73.1	74.1	74.8	75.8	7.5	6.9	6.1	4.9
AT	71.1	71.1	71.5	72.2	5.7	5.8	6.1	5.6
PL	61.7	62.9	64.5	66.1	9.1	7.6	6.2	5.0
PT	62.6	63.9	65.2	67.8	14.5	12.9	11.5	9.2
RO	61.0	61.4	61.6	63.9	7.1	7.0	6.1	5.1
SI	63.9	65.2	65.8	69.3	9.9	9.1	8.1	6.7
SK	61.0	62.7	64.9	66.2	13.2	11.5	9.7	8.2
FI	68.7	68.5	69.1	70.0	8.8	9.6	9.0	8.8
SE	74.9	75.5	76.2	76.9	8.1	7.6	7.1	6.9
UK	71.9	72.7	73.5	74.1	6.3	5.4	4.9	4.4
AL	50.5	52.9	55.9	57.4	17.9	17.5	15.6	14.1
ME	50.4	51.4	52.0	53.1	18.2	17.8	18.0	16.4
MK	46.9	47.8	49.1	50.5	28.1	26.3	24.0	22.5
RS	50.8	52.1	55.2	57.3	19.9	18.2	15.9	14.1
TR	49.5	50.2	50.6	51.5	10.1	10.4	11.1	11.1
IS	82.9	84.7	86.6	86.1	5.1	4.2	3.1	2.9
NO	75.2	74.8	74.3	74.0	3.6	4.4	4.8	4.3
CH	78.8	79.2	79.6	79.8	5.0	4.9	5.1	5.0

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

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

1.4

Share of Gross Value Added and Employment – BY SECTOR

	SHARE OF GROSS VALUE ADDED (%)			SHARE OF EMPLOYMENT (%)		
	AGRI-CULTURE	INDUSTRY	SERVICES	AGRI-CULTURE	INDUSTRY	SERVICES
	2017			2017		
EU-28	1.7	25.0	73.3	4.4	21.7	73.9
BE	0.7	22.0	77.3	1.2	17.5	81.3
BG	4.7	28.4	66.9	18.9	25.1	56.1
CZ	2.3	37.0	60.7	3.0	36.6	60.4
DK	1.6	23.1	75.2	2.4	17.1	80.5
DE	0.9	31.0	68.1	1.4	24.1	74.5
EE	2.7	28.2	69.1	3.5	28.8	67.7
IE	1.2	38.6	60.2	5.2	18.1	76.7
EL	4.2	17.2	78.6	11.2	14.2	74.6
ES	3.0	24.1	72.9	4.0	18.0	78.0
FR	1.7	19.5	78.8	2.7	16.5	80.8
HR	3.7	26.2	70.1	6.9	26.3	66.7
IT	2.1	24.0	73.9	3.6	23.0	73.4
CY	2.0	13.1	84.9	3.8	16.7	79.6
LV	3.7	22.6	73.8	7.4	23.1	69.6
LT	3.5	29.0	67.6	7.8	25.1	67.1
LU	0.3	12.1	87.7	0.8	18.7	80.5
HU	4.4	30.3	65.3	5.8	26.5	67.7
MT	0.9	13.5	85.6	1.5	17.5	81.0
NL	2.1	19.4	78.5	2.2	14.2	83.6
AT	1.3	28.3	70.3	3.8	22.4	73.8
PL	3.2	32.9	63.9	10.2	31.3	58.5
PT	2.3	22.4	75.3	8.9	23.0	68.0
RO	4.8	32.4	62.8	23.5	30.0	46.5
SI	2.0	32.8	65.2	7.4	29.2	63.4
SK	3.4	34.9	61.7	3.0	31.4	65.5
FI	2.8	28.2	69.1	4.1	22.7	73.2
SE	1.2	25.1	73.7	2.1	19.8	78.2
UK	0.7	20.1	79.2	1.3	16.3	82.4
AL	21.7	23.9	54.4	38.2	19.4	42.4
ME	8.4	19.4	72.2	7.1	17.5	75.4
MK	9.1	27.9	63.0	16.2	30.5	53.3
RS	7.3	31.4	61.3	17.2	25.3	57.5
TR	6.9	32.9	60.2	17.9	27.1	55.0
IS	4.8	22.0	73.2	3.7	19.5	76.8
NO	2.2	33.0	64.8	2.5	19.8	77.7
CH	0.7	25.5	73.8	3.1	20.9	76.0

Notes: 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. Share of value added: based on NACE 2 classification (ISIC rev. 4). Preliminary or estimated data for EL, ES, FR, CY, NL, PT, RO, MK, AL. Share of employment: based on NACE 2 classification (ISIC rev. 4). Preliminary or estimated data for BG, EL, ES, FR, CY, NL, PL, PT, RO, IS.

Population

1.5

AT 1 JANUARY									
	million								%
	1995	2000	2005	2010	2015	2016	2017	2018	change '17/'18
EU-28	483.163	487.259	494.598	503.171	508.540	510.182	511.373	512.379	0.2
BE	10.131	10.239	10.446	10.840	11.237	11.311	11.352	11.399	0.4
BG	8.427	8.191	7.689	7.422	7.202	7.154	7.102	7.050	-0.7
CZ	10.333	10.278	10.199	10.462	10.538	10.554	10.579	10.610	0.3
DK	5.216	5.330	5.411	5.535	5.660	5.707	5.749	5.781	0.6
DE	81.539	82.163	82.501	81.802	81.198	82.176	82.522	82.792	0.3
EE	1.448	1.401	1.359	1.333	1.315	1.316	1.316	1.319	0.3
IE	3.598	3.778	4.112	4.549	4.678	4.726	4.784	4.830	1.0
EL	10.536	10.776	10.970	11.119	10.858	10.784	10.768	10.741	-0.3
ES	39.343	40.470	43.296	46.487	46.450	46.440	46.528	46.658	0.3
FR	59.315	60.545	62.773	64.659	66.456	66.638	66.804	66.926	0.2
HR	4.659	4.498	4.311	4.303	4.225	4.191	4.154	4.105	-1.2
IT	56.844	56.924	57.875	59.190	60.796	60.666	60.589	60.484	-0.2
CY	0.645	0.690	0.733	0.819	0.847	0.848	0.855	0.864	1.1
LV	2.501	2.382	2.250	2.121	1.986	1.969	1.950	1.934	-0.8
LT	3.643	3.512	3.355	3.142	2.921	2.889	2.848	2.809	-1.4
LU	0.406	0.434	0.461	0.502	0.563	0.576	0.591	0.602	1.9
HU	10.337	10.222	10.098	10.014	9.856	9.830	9.798	9.778	-0.2
MT	0.369	0.389	0.403	0.414	0.440	0.450	0.460	0.476	3.3
NL	15.424	15.864	16.306	16.575	16.901	16.979	17.082	17.181	0.6
AT	7.943	8.002	8.201	8.352	8.585	8.700	8.773	8.822	0.6
PL	38.581	38.263	38.174	38.023	38.006	37.967	37.973	37.977	0.0
PT	10.009	10.249	10.495	10.573	10.375	10.341	10.310	10.291	-0.2
RO	22.712	22.455	21.382	20.295	19.871	19.761	19.644	19.531	-0.6
SI	1.989	1.988	1.998	2.047	2.063	2.064	2.066	2.067	0.0
SK	5.356	5.399	5.373	5.390	5.421	5.426	5.435	5.443	0.1
FI	5.099	5.171	5.237	5.351	5.472	5.487	5.503	5.513	0.2
SE	8.816	8.861	9.011	9.341	9.747	9.851	9.995	10.120	1.3
UK	57.943	58.785	60.182	62.510	64.875	65.379	65.844	66.274	0.7
AL	3.249	3.058	3.135		2.892	2.876	2.877	2.870	-0.2
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	2.071	2.074	2.075	0.1
RS	7.625	7.528	7.456	7.307	7.114	7.076	7.040	7.001	-0.6
TR	61.204	66.889	68.010	72.561	77.696	78.741	79.815	80.811	1.2
IS	0.267	0.279	0.294	0.318	0.329	0.333	0.338	0.348	3.0
LI	0.031	0.032	0.035	0.036	0.037	0.038	0.038	0.038	0.8
NO	4.348	4.478	4.606	4.858	5.166	5.211	5.258	5.296	0.7
CH	7.019	7.164	7.415	7.786	8.238	8.327	8.420	8.484	0.8

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

FR: as from 1991, it includes the 4 French overseas departments and as from 2015 it includes Mayotte as well.

1.6a Member States External Trade of Goods

IMPORTS

YEAR 2017 (VALUE = billion EUR)

	IMPORTS FROM:								
	WORLD	EU-28	EXTRA-EU-28	OF WHICH:					
				CANDIDATE 5	EFTA	USA	JAPAN	RUSSIA	CHINA
EU-28	5 138.080	3 281.121	1 856.960	85.702	188.959	256.590	68.874	144.978	375.372
BE	362.327	233.622	128.705	4.894	9.685	25.621	8.791	9.335	15.162
BG	30.213	19.331	10.882	2.791	0.244	0.232	0.105	3.103	1.110
CZ	144.483	112.760	31.723	1.408	1.118	2.388	1.489	2.686	10.536
DK	82.562	57.656	24.906	0.944	5.976	2.112	0.351	1.603	5.850
DE	1 029.653	682.238	347.415	17.960	52.728	46.098	16.044	28.599	72.430
EE	14.734	11.935	2.799	0.106	0.194	0.135	0.043	0.992	0.688
IE	78.691	51.327	27.364	0.388	1.597	15.431	0.645	0.307	2.973
EL	50.343	26.190	24.152	1.917	0.534	0.753	0.121	3.425	2.719
ES	311.651	186.040	125.611	6.328	5.925	11.499	3.173	3.167	21.455
FR	548.047	381.420	166.627	6.891	19.026	28.915	5.538	7.339	28.045
HR	21.976	17.085	4.892	0.965	0.194	0.144	0.027	0.302	0.707
IT	401.487	241.565	159.923	11.304	12.111	15.007	4.182	12.349	28.460
CY	8.149	4.949	3.200	0.109	0.138	0.079	0.066	0.142	0.587
LV	14.904	11.708	3.196	0.100	0.160	0.173	0.023	1.077	0.440
LT	28.516	20.144	8.372	0.192	0.526	0.369	0.039	3.590	0.823
LU	20.250	16.824	3.426	0.025	0.128	1.150	0.519	0.014	0.319
HU	95.157	72.397	22.761	2.206	0.617	1.665	1.297	3.462	5.611
MT	5.148	3.202	1.946	0.104	0.038	0.220	0.060	0.010	0.170
NL	508.373	233.818	274.555	4.032	18.686	35.170	9.890	22.028	83.363
AT	155.576	120.254	35.322	2.110	8.647	3.880	1.033	2.268	5.140
PL	206.821	148.326	58.494	2.437	2.530	4.060	1.293	12.897	16.316
PT	69.491	53.110	16.380	0.690	0.367	0.998	0.333	1.577	2.049
RO	75.568	57.273	18.294	3.778	0.517	1.092	0.346	2.486	3.789
SI	31.917	22.143	9.774	2.794	0.492	0.408	0.089	0.320	1.436
SK	73.684	58.833	14.852	0.746	0.376	0.442	0.212	3.295	3.077
FI	62.460	44.787	17.673	0.376	1.732	1.213	0.303	8.208	2.046
SE	136.301	96.771	39.531	1.373	11.446	3.385	1.501	3.972	7.453
UK	569.599	295.415	274.184	8.733	33.228	53.951	11.360	6.426	52.618

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

Member States External Trade of Goods 1.6b

EXPORTS

YEAR 2017 (VALUE = billion EUR)

	EXPORTS TO:								
	WORLD	EU-28	EXTRA-EU-28	OF WHICH:					
				CANDIDATE 5	EFTA	USA	JAPAN	RUSSIA	CHINA
EU-28	5 231.698	3 352.667	1 879.030	107.243	206.121	376.199	60.760	86.034	197.649
BE	381.389	275.102	106.288	5.827	8.103	18.591	3.240	4.060	8.072
BG	27.780	17.664	10.116	3.321	0.207	0.408	0.042	0.741	0.680
CZ	161.214	135.237	25.977	2.761	3.020	3.318	0.682	3.126	2.137
DK	90.802	56.114	34.688	0.918	6.676	6.866	1.895	0.821	3.999
DE	1281.946	749.974	531.973	25.582	63.597	112.596	19.961	25.809	87.203
EE	12.861	9.219	3.642	0.183	0.637	0.374	0.070	0.932	0.219
IE	121.857	62.369	59.488	0.619	6.640	33.117	2.536	0.496	4.366
EL	28.877	15.502	13.375	3.431	0.218	1.123	0.094	0.234	0.474
ES	283.095	187.582	95.513	6.139	5.421	12.462	2.444	1.915	5.949
FR	473.721	278.535	195.186	7.332	17.828	34.284	6.390	5.592	18.859
HR	14.201	9.091	5.110	1.237	0.228	0.548	0.051	0.180	0.125
IT	449.129	250.287	198.842	13.506	22.418	40.433	6.554	7.955	13.489
CY	2.904	1.112	1.793	0.017	0.230	0.044	0.001	0.054	0.062
LV	12.371	8.185	4.186	0.197	0.334	0.317	0.051	1.715	0.147
LT	26.411	15.409	11.001	0.415	0.927	1.375	0.118	3.920	0.179
LU	13.960	11.750	2.210	0.122	0.387	0.371	0.076	0.153	0.215
HU	100.752	81.842	18.910	3.833	0.964	2.347	0.489	1.693	1.578
MT	2.219	1.193	1.026	0.017	0.031	0.127	0.106	0.001	0.038
NL	577.087	434.339	142.748	7.225	12.648	20.599	3.650	5.948	12.146
AT	148.756	105.904	42.853	2.278	8.160	9.353	1.312	2.195	3.934
PL	207.385	165.861	41.524	3.956	4.475	5.492	0.501	6.195	2.061
PT	55.043	40.757	14.286	0.441	0.777	2.846	0.146	0.180	0.843
RO	62.616	47.476	15.140	3.153	0.643	1.107	0.233	1.104	0.737
SI	34.007	25.751	8.256	1.919	0.636	0.565	0.139	0.865	0.562
SK	74.726	64.044	10.683	1.170	1.387	2.059	0.108	1.561	1.211
FI	60.239	35.854	24.385	0.802	2.471	4.195	1.362	3.427	3.451
SE	135.523	80.162	55.361	1.595	15.646	9.336	2.028	1.943	6.071
UK	390.824	186.352	204.472	9.247	21.414	51.946	6.482	3.220	18.845

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

1.7 Comparison EU-28 – World

DATA FOR 2017

	EU-28	USA	JAPAN	CHINA	RUSSIA
Population million	511.9	325.7	126.8	1386.4	144.5
Population growth % change since previous year	0.3	0.6	-0.2	0.6	0.1
Urban population % of total	75	82	92	58	74
Area 1 000 km ²	4 471	9 629	378	9 597	17 075
Population density Persons/km ²	114	34	335	144	8
GDP (nominal) billion EUR	15 382	17 207	4 324	10 860	1 400
Real GDP growth %	2.5	2.2	1.9	6.8	1.6
Relative GDP per capita in PPS (EU-28 = 100)	100	145	105	41	62
Exports of goods billion EUR	1 879	1 378	611	1 967	314
Imports of goods billion EUR	1 857	2 095	572	1 544	211

Notes: EU-28: area, population: including French overseas departments.
EU-28: 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 675 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-28 in 2017⁽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 2017, the transport and storage services sector (including postal and courier activities) in the EU-28 employed around 11.7 million persons⁽²⁾, some 5.3 % 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 % in warehousing and supporting and transport activities (such as cargo handling, storage and warehousing) and the remaining 15 % in postal and courier activities.

Household expenditure:

In 2017, private households in the EU-28 spent EUR 1 089 billion or roughly 13 % of their total consumption on transport-related items.

Around 30 % of this sum (around EUR 313 billion) was used to purchase vehicles, around half (EUR 542 billion) was spent on the operation of personal transport equipment (e.g. to buy fuel for the car) and the rest (EUR 234 billion) was spent for transport services (e.g. bus, train, plane tickets).

Goods transport:

In 2017 total goods transport activities in the EU-28 are estimated to amount to 3 731 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 50.1 % of this total, rail for 11.3 %, inland waterways for 3.9 % and oil pipelines for 3.1 %. Intra-EU maritime transport was the second most important mode with a share of 31.5 % while intra-EU air transport only accounted for 0.1 % of the total.

Passenger transport:

In 2017, total passenger transport activities in the EU-28 by any motorized means of transport are estimated to amount to 6 913.3 billion pkm or on average around 13 505 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 70.9 % of this total, powered two-wheelers for 1.8 %, buses & coaches for 7.4 %, railways for 6.8 % and tram and metro for 1.6 %. Intra-EU air and intra-EU maritime transport contributed for 11.2 % and 0.4 % respectively.

- Notes:** ⁽¹⁾ The transport share amounts of 4.5 % of total GVA if postal and courier activities are not included. Calculations based on Eurostat National Accounts.
⁽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⁾ 4.5 % of total employment if postal and courier activities are not included.

2.1.1 Statistical Overview EU Transport

Safety:

Road: 25 256 persons were killed in road accidents (fatalities within 30 days) in 2017, 1.5 % less than in 2016 (when 25 644 people lost their lives). In comparison with 2001, the number of road fatalities was lower by more than half (-54 %).

Rail: 15 passengers lost their lives in 2017; this figure does not include casualties among railway employees or other people run over by trains.

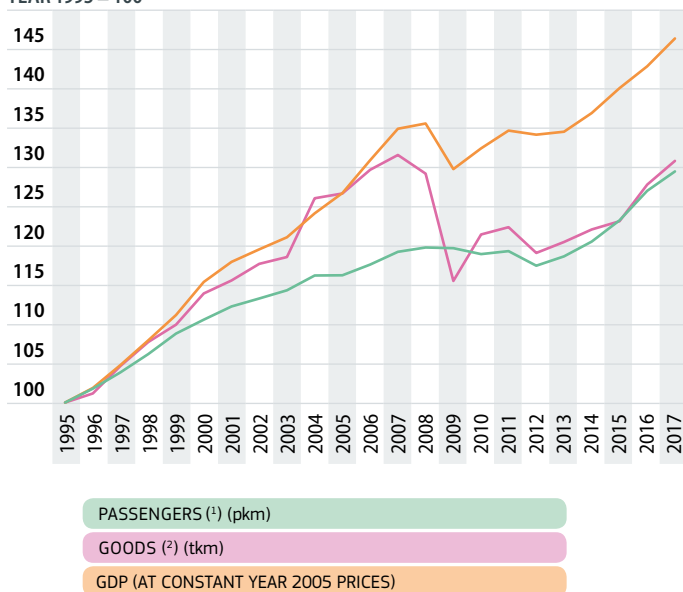
Air: one life was lost in 2018.

Transport Growth EU-28

2.1.2

PASSENGERS, GOODS, GDP 1995–2017

YEAR 1995 = 100



Notes: ⁽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-28

	1995–2017 p.a.	2000–2017 p.a.	2016–2017
GDP at year 2005 prices and exchange rates	1.8%	1.4%	2.5%
Passenger transport (pkm)	1.2%	0.8%	2.4%
Freight transport (tkm)	1.2%	0.9%	2.0%

2.1.3

Road Transport

SPEED LIMITS, BLOOD ALCOHOL LIMITS

	SPEED LIMIT, CARS (IN GENERAL), km/h:			Blood alcohol limit (grams of alcohol)
	Built-up areas	Outside built-up areas	Motorways	
BE	50	70-90-120	120	0.5
BG	50	90-120	140	0.0
CZ	50	90-110	130	0.0
DK	50	80	130	0.5
DE	50	100	(130)	0.5
EE	50	90	-	0.2
IE	50	80-100	120	0.5
EL	50	90-110	130	0.5
ES	50	90-100	120	0.5
FR	50	90-110	130	0.5
HR	50	90	130	0.5
IT	50	90	130	0.5
CY	50	80	100	0.5
LV	50	90	-	0.5
LT	50	70-90	100-130	0.4
LU	50	90	130	0.5
HU	50	90-110	130	0.0
MT	50	80	-	0.8
NL	50	80-100	120-130	0.5
AT	50	100	130	0.5
PL	50-60	90-100	120-140	0.2
PT	50	90-100	120	0.5
RO	50	90-100	130	0.0
SI	50	90-110	130	0.5
SK	50	90	130	0.0
FI	50	80	80-120	0.22
SE	50	70	110	0.2
UK	48	96-112	112	0.8
AL	40	80-90	110	0.1
ME	50	80-100	130	0.5
MK	60	80-100	120	0.5
RS	50	80-100	120	0.3
TR	50	90-110	120	0.5
IS	50	80-90	-	0.5
NO	50	80	100	0.2
CH	50	80-100	120	0.5

Notes: 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.

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

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

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

Road Transport

MAXIMUM GROSS VEHICLE WEIGHT

2.1.4

tonnes	WEIGHT PER BEARING AXLE	WEIGHT PER DRIVE AXLE	LORRIES		ROAD TRAIN		ARTICU- LATED VEHI- CLES
			2 axles	3 axles	4 axles	5 axles and more	5 axles and more
BE	10	12	19	26	39	44	44
BG	10	11.5	18	26 ⁽¹⁾	36	40	40
CZ	10	11.5	18	26 ⁽¹⁾	36	42-48 ⁽¹⁾	42-48
DK	10	11.5	18	24-26	38	42-56	42-56 ⁽²⁾
DE	10	11.5	18	26 ⁽¹⁾	36	40	40
EE	10	11.5	18	26 ⁽¹⁾	36	40	40-44
IE	10	11.5	18	26	36	44-46	44-46
EL	7-10	13	19	26	33-38	42	42-44
ES	10	11.5	18	25-26	32-36-38	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	26 ⁽¹⁾	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	10-12	12	19	26	37	40-44-60	40-44
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	26 ⁽¹⁾	36	44-76 ⁽⁴⁾	42-48
SE	10	11.5	18	26	38	46-64 ⁽⁵⁾	48-64 ⁽⁵⁾
UK	10	11.5	18	26	36	40-44	40-44
AL	10	11.5	18	26 ⁽¹⁾	36	40	44
ME	10	11.5	18	26 ⁽¹⁾	36	40	40-44
MK	10	11.5	18	24	31	40	40
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
NO ⁽²⁾	10	11.5	19	26	39	46-50	46-50
CH	10	11.5	18	26 ⁽¹⁾	36	40	40
LI	10	11.5	18	26 ⁽¹⁾	36	40	40

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

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

2.1.5

Employment by Mode of Transport (*) 2016 – 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-28	11328.3	3235.1	2075.2	660.7	29.1	43.2	176.2	366.7	2909.1	1833.0
BE	211.4	59.8	18.8	34.1	1.0	0.9	1.0	5.9	56.1	33.9
BG	169.3	69.1	32.0	11.0	0.3	0.9	0.7	2.1	33.1	20.1
CZ	279.8	125.4	38.3	27.0	0.3	0.4	0.2	2.3	45.9	40.0
DK	146.8	30.0	25.9	6.2	0.3	0.2	19.2	5.5	30.1	29.5
DE	2341.9	433.5	448.8	47.5	3.4	10.5	21.3	66.0	753.4	557.5
EE	38.2	16.1	3.3	1.4	0.0	0.0	0.9	0.2	13.0	3.4
IE	97.7	21.0	28.4	4.6	0.1	0.0	0.9	8.0	17.3	17.5
EL	184.2	35.7	61.0	9.5	0.2	0.0	15.9	3.7	43.5	14.6
ES	854.4	320.6	176.8	14.8	2.5	0.5	6.8	29.3	219.7	83.3
FR	1382.2	357.9	264.9	198.3	3.1	4.0	11.0	64.8	241.8	236.6
HR	83.2	22.0	19.4	3.9	0.7	0.1	4.1	1.2	21.5	10.3
IT	1117.0	325.0	168.0	38.3	2.2	2.9	46.4	20.4	356.2	157.6
CY	17.4	1.9	3.3	0.0	0.0	0.0	0.4	0.1	10.2	1.6
LV	78.6	25.7	14.1	3.5	0.2	0.2	0.6	1.5	27.1	5.6
LT	120.3	63.5	15.7	10.0	0.2	0.1	1.1	0.7	21.3	7.6
LU	20.7	7.5	3.5	1.2	0.0	0.3	0.0	2.3	4.3	1.5
HU	247.1	76.4	49.7	19.2	0.4	0.8	0.0	1.1	65.0	34.5
MT	11.8	1.6	1.7	0.0	0.0	0.0	0.3	1.7	4.1	2.5
NL	401.1	120.4	51.8	21.0	0.1	13.4	8.7	25.5	92.9	67.3
AT	199.1	61.9	57.4	9.8	1.4	0.6	0.0	7.3	36.8	23.9
PL	789.2	356.8	136.3	49.0	4.0	1.4	2.1	4.4	143.5	91.9
PT	159.9	67.0	33.4	0.7	0.0	0.7	1.0	11.4	31.0	14.7
RO	365.8	146.0	78.3	27.3	6.2	2.0	0.3	3.8	62.8	39.1
SI	46.9	23.8	5.4	1.4	0.0	0.1	0.2	0.6	8.5	6.8
SK	105.2	45.7	14.4	7.5	0.2	0.4	0.0	0.4	20.0	16.6
FI	143.0	45.2	25.2	9.0	0.0	0.3	8.7	4.5	27.7	22.5
SE	273.9	81.0	71.0	10.2	0.0	1.5	12.0	5.8	52.8	39.4
UK	1442.4	294.6	228.4	94.4	2.4	1.1	12.5	86.5	469.4	253.1

Notes: (*) 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 (*) 2016

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-28	1246259	589095	390205	979	197	9827	11460	5000	158529	80967
BE	18095	7992	3401	30	20	303	147	245	3479	2478
BG	22711	12992	6101	13	2	36	50	48	2323	1146
CZ	38439	30505	3226	31	2	92	1	56	4218	308
DK	10945	4888	2832	16	8	24	279	68	1450	1380
DE	106559	37529	30247	191	45	1095	1569	638	21365	13880
EE	5244	3027	580	6	0	3	39	14	1449	126
IE	24614	4509	15286	7	4	0	92	161	1791	2764
EL	62878	18147	35295	7	7	0	2694	96	5467	1165
ES	196166	106405	63065	17	9	70	425	160	17447	8568
FR	115627	34556	60105	46	38	1020	942	674	10405	7841
HR	8372	5305	1301	7	2	19	683	19	975	61
IT	123442	66029	30056	25	13	1083	702	220	22789	2525
CY	2988	798	1179	0	0	0	47	9	756	199
LV	7654	3474	1201	36	1	19	54	24	2343	502
LT	13603	5705	4752	3	1	15	12	16	2306	793
LU	972	434	220	1	0	25	2	17	207	66
HU	27668	14081	8317	33	3	96	7	78	3853	1200
MT	1430	365	659	0	0	0	97	18	260	31
NL	42081	11343	9236	37	10	4263	869	362	7877	8084
AT	14141	6507	5462	32	4	100	0	161	1434	441
PL	153586	86565	47979	182	6	488	278	516	13515	4057
PT	21799	7789	10918	5	1	41	221	78	2307	439
RO	44504	27480	12334	86	3	135	52	79	2875	1460
SI	8574	5568	1029	8	2	48	46	96	1317	460
SK	19020	9397	5062	10	3	38	4	52	3436	1018
FI	20538	9361	8516	4	1	74	245	84	1920	333
SE	29652	14769	9061	54	0	472	777	310	3738	471
UK	104957	53575	12785	92	12	268	1126	701	17227	19171

Notes: (*) 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.

2.1.7 Turnover by Mode of Transport (*)

2016 – 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-28	1501141	336934	141594	80959	17773	7228	104217	145976	539684	126778
BE	50515	11911	1490	5812	658	213	2500	2937	20995	3999
BG	6923	3583	452	120	176	48	39	371	1771	363
CZ	21486	8190	1392	1510	154	40	0	1004	7926	1270
DK	50042	5885	2792	1020	560	61	24151	2824	10747	2002
DE	315076	41610	33605	11941	3986	2164	27553	25355	128435	40426
EE	4586	1176	146	78	0	5	553	113	2372	143
IE	25076	3501	2322	224	12	0	615	9330	7427	1646
EL	13242	2236	1033	431	202	0	1915	1994	4611	821
ES	106712	31141	10210	2589	801	25	1920	10118	45286	4622
FR	206789	44827	17820	22671	4007	632	13281	20918	67738	14896
HR	4547	1502	669	200	75	2	321	228	1291	259
IT	152996	45899	12268	6941	3595	441	10675	9451	54070	9655
CY	2648	143	144	0	0	0	40	9	2246	67
LV	5187	1329	174	422	20	14	43	456	2614	114
LT	8448	3866	280	475	0	5	132	220	3331	140
LU	5470	1261	220	216	0	41	0	2200	1429	104
HU	16957	5286	1673	992	90	73	1	1780	6162	901
MT	1697	60	40	0	0	0	296	670	581	50
NL	80928	20815	3945	2805	252	2561	5804	10384	28714	5648
AT	41556	9907	4672	3000	447	115	0	3032	17444	2939
PL	48610	25352	3776	2399	864	97	368	1810	11738	2207
PT	18425	5311	1207	95	90	50	358	3735	6647	933
RO	16182	8346	1246	923	475	100	59	622	3579	832
SI	5282	2486	249	246	49	4	42	203	1684	321
SK	8722	3617	338	1142	50	80	0	123	2751	621
FI	22550	6158	1998	728	260	16	2405	3213	6111	1661
SE	47507	10705	8301	1824	0	212	3406	3006	16616	3438
UK	212981	30833	29133	12156	949	228	7742	29871	75368	26701

Notes: (*) 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 – 2017

	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-28	1 089 275	313 393	541 746	234 135	13.0	2 100
BE	23 602	6 915	14 284	2 404	11.1	2 100
BG	4 614	635	2 544	1 435	13.9	700
CZ	9 360	3 766	4 185	1 409	10.1	900
DK	16 153	5 147	9 238	1 768	12.1	2 800
DE	241 094	81 154	100 384	59 556	14.7	2 900
EE	1 375	267	809	299	11.6	1 000
IE	12 110	4 197	4 449	3 464	13.1	2 500
EL	17 879	3 971	6 296	7 612	13.6	1 700
ES	80 225	23 094	43 715	13 416	11.6	1 700
FR	164 575	42 929	92 408	29 238	13.6	2 500
HR	3 803	1 082	1 346	1 374	12.1	926
IT	129 956	31 848	76 880	21 228	12.3	2 100
CY	1 943	578	853	512	13.0	2 300
LV	1 938	342	1 192	404	12.1	1 000
LT	4 245	828	3 004	413	16.0	1 500
LU	2 740	765	1 836	140	14.4	4 600
HU	8 236	1 808	5 300	1 127	13.2	800
MT	710	183	365	162	11.8	1 500
NL	38 054	9 273	21 510	7 271	11.8	2 200
AT	23 168	6 378	12 349	4 441	12.0	2 600
PL	33 602	9 471	20 711	3 421	12.3	900
PT	17 063	6 465	8 462	2 136	12.8	1 700
RO	12 869	2 248	6 773	3 849	11.2	700
SI	3 865	1 082	2 529	255	16.3	1 900
SK	3 644	855	1 564	1 225	7.9	700
FI	13 766	3 724	7 554	2 488	11.9	2 500
SE	26 378	8 002	12 264	6 112	12.8	2 600
UK	192 310	56 390	78 943	56 977	13.2	2 900

Note: FR, CY, EL, ES, NL, PT, RO: provisional data.

2.1.9 EU-28 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
2018	103.9	105.6	102.4	102.3	103.5
2017	102.0	102.0	101.1	101.0	102.7
2016	100.3	98.8	100.4	100.3	101.2
2015	100.0	100.0	100.0	100.0	100.0
2010	92.6	93.3	97.8	98.1	95.5
2005	82.7	81.7	96.2	96.7	90.9

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
2018	107.2	101.2	109.1	105.9	106.1
2017	101.9	100.6	100.7	103.4	103.5
2016	97.6	100.0	94.2	101.4	101.5
2015	100.0	100.0	100.0	100.0	100.0
2010	94.1	94.9	97.7	89.1	92.6
2005	79.0	87.0	81.2	74.0	82.0

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
2018	105.7	104.1	106.5	104.5	106.0	104.4	104.1
2017	103.8	102.7	104.5	102.1	105.8	102.8	100.5
2016	100.6	100.4	101.5	97.4	103.1	101.2	100.1
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	84.2	86.9	87.2	83.5	83.8	84.3	96.1
2005	69.5	70.1	72.1	74.4	65.1	70.5	88.3

EU-28 External Trade by Mode of Transport – 2017

PARTNER: EXTRA-EU-28

VALUE (BILLION EUR)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	892.1	47.5 %	986.2	53.1 %	1 878.2	50.3 %
Road	343.9	18.3 %	262.5	14.1 %	606.3	16.2 %
Rail	24.2	1.3 %	27.0	1.5 %	51.1	1.4 %
Inland waterway	2.5	0.1 %	4.8	0.3 %	7.3	0.2 %
Pipeline	4.5	0.2 %	81.6	4.4 %	86.1	2.3 %
Air	538.0	28.6 %	416.9	22.4 %	954.8	25.5 %
Self propulsion	62.4	3.3 %	28.3	1.5 %	90.7	2.4 %
Post	1.2	0.1 %	1.6	0.1 %	2.8	0.1 %
Unknown	10.3	0.5 %	49.4	2.7 %	59.7	1.6 %
TOTAL	1 879.0	100.0 %	1 858.1	100.0 %	3 737.1	100.0 %

WEIGHT (MILLION TONNES)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	561.3	80.4 %	1 286.7	73.8 %	1 848.0	75.7 %
Road	89.5	12.8 %	72.6	4.2 %	72.6	3.0 %
Rail	19.2	2.8 %	73.2	4.2 %	92.4	3.8 %
Inland waterway	7.0	1.0 %	13.2	0.8 %	20.1	0.8 %
Pipeline	4.6	0.7 %	277.9	15.9 %	282.5	11.6 %
Air	15.6	2.2 %	4.8	0.3 %	20.4	0.8 %
Self propulsion	0.5	0.1 %	2.0	0.1 %	2.5	0.1 %
Post	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Unknown	0.6	0.1 %	12.7	0.7 %	13.4	0.5 %
TOTAL	698.4	100.0 %	1 743.1	100.0 %	2 441.5	100.0 %

2.1.11 Environmental Taxes and Transport

AS % OF GDP – TRANSPORT FUEL TAXES (*)

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

Notes: (*) Transport fuel taxes include those taxes which are levied on the transport use of fuels/energy products.

EU totals are weighted averages.

Sources: DG Taxation and Customs Union,
based on Eurostat

Environmental Taxes and Transport 2.1.12

AS % OF GDP – TRANSPORT (EXCL. FUEL) (*)

	%							RANKING IN 2017
	1995	2000	2005	2010	2015	2016	2017	
EU-28			0.5	0.5	0.5	0.5	0.5	
BE	0.8	0.8	0.8	0.7	0.7	0.7	0.7	10
BG	0.2	0.2	0.2	0.3	0.3	0.3	0.3	19
CZ	0.3	0.2	0.2	0.1	0.1	0.1	0.1	25
DK	2.1	1.8	2.1	1.4	1.5	1.6	1.5	1
DE	0.4	0.3	0.4	0.3	0.3	0.3	0.3	18
EE	0.3	0.2	0.1	0.1	0.1	0.1	0.1	28
IE	1.3	1.4	1.2	0.9	0.7	0.7	0.7	11
EL	0.7	0.8	0.9	0.7	0.8	0.8	0.8	7
ES	0.4	0.4	0.4	0.3	0.2	0.2	0.2	21
FR	0.4	0.3	0.3	0.3	0.3	0.3	0.3	20
HR			1.1	0.8	0.8	0.8	0.8	6
IT	0.5	0.6	0.6	0.6	0.6	0.6	0.6	12
CY	2.3	2.0	1.4	0.9	0.7	0.7	0.7	9
LV	0.0	0.3	0.3	0.3	0.5	0.5	0.4	16
LT	0.7	0.7	0.5	0.0	0.1	0.1	0.1	27
LU	0.1	0.1	0.1	0.2	0.1	0.1	0.1	26
HU	0.2	0.4	0.5	0.5	0.4	0.4	0.4	17
MT	2.3	2.2	1.7	1.3	1.2	1.1	1.1	2
NL	1.3	1.4	1.2	1.1	1.0	1.0	1.0	3
AT	0.7	0.8	0.8	0.8	0.8	0.9	0.9	5
PL	0.2	0.2	0.3	0.2	0.2	0.2	0.2	22
PT	0.9	1.1	0.9	0.6	0.6	0.7	0.7	8
RO	0.0	0.1	0.1	0.3	0.3	0.2	0.1	24
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	0.2	0.2	0.2	23
FI	0.8	1.1	1.1	0.9	0.9	1.0	1.0	4
SE	0.3	0.3	0.4	0.5	0.4	0.4	0.4	15
UK	0.6	0.6	0.4	0.6	0.6	0.6	0.5	13
AL								
ME								
MK								
RS								
TR								
IS	1.1	1.7	1.6	0.2	0.4	0.4		
NO	1.4	1.2	1.4	1.2	1.0	1.0	0.9	
CH								

Notes: (*) Transport taxes (excl. Fuel) mainly include taxes related to the ownership and use of motor vehicles.

EU totals are weighted averages.

Sources: DG Taxation and Customs Union,
based on Eurostat

2.1.13 Environmental Taxes & Transport

(FUEL & OTHER TAXES)

AS % OF TOTAL TAXATION (*)

%						RANKING IN 2017
	2005	2010	2015	2016	2017	
EU-28		5.0	4.6	4.6	4.4	
BE	4.8	4.4	4.1	4.2	4.2	24
BG		10.1	9.4	9.0	8.2	1
CZ	6.8	6.3	5.4	5.4	5.0	20
DK	6.9	5.5	5.2	5.3	5.0	19
DE	5.2	4.6	3.9	3.8	3.7	26
EE	6.3	6.4	6.3	6.7	6.9	7
IE	7.8	7.6	6.4	6.3	6.1	13
EL	6.1	7.3	7.1	6.8	6.7	9
ES	4.8	4.3	4.1	4.1	4.1	25
FR	3.8	3.4	3.1	3.2	2.9	28
HR	8.9	8.2	8.3	8.3	8.0	2
IT	5.4	4.7	5.0	5.0	5.0	18
CY	9.2	7.7	8.2	8.2	7.9	3
LV	8.6	8.2	7.3	7.5	7.1	6
LT	7.4	6.3	6.0	6.1	6.1	12
LU	7.7	6.2	4.8	4.4	5.1	17
HU	6.3	6.2	5.3	5.4	5.2	16
MT	9.0	8.2	7.4	7.0	7.2	5
NL	6.8	6.3	5.6	5.3	5.5	14
AT	5.2	4.9	4.7	4.8	4.9	21
PL	6.7	6.7	6.8	6.9	6.6	11
PT	9.0	7.6	6.5	7.0	6.9	8
RO		6.8	7.0	7.5	6.6	10
SI	6.8	7.8	8.2	8.2	7.9	4
SK	7.2	6.1	5.1	5.1	4.8	22
FI	5.9	5.4	4.8	5.0	4.7	23
SE	3.6	3.8	3.3	3.3	3.1	27
UK	6.0	6.4	5.8	5.6	5.3	15
AL						
ME						
MK						
RS						
TR						
IS						
NO	5.2	4.6	4.2	4.2	3.9	
CH						

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

Comparison EU-28 – World

INFRASTRUCTURE AND VEHICLES

2.1.14

TRANSPORT INFRASTRUCTURE					
	EU-28	USA	JAPAN	CHINA	RUSSIA
1 000 km	2017	2017	2016	2017	2017
Road network (paved)	4 817	4 474	1 003	4 339	1 171
Motorway network	77.4	95.3 ⁽¹⁾	9.0 ⁽²⁾	136.4	52.0 ⁽³⁾
Railway network	217.2	202.7 ⁽⁴⁾	19.3	127.0	87.0
Electrified rail lines	117.3		11.7	43.7	44.0
Navigable inland waterways	42.2	40.2		127.0	101.0
Oil pipelines	36.1	347.2		119.3 ⁽⁵⁾	53.0 ⁽⁶⁾

VEHICLE STOCK						
		EU-28	USA	JAPAN	CHINA	RUSSIA
		2017	2017	2017	2017	2017
Passenger cars stock	million	264.2	251 ⁽⁷⁾	61.6 ⁽⁸⁾	114.2	46.9
Motorisation	cars / 1 000 persons	516	771	486	82	324
Commercial freight vehicles	million	38.39	14.98	14.28 ⁽⁹⁾	23.39	6.43

TRANSPORT SAFETY						
		EU-28	USA	JAPAN	CHINA	RUSSIA
		2017	2017	2017	2016	2017
Road fatalities	number	25 256	37 133	4 431	63 093	19 088
per million inhabitants		49	115	35	46	132

- Notes:** ⁽¹⁾ Divided highways with 4 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: federal roads, 2016 figures.
⁽⁴⁾ USA: a sum of partly overlapping networks.
⁽⁵⁾ China: both oil and gas pipelines.
⁽⁶⁾ Russia: only crude oil pipelines.
17 thousand km of oil products pipelines are not included.
⁽⁷⁾ USA: light duty vehicles, short wheel and long wheel base.
⁽⁸⁾ Japan: ordinary, small and light four-wheeled vehicles.
⁽⁹⁾ Japan: including 8.7 million light motor vehicles.

2.1.15 Comparison EU-28 – World

PASSENGER AND FREIGHT TRANSPORT

PASSENGER TRANSPORT					
	EU-28	USA	JAPAN	CHINA	RUSSIA
billion pkm	2017	2017	2016	2017	2017
Passenger car	4 901.4	7 751.0 ⁽¹⁾		9 765.2 ⁽²⁾	
Bus + trolley bus + coach	510.4	588.0	70.1		128.6
Railway	469.7	39.0	431.8	1 345.7	123.1
Tram + metro	107.2	24.3	⁽³⁾		48.4
Waterborne	24.3	0.8	3.1 ⁽⁴⁾	7.8	0.7
Air (domestic/intra-EU-28)	776.9	1 116.6	90.6	951.3	259.4

FREIGHT TRANSPORT					
	EU-28	USA	JAPAN	CHINA	RUSSIA
billion tkm	2017	2016	2016	2017	2017
Road	1 870.1	2 953.2	210.3	6 677.2	255.0
Rail	421.0	2 314.7 ⁽⁵⁾	21.3	2 696.2	2 493.0
Inland waterways	147.0	445.3			67.0
Oil pipeline	114.0	1 308.6		478.4 ⁽⁶⁾	1 315.0
Sea (domestic/intra-EU-28)	1 175.9	257.0 ⁽⁷⁾	180.4	9 861.1 ⁽⁸⁾	46.0

Notes: ⁽¹⁾ USA: including light trucks/vans.

⁽²⁾ China: including buses and coaches.

⁽³⁾ Japan: included in railway pkm.

⁽⁴⁾ Japan: 2015 value.

⁽⁵⁾ USA: Class I rail.

⁽⁶⁾ China: oil and gas pipelines.

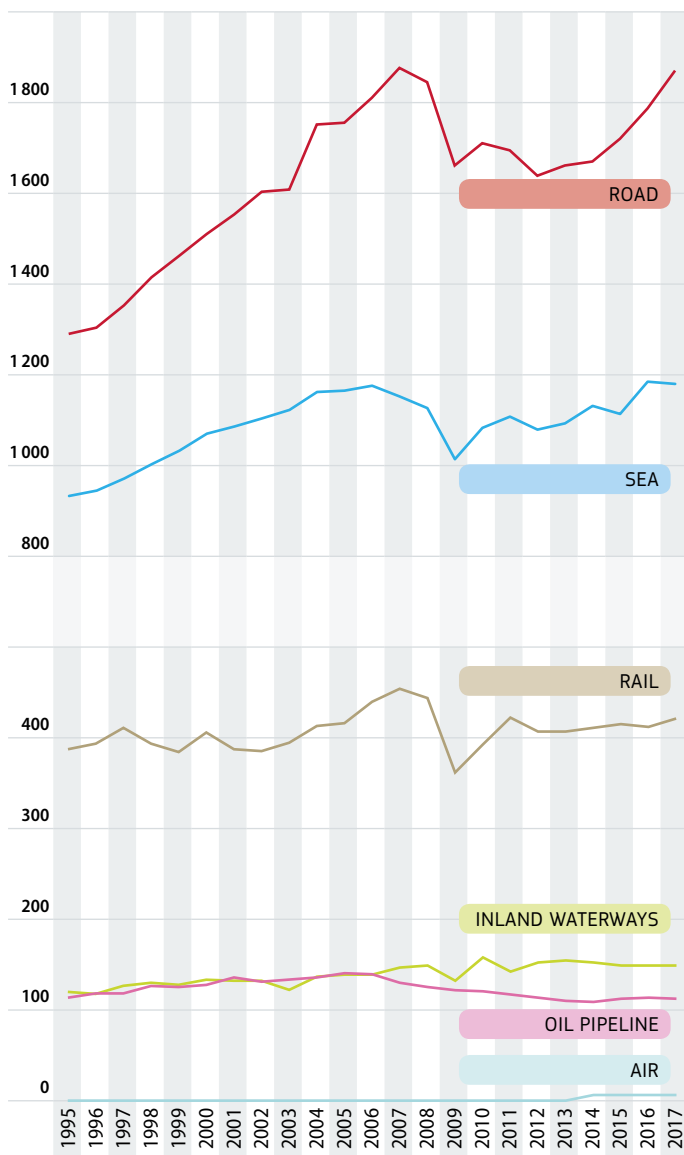
⁽⁷⁾ USA: refers to coastal shipping, 2015 data.

⁽⁸⁾ China: both coastwise and inland waterway transport.

EU-28 Performance for Freight Transport 1995–2017 – BY MODE

2.2.1

billion tonne-kilometres (tkm)



2.2.2

EU-28 Performance BY MODE

FREIGHT TRANSPORT

	billion tkm						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA(*)	AIR	TOTAL
1995	1 289	388	122	115	930	2	2 846
2000	1 509	406	134	127	1 067	2	3 245
2005	1 755	416	139	138	1 161	2	3 611
2010	1 710	394	156	121	1 079	2	3 462
2011	1 699	422	142	118	1 104	2	3 488
2012	1 645	407	150	115	1 075	2	3 394
2013	1 671	407	153	112	1 089	2	3 434
2014	1 677	411	151	111	1 128	3	3 480
2015	1 720	415	147	114	1 110	3	3 510
2016	1 786	412	147	115	1 181	3	3 644
2017	1 870	421	147	114	1 176	3	3 731
1995–2017 per year	45.1 %	8.5 %	20.4 %	-0.8 %	26.4 %	49.0 %	31.1 %
	1.7 %	0.4 %	0.8 %	-0.0 %	1.1 %	1.8 %	1.2 %
2000–2017 per year	23.9 %	3.7 %	9.8 %	-10.3 %	10.2 %	21.7 %	15.0 %
	1.3 %	0.2 %	0.5 %	-0.6 %	0.6 %	1.2 %	0.8 %
2016–2017	4.7 %	2.2 %	-0.2 %	-1.0 %	-0.4 %	1.3 %	2.4 %

MODAL SPLIT

	(%)						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA(*)	AIR	
1995	45.3	13.6	4.3	4.0	32.7	0.1	
2000	46.5	12.5	4.1	3.9	32.9	0.1	
2005	48.6	11.5	3.8	3.8	32.2	0.1	
2010	49.4	11.4	4.5	3.5	31.2	0.1	
2011	48.7	12.1	4.1	3.4	31.7	0.1	
2012	48.5	12.0	4.4	3.4	31.7	0.1	
2013	48.7	11.8	4.4	3.3	31.7	0.1	
2014	48.2	11.8	4.3	3.2	32.4	0.1	
2015	49.0	11.8	4.2	3.3	31.6	0.1	
2016	49.0	11.3	4.0	3.2	32.4	0.1	
2017	50.1	11.3	3.9	3.1	31.5	0.1	

Notes: (*) The time series for maritime transport performance has been revised, for the period from 2005 onwards, by replacing previous estimates on port-to port distances with more accurate measurements by Eurostat. The time series from 1995 to 2004 has been recalibrated by DG MOVE in line with the new Eurostat figures to avoid break in series. The revision of tkm figures mainly concerns the calculation of distance travelled and not the tonnages transported by sea. Air and Sea: estimates; only domestic and intra-EU-28 transport. Road: national and international haulage by vehicles registered in the EU-28 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 2017 – BY COUNTRY

tkm in %				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
EU-28	73.3	16.5	5.8	4.5
BE	72.4	10.1	15.3	2.2
BG	54.8	17.9	24.0	3.2
CZ	70.5	25.9	0.0	3.5
DK	80.6	10.5	-	8.9
DE	71.4	17.3	8.6	2.8
EE	55.6	44.4	-	-
IE	99.1	0.9	-	-
EL	98.1	1.8	-	0.1
ES	90.7	4.9	-	4.4
FR	84.2	10.1	2.3	3.4
HR	64.7	17.7	5.6	12.1
IT	81.3	12.8	0.0	5.9
CY	100.0	-	-	-
LV	24.3	69.2	-	6.5
LT	32.8	65.6	0.0	1.7
LU	88.3	5.9	5.8	-
HU	59.3	30.7	4.6	5.5
MT	100.0	-	-	-
NL	46.8	5.6	42.3	5.3
AT	58.4	28.4	2.6	10.7
PL	69.6	21.9	0.0	8.4
PT	84.1	13.8	-	2.1
RO	41.5	29.5	26.8	2.3
SI	64.5	35.5	-	-
SK	53.5	27.7	3.1	15.7
FI	72.4	27.3	0.3	-
SE	69.8	30.2	0.0	-
UK	85.6	9.1	0.1	5.3
AL				
ME				
MK				
RS				
TR				
IS				
NO	76.0	13.6	-	10.5
CH	64.9	34.6	0.1	0.3

2.2.4a

Road NATIONAL HAULAGE

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm							% OF TOTAL HAULAGE 2017	% CHANGE '16/'17
	1995	2000	2005	2010	2015	2016	2017		
EU-28		<i>1 086.4</i>	<i>1 225.8</i>	<i>1 173.2</i>	<i>1 145.5</i>	<i>1 176.2</i>	<i>1 218.8</i>	63.5	3.6
BE	18.6	19.8	19.3	17.8	21.3	21.4	20.6	60.3	-3.7
BG		3.1	5.0	6.1	7.2	7.3	8.3	23.7	13.7
CZ		14.2	15.5	14.8	21.2	22.3	21.9	49.5	-1.8
DK	9.3	11.0	11.1	10.6	12.5	13.0	12.6	81.1	-3.5
DE	201.3	226.5	237.6	252.5	269.7	271.7	271.7	86.8	0.0
EE	0.4	0.7	1.8	1.4	1.5	1.8	1.6	26.4	-9.0
IE	4.7	8.3	14.0	8.2	7.8	9.3	9.3	78.8	0.5
EL	20.0	23.0	19.6	25.3	15.0	15.2	15.5	54.5	1.8
ES	78.7	106.9	166.4	146.2	137.2	145.0	154.7	66.9	6.7
FR	135.3	163.2	177.3	164.3	141.2	144.2	155.9	93.0	8.1
HR		1.9	4.4	4.5	4.1	4.0	4.2	35.5	5.3
IT	150.3	158.3	171.6	149.2	104.1	100.3	106.7	89.2	6.4
CY		1.3	1.4	1.1	0.5	0.7	0.8	97.1	17.3
LV		1.5	2.7	2.6	2.8	2.8	3.2	21.6	15.4
LT		1.5	2.1	2.3	2.9	3.0	3.2	8.1	7.2
LU	0.5	0.4	0.5	0.6	1.1	1.2	1.2	12.9	1.6
HU		12.1	11.4	11.3	10.4	11.7	11.9	30.1	1.9
MT		0.2	0.2	0.2	0.2	0.2	0.2	80.0	0.0
NL	26.7	31.5	31.8	30.1	32.2	34.1	33.2	49.1	-2.6
AT	11.1	12.4	12.5	13.9	15.5	16.5	16.8	64.7	1.8
PL		48.0	60.9	82.2	104.7	106.6	120.0	35.8	12.6
PT	16.5	14.2	17.4	12.9	10.8	10.4	10.9	31.7	4.5
RO		9.9	19.4	12.1	12.1	13.1	13.5	24.8	3.1
SI		1.9	2.4	2.3	2.1	2.1	2.3	11.1	8.2
SK		5.1	5.6	5.2	5.2	5.7	6.3	17.9	11.0
FI	21.8	27.7	27.8	25.2	21.4	24.6	26.3	94.2	7.1
SE	28.4	31.5	34.7	32.7	38.1	39.3	38.6	92.1	-1.8
UK	146.7	150.3	151.2	137.8	142.9	148.7	147.3	95.7	-0.9
AL									
ME									
MK					1.1	1.2	1.4	12.8	19.1
RS									
TR	112.5	161.6	166.8	190.4	244.3	253.1	262.8		3.8
IS	0.5	0.6	0.7	0.8	0.9	0.9	1.0		16.8
NO		12.1	15.4	16.3	20.5	18.5	18.7	87.6	1.3
CH	8.4	8.9	9.2	9.6	10.4	10.1	10.2	85.7	1.0

Notes: Only haulage of heavy goods vehicles (usually >3.5 tonnes load capacity).
SE: break in series in 2014 due to a methodological change on the vehicles not in use.
BE: data revision from 2015 onwards.

Road

2.2.4b

INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm								% OF TOTAL HAULAGE 2017	% CHANGE '16/'17
	1995	2000	2005	2010	2015	2016	2017		
EU-28		421.6	568.8	583.2	607.3	642.7	702.0	36.5	9.2
BE	27.0	31.3	24.6	17.2	12.8	12.1	13.6	39.7	12.7
BG		3.3	9.3	13.3	13.8	13.6	26.8	76.3	97.4
CZ		23.1	27.9	37.1	37.5	28.0	22.4	50.5	-20.1
DK	13.1	13.0	12.2	4.4	3.0	3.1	2.9	18.9	-4.3
DE	36.5	54.2	72.5	60.6	45.2	44.1	41.5	13.2	-5.9
EE	1.1	3.2	4.0	4.2	4.7	4.9	4.6	73.6	-7.4
IE	0.8	3.9	3.9	2.7	2.1	2.3	2.5	21.2	7.5
EL	4.0	4.5	4.2	4.6	4.7	9.4	12.9	45.5	37.7
ES	22.9	41.8	66.8	63.9	72.2	72.0	76.4	33.1	6.2
FR	42.9	40.8	28.0	17.9	12.3	11.6	11.8	7.0	1.5
HR		1.0	4.9	4.2	6.4	7.4	7.6	64.5	3.9
IT	24.1	26.4	40.2	26.5	12.7	12.4	13.0	10.8	5.0
CY		0.0	0.0	0.0	0.0	0.0	0.0	2.9	33.3
LV		3.3	5.7	8.0	11.9	11.4	11.7	78.4	2.7
LT		6.2	13.8	17.1	23.6	28.0	35.9	91.9	28.2
LU	5.0	7.2	8.3	8.1	7.7	8.1	8.2	87.1	0.9
HU		7.0	13.8	22.4	28.0	28.3	27.7	69.9	-1.9
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	33.7	34.4	50.9	1.9
AT	15.4	22.7	24.5	14.7	10.0	9.6	9.2	35.3	-4.8
PL		27.0	50.9	120.1	156.0	184.1	215.2	64.2	16.9
PT	15.5	12.6	25.2	22.5	21.0	24.5	23.3	68.2	-4.8
RO		4.4	32.1	13.8	27.0	35.0	41.2	75.2	17.5
SI		3.4	8.7	13.6	15.8	16.6	18.5	88.9	11.7
SK		9.3	16.9	22.4	28.3	30.4	29.1	82.1	-4.5
FI	2.7	4.3	4.0	4.4	3.1	2.3	1.6	5.7	-29.2
SE	3.2	4.2	3.9	3.5	3.4	3.4	3.3	7.9	-3.5
UK	14.8	15.3	10.1	8.9	7.2	6.3	6.6	4.3	4.3
AL									
ME									
MK					9.1	9.4	9.5	87.2	0.9
RS									
TR									
IS									
NO		3.0	2.9	3.4	2.7	2.4	2.6	12.4	10.3
CH	0.7	0.9	1.0	3.7	2.1	2.0	1.7	14.3	-14.3

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

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

BE: data revision from 2015 onwards.

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	2016	2017	CHANGE '16/'17
EU-28	1 288.7	1 509.5	1 794.6	1 756.4	1 766.2	1 835.3	1 920.9	4.7
BE	45.6	51.0	43.8	35.0	36.1	35.2	34.2	-2.8
BG	5.2	6.4	14.4	19.4	32.3	35.4	35.2	-0.7
CZ	31.3	37.3	43.4	51.8	58.7	50.3	44.3	-12.0
DK	22.4	24.0	23.3	15.0	15.5	16.1	15.5	-3.7
DE	237.8	280.7	310.1	313.1	314.8	315.8	313.1	-0.8
EE	1.5	3.9	5.8	5.6	6.3	6.7	6.2	-7.8
IE	5.5	12.3	17.9	10.9	9.9	11.6	11.8	1.9
EL	24.0	29.0	23.8	29.8	19.8	24.6	28.4	15.5
ES	101.6	148.7	233.2	210.1	209.4	217.0	231.1	6.5
FR	178.2	204.0	205.3	182.2	153.6	155.8	167.7	7.6
HR		2.9	9.3	8.8	10.4	11.3	11.8	4.4
IT	174.4	184.7	211.8	175.8	116.8	112.6	119.7	6.3
CY	1.2	1.3	1.4	1.1	0.6	0.7	0.8	17.5
LV	1.8	4.8	8.4	10.6	14.7	14.2	15.0	5.2
LT	5.2	7.8	15.9	19.4	26.5	31.0	39.1	26.2
LU	5.5	7.6	8.8	8.7	8.9	9.3	9.4	1.0
HU	13.8	19.1	25.2	33.7	38.4	40.0	39.7	-0.8
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	68.0	67.5	-0.6
AT	26.5	35.1	37.0	28.7	25.5	26.1	26.0	-0.6
PL	51.2	75.0	111.8	202.3	260.7	290.7	335.2	15.3
PT	32.0	26.8	42.6	35.4	31.8	34.9	34.2	-2.0
RO	19.7	14.3	51.5	25.9	39.0	48.2	54.7	13.6
SI	3.3	5.3	11.0	15.9	17.9	18.7	20.8	11.3
SK	15.9	14.3	22.6	27.6	33.5	36.1	35.4	-2.0
FI	24.5	32.0	31.9	29.5	24.5	26.8	28.0	4.2
SE	31.6	35.6	38.6	36.3	41.5	42.7	41.9	-1.9
UK	161.5	165.6	161.3	146.7	150.1	155.0	153.9	-0.7
AL	2.1	2.2	3.2	4.6	3.4	3.5	3.5	-0.2
ME			0.1	0.2	0.1	0.1	0.1	-17.1
MK			5.6	4.2	10.2	10.6	10.9	2.9
RS		0.6	0.7	1.7	3.0	4.3	5.0	15.8
TR	112.5	161.6	166.8	190.4	244.3	253.1	262.8	3.8
IS	0.5	0.6	0.7	0.8	0.9	0.9	1.0	16.8
NO	9.7	15.1	18.2	19.8	23.1	20.9	21.4	2.2
CH	9.1	9.8	10.2	13.2	12.4	12.1	11.9	-1.5

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

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

BE: data revision from 2015 onwards.

SE: break in series in 2014 due to a methodological change on the vehicles not in use.

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	2016	2017	CHANGE '16/'17
EU-28	1 755.5	1 709.8	1 720.1	1 786.5	1 870.1	4.7
BE	46.8	45.6	50.7	52.6	52.4	-0.3
BG	11.0	8.9	11.2	11.2	12.0	7.4
CZ	32.3	32.0	42.5	43.4	43.1	-0.8
DK	16.8	17.2	18.8	20.6	20.3	-1.2
DE	370.8	404.9	427.5	447.7	463.3	3.5
EE	2.7	2.2	2.8	3.1	2.9	-6.5
IE	15.6	9.7	9.2	10.6	10.6	-0.3
EL	21.9	27.6	17.6	18.7	19.7	5.5
ES	210.7	184.4	177.9	186.7	198.0	6.0
FR	294.5	275.1	249.4	258.1	278.2	7.8
HR	10.5	7.9	8.2	8.7	9.5	8.2
IT	204.0	183.6	133.5	132.0	142.1	7.6
CY	1.4	1.1	0.5	0.7	0.8	17.3
LV	3.7	3.7	4.8	4.9	5.3	8.7
LT	4.4	5.0	7.3	7.4	7.7	3.6
LU	1.9	2.1	2.6	2.8	3.0	4.9
HU	22.2	21.3	22.1	24.5	25.8	5.4
MT						
NL	49.7	49.2	50.8	54.7	54.2	-1.0
AT	32.4	37.9	41.0	43.4	45.8	5.5
PL	86.8	116.2	147.3	154.2	174.0	12.8
PT	23.9	18.9	16.3	16.4	16.7	2.2
RO	32.5	15.6	16.5	18.0	19.4	7.6
SI	7.3	7.3	7.7	8.7	9.3	7.1
SK	10.5	11.8	13.9	15.0	16.4	9.3
FI	28.8	26.5	22.8	25.7	27.5	6.8
SE	45.1	42.4	49.3	51.3	50.4	-1.6
UK	167.3	151.5	165.9	185.6	161.8	-12.8
AL						
ME						
MK						
RS						
TR						
IS						
NO	17.1	19.1	23.7	22.2	22.6	1.7
CH	23.0	21.6	20.8	20.8	21.9	5.3

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

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

EU aggregates do not include road freight transport for Malta (negligible, exempt from reporting). BE: data revision from 2015 onwards. 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	2016	2017	CHANGE '16/'17
EU-28	388.1	406.0	416.0	393.5	415.2	411.8	420.8	2.2
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	3.4	3.9	14.5
CZ	22.6	17.5	14.9	13.8	15.3	15.6	15.8	1.4
DK	2.0	2.0	2.0	2.2	2.6	2.6	2.7	1.4
DE	70.5	82.7	95.4	107.3	116.6	116.2	112.2	-3.4
EE	3.8	8.1	10.6	6.6	3.1	2.3	2.3	-0.6
IE	0.6	0.5	0.3	0.1	0.1	0.1	0.1	-1.0
EL	0.3	0.4	0.6	0.6	0.3	0.3	0.4	40.9
ES	11.0	12.2	11.6	8.9	11.0	10.5	10.7	1.2
FR	48.3	57.7	40.7	30.0	34.3	32.6	33.4	2.7
HR	2.0	1.8	2.8	2.6	2.2	2.2	2.6	20.0
IT	21.7	22.8	22.8	18.6	20.8	22.7	22.3	-1.7
CY	-	-	-	-	-	-	-	-
LV	9.8	13.3	19.8	17.2	18.9	15.9	15.0	-5.4
LT	7.2	8.9	12.5	13.4	14.0	13.8	15.4	11.8
LU	0.5	0.6	0.4	0.3	0.2	0.2	0.2	-0.5
HU	8.4	8.8	9.1	8.8	10.0	10.5	13.4	26.9
MT	-	-	-	-	-	-	-	-
NL	3.1	4.5	5.9	5.9	6.5	6.6	6.5	-2.6
AT	13.2	16.6	19.0	19.8	20.8	21.4	22.3	4.2
PL	68.2	54.0	50.0	48.7	50.6	50.7	54.8	8.2
PT	2.0	2.2	2.4	2.3	2.7	2.8	2.8	-0.8
RO	17.9	16.4	16.6	12.4	13.7	13.5	13.8	1.8
SI	3.1	2.9	3.2	3.4	4.2	4.4	5.1	17.6
SK	13.8	11.2	9.5	8.1	8.4	8.4	8.5	1.3
FI	9.6	10.1	9.7	9.8	8.5	9.5	10.4	9.6
SE	19.4	19.5	21.7	23.5	20.7	21.4	21.8	2.0
UK	13.3	18.1	21.4	18.6	19.3	17.1	17.2	0.7
AL	0.1	0.0	0.0	0.1	0.0	0.0	0.0	177.8
ME				0.2	0.1	0.1	0.2	50.2
MK		0.5	0.5	0.5	0.3	0.2	0.3	24.8
RS				3.5	3.2	3.1	3.3	6.5
TR	8.5	9.8	9.1	11.3	10.2	11.4	12.7	11.0
IS	-	-	-	-	-	-	-	-
NO	2.7	3.0	3.2	3.5	3.5	3.3	4.0	22.0
CH	8.9	11.1	11.7	11.1	12.4	12.4	11.7	-6.3

Inland Waterways

2.2.6

billion tkm								%
	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28	122.1	133.9	138.8	155.5	147.5	146.7	147.2	0.3
BE	5.7	7.2	8.6	9.1	10.4	10.3	11.1	7.4
BG	0.5	0.3	0.8	6.0	5.6	5.5	5.3	-3.6
CZ	0.3	0.1	0.1	0.0	0.0	0.0	0.0	-30.6
DK	-	-	-	-	-	-	-	-
DE	64.0	66.5	64.1	62.3	55.3	54.3	55.5	2.2
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6.6	9.1	8.9	9.5	8.5	8.3	7.5	-9.6
HR	0.0	0.1	0.1	0.9	0.9	0.8	0.8	-2.8
IT	0.1	0.2	0.1	0.1	0.1	0.1	0.1	-9.0
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	2.6
HU	1.2	0.9	2.1	2.4	1.8	2.0	2.0	0.9
MT	-	-	-	-	-	-	-	-
NL	35.5	41.3	42.2	46.6	48.5	49.4	49.0	-0.8
AT	2.0	2.4	1.8	2.4	1.8	2.0	2.0	3.1
PL	0.9	1.2	0.3	0.1	0.1	0.1	0.1	6.5
PT	-	-	-	-	-	-	-	-
RO	3.1	2.6	8.4	14.3	13.2	13.2	12.5	-4.8
SI	-	-	-	-	-	-	-	-
SK	1.5	1.4	0.7	1.2	0.7	0.9	0.9	3.3
FI	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0
SE	-	-	-	-	-	0.0	0.0	-68.8
UK	0.2	0.2	0.2	0.2	0.1	0.1	0.1	-8.3
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-
RS	0.3	1.0	1.6	0.9	0.9	0.9	0.7	-22.3
TR	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	0.0	0.1	0.0	0.0	0.0	0.0	0.0	37.0

Notes: 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	2016	2017	CHANGE '16/'17
EU-28	114.9	127.1	137.6	121.1	114.1	114.7	114.0	-0.6
BE	1.4	1.6	1.5	1.5	1.6	1.6	1.6	-1.2
BG	0.4	0.4	0.4	0.4	0.7	0.7	0.7	-0.6
CZ	2.3	1.6	2.3	2.2	2.0	1.6	2.2	36.3
DK	3.1	4.7	5.1	3.5	2.3	2.0	2.2	10.9
DE	14.8	15.0	16.7	16.3	17.7	18.8	18.2	-2.8
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	0.2	0.02	0.02	0.02	0.02	7.29
ES	5.9	7.5	9.2	8.2	10.1	10.0	9.7	-2.8
FR	22.3	21.7	20.9	17.6	11.4	11.4	11.2	-1.7
HR	-	0.4	1.5	1.3	1.4	1.6	1.8	11.3
IT	9.7	10.3	11.4	10.4	9.2	10.0	10.3	2.8
CY	-	-	-	-	-	-	-	-
LV	5.3	6.5	3.4	2.4	2.0	1.5	1.4	-6.4
LT	2.0	3.5	4.4	0.6	0.5	0.4	0.4	-3.7
LU	-	-	-	-	-	-	-	-
HU	2.2	2.3	2.7	3.2	2.5	2.3	2.4	4.5
MT	-	-	-	-	-	-	-	-
NL	5.3	5.9	5.9	5.6	6.0	6.0	6.1	1.6
AT	6.8	7.6	7.8	7.0	8.5	8.5	8.4	-0.9
PL	13.5	20.4	25.4	24.2	21.8	22.2	21.1	-5.1
PT	-	0.5	0.5	0.4	0.4	0.39	0.42	6.2
RO	2.9	1.4	2.2	1.0	1.0	1.1	1.1	-3.9
SI	-	-	-	-	-	-	-	-
SK	6.1	4.6	5.3	5.0	5.0	4.6	4.8	4.5
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
UK	11.1	11.4	10.8	10.2	10.0	10.0	10.0	0.0
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK	-	-	0.1	0.1	0.0	0.0	0.0	30.0
RS	-	-	-	0.4	0.4	0.4	0.5	7.6
TR	3.2	53.1	5.7	39.6	52.5	52.7	52.1	-1.1
IS	-	-	-	-	-	-	-	-
NO	5.3	3.5	4.6	3.5	3.4	3.8	3.1	-18.4
CH	1.2	0.2	0.2	0.2	0.1	0.1	0.1	-1.8

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

USA

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	2 760.4	2 500.3	461.9	1 251.0	6 973.6
2013	2 833.7	2 541.4	438.3	1 229.9	7 043.2
2014	2 910.2	2 702.7	483.0	1 266.3	7 362.3
2015	2 923.5	2 537.8	458.3	1 279.6	7 199.2
2016	2 953.2	2 314.7	445.3	1 308.6	7 021.8

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	-28.5	-1.0	-0.6	-15.8	-16.3
2013	2.7	1.6	-5.1	-1.7	1.0
2014	2.7	6.4	10.2	3.0	4.5
2015	2.7	6.4	10.2	3.0	4.5
2016	0.5	-6.1	-5.1	1.0	-2.2
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
2011–2016	-5.2	-1.7	-0.8	-2.5	-3.4

Notes: Time series for road transport revised according to the estimates based on the Freight Analysis Framework (FAF). From the break onwards, values are taken from the US Pocket Guides to Transportation. Road and pipeline: data revision back to 2012.

2.2.8

USA

MODAL SPLIT – FREIGHT TRANSPORT

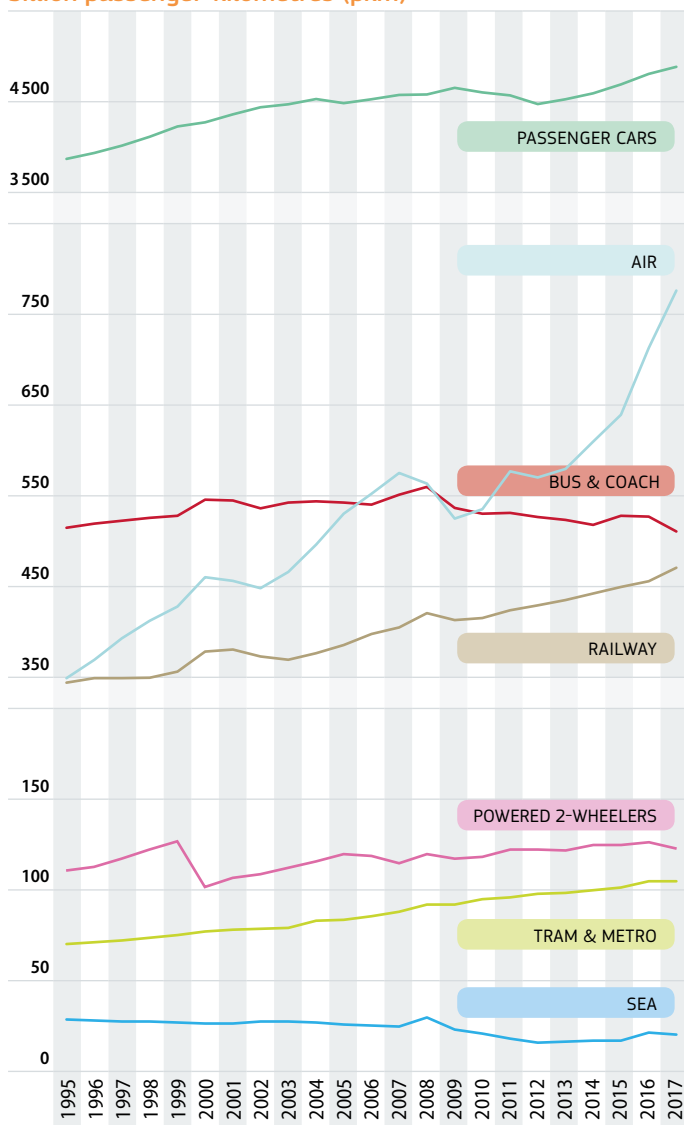
	%			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
1995	43.0	27.2	7.6	22.2
1996	43.0	27.7	7.1	22.2
1997	44.0	27.4	7.0	21.6
1998	44.3	28.2	6.9	20.6
1999	44.4	29.1	7.0	19.5
2000	44.7	29.7	6.9	18.6
2001	45.2	30.6	6.6	17.7
2002	46.1	30.5	6.6	16.7
2003	46.9	30.3	6.2	16.6
2004	45.6	31.6	6.4	16.4
2005	45.6	32.2	6.1	16.1
2006	44.1	34.0	6.1	15.8
2007	45.4	33.1	5.9	15.6
2008	47.7	30.0	5.4	17.0
2009	46.6	30.1	5.3	18.0
2010	45.8	31.1	5.6	17.4
2011	46.3	30.3	5.6	17.8
2012	39.6	35.9	6.6	17.9
2013	40.2	36.1	6.2	17.5
2014	39.5	36.7	6.6	17.2
2015	40.6	35.3	6.4	17.8
2016	42.1	33.0	6.3	18.6

Notes: Time series for road transport revised according to the estimates based on the Freight Analysis Framework (FAF). From the break onwards, values are taken from the US Pocket Guides to Transportation. Road and pipeline: data revision back to 2012.

EU-28 Performance for Passenger Transport 1995-2017 – BY MODE

2.3.1

billion passenger-kilometres (pkm)



2.3.2

EU-28 Performance BY MODE

PASSENGER TRANSPORT

	billion pkm							
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA	TOTAL
1995	3 904	113	515	343	74	348	31	5 327
2000	4 301	105	545	377	80	460	29	5 896
2005	4 508	121	542	384	86	530	29	6 201
2006	4 549	120	540	397	88	552	28	6 274
2007	4 597	116	551	404	90	575	28	6 360
2008	4 602	121	559	420	94	563	32	6 391
2009	4 675	118	536	412	93	524	27	6 386
2010	4 626	119	530	414	96	535	25	6 344
2011	4 593	123	531	423	97	577	22	6 366
2012	4 498	123	526	428	99	570	21	6 266
2013	4 549	122	523	434	99	580	21	6 329
2014	4 615	125	518	441	101	610	22	6 431
2015	4 712	125	528	448	102	640	22	6 576
2016	4 827	126	527	455	105	713	25	6 779
2017	4 901	123	510	470	107	777	24	6 913
'95/'17	25.5 %	9.5 %	-0.8 %	37.0 %	45.4 %	123.3 %	-21.2 %	29.8 %
/year	1.0 %	0.4 %	-0.0 %	1.4 %	1.7 %	3.7 %	-1.1 %	1.2 %
'00/'17	14.0 %	17.8 %	-6.4 %	24.6 %	33.8 %	69.1 %	-16.1 %	17.3 %
/year	0.8 %	1.0 %	-0.4 %	1.3 %	1.7 %	3.1 %	-1.0 %	0.9 %
'16/'17	1.5 %	-2.4 %	-3.1 %	3.3 %	1.7 %	8.9 %	-2.9 %	2.0 %

MODAL SPLIT

	%						
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA
1995	73.3	2.1	9.7	6.4	1.4	6.5	0.6
2000	72.9	1.8	9.2	6.4	1.4	7.8	0.5
2005	72.7	1.9	8.7	6.2	1.4	8.5	0.5
2006	72.5	1.9	8.6	6.3	1.4	8.8	0.4
2007	72.3	1.8	8.7	6.3	1.4	9.0	0.4
2008	72.0	1.9	8.8	6.6	1.5	8.8	0.5
2009	73.2	1.9	8.4	6.5	1.5	8.2	0.4
2010	72.9	1.9	8.3	6.5	1.5	8.4	0.4
2011	72.2	1.9	8.3	6.6	1.5	9.1	0.4
2012	71.8	2.0	8.4	6.8	1.6	9.1	0.3
2013	71.9	1.9	8.3	6.9	1.6	9.2	0.3
2014	71.8	1.9	8.1	6.9	1.6	9.5	0.3
2015	71.6	1.9	8.0	6.8	1.6	9.7	0.3
2016	71.2	1.9	7.8	6.7	1.6	10.5	0.4
2017	70.9	1.8	7.4	6.8	1.6	11.2	0.4

Notes: Air and Sea: only domestic and intra-EU-28 transport; provisional estimates.
P2W: powered two-wheelers.

Modal Split of Passenger Transport 2.3.3 on Land 2017 – BY COUNTRY

pkm as %				
	PASSENGER CARS	BUSES & COACHES	RAILWAYS	TRAM & METRO
EU-28	81.8	8.5	7.8	1.8
BE	81.1	10.1	7.7	1.1
BG	81.5	14.9	2.0	1.5
CZ	66.2	15.7	8.4	9.7
DK	81.2	9.9	8.5	0.5
DE	84.2	5.6	8.6	1.5
EE	79.9	17.2	2.2	0.7
IE	82.3	14.3	3.1	0.3
EL	81.4	16.4	0.9	1.3
ES	83.5	7.7	6.9	1.9
FR	81.0	6.2	10.9	1.8
HR	82.7	13.1	2.3	1.9
IT	82.0	11.4	5.9	0.7
CY	81.0	19.0	-	-
LV	83.8	12.1	3.3	0.7
LT	91.1	8.0	0.9	-
LU	82.9	12.4	4.7	-
HU	67.6	20.4	8.6	3.4
MT	82.5	17.5	-	-
NL	85.3	2.8	11.3	0.5
AT	72.7	9.7	11.2	6.4
PL	77.2	13.5	7.6	1.6
PT	87.6	7.0	4.3	1.1
RO	75.4	14.1	4.4	6.1
SI	86.5	11.7	1.8	-
SK	73.8	15.6	9.9	0.7
FI	83.6	10.3	5.4	0.7
SE	81.7	7.0	9.4	1.9
UK	84.5	5.0	8.7	1.8
AL	89.0	11.0	0.0	-
ME	96.4	2.4	1.3	-
MK	87.5	11.9	0.6	-
RS	73.6	23.9	0.9	1.5
TR				
IS	88.1	11.9	-	-
NO	88.3	5.6	4.8	1.3
CH	77.3	5.0	16.8	0.9

Note: If powered two-wheelers are included, they account for 2.02% of the total in EU-28, while the share of the other modes becomes:

EU-28	80.2	8.4	7.7	1.8
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2.3.4

Passenger Cars

billion pkm									%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28		3 904.4	4 300.9	4 508.3	4 625.6	4 711.8	4 826.7	4 901.4	1.5
BE	89.5	96.4	102.5	102.8	109.4	107.0	106.1	106.9	0.8
BG		25.0	26.9	35.1	46.9	56.8	56.6	57.7	1.8
CZ		54.5	63.9	68.6	63.6	69.7	72.3	74.3	2.9
DK	47.2	48.4	50.6	49.8	51.7	56.8	59.0	60.0	1.7
DE	683.1	815.3	831.3	856.9	887.0	927.0	946.3	935.7	-1.1
EE		5.1	6.7	9.9	10.1	12.3	12.8	13.1	1.9
IE	28.5	31.6	34.6	44.4	48.1	51.9	55.0	56.5	2.8
EL	35.0	44.0	63.0	85.0	99.6	98.3	99.9	101.9	2.0
ES	174.4	250.4	302.6	337.8	341.6	317.6	329.9	332.9	0.9
FR	592.5	641.2	687.7	704.6	695.9	722.9	742.5	743.4	0.1
HR		12.5	20.0	24.0	25.7	26.4	26.2	26.2	0.0
IT	522.6	614.7	713.9	677.0	698.4	676.4	704.5	744.9	5.7
CY		3.4	3.9	4.8	5.9	6.2	6.5	6.6	1.3
LV		7.5	11.5	12.1	12.3	13.5	13.9	15.0	7.8
LT		16.0	26.0	34.8	32.6	24.9	25.9	31.4	21.3
LU	4.0	4.7	5.6	6.3	6.5	7.3	7.5	7.7	2.0
HU	47.0	45.4	46.2	49.4	52.6	54.6	56.7	60.6	7.0
MT		1.7	1.8	2.0	2.2	2.5	2.6	2.6	0.9
NL	137.3	131.4	141.1	148.8	144.2	139.5	140.8	138.7	-1.5
AT	55.7	62.2	66.7	70.6	73.5	78.3	80.4	81.8	1.7
PL		110.7	130.1	152.3	188.8	200.6	203.8	205.7	1.0
PT	40.0	52.5	71.0	85.0	83.7	84.5	90.5	92.2	1.9
RO		40.0	51.0	61.0	75.5	89.9	95.6	97.3	1.8
SI	13.3	16.3	20.3	22.5	25.6	26.0	26.5	27.1	2.5
SK		18.0	23.9	25.8	26.9	27.5	27.8	28.1	1.0
FI	51.2	50.0	55.7	61.9	64.7	66.3	57.0	66.6	16.8
SE	85.9	87.6	103.7	108.0	108.0	111.9	114.5	116.0	1.3
UK	588.0	617.9	638.6	667.1	644.7	655.2	665.5	670.4	0.7
AL		4.8	5.1	6.6	5.5	9.1	9.9	10.1	2.3
ME					4.1	4.1	4.5	4.6	2.4
MK			4.8	4.0	4.7	7.0	7.2	9.2	27.5
RS					30.6	28.6	29.5	30.0	1.6
TR	34.3	52.7	79.0	100.0	137.9	199.9	213.9	218.0	1.9
IS		3.0	3.8	4.6	5.0	5.6	6.5	6.6	2.8
NO	43.5	44.7	51.2	54.0	58.8	64.7	65.0	66.4	2.2
CH	73.3	69.6	75.0	77.8	85.9	92.0	94.0	95.7	1.9

Notes: Data is not harmonised and therefore not fully comparable. 2017 data may be provisional. Data sometimes includes 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. UK: data refer to Great Britain only; include pkm by vans. DE: includes DE-E: 1990=90.3. In 2019: data revision back to 2015. CH: includes activity of foreign vehicles in the country. TR: excludes urban traffic. DK: figures exclude activity of vans with a mass higher than 2 000 kg. PL: estimated activity.

Buses & Coaches

2.3.5

billion pkm									%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28		514.7	545.0	542.2	529.7	527.7	526.9	510.4	-3.1
BE	11.4	13.1	13.3	17.5	17.4	14.4	13.6	13.4	-1.6
BG	26.0	11.6	14.6	13.7	10.6	12.5	12.2	10.6	-13.6
CZ		18.6	16.2	15.6	17.0	16.3	16.7	17.7	5.8
DK	6.4	7.3	7.4	7.2	6.8	6.9	7.1	7.3	3.3
DE	73.1	68.5	69.0	67.1	61.8	65.1	64.0	62.5	-2.3
EE	4.5	2.0	2.6	2.7	2.1	3.1	2.9	2.8	-2.0
IE	3.9	5.2	7.0	7.9	8.5	8.5	9.0	9.8	9.4
EL	17.7	20.2	21.7	21.7	21.1	21.1	20.9	20.5	-2.1
ES	33.4	39.6	50.3	53.2	50.9	46.4	47.8	30.5	-36.1 (*)
FR	52.3	53.2	49.6	50.1	54.0	57.7	58.0	57.2	-1.4
HR	7.0	4.1	3.3	3.4	3.2	3.4	3.8	4.2	9.2
IT	84.0	87.1	93.4	101.0	102.2	102.5	103.1	103.2	0.1
CY		1.0	1.1	1.3	1.3	1.4	1.5	1.5	3.7
LV	5.9	1.8	2.3	2.9	2.3	2.2	2.2	2.2	-1.0
LT	7.9	4.2	2.8	3.7	2.7	2.7	2.6	2.7	4.1
LU	0.5	0.5	0.6	0.8	0.9	1.1	1.1	1.1	3.2
HU	19.3	16.6	18.7	17.8	16.5	17.8	17.8	18.3	2.7
MT		0.4	0.5	0.5	0.5	0.5	0.5	0.6	1.8
NL	13.0	12.0	4.6	4.8	4.8	4.9	5.0	4.6	-7.2
AT	8.2	9.0	9.5	9.7	10.0	10.3	10.6	10.9	2.6
PL	46.3	34.0	59.2	49.2	41.7	37.6	36.8	36.1	-1.9
PT	10.3	11.3	11.8	6.4	6.1	6.6	7.6	7.4	-2.6
RO	24.0	12.3	7.7	11.8	15.8	17.5	18.7	18.2	-3.0
SI	6.5	4.1	3.5	3.1	3.2	3.6	3.6	3.7	2.0
SK		14.4	9.3	8.5	5.3	5.4	5.9	5.9	0.6
FI	8.5	8.0	7.7	7.5	7.5	7.5	8.3	8.2	-0.3
SE	9.7	9.7	9.2	9.3	9.4	9.8	9.8	10.0	1.3
UK	47.1	44.8	48.0	44.0	46.2	40.9	35.9	39.5	10.1
AL	2.2	0.2	0.2	0.3	2.4	1.2	1.3	1.2	-5.2
ME					0.1	0.1	0.1	0.1	0.3
MK		0.9	0.9	1.1	1.4	1.2	1.1	1.2	13.4
RS					9.4	9.4	9.0	10	8.9
TR		85.7	87.4	95.0	89.1	90.8	87.0	87.5	0.6
IS		0.4	0.5	0.6	0.6	0.7	0.8	0.9	7.4
NO	3.9	3.8	4.1	4.3	4.5	4.1	4.3	4.2	-2.2
CH	3.3	5.5	4.8	5.3	5.5	6.0	6.1	6.1	0.2

Notes: (*) ES: the two years are not comparable due to a change in the methodology. Data is not harmonised and therefore not fully comparable. 2017 data may be provisional. Data sometimes includes 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 2018 revision of data from 2000 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. 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. PT: data revision back to 2015. IE: data revision back to 2015.

2.3.6

Tram & Metro

billion pkm									%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28		73.7	80.1	86.1	96.1	102.1	105.4	107.2	1.7
BE	0.7	0.8	0.9	0.9	1.1	1.2	1.3	1.4	10.2
BG	0.6	0.3	0.4	0.4	0.9	0.7	0.8	1.1	31.3
CZ		7.7	8.1	7.9	9.0	9.8	10.9	10.9	0.1
DK	-	-	-	0.2	0.2	0.3	0.3	0.3	6.2
DE	15.1	14.4	14.6	15.5	16.3	16.7	17.0	17.2	1.2
EE		0.1	0.1	0.1	0.2	0.2	0.1	0.1	-7.8
IE	-	-	-	0.1	0.1	0.2	0.2	0.2	0.7
EL	0.8	0.7	1.2	1.5	1.7	1.7	1.7	1.7	2.1
ES	4.4	4.3	5.2	6.0	7.6	7.2	7.5	7.6	2.1
FR	10.5	9.3	11.6	13.6	15.0	16.2	16.3	16.7	2.1
HR		0.5	0.5	0.5	0.5	0.6	0.6	0.6	-0.2
IT	4.2	5.2	5.6	6.0	7.1	6.8	6.7	6.8	1.2
CY	-	-	-	-	-	-	-	-	-
LV	0.7	0.3	0.3	0.3	0.1	0.1	0.1	0.1	3.5
LT	-	-	-	-	-	-	-	-	-
LU	-	-	-	-	-	-	-	-	-
HU		2.5	2.6	2.4	2.5	2.9	3.1	3.0	-0.6
MT	-	-	-	-	-	-	-	-	-
NL	1.3	1.4	0.7	0.7	0.9	0.9	0.9	0.9	-4.7
AT	4.2	5.1	6.0	6.4	6.9	7.2	7.2	7.2	0.1
PL		5.0	4.7	4.4	4.3	4.2	4.3	4.3	-0.6
PT	0.7	0.5	0.5	0.8	1.1	1.0	1.1	1.1	5.6
RO		6.0	6.0	6.6	7.1	7.6	8.2	7.9	-3.0
SI	-	-	-	-	-	-	-	-	-
SK		0.4	0.4	0.4	0.3	0.3	0.3	0.3	-5.4
FI	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	5.8
SE	2.0	1.9	2.0	2.0	2.3	2.5	2.6	2.6	1.5
UK	6.5	6.8	8.3	8.7	10.2	13.2	13.7	14.4	5.6
AL	-	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-	-
RS					0.4	0.4	0.5	0.6	29.4
TR									
IS	-	-	-	-	-	-	-	-	-
NO	0.4	0.4	0.5	0.5	0.6	0.8	0.9	1.0	8.5
CH		1.5	1.4	0.8	1.0	1.2	1.2	1.2	0.2

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

Data for 2017 are mostly provisional.

FR: data refer to the Paris Metro, RER (Réseau Express Régional) systems, tramways d'Île-de-France (as of 2000) and metros in other French cities. PT: data refer to Lisbon, Porto and Sul do Tejo Metro systems (the latter as from 2014). ES: including metro of Malaga since 2014. AT: 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.

Railways

2.3.7

	billion pkm							% UNDER PSO (*) 2017	% CHANGE '16/'17
	1995	2000	2005	2010	2015	2016	2017		
EU-28	342.9	377.0	384.5	414.1	448.3	454.6	469.7	64.4	3.3
BE	6.8	7.7	8.5	10.6	10.3	10.0	10.2		1.4
BG	4.7	3.5	2.4	2.1	1.5	1.5	1.4	94.2	-1.4
CZ	8.0	7.3	6.7	6.6	8.1	8.7	9.4	84.3	7.6
DK	4.9	5.5	6.0	6.3	6.5	6.3	6.3		-0.8
DE	71.0	75.4	76.8	83.9	91.7	94.2	95.8	58.6	1.7
EE	0.4	0.3	0.2	0.2	0.3	0.3	0.4	94.4	15.8
IE	1.3	1.4	1.8	1.7	1.9	2.0	2.1	100.0	6.6
EL	1.6	1.9	1.9	1.4	1.3	1.2	1.1	97.5	-6.7
ES	16.6	20.1	21.6	22.5	26.1	26.7	27.5	43.1	3.2
FR	46.8	74.9	82.3	92.4	94.7	94.0	100.1	40.4	6.5
HR	1.1	1.3	1.2	1.7	0.9	0.8	0.7	99.2	-11.0
IT	46.7	49.6	50.1	47.2	52.2	52.2	53.2	57.3	2.0
CY	-	-	-	-	-	-	-	-	-
LV	1.4	0.7	0.9	0.7	0.6	0.6	0.6	92.9	2.1
LT	1.1	0.6	0.3	0.2	0.3	0.3	0.3	71.3	12.5
LU	0.3	0.3	0.3	0.3	0.4	0.4	0.4		5.0
HU	8.4	9.7	9.9	7.7	7.6	7.7	7.7	95.3	1.0
MT	-	-	-	-	-	-	-	-	-
NL	16.4	14.7	15.2	16.9	17.5	18.0	18.4	99.5	2.5
AT	10.1	8.7	8.7	10.3	12.2	12.6	12.7	67.8	0.6
PL	26.6	24.1	18.2	17.9	17.4	19.2	20.3	88.9	6.0
PT	4.8	4.0	3.8	4.1	4.0	4.3	4.5	8.2	5.9
RO	18.9	11.6	8.0	5.4	5.1	5.0	5.7		13.5
SI	0.6	0.7	0.7	0.7	0.6	0.6	0.6	98.4	-6.7
SK	4.2	2.9	2.2	2.3	3.4	3.5	3.8	93.6	7.7
FI	3.2	3.4	3.5	4.0	4.1	3.9	4.3	96.7	10.4
SE	6.8	8.2	8.9	11.2	12.7	12.8	13.3	51.3	4.1
UK	30.3	38.4	44.6	55.8	66.6	68.0	68.9	97.0	1.3
AL	0.2	0.1	0.1	0.0	0.0	0.0	0.0		-33.3
ME				0.1	0.1	0.1	0.1		-28.5
MK	0.1	0.1	0.1	0.2	0.2	0.1	0.1		-28.9
RS	2.3	1.2	0.7	0.5	0.5	0.4	0.4		-13.9
TR	5.8	5.8	5.0	5.5	4.8	4.3	4.6		5.6
IS	-	-	-	-	-	-	-	-	-
NO	2.4	2.6	2.7	3.2	3.6	3.7	3.6	98.9	-3.0
CH	11.7	12.6	16.1	19.2	20.4	20.8	20.9		0.3

Notes: (*) 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, data are ITF estimates. UK share of PSO excludes Northern Ireland. EU-28 shares of PSO estimated on the basis of the available data. FR: in 2018 the methodology has changed, data back to 2015 were revised; recalibration of time serie back to 1990.

2.3.8

Rail

HIGH-SPEED RAIL TRANSPORT (*)

	billion pkm														EU-28	%
	BE	CZ	DE	ES	FR	IT	NL	PL	PT	SI	FI	SE	UK			CHANGE
1990	-	-	-	-	14.92	0.30	-	-	-	-	-	0.01	-	15.23	-	-
1995	-	-	8.70	1.29	21.43	1.10	-	-	-	-	-	0.42	-	32.94	7.2 %	
2000	0.87	-	13.93	1.94	34.75	5.09	0.11	-	-	-	0.07	2.05	-	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	80.11	5.3 %	
2006	1.00	0.15	21.64	2.70	44.85	8.91	0.73	-	0.51	-	0.44	2.49	0.90	84.32	5.2 %	
2007	1.02	0.33	21.92	2.59	47.97	8.82	0.80	-	0.51	-	0.58	2.78	1.39	88.70	5.2 %	
2008	1.08	0.25	23.33	5.48	52.56	8.88	0.87	-	0.53	0.01	0.62	2.99	0.99	97.60	10.0 %	
2009	1.06	0.24	22.56	11.51	51.86	10.75	0.92	-	0.53	0.02	0.60	3.05	1.01	104.10	6.7 %	
2010	1.06	0.27	23.90	11.72	51.89	11.61	0.29	-	0.52	0.02	0.65	2.94	1.01	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	108.06	2.1 %	
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	109.80	1.6 %	
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	111.67	1.7 %	
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	109.28	-2.1 %	
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	112.82	3.2 %	
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	2.80	117.12	3.8 %	
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	2.80	127.03	8.5 %	

Note: 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-28	
2000	11.2	-	18.5	9.6	46.4	10.3	0.8	-	-	-	2.1	24.8	-	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	20.8	
2006	11.2	2.1	27.4	12.2	52.3	17.8	4.6	-	13.1	-	12.3	25.9	1.9	21.3	
2007	10.8	4.8	27.7	11.9	54.6	17.7	4.9	-	12.7	-	15.4	27.0	2.8	22.0	
2008	10.6	3.7	28.3	22.9	56.4	17.9	5.3	-	12.5	1.8	15.4	26.8	1.9	23.3	
2009	10.4	3.6	27.4	49.7	56.2	22.3	5.6	-	12.6	2.1	15.6	26.9	1.9	25.3	
2010	10.0	4.1	28.5	52.2	56.2	24.6	1.7	-	12.6	2.1	16.4	26.3	1.8	25.6	
2011	8.5	4.3	27.3	49.3	54.4	26.2	1.7	-	11.0	1.9	18.3	24.8	7.5	25.7	
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	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	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	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	25.2	
2016	15.0	9.5	28.4	56.5	53.8	25.1	2.0	7.5	16.2	0.6	15.8	27.2	4.1	25.8	
2017	15.3	8.8	29.8	56.5	58.2	24.0	2.2	7.1	14.5	0.3	15.9	27.1	4.1	27.0	

USA

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	195.7	12.3	556.6	6 093.3
1995	5 702.0	17.3	25.9	219.3	14.7	650.0	6 629.2
2000	6 372.2	24.9	31.1	505.5	17.3	834.6	7 785.6
2005	6 952.4	28.2	31.9	449.1	18.0	939.5	8 418.9
2010	7 131.7	34.6	36.7	470.0	20.8	908.8	8 602.7
2015	7 495.0	36.6	40.1	554.0	23.2	1 033.0	9 181.9
2016	7 684.7	38.2	40.2	558.1	23.5	1 079.0	9 423.6
2017	7 751.0	37.6	39.0	588.0	24.3	1 116.6	9 556.5

AVERAGE ANNUAL CHANGE

	% per year						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS	LIGHT AND COMMUTER RAIL	AIR	TOTAL
2005	1.0	-8.0	-0.3	-2.7	-1.1	4.6	1.1
2010	0.6	-11.1	0.5	-4.3	-2.8	2.3	0.4
2011	0.1	0.2	4.6	0.3	5.6	1.9	0.4
2012	0.5	15.3	1.6	7.0	-0.5	0.8	1.0
2013	0.5	-4.8	4.2	2.6	5.1	1.6	0.8
2014	1.2	-1.9	-1.1	5.5	-0.2	3.1	1.6
2015	2.6	-1.8	-0.3	1.4	0.9	5.6	2.8
2016	2.5	4.3	0.2	0.7	1.5	4.4	2.6
2017	0.9	-1.4	-3.1	5.4	3.4	3.5	1.4
'90/'95	1.5	-2.8	-1.7	2.3	3.5	3.2	1.7
'95/'00	2.2	7.5	3.7	18.2	3.4	5.1	3.3
'00/'17	1.2	2.5	1.3	0.9	2.0	1.7	1.2

MODAL SPLIT

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

Note: (*) It includes: light duty vehicles, short wheel base and long wheel base.

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	LV
BE	9.9	302.2	481.1	734.6	2066.0	65.1	506.3	1055.5	5952.3	2418.2	244.0	3466.2	78.9	126.3
BG	286.3	280.4	346.9	133.1	2083.3	39.3	96.3	219.4	515.3	255.4	2.8	806.0	102.3	23.7
CZ	480.6	350.8	67.5	273.0	1271.4	0.2	200.4	766.2	1000.5	1105.1	99.8	1388.5	23.2	55.0
DK	733.7	135.8	272.6	1950.7	2792.7	75.6	291.4	1005.0	3426.3	1503.6	215.9	1499.4	82.0	234.3
DE	2044.3	2076.3	1223.8	2775.9	23832.9	436.0	2121.2	6971.6	28331.5	7739.0	1905.6	14008.8	434.6	866.8
EE	64.4	40.3	0.1	75.3	438.8	24.5	22.2	68.4	69.3	41.1	14.6	92.6	4.9	219.3
IE	504.1	96.4	200.8	291.0	2131.0	22.3	87.0	156.6	4153.2	1922.1	133.1	1362.3	12.6	115.6
EL	1130.8	213.7	761.9	981.8	6992.5	66.5	155.0	8334.9	615.5	2495.6	54.7	3302.2	1632.9	88.8
ES	5958.8	489.4	1001.8	3440.2	28629.8	69.9	4164.9	621.1	36166.5	13720.1	257.8	13979.4	21.2	140.0
FR	2231.1	220.4	1039.7	1408.1	7829.8	40.9	1841.8	2259.6	12124.5	30024.0	588.9	10899.7	70.7	141.4
HR	234.0	1.0	99.2	214.8	1845.5	10.0	132.9	55.3	259.0	650.8	526.6	302.8	0.1	8.0
IT	3440.6	808.2	1390.1	1509.0	14045.7	91.8	1361.4	3272.6	13939.1	11361.4	297.9	31120.6	84.1	230.5
CY	78.7	101.6	18.2	81.8	436.6	5.0	12.7	1643.9	21.2	97.9	0.1	82.1	0.0	15.6
LV	126.3	24.1	55.1	234.9	871.6	221.1	115.8	91.7	139.8	142.6	15.1	231.9	15.6	6.3
LT	92.0	44.2	0.0	328.2	482.2	82.7	170.7	95.9	242.1	142.3	0.2	323.1	52.1	221.3
LU	0.7	24.3	12.4	59.4	498.2		37.2	68.0	474.3	198.3	6.5	335.3	0.2	0.0
HU	553.9	82.1	109.3	285.6	1972.9	0.1	235.4	307.7	740.2	726.0	0.5	1180.8	56.0	24.1
MT	240.4	51.7	36.5	83.9	805.6	0.7	81.0	74.4	232.3	354.5	4.3	1225.7	31.2	18.9
NL	255.3	342.4	826.6	1705.1	4399.5	109.7	1367.6	1913.7	8541.0	3816.5	356.0	5003.0	92.7	187.4
AT	486.2	424.2	155.4	419.4	7064.1	51.2	136.9	872.2	1436.0	1203.0	351.7	1167.9	223.3	103.6
PL	787.1	567.6	220.3	638.3	4118.6	110.2	1015.9	1697.6	2456.8	1352.6	127.5	2258.3	206.1	115.6
PT	1394.3	13.6	196.2	366.1	4999.3	0.7	1094.7	52.3	4322.9	6883.8	31.3	2021.9	0.2	3.5
RO	641.6	42.5	81.3	120.2	2502.7	0.1	224.5	472.8	1589.2	842.7	7.3	3261.3	232.1	0.0
SI	104.1	0.3	13.5	26.8	230.1	0.3	0.0	50.9	6.0	86.2	0.3	3.9	4.6	
SK	64.3	106.2	54.0	0.7	82.0	0.0	128.9	214.5	176.6	25.6	2.3	232.6	15.3	0.1
FI	189.8	50.2	317.8	924.3	1899.4	283.6	111.2	465.2	1585.5	639.2	200.2	532.5	33.3	340.3
SE	559.6	83.6	278.8	1905.8	3323.7	203.4	151.4	1262.6	3855.3	1151.4	386.2	973.7	239.1	266.4
UK	1581.7	1814.8	2050.2	3593.6	14612.8	133.1	12795.3	7179.2	45193.5	13484.2	1614.2	15076.5	3017.9	841.4

Note: (*) 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

2017

INCLUDING DOMESTIC FLIGHTS (1 000)

LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK
90.5	1.0	554.3	242.0	265.7	521.6	787.6	1 392.0	645.9	104.4	64.9	189.1	559.7	1 596.9
44.3	24.4	81.8	52.2	332.7	423.6	560.7	13.6	54.5	0.2	123.9	50.8	83.1	1 752.0
0.0	12.7	109.9	36.8	826.8	158.5	220.8	194.4	81.4	13.0	74.6	318.4	267.6	2 052.6
331.0	60.0	285.4	83.7	1 703.3	421.6	639.6	361.9	120.3	26.9	1.1	925.6	1 916.3	3 586.2
481.3	495.9	1 974.7	806.6	4 377.2	7 055.0	4 093.4	4 961.6	2 553.1	229.5	82.4	1 890.2	3 379.6	14 576.7
82.8	0.0	0.1	0.9	109.5	51.4	110.2	0.7	0.1	0.3	0.1	252.8	202.0	132.4
175.1	37.2	235.4	81.8	1 374.4	137.3	1 022.9	1 092.2	223.8	0.027	131.8	110.8	151.3	12 840.2
95.5	68.0	306.4	74.2	2 038.3	867.5	1 670.5	51.6	490.9	51.9	223.2	452.9	1 319.0	7 127.0
246.1	481.7	742.2	234.1	8 560.7	1 395.5	2 460.0	4 269.2	1 676.6	6.3	179.2	1 595.5	4 018.5	45 389.9
141.8	198.8	725.6	353.0	3 796.3	1 200.6	1 249.0	6 308.4	823.1	85.8	23.9	634.3	1 140.3	12 196.0
0.2	6.4	0.5	4.2	357.5	343.6	121.0	31.0	7.2	0.3	0.6	200.7	377.2	1 611.0
313.7	336.5	1 180.1	1 232.9	5 002.4	1 168.7	2 171.6	2 017.9	3 608.6	3.6	233.0	530.4	954.8	15 101.9
52.8	0.3	55.3	31.3	86.0	224.3	196.8	0.1	232.3	0.0	15.5	33.5	249.6	3 038.2
222.8	0.0	24.3	19.2	187.5	103.9	115.6	3.1	0.0		2.1	339.7	265.6	844.1
0.0	0.1	0.0	26.7	143.7	57.3	191.6	6.9	0.1	0.1	0.3	99.8	174.1	1 024.7
0.108	1.1	0.1	3.3	167.7	103.4	40.2	601.3	0.0	0.1	0.0	1.2	33.3	548.7
0.2	0.1	0.0	83.0	817.8	103.5	238.6	161.5	143.3	0.1	0.1	250.2	376.3	2 156.0
26.8	5.2	82.3	0.0	153.4	109.2	202.6	4.3	67.1	4.9	3.1	32.3	89.7	1 475.2
144.8	168.3	818.2	154.4	2.1	1 153.2	1 294.7	2 248.7	555.3	76.2	0.3	697.9	1 418.0	10 719.1
57.6	103.5	103.3	109.4	1 150.0	531.5	291.8	290.1	491.0	65.2	52.0	205.7	328.1	2 218.0
192.6	40.5	239.0	204.2	1 292.0	293.2	2 212.1	489.8	184.0	51.7	54.4	297.6	1 331.1	7 691.8
7.1	611.3	162.1	4.1	2 254.8	291.7	491.3	4 955.1	128.1	0.4	2.1	127.6	247.5	8 446.4
	0.0	144.0	67.7	554.6	487.1	183.6	128.4	1 369.4	0.1	18.1	20.6	178.3	2 540.4
0.1	0.1	0.1	4.7	77.1	65.5	52.0	0.4	0.0	0.0	0.2	34.8	0.2	246.3
0.2	0.0	0.5	3.1	0.3	51.9	54.3	2.0	18.0	0.1	24.2	0.4	0.4	558.2
100.4	1.1	250.0	32.4	696.4	205.9	297.8	125.2	21.5	34.8	1.0	2 758.7	1 845.6	1 293.0
175.8	33.8	377.5	90.6	1 417.4	333.7	1 331.6	243.3	178.5	0.2	0.3	1 843.3	7 859.4	2 810.7
1 042.9	550.9	2 155.2	1 481.3	10 699.7	2 222.1	7 822.4	8 378.6	2 855.3	247.4	620.1	1 292.0	2 835.1	23 417.2

2.4.2

Air

MAJOR EUROPEAN AIRLINES

DOMESTIC + INTERNATIONAL

RANKING	BILLION REVENUE PASSENGER-KILOMETRES								%
	AIRLINE		2000	2005	2010	2015	2016	2017	CHANGE '16/'17
1	Ryanair ⁽¹⁾	IE	4.772	31.205	85.690	130.564	148.644	162.544	9.35
2	Lufthansa	DE	92.160	108.185	129.668	146.317	145.878	153.168	5.00
3	British Airways	UK	119.385	107.892	106.082	142.016	144.399	147.341	2.04
4	Air France ⁽²⁾	FR	91.848	115.163	125.165	142.487	140.447	144.941	3.20
5	THY Turkish Airlines	TR	17.396	21.318	47.950	119.372	126.903	136.927	7.90
6	KLM Royal Dutch Airlines ⁽²⁾	NL	60.336	68.322	76.065	93.228	97.736	103.487	5.88
7	Easyjet ⁽³⁾	UK	3.926	27.448	56.128	77.619	81.496	89.685	10.05
8	Norwegian	NO		2.703	13.774	42.284	50.798	63.320	24.65
9	Iberia	ES	40.049	49.060	51.242	48.564	51.071	54.941	7.58
10	Wizz Air	HU			14.250	30.786	37.628	47.210	25.46
11	SWISS Intern. Airlines	CH	3.481	21.164	29.522	40.047	42.290	45.593	7.81
12	Eurowings ⁽⁴⁾	DE		4.519	6.966	15.870	20.107	42.633	112.03
13	SAS Scandinavian Airlines	SE/ DK/ NO	22.922	27.724	23.497	33.780	36.940	40.078	8.49
14	TUI Airways	UK	20.300	23.337	32.714	33.395	34.415	37.078	7.74
15	Virgin Atlantic Airways	UK	31.315	32.118	38.158	37.157	37.126	36.139	-2.66
16	Alitalia ⁽⁵⁾	IT	40.846	37.969	33.344	34.397	35.000	35.737	2.11
17	TAP Portugal	PT	10.414	14.536	23.651	29.552	28.536	34.711	21.64
18	Finnair	FI	12.587	16.735	19.222	25.592	27.065	30.750	13.61
19	Vueling	ES		1.661	9.932	24.775	28.046	29.125	3.85
20	Pegasus	TR			10.662	21.223	24.721	28.910	16.95
21	Condor	DE		22.245	19.888	27.903	27.286	28.592	4.79
22	Thomas Cook Airlines	UK	14.292	14.220	27.385	22.460	23.584	26.516	12.43
23	Air Europa	ES	8.831	13.442	17.180	22.502	23.813	25.355	6.48
24	Air Berlin	DE	7.813	20.527	46.960	47.010	45.815	24.803	-45.86
25	Aer Lingus	IE	8.808	12.563	13.895	17.531	19.194	21.412	11.56
26	Jet2	UK		3.105	6.219	12.222	14.261	20.670	44.94
27	Austrian Airlines	AT	17.967	22.894	17.494	18.190	18.609	20.018	7.57
28	Transavia Airlines	NL	7.921	8.726	10.644	12.593	13.776	15.889	15.34
29	SN Brussels Airlines	BE	3.418	4.559	7.313	11.833	12.694	15.257	20.19
30	SunExpress	TR	1.969	3.938	10.840	12.210	11.808	13.791	-3.29

Notes: 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.

⁽⁵⁾ Air One merged with Alitalia end 2008.

Air – PASSENGER TRAFFIC AT MAJOR EU AIRPORTS

2.4.3

PASSENGERS CARRIED (*)

RANKING	(arriving + departing + in transit)		MILLION PASSENGERS						CHANGE '16/'17
	AIRPORT		2000	2005	2010	2015	2016	2017	
1	London / Heathrow	UK	64.29	67.68	65.74	74.95	75.67	77.99	3.06
2	Paris / Charles de Gaulle	FR	49.67	53.38	57.93	65.67	65.85	69.42	5.42
3	Amsterdam / Schiphol	NL	39.27	44.08	45.15	58.17	63.55	68.42	7.67
4	Frankfurt (Main)	DE	48.96	51.79	52.65	60.89	60.67	64.39	6.13
5	Madrid / Barajas	ES	32.71	41.72	49.80	46.30	49.18	52.02	5.78
6	Barcelona / El Prat	ES	19.44	27.02	29.18	39.42	43.75	46.80	6.98
7	London / Gatwick	UK	31.95	32.69	31.34	40.26	43.14	45.53	5.54
8	München	DE	22.87	28.45	34.52	40.86	42.16	44.54	5.64
9	Roma / Fiumicino	IT	25.94	27.78	35.95	40.23	41.57	40.84	-1.75
10	Paris / Orly	FR	23.83	24.85	25.16	29.66	31.24	32.04	2.57
11	Dublin	IE	13.66	18.33	18.41	24.92	27.71	29.36	5.94
12	København / Kastrup	DK	18.11	19.82	21.39	26.51	28.95	29.10	0.53
13	Palma de Mallorca	ES	19.25	21.22	21.08	23.72	26.23	27.95	6.56
14	Manchester	UK	18.32	22.08	17.66	23.09	25.60	27.77	8.50
15	Lisboa	PT	9.21	11.24	14.05	20.11	22.46	26.68	18.76
16	Stockholm / Arlanda	SE	18.61	17.16	16.96	23.15	24.70	26.59	7.65
17	London / Stansted	UK	11.86	21.99	18.56	22.51	24.32	25.90	6.51
18	Brussel-Bruxelles / Brussels	BE	21.60	15.95	16.98	23.27	21.77	24.78	13.81
19	Düsseldorf	DE	15.91	15.39	18.91	22.45	23.50	24.61	4.74
20	Wien / Schwechat	AT	11.92	15.80	19.62	22.74	23.32	24.33	4.35
21	Milano / Malpensa	IT	20.55	19.49	18.71	18.44	19.31	22.04	14.11
22	Athina / Eleftherios Venizelos	EL	13.35	14.27	15.39	18.09	20.01	21.72	8.56
23	Berlin / Tegel	DE	10.24	11.47	14.97	20.99	21.24	20.45	-3.74
24	Helsinki / Vantaa	FI	10.00	11.13	12.86	16.42	17.18	18.98	10.48
25	Malaga	ES	8.26	12.61	12.02	14.36	16.62	18.57	11.77
26	Hamburg	DE	9.82	10.57	12.88	15.58	16.19	17.59	8.64
27	London / Luton	UK	6.16	9.13	8.73	12.26	14.64	15.99	9.20
28	Warszawa / Chopina	PL	4.33	7.08	8.73	11.22	12.85	15.76	22.64
29	Praha / Ruzyně	CZ	5.55	10.72	11.51	11.87	12.99	15.39	18.45
30	Alicante	ES	5.29	8.93	9.37	10.56	12.31	13.67	11.06

Note: (*) '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	2016	2017	CHANGE '16 / '17
1	Madrid / Barajas - Barcelona	4358.3	3083.8	2251.7	2328.8	2342.0	0.6
2	Toulouse / Blagnac - Paris / Orly	2327.1	2193.7	2318.1	2358.9	2325.2	-1.4
3	Paris / Orly - Nice / Côte d'Azur	2262.6	2100.3	2112.9	2124.6	2173.2	2.3
4	Catania / Fontanarossa - Roma / Fiumicino	1368.7	1717.8	1987.7	2054.4	2014.0	-2.0
5	München - Berlin / Tegel	1419.2	1580.0	1975.2	1939.6	1972.7	1.7
6	Berlin / Tegel - Frankfurt (Main)	1545.6	1609.4	1906.3	1935.0	1955.9	1.1
7	Palma De Mallorca- Barcelona	1689.3	1532.5	1576.1	1772.6	1944.7	9.7
8	Palma de Mallorca - Madrid / Barajas	1641.5	1698.9	1411.2	1687.6	1815.6	7.6
9	Dublin - London / Heathrow	2086.3	1491.3	1683.1	1750.9	1803.3	3.0
10	München - Hamburg	1450.5	1653.0	1811.0	1801.6	1740.3	-3.4
11	London / Heathrow - Amsterdam / Schiphol	1895.0	1332.9	1587.6	1616.5	1689.9	4.5
12	Thessaloniki - Athinai / Eleftherios Venizelos	1224.9	1186.2	1646.4	1809.2	1617.4	-10.6
13	Roma / Fiumicino - Palermo / Punta Raisi	1111.2	1418.6	1481.1	1595.5	1595.8	0.0
14	München - Düsseldorf	1381.5	1533.4	1552.2	1564.3	1553.0	-0.7
15	København / Kastrup - Stockholm / Arlanda	1194.1	1166.0	1458.4	1547.1	1512.8	-2.2
16	Las Palmas / Gran Canaria - Madrid / Barajas	1388.1	1553.7	1305.7	1509.0	1510.4	0.1
17	London / Heathrow - Frankfurt (Main)	1530.4	1266.1	1531.0	1493.0	1501.1	0.5
18	Barcelona - Roma / Fiumicino	556.1	376.7	1354.2	1362.5	1460.4	7.2
19	Madrid / Barajas - Lisboa	688.1	1167.2	1173.6	1294.3	1428.0	10.3
20	Frankfurt (Main) - Hamburg	1288.3	1480.6	1360.5	1371.5	1395.2	1.7
21	London / Heathrow - Madrid / Barajas	1118.9	1093.4	1321.6	1317.1	1382.5	5.0
22	Tenerife Norte - Madrid / Barajas	1359.4	1319.7	1149.5	1305.1	1380.9	5.8
23	London / Gatwick - Dublin	626.2	842.3	1083.9	1306.7	1367.2	4.6
24	Barcelona - Amsterdam / Schiphol	1108.0	1066.1	1204.8	1307.9	1363.7	4.3
25	Lisboa - Paris / Orly	556.2	604.7	1045.1	1247.1	1297.4	4.0
26	Barcelona - Paris / Charles de Gaulle	876.3	860.8	1231.4	1268.1	1290.5	1.8
27	Palma De Mallorca - Düsseldorf	980.5	911.9	1214.0	1284.9	1276.4	-0.7
28	Amsterdam / Schiphol - Paris / Charles de Gaulle	1038.7	990.2	1137.2	1182.3	1263.5	6.9
29	Köln-Bonn - Berlin / Tegel	916.6	1026.9	1258.9	1270.8	1232.3	-3.0
30	Paris / Orly - Pointe-à-Pitre (Guadeloupe) / Pôle Caraïbes	983.3	1036.0	1165.6	1213.0	1226.8	1.1

Air – MAIN CONNECTIONS BETWEEN EU & 2.4.4b NON-EU AIRPORTS IN PASSENGER TRANSPORT

TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport) 1 000						%
	AIRPORT PAIRS	2005	2010	2015	2016	2017	CHANGE '16/'17
1	London / Heathrow - New York / J.F. Kennedy Intl, NY, USA	2 940	2 517	3 050	2 935	2 946	0.4
2	London / Heathrow - Dubai Intl, United Arab Emirates	1 183	1 787	2 452	2 651	2 873	8.4
3	London / Heathrow - Los Angeles Intl, CA, USA	1 383	1 189	1 519	1 530	1 601	4.6
4	London / Heathrow - Hong Kong Intl, China	1 258	1 386	1 584	1 575	1 589	0.9
5	Paris / Charles de Gaulle - New York / J.F. Kennedy Intl, NY, USA	1 730	1 190	1 503	1 424	1 553	9.1
6	København / Kastrup - Oslo / Gardermoen, Norway	1 247	1 132	1 423	1 509	1 550	2.7
7	Stockholm / Arlanda - Oslo / Gardermoen, Norway	937	1 007	1 336	1 394	1 396	0.2
8	London / Heathrow - Doha / Hamad Intl, Qatar			1 072	1 207	1 287	6.7
9	London / Heathrow - Singapore / Changi, Singapore	996	1 022	1 150	1 198	1 235	3.0
10	Paris / Charles de Gaulle - Montreal / Pierre Elliot Trudeau Intl, Canada	929	1 148	1 147	1 150	1 183	2.8
11	Paris / Charles de Gaulle - Dubai Intl, United Arab Emirates	439	716	1 077	1 102	1 149	4.3
12	London / Heathrow - Zürich, Switzerland	905	877	1 075	1 102	1 140	3.4
13	London / Heathrow - Chicago / O'Hare Intl, IL, USA	1 522	1 137	1 060	1 073	1 062	-1.0
14	London / Heathrow - Genève / Cointrin, Switzerland	570	859	1 022	1 054	1 056	0.3
15	London / Heathrow - Toronto / Lester B. Pearson Intl, Canada	1 067	941	1 032	1 054	1 048	-0.5
16	London / Heathrow - New Delhi / Indira Gandhi Intl, India	384	918	1 034	1 042	1 023	-1.8
17	London / Heathrow - Istanbul / Atatürk, Turkey	525	725	933	956	1 021	6.8
18	London / Heathrow - Newark / Liberty Intl, NJ, USA	740	1 092	1 000	945	1 021	8.0
19	London / Heathrow - San Francisco Intl, CA, USA	1 005	861	1 047	1 017	1 010	-0.7
20	London / Heathrow - Abu Dhabi Intl, United Arab Emirates	362	504	836	929	1 004	8.1
21	Wien / Schwechat - Zürich, Switzerland	597	778	963	988	995	0.7
22	Manchester - Dubai Intl, United Arab Emirates	370	566	861	933	991	6.3
23	London / Heathrow - Miami Intl, FL, USA	878	822	1 031	1 030	985	-4.4
24	Frankfurt (Main) - Dubai Intl, United Arab Emirates	491	679	903	944	984	4.3
25	Berlin / Tegel - Zürich, Switzerland	467	801	986	1 007	981	-2.6
26	London / Gatwick - Dubai Intl, United Arab Emirates	483	629	867	921	966	4.9
27	London / Heathrow - Mumbai / Chhatrapati Shivaji Intl, India	725	957	949	917	964	5.2
28	London / Heathrow - Johannesburg Intl, South Africa				883	955	8.1
29	Amsterdam / Schiphol - Zürich, Switzerland	549	612	761	801	940	17.4
30	Paris / Charles de Gaulle - Istanbul / Atatürk, Turkey	415	688	921	943	918	-2.7

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	2016	2017	CHANGE '16/'17
1	Frankfurt (Main)	DE	1 703.4	1 950.6	2 270.2	2 075.7	2 111.4	2 193.4	3.89
2	Paris / Charles de Gaulle	FR	1 067.0	1 217.8	1 290.9	2 090.6	2 211.3	2 161.3	-2.26
3	London / Heathrow	UK	1 306.8	1 389.3	1 551.3	1 588.9	1 637.6	1 791.6	9.40
4	Amsterdam / Schiphol	NL	1 222.5	1 495.6	1 538.0	1 655.3	1 771.1	1 778.2	0.40
5	Leipzig-Halle	DE	13.7	12.3	637.8	982.5	1 045.0	1 130.5	8.19
6	Luxembourg	LU	499.9	624.8	705.8	736.9	801.1	892.7	11.44
7	Köln-Bonn	DE	438.3	646.8	638.2	739.5	768.1	822.2	7.03
8	Liège / Bierset	BE	270.3	325.7	508.5	625.3	592.1	695.8	17.50
9	Milano / Malpensa	IT	295.7	383.8	432.7	511.2	548.8	589.5	7.43
10	Brussel-Bruxelles / Brussels	BE	687.4	694.5	385.0	483.1	472.7	530.1	12.15
11	Madrid / Barajas	ES	280.4	360.3	400.5	382.6	404.3	450.0	11.30
12	München	DE	148.4	218.2	291.1	336.0	353.5	378.6	7.11
13	Nottingham East Midlands	UK	178.8	292.1	304.0	321.2	319.6	345.7	8.17
14	London / Stansted	UK	167.8	254.8	229.8	226.8	245.7	255.1	3.85
15	Wien / Schwechat	AT	65.9	180.0	231.8	209.1	216.4	220.8	2.04
16	København / Kastrup	DK	419.4	355.1	138.1	196.6	185.7	219.4	18.16
17	Roma / Fiumicino	IT	153.3	131.9	164.4	145.0	160.9	185.9	15.53
18	Helsinki / Vantaa	FI	96.1	114.9	157.5	177.4	182.2	185.2	1.65
19	Dublin	IE	35.5	64.1	105.3	137.3	134.2	144.9	7.97
20	Barcelona	ES	75.5	94.5	105.9	102.2	114.6	139.0	21.26
21	Lisboa	PT	114.6	100.0	105.2	100.8	101.6	126.0	23.95
22	Bergamo / Orio al Serio	IT	98.9	135.1	105.8	121.0	117.7	125.9	6.97
23	Manchester	UK	116.6	150.0	116.6	103.0	112.4	122.6	9.1
24	Frankfurt / Hahn	DE	75.0	100.9	164.5	73.2	62.4	111.7	78.94
25	Stockholm / Arlanda	SE	154.0	158.0	99.4	90.7	94.4	107.4	13.80
26	Zaragoza	ES	3.2	3.8	42.1	65.1	76.2	104.4	37.07
27	Düsseldorf	DE	59.4	56.5	87.1	90.2	93.5	101.7	8.76
28	London / Gatwick	UK	318.8	232.1	108.6	77.9	84.0	101.6	20.97
29	Paris / Orly	FR	107.3	80.0	53.8	126.3	101.9	98.5	-3.37
30	Warszawa / Chopina	PL	44.6	31.1	57.1	72.3	85.8	98.2	14.43
31	Budapest / Ferihegy	HU	43.5	55.5	65.3	65.8	77.5	87.3	12.56
32	Maastricht-Aachen	NL	44.3	54.6	62.0	56.6	60.6	86.9	43.45
33	Praha / Ruzyně	CZ		51.6	58.2	50.5	71.0	82.2	15.68
34	Toulouse / Blagnac	FR	37.8	56.2	52.2	61.0	66.9	72.3	8.11
35	Athinai / Eleftherios Venizelos	EL	123.4	100.7	84.0	58.1	65.2	66.0	1.14

Notes: 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.

Sources: Eurostat, airport websites (*in italics*)

Air – AIRCRAFT TRAFFIC AT MAJOR EU AIRPORTS

2.4.6

COMMERCIAL AIR FLIGHTS (PASSENGERS, FREIGHT & MAIL)

RANKING	(not including general aviation)		1 000					CHANGE '16/'17
	AIRPORT		2005	2010	2015	2016	2017	
1	Amsterdam / Schiphol	NL	408.2	390.4	455.2	483.4	498.5	3.1
2	London / Heathrow	UK	472.0	449.2	472.1	473.2	474.6	0.3
3	Paris / Charles de Gaulle	FR	543.8	477.9	468.5	470.3	473.0	0.6
4	Frankfurt (Main)	DE	475.6	456.0	460.5	456.3	468.8	2.7
5	München	DE	382.3	368.2	365.7	380.0	389.8	2.6
6	Madrid / Barajas	ES	406.3	426.9	357.7	359.7	367.9	2.3
7	Roma / Fiumicino	IT	299.6	327.3	311.8	310.8	296.0	-4.8
8	Barcelona	ES	294.3	268.5	279.0	294.7	310.2	5.3
9	London / Gatwick	UK	252.0	233.5	262.5	277.1	283.0	2.1
10	København / Kastrup	DK	262.1	240.6	250.2	259.2	253.0	-2.4
11	Stockholm / Arlanda	SE	222.2	185.4	216.9	224.9	239.0	6.3
12	Paris / Orly	FR	231.0	215.5	231.3	234.4	229.0	-2.3
13	Brussel-Bruxelles / Brussels	BE	228.7	205.2	221.1	205.8	224.8	9.2
14	Wien / Schwechat	AT	227.5	243.0	224.8	224.4	222.3	-0.9
15	Düsseldorf	DE	189.0	211.4	202.8	209.4	212.6	1.5
16	Dublin	IE	169.6	156.4	188.8	204.5	212.2	3.8
17	Lisboa	PT	125.9	136.9	162.8	179.1	199.9	11.6
18	Manchester	UK	218.0	148.9	164.7	184.6	196.1	6.2
19	Palma De Mallorca	ES	170.5	165.2	170.0	185.4	195.9	5.7
20	Athinai / Eleftherios Venizelos	EL	170.4	181.6	167.9	181.4	190.2	4.9
21	Milano / Malpensa	IT	222.2	187.8	154.6	160.5	174.5	8.7
22	London / Stansted	UK	178.0	143.0	154.5	164.2	172.2	4.9
23	Berlin / Tegel	DE	137.2	150.5	177.9	179.9	167.6	-6.8
24	Helsinki / Vantaa	FI	163.1	169.9	165.3	158.1	167.5	6.0
25	Warszawa / Chopina	PL	131.1	133.0	136.4	146.7	164.7	12.3
26	Hamburg	DE	134.2	138.4	142.1	144.3	145.2	0.6
27	Nice / Côte d'Azur	FR	158.1	132.1	139.8	143.8	145.0	0.9
28	Praha / Ruzyně	CZ	150.2	147.9	120.1	256.7	134.1	-47.8
29	Köln-Bonn	DE	139.9	120.6	114.8	123.6	128.4	3.9
30	Malaga	ES	111.1	97.3	101.0	113.1	125.5	11.0
31	Edinburgh	UK	116.0	100.6	107.2	116.3	122.5	5.3
32	Birmingham	UK	113.0	84.8	89.8	104.6	112.5	7.6
33	București / Henri Coandă	RO	90.2	128.1	90.8	101.9	110.8	8.7
34	Lyon / Saint Exupéry	FR	130.1	115.4	105.0	106.9	108.6	1.6
35	Las Palmas / Gran Canaria	ES	98.4	93.2	89.9	101.1	108.1	6.9
36	London / Luton	UK	75.4	68.6	87.4	102.9	106.1	3.0
37	Stuttgart	DE	135.0	111.7	105.0	105.1	104.9	-0.2
38	Milano / Linate	IT	93.1	91.5	95.9	97.7	96.4	-1.3
39	Budapest / Ferihegy	HU	116.7	99.6	86.0	89.3	95.4	6.8
40	Berlin / Schönefeld	DE	46.5	65.5	67.5	88.1	93.2	5.8

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		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
EU-28	192120	192249	200969	6113	6479	7010			
BE	177	167	159	245	391	475			
BG	0	0	0	0	0		18	8	3
CZ	-	-	-	-	-	-	-	-	-
DK	20671	20629	21297	183	170	211	399	500	589
DE	14321	14609	14200	622	813	1121			
EE	7056	7129	7395	6	6	7	493	497	591
IE	1358	1360	1392	1	3	2	242	220	262
EL	32654	32394	34802	197	236	219			
ES	11113	11732	12473	1187	1417	1404	5669	5401	5814
FR	12646	11953	12283	467	372	358	2780	3319	3655
HR	13948	15041	15937	26	35	38	1242	1323	1196
IT	33159	31828	35060	1986	1849	1875	4649	3598	3132
CY	1	1	25	34	28	21	103	80	64
LV	317	346	487				69	72	88
LT	136	144	141				60	64	75
LU	-	-	-	-	-	-	-	-	-
HU	-	-	-	-	-	-	-	-	-
MT	4886	5290	5540	70	58	104	538	575	581
NL	941	997	963						
AT	-	-	-	-	-	-	-	-	-
PL	1205	1297	1292	0	0	0			
PT	268	314	338	24	26	31	654	591	661
RO				0	0	0	31	7	2
SI	17	14	19				61	81	70
SK	-	-	-	-	-	-	-	-	-
FI	9480	9657	9792			7	440	408	490
SE	14890	15027	15298	95	66	86	559	468	528
UK	12876	12321	12076	969	1009	951			
IS	369	274	459				262	242	399
NO	3420	2936	2971	74	94	108	538	498	455
ME	48	58	62						
TR	897	550	626	254	73	58			

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		
	2015	2016	2017	2015	2016	2017
EU-28	191 002	191 357	199 820	6 197	6 438	7 010
BE	176	169	161	245	391	475
BG	2	3	2	0		
CZ	-	-	-	-	-	-
DK	20 609	20 613	21 165	184	172	214
DE	14 540	14 638	14 326	603	788	1 126
EE	7 097	7 192	7 441	6	6	7
IE	1 392	1 352	1 378	1	3	3
EL	32 640	32 392	34 782	188	227	220
ES	11 050	11 766	12 423	1 172	1 409	1 500
FR	12 557	11 823	12 093	463	367	359
HR	13 271	14 549	15 314	26	35	37
IT	32 971	31 754	35 069	2 152	1 841	1 872
CY			26	33	30	0
LV	344	377	507			
LT	150	159	156			
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT	4 884	5 286	5 535	70	56	107
NL	969	908	965			
AT	-	-	-	-	-	-
PL	1 217	1 305	1 293	0	0	0
PT	268	314	338	23	25	32
RO				0	0	0
SI	17	14	19			
SK	-	-	-	-	-	-
FI	9 404	9 565	9 689			
SE	14 467	14 656	14 793	49	53	88
UK	12 978	12 522	12 343	982	1 035	968
IS	368	271	458			
NO	3 214	3 224	3 272	5	12	1
ME	51	52	57			
TR	809	551	633	272	77	61

2.4.8

Sea – PASSENGER TRAFFIC AT MAJOR EU SEAPORTS

PASSENGERS EMBARKED AND DISEMBARKED

RANKING	1 000							%
	PORT		2005	2010	2015	2016	2017	CHANGE '16/'17
1	Helsinki	FI	8854	9849	11 214	11 565	11 769	1.8
2	Dover	UK	13 501	13 361	13 082	12 097	11 762	-2.8
3	Tallinn	EE	6 701	7 523	9 299	9 676	9 969	3.0
4	Messina	IT	9 802	10 765	7 021	6 139	9 250	50.7
5	Calais	FR	11 695	10 237	9 757	9 090	8 990	-1.1
6	Stockholm	SE	8 211	9 147	9 887	9 980	8 631	-13.5
7	Reggio di Calabria	IT	9 645	9 891	6 053	5 569	8 602	54.5
8	Peiraias	EL	11 076	10 944	8 169	8 038	8 591	6.9
9	Helsingborg	SE	11 102	8 540	7 670	7 514	7 319	-2.6
10	Helsingør (Elsinore)	DK	11 023	8 534	7 644	7 526	7 310	-2.9
11	Paloukia Salaminas	EL	11 663	12 705	7 050	6 639	6 881	3.6
12	Perama	EL	11 663	12 705	7 050	6 639	6 881	3.6
13	Palma Mallorca	ES	4 817	4 496	5 496	6 431	6 862	6.7
14	Napoli	IT	6 084	8 356	6 484	5 993	6 159	2.8
15	Puttgarden	DE	6 760	6 261	6 141	6 024	5 870	-2.6
16	Rødby (Færgehavn)	DK	6 761	6 261	6 139	6 016	5 869	-2.4
17	Algeciras	ES	4 829	4 663	5 473	5 599	5 525	-1.3
18	Cirkewwa	MT	3 463	4 031	4 740	5 133	5 384	4.9
19	Mgarr, Gozo	MT	3 463	4 031	4 740	5 133	5 384	4.9
20	Santa Cruz de Tenerife	ES	4 249	4 110	4 320	4 521	5 058	11.9
21	Split	HR	3 267	3 523	3 992	4 258	4 385	3.0
22	Capri	IT	3 860	6 517	4 355	3 859	4 253	10.2
23	Piombino	IT	3 277	3 477	3 517	3 703	3 354	-9.4
24	Turku	FI	3 697	3 498	3 256	3 259	3 250	-0.3
25	Rostock	DE	2 417	2 195	2 863	2 833	3 186	12.5
26	Mariehamn	FI	3 192	3 302	3 043	2 998	3 067	2.3
27	Sjællands Odde	DK	2 310	1 777	2 690	2 780	2 950	6.1
28	Porto d'Ischia	IT	3 169	2 589	2 769	2 893	2 942	1.7
29	Århus	DK	1 710	1 284	2 532	2 629	2 871	9.2
30	Barcelona	ES	1 575	2 358	2 327	2 810	2 860	1.8
31	Olbia	IT	3 253	3 863	2 598	2 747	2 784	1.3
32	Portoferraio	IT	2 829	2 769	2 945	3 218	2 768	-14.0
33	Igoumenitsa	EL	2 338	2 726	2 532	2 452	2 696	10.0
34	Dunkerque	FR	813	2 533	3 198	2 916	2 672	-8.4
35	Norddeich	DE	2 257	2 287	2 497	2 561	2 580	0.7
36	Hirtshals	DK	1 959	2 178	2 567	2 581	2 530	-2.0
37	Civitavecchia	IT	2 099	2 440	2 236	2 033	2 284	12.3
38	Norderney	DE	1 990	2 093	2 162	2 227	2 260	1.5
39	Zadar	HR	1 924	2 145	1 873	2 111	2 234	5.8
40	Bastia	FR	2 028	2 524	2 048	2 280	2 158	-5.4

Sea – FREIGHT TRAFFIC AT MAJOR EU SEAPORTS

2.4.9

TONNES LOADED AND UNLOADED

RANKING	MILLION							%
	PORT		2005	2010	2015	2016	2017	CHANGE '16/'17
1	Rotterdam	NL	345.8	395.8	436.9	431.9	433.3	0.3
2	Antwerpen	BE	145.8	160.0	190.1	198.7	201.2	1.3
3	Hamburg	DE	108.3	104.5	120.2	120.3	118.8	-1.3
4	Amsterdam	NL	69.3	89.9	98.8	96.3	98.5	2.3
5	Algeciras	ES	55.2	58.6	79.4	83.4	83.5	0.1
6	Marseille	FR	93.3	82.4	77.5	76.4	75.6	-1.1
7	Le Havre	FR	70.8	65.8	62.9	60.0	66.1	10.1
8	Valencia	ES	35.0	53.1	57.6	58.3	60.1	3.1
9	Trieste	IT	43.4	40.6	49.1	49.3	55.2	11.9
10	Immingham	UK	60.7	54.0	59.1	54.4	54.0	-0.7
11	Genoa	IT	42.6	41.4	43.4	45.0	50.7	12.5
12	London	UK	53.8	48.1	45.4	50.4	49.9	-1.0
13	Barcelona	ES	37.1	35.3	38.0	39.1	49.7	27.1
14	Bremerhaven	DE	33.7	45.9	49.8	52.3	49.3	-5.7
15	Sines	PT	24.9	24.7	41.2	48.1	46.5	-3.3
16	Peiraia	EL	18.7	13.1	38.3	41.0	45.2	10.2
17	Göteborg	SE	36.5	42.9	37.8	41.0	40.5	-1.1
18	Klaipeda	LT	20.0	28.9	34.4	36.9	40.0	8.4
19	Dunkerque	FR	48.5	36.3	36.9	36.9	39.1	6.0
20	Constanta	RO	44.4	30.4	36.3	37.5	37.3	-0.6
21	Southampton	UK	39.9	39.4	37.7	36.0	34.5	-4.4
22	Cartagena	ES	26.7	19.0	32.4	31.5	34.5	9.3
23	Zeeland Seaports	NL			33.6	33.3	34.1	2.7
24	Gdansk	PL	22.5	26.4	31.7	31.6	33.9	7.5
25	Gent (Ghent)	BE	22.1	27.6	26.1	30.0	33.7	12.5
26	Tarragona	ES	30.7	32.1	32.8	31.2	33.4	7.2
27	Bilbao	ES	32.2	32.4	31.0	30.4	32.6	7.0
28	Liverpool	UK	33.8	30.0	31.3	31.9	32.5	2.0
29	Huelva	ES	20.9	22.1	27.2	30.4	32.2	5.9
30	Riga	LV	24.4	29.1	39.4	35.8	32.1	-10.4
31	Milford Haven	UK	37.5	42.8	37.7	34.8	32.0	-8.0
32	Nantes Saint-Nazaire	FR	34.0	30.6	24.9	24.8	29.3	18.0
33	Ravenna	IT	24.3	22.2	25.3	27.5	29.2	6.0
34	Felixstowe	UK	23.1	25.8	28.0	28.2	29.0	2.9
35	Tees & Hartlepool	UK	55.8	35.7	35.8	26.9	28.4	5.9
36	Livorno	IT	24.0	22.7	29.3	27.0	28.2	4.5
37	Wilhelmshaven	DE	46.0	24.7	27.4	24.5	28.2	15.3
38	Forth	UK	34.2	34.3	27.1	27.4	27.5	0.4
39	Dover	UK	21.1	24.1	27.3	27.3	26.2	-4.0
40	Venezia	IT	30.5	26.2	25.1	25.2	25.1	-0.4

2.4.10a

Sea – INTRA-EU

MARITIME TRANSPORT – BY COUNTRY

(1) RELEVANCE OF INTRA-EU TRANSPORT
IN TOTAL MARITIME TRANSPORT BY EU COUNTRY 2017

	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	140.0	46.8	33.5 %	117.8	38.2	32.4 %
BG	14.2	1.2	8.6 %	16.8	5.5	32.5 %
DK	48.4	30.8	63.7 %	35.1	28.3	80.7 %
DE	179.2	70.8	39.5 %	120.0	55.4	46.1 %
EE	9.7	6.5	67.1 %	21.4	13.0	60.6 %
IE	33.7	23.6	70.1 %	17.5	15.8	90.5 %
EL	85.3	37.4	43.9 %	76.8	42.9	55.9 %
ES	272.9	81.9	30.0 %	212.9	70.6	33.1 %
FR	203.3	62.5	30.7 %	94.7	54.1	57.2 %
HR	13.8	3.1	22.5 %	5.1	2.5	48.0 %
IT	298.5	133.8	44.8 %	167.4	129.6	77.4 %
CY (**)	5.4	3.7	69.0 %	2.5	0.5	18.5 %
LV	6.7	4.3	64.8 %	50.5	36.9	73.1 %
LT	18.3	5.3	28.8 %	31.5	15.8	50.1 %
MT	3.7	2.4	65.8 %	0.4	0.2	46.9 %
NL	401.3	95.4	23.8 %	194.5	60.4	31.1 %
PL	48.5	16.7	34.5 %	29.1	21.0	72.3 %
PT	55.8	21.2	38.0 %	36.1	18.2	50.5 %
RO (**)	21.1	1.4	6.7 %	24.5	8.5	34.8 %
SI	15.5	3.7	23.7 %	6.8	2.4	35.0 %
FI	51.5	32.2	62.5 %	56.3	47.6	84.5 %
SE	94.0	68.1	72.4 %	82.0	71.2	86.9 %
UK	293.0	166.2	56.7 %	177.6	131.9	74.3 %

Notes: 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 2017

	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	99.710
				2	UK	UK	57.156
BE	257.7	84.9	32.9 %	3	NETHERLANDS	UK	44.919
BG	31.0	6.7	21.5 %	4	SPAIN	SPAIN	39.840
DK	81.4	57.0	70.0 %	5	UK	NETHERLANDS	37.860
DE	295.4	122.3	41.4 %	6	GREECE	GREECE	28.837
EE	31.1	19.5	62.6 %	7	FRANCE	UK	21.463
IE	51.1	39.4	77.1 %	8	SWEDEN	SWEDEN	19.927
EL	140.1	58.4	41.7 %	9	UK	FRANCE	17.992
ES	459.1	125.8	27.4 %	10	SWEDEN	GERMANY	16.355
FR	291.8	110.4	37.8 %	11	FRANCE	FRANCE	15.256
HR	18.3	4.9	26.7 %	12	BELGIUM	UK	14.859
IT	371.3	168.9	45.5 %	13	UK	IRELAND	13.717
CY (**)	7.9	4.2	53.1 %	14	FINLAND	GERMANY	13.267
LV	56.8	40.9	71.9 %	15	UK	GERMANY	12.767
LT	49.9	21.1	42.3 %	16	SWEDEN	UK	12.687
MT	4.1	2.6	63.7 %	17	DENMARK	DENMARK	12.564
NL	595.8	155.8	26.1 %	18	ITALY	SPAIN	12.329
PL	76.7	36.8	48.0 %	19	SPAIN	ITALY	12.125
PT	86.4	34.0	39.3 %	20	GERMANY	SWEDEN	12.055
RO (**)	45.6	9.9	21.8 %	21	NETHERLANDS	FRANCE	11.587
SI	22.3	6.1	27.1 %	22	UK	BELGIUM	11.009
FI	103.6	75.5	72.9 %	23	DENMARK	SWEDEN	10.964
SE	172.0	135.4	78.7 %	24	GERMANY	DENMARK	9.906
UK	437.8	265.3	60.6 %	25	SWEDEN	FINLAND	9.852
				26	IRELAND	UK	9.602
				27	SPAIN	UK	8.923
				28	LATVIA	NETHERLANDS	8.371
				29	SPAIN	FRANCE	8.233
				30	SPAIN	NETHERLANDS	8.163

Note: 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	2016	2017	CHANGE '16/'17
1	Rotterdam	NL	9 194.6	11 017.5	11 577.2	11 674.5	12 891.9	10.4
2	Antwerpen	BE	6 220.9	8 144.4	9 370.3	9 890.7	10 032.2	1.4
3	Hamburg	DE	8 084.3	7 905.5	8 847.9	8 928.6	8 860.0	-0.8
4	Bremerhaven	DE	3 696.1	4 858.3	5 466.8	5 510.4	5 458.4	-0.9
5	Valencia	ES	2 415.2	4 211.2	4 608.7	4 693.0	4 813.9	2.6
6	Algeciras	ES	3 183.9	2 776.9	4 515.8	4 762.1	4 380.8	-8.0
7	Felixstowe	UK	2 759.7	3 415.1	4 042.7	4 015.8	4 160.4	3.6
8	Piraeus	EL	1 401.1	850.3	3 359.6	3 735.8	4 120.3	10.3
9	Gioia Tauro	IT	3 123.2	3 896.7	3 030.0	3 796.3	3 391.1	-10.7
10	Barcelona	ES	2 071.4	1 928.0	1 949.7	2 224.7	2 997.6	34.7
11	Le Havre	FR	2 144.3	2 369.3	2 560.1	2 479.5	2 798.6	12.9
12	Genova	IT	1 037.6	1 020.0	2 079.1	2 356.5	2 332.5	-1.0
13	Southampton	UK	1 384.2	1 566.5	1 956.4	2 040.0	2 008.1	-1.6
14	Sines	PT	51.0	382.1	1 332.2	1 513.1	1 669.1	10.3
15	La Spezia	IT	915.6	1 180.6	1 578.9	1 605.4	1 611.6	0.4
16	Gdansk	PL	63.3	509.9	1 041.3	1 559.2	1 472.7	-5.5
17	London	UK	765.1	732.7	1 184.5	1 492.4	1 375.1	-7.9
18	Marseille	FR	910.6	1 030.9	1 255.8	1 244.1	1 362.2	9.5
19	Las Palmas	ES	1 222.4	1 118.0	883.3	897.9	1 153.6	28.5
20	Koper	SI	210.3	481.0	802.7	845.5	919.7	8.8
21	Livorno	IT	461.4	369.9	652.8	652.7	787.3	20.6
22	Liverpool	UK	613.1	662.0	681.9	729.1	761.6	4.5
23	Dublin	IE	590.2	554.0	627.7	663.7	696.8	5.0
24	Constanta	RO	867.0	548.1	689.5	706.2	692.0	-2.0
25	Gdynia	PL	392.9	477.0	676.4	656.7	689.6	5.0
26	Trieste	IT	182.7	261.1	628.0	579.1	652.7	12.7
27	Thessaloniki	EL	372.5	289.2	591.4	598.2	650.0	8.7
28	Göteborg	SE	771.7	891.5	809.6	795.2	638.8	-19.7
29	Hamina-Kotka	FI	376.5	402.4	487.4	566.6	632.4	11.6
30	Bilbao	ES	862.9	532.0	627.9	598.1	605.4	1.2
31	Leixões	PT	351.8	481.8	568.3	602.5	580.6	-3.6
32	Wilhelmshaven	DE	2.7	0.0	611.0	494.5	526.4	6.5
33	Århus	DK	397.2	446.3	445.2	455.3	513.5	12.8
34	Venezia	IT	196.0	237.7	476.0	395.1	508.5	28.7
35	Lisboa	PT	512.2	512.0	482.6	392.6	497.1	26.6
36	Klaipeda	LT	214.3	295.2	350.4	441.7	474.2	7.4
37	Helsinki	FI	460.2	400.7	411.1	426.7	456.8	7.1
38	Riga	LV	157.8	254.6	355.4	388.0	449.9	16.0
39	Santa Cruz de Tenerife	ES	410.6	329.8	308.7	328.3	430.4	31.1
40	Lemesos (Limassol)	CY	320.8	332.5	308.4	360.8	393.1	9.0

Note: 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%
2006	45.4	3%	53%	44%
2007	46.1	3%	56%	41%
2008	46.0	3%	52%	45%
2009	38.9	4%	52%	44%
2010	42.4	5%	58%	37%
2011	42.6	7%	56%	37%
2012	39.1	3%	59%	38%
2013	40.7	2%	60%	38%
2014	52.2	2%	53%	45%
2015	55.0	1%	50%	49%
2016	58.3	1%	46%	53%
2017	75.1	1%	42%	57%
2018	75.7	2%	44%	54%

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

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

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

2012 data do not include 2 former UIRR members. Since 2013, data includes performance of two new UIRR members and since 2014 of other 4 new members.

2.4.13

Road

ALPS CROSSING FREIGHT TRAFFIC

ALPINE ARC: MONTGENÈVRE TO BRENNER

MILLION TONNES					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
1985	1.9	0.8	15.0	12.3	30.0
1990	3.1	1.1	14.6	21.8	40.6
1995	5.5	1.1	21.0	25.8	53.4
2000	7.6	1.3	26.6	27.2	62.7
2005	10.2	2.8	33.6	20.8	67.4
2010	10.8	3.5	28.7	20.2	63.2
2015	8.7	3.3	32.2	19.5	63.7
2016	8.4	3.3	34.6	19.8	66.2
2017	8.6	3.1	36.8	21.2	69.7
AVERAGE ANNUAL CHANGE					
'85/'00	9.7 %	3.3 %	3.9 %	5.4 %	5.0 %
'00/'17	0.7 %	5.3 %	1.9 %	- 1.5 %	0.6 %
'16/'17	1.6 %	- 4.8 %	6.2 %	6.6 %	5.2 %

Note: 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

Note: Internal, import, export and transit traffic.

Road

PYRENEES CROSSING TRAFFIC

2.4.14

GOODS TRAFFIC

VEHICLES PER DAY			
	West coast Irun Bariatou	East coast La Jonquera Le Perthus	Other crossings
TOTAL			
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

PASSENGER CAR TRAFFIC

VEHICLES PER DAY			
	West coast Irun Bariatou	East coast La Jonquera Le Perthus	Other crossings
TOTAL			
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

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

2.4.15

Rail – TRAFFIC MEASURED IN TRAIN-KILOMETRES

million train-km						%	Of which: % of passenger traffic	Of which: % of freight traffic
	2005	2010	2015	2016	2017	CHANGE '16/'17	2017	2017
EU-28	3 967.6	4 005.4	4 086.6	4 100.9	4 240.8	3.4	82 %	18 %
BE	92.6	95.1	95.2	96.1	98.7	2.7	86 %	14 %
BG	33.5	29.3	28.6	29.5	29.0	-1.7	69 %	31 %
CZ	147.7	155.1	157.3	159.4	163.6	2.6	81 %	19 %
DK	75.0	78.3	78.8	78.2	77.1	-1.5	95 %	5 %
DE	986.7	992.4	1 032.6	1 031.0	1 078.8	4.6	75 %	25 %
EE	8.9	7.4	8.0	8.8	8.1	-7.7	68 %	32 %
IE	16.0	18.3	18.2	17.4	17.6	1.1	98 %	2 %
EL	17.7	17.0	10.8	10.0	10.4	3.7	92 %	8 %
ES	199.4	206.0	209.1	205.0	212.5	3.6	88 %	12 %
FR	505.8	458.0	460.0	444.8	458.3	3.0	85 %	15 %
HR	26.1	25.8	19.7	22.3	21.0	-5.7	72 %	28 %
IT	373.3	356.1	366.4	375.2	377.6	0.7	88 %	12 %
CY	-	-	-	-	-	-	-	-
LV	18.9	16.6	17.2	15.3	14.5	-5.0	42 %	58 %
LT	14.3	14.4	14.0	14.3	15.2	6.5	41 %	59 %
LU	7.6	8.0	8.9	8.2	8.2	-0.2	94 %	6 %
HU	93.7	100.4	102.6	105.0	98.8	-5.9	84 %	16 %
MT	-	-	-	-	-	-	-	-
NL	133.8	139.1	149.4	152.0	154.2	1.4	95 %	5 %
AT	143.9	151.8	153.4	153.7	156.4	1.8	73 %	27 %
PL	207.2	211.7	204.6	221.3	283.2	28.0	75 %	25 %
PT	37.7	40.0	37.1	36.7	37.1	1.1	83 %	17 %
RO	94.5	86.3	79.9	80.8	81.1	0.3	80 %	20 %
SI	18.6	18.6	17.7	18.8	19.9	5.9	52 %	48 %
SK	47.3	44.0	46.0	46.8	45.3	-3.3	73 %	27 %
FI	48.2	51.0	48.6	46.8	47.3	1.0	72 %	28 %
SE	127.7	140.6	152.7	157.7	160.4	1.7	77 %	23 %
UK	491.4	544.0	569.8	565.6	566.5	0.2	94 %	6 %
AL								
ME			1.4	1.5	1.6	7.5	77 %	23 %
MK		2.8	2.2	2.0	1.1	-9.7	70 %	30 %
RS								
TR	44.9	38.8	41.1	41.7	42.3	1.6	49 %	51 %
IS	-	-	-	-	-	-	-	-
NO	41.1	43.8	48.6	47.4	49.1	-2.3	84 %	16 %
CH	0.0	210.5	222.7	227.4	226.1	2.1	87 %	13 %

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	2016	2017	2017	2017
BE	0.2 %	3.3 %			0.0 %	
BG	2.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CZ	0.2 %	5.0 %		12.6 %	1.5 %	72.0 %
DK	18.0 %	7.0 %	12.0 %		7.2 %	
DE	8.0 %	13.5 %	15.7 %	15.9 %	26.6 %	0.8 %
EE	50.0 %	0.0 %	6.0 %	5.6 %	0.0 %	100.0 %
IE	0.0 %		0.0 %	0.0 %	0.0 %	100.0 %
EL	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
ES	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
FR	1.0 %	5.0 %	0.0 %	1.0 %	0.0 %	1.0 %
HR	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
IT	8.3 %	23.0 %	25.2 %	25.0 %	24.3 %	25.5 %
CY	-	-	-	-	-	-
LV	10.5 %	8.3 %	7.0 %	7.2 %	0.1 %	99.9 %
LT	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
LU		0.0 %	0.0 %		0.0 %	0.0 %
HU	1.8 %	3.5 %	3.5 %	3.4 %	3.3 %	4.5 %
MT	-	-	-	-	-	-
NL	4.8 %	14.9 %	5.0 %	5.0 %	5.0 %	
AT	5.4 %	12.2 %	11.7 %	11.5 %	6.9 %	21.1 %
PL	48.3 %	51.7 %	44.7 %	43.1 %	48.2 %	2.2 %
PT	9.0 %	5.4 %	8.3 %	14.5 %	100.0 %	6.9 %
RO	3.9 %				9.8 %	
SI	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SK	0.0 %	6.0 %	15.3 %	4.1 %	2.6 %	26.7 %
FI	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SE		33.5 %	35.2 %	43.2 %	71.0 %	14.0 %
UK	89.9 %		86.9 %	87.3 %	86.9 %	100.0 %
NO	12.0 %	10.7 %	9.1 %	10.0 %	10.0 %	7.7 %

Notes (*) 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	2013	2014	2015	2016	2017
BE	0.03	6.10	11.82	13.39	18.54	24.30	25.10	48.60	27.10
BG	3.18	14.32	21.60	36.50	44.70	48.80	51.40	54.50	58.60
CZ			13.16	20.62	23.67	30.10	33.50	34.90	36.80
DK			25.00	27.00	25.00	24.00	29.00	26.10	17.70
DE	16.40	22.00	25.00	28.60	32.60	34.10	40.90	45.50	47.50
EE	30.60	49.00	45.00	30.00	35.00	30.50	29.00	20.10	23.70
IE	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
EL	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
ES	4.90	5.00	8.08	16.83	19.05	20.50	26.00	29.50	30.80
FR	0.60	10.00	20.00	32.00	36.00	37.00	25.60	41.00	43.00
HR	0.00	0.00	0.00	0.00	0.00	0.52	2.00	14.70	23.90
IT	11.50		24.10	16.80	7.60	41.00	41.20	55.10	55.40
CY	-	-	-	-	-	-	-	-	-
LV	10.60	9.57	23.30	22.60	23.30	21.50	31.10	25.50	33.60
LT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LU	0.00		0.00	0.00		0.00	0.00	0.00	0.00
HU	9.00	14.40	19.47	31.80	34.80	37.60	39.60	42.10	47.50
MT	-	-	-	-	-	-	-	-	-
NL	14.00	25.00	40.00	36.00	41.40	41.00		45.00	56.50
AT	10.00	14.00	14.60	17.60	19.30	21.40	23.60	26.10	24.50
PL	16.90	23.97	35.82	32.93	34.53	36.30	38.10	48.60	42.90
PT	0.00		9.00	11.00	13.40	11.30	11.80	15.40	14.20
RO	26.70	40.99	54.70	53.68	57.60	42.80	60.20	62.90	63.40
SI	0.00	0.00	0.00	9.50	9.19	9.90	12.10	13.00	13.30
SK	2.90	2.00	2.03	11.76	13.47	10.00	17.60	19.90	22.10
FI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.40
SE	32.50		40.00		56.00	55.00	48.00	46.00	46.00
UK		44.20	51.40	53.60	54.50	54.70	52.60	55.00	57.60
NO		21.00	25.00	38.00	42.00	47.00	42.20	49.80	51.10

Note: 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
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
AVERAGE ANNUAL CHANGE					
'85/'00	2.7%	2.1%	4.2%	0.9%	2.5%
'00/'17	- 1.3%	7.8%	2.8%	- 6.5%	0.8%
'16/'17	- 11.4%	0.4%	3.0%	- 6.1%	- 3.2%

2.4.18

Rail

CHANNEL TUNNEL TRAFFIC

UNITED KINGDOM – FRANCE

	SHUTTLE			
	Vehicles			Passengers
	PASSENGER		FREIGHT	(¹)
	cars (1 000)	coaches (1 000)	1 000	million
1995	1 223	23.0	391	4.2
2000	2 784	79.5	1 133	<i>10.1</i>
2005	2 047	77.3	1 309	8.2
2006	2 022	67.2	1 296	7.8
2007	2 142	65.3	1 415	9.5
2008	1 907	55.8	1 254	8.4
2009	1 917	54.5	769	7.8
2010	2 125	56.5	1 089	8.8
2011	2 263	56.1	1 263	9.3
2012	2 424	59.0	1 465	10.0
2013	2 481	64.5	1 363	10.3
2014	2 572	63.1	1 440	10.6
2015	2 557	58.4	1 484	10.5
2016	2 610	53.6	1 642	10.6
2017	2 595	51.2	1 637	10.4
2018	2 660	51.3	1 693	10.6

	THROUGH-TRAIN	
	PASSENGER	FREIGHT
	million	1 000 tonnes
1995	2.920	1 411
2000	7.130	2 947
2005	7.454	1 588
2006	7.858	1 569
2007	8.261	1 214
2008	9.113	1 239
2009	9.220	1 181
2010	9.529	1 128
2011	9.680	1 325
2012	9.912	1 227
2013	10.133	1 360
2014	10.398	1 650
2015	10.399	1 420
2016	10.011	1 040
2017	10.301	1 220
2018	10.971	1 259

Notes: The Channel Tunnel opened in 1994.

(¹) From 2000 to 2005, estimates based on 2.52 passengers per car and 38.75 passengers per coach.

Road

LENGTH OF MOTORWAYS

2.5.1

km (at end of year)								
	1990	1995	2000	2005	2010	2015	2016	2017
EU-28	42 176	48 269	55 111	63 107	71 122	75 820	76 817	77 396
BE	1 666	1 666	1 702	1 747	1 763	1 763	1 763	1 763
BG	273	277	319	331	437	734	734	734
CZ	357	414	501	564	734	776	1 223	1 240
DK	611	796	923	1 032	1 130	1 237	1 255	1 308
DE	10 854	11 190	11 712	12 363	12 819	12 993	12 996	13 009
EE	41	65	93	99	115	147	145	154
IE	26	70	103	247	900	916	916	916
EL	190	421	615	917	1 558	1 589	1 843	2 133
ES	4 976	6 962	9 049	11 432	14 262	15 336	15 444	15 523
FR	6 824	8 275	9 766	10 798	11 392	11 599	11 612	11 618
HR	291	302	411	1 016	1 244	1 310	1 310	1 310
IT	6 193	6 435	6 478	6 542	6 668	6 943	6 943	6 943
CY	120	167	257	276	257	272	272	257
LV	-	-	-	-	-	-	-	-
LT	421	394	417	417	309	309	314	324
LU	78	123	114	147	152	161	161	165
HU	267	335	448	859	1 477	1 884	1 924	1 937
MT	-	-	-	-	-	-	-	-
NL	2 092	2 208	2 265	2 600	2 651	2 756	2 758	2 758
AT	1 445	1 596	1 633	1 677	1 719	1 719	1 743	1 743
PL	257	246	358	552	857	1 559	1 640	1 640
PT	316	687	1 482	2 341	2 737	3 065	3 065	3 065
RO	113	113	113	228	332	747	747	763
SI	228	293	427	569	771	773	773	783
SK	192	198	296	328	416	463	463	482
FI	225	394	549	693	779	881	890	893
SE	939	1 262	1 499	1 700	1 971	2 119	2 118	2 132
UK	3 181	3 380	3 581	3 633	3 672	3 768	3 764	3 803
AL								
ME	-	-	-	-	-	-	-	-
MK	83			216	251	259	259	259
RS				603	603	603	610	645
TR	281			1 667	2 080	2 282	2 542	2 657
IS	-	-	-	11	11	11	11	11
NO	73	107	144	264	381	392	392	523
CH	1 148	1 197	1 270	1 358	1 406	1 440	1 447	1 458

Notes: 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 refers to the 1st of April.

2.5.2

Road

LENGTH OF ROAD NETWORK

	km (at end of 2017) (*)			
	Motorways	Main or national roads	Secondary or regional roads	Other roads (**)
BE	1 763	13 229	1 349	138 869
BG	734	2 928	4 028	12 171
CZ	1 223	5 825	48 692	74 919
DK	1 255	2 602	70 817	
DE	12 996	38 018	178 876	
EE	145	3 869	12 590	42 370
IE	916	4 390	13 120	80 472
EL	1 843	9 299	30 864	75 600
ES	15 444	14 905	135 259	501 053
FR	11 612	9 044	377 890	704 999
HR	1 310	6 969	9 521	9 022
IT	6 943	20 786	155 247	73 591
CY	272	2 219	2 313	5 066
LV	-	1 673	5 457	61 377
LT	324	6 352	14 566	50 482
LU	161	837	1 891	
HU	1 924	30 069		178 809
MT	-	2 855		
NL	2 758	2 627	7 782	126 523
AT	1 743	10 826	23 673	94 146
PL	1 640	1 425	153 757	249 136
PT	3 065	6 457	4 791	
RO	747	16 891	35 149	33 296
SI	773	5 917	13 361	18 883
SK	463	3 593	13 967	38 895
FI	890	12 575	13 451	51 065
SE	2 118	13 565	157 208	42 488
UK	3 764	49 215	33 197	336 337
AL				
ME	-	7 928		
MK	259	640	3 778	9 733
RS	610	3 532	10 743	29 346
TR	2 542	31 066	33 896	179 895
IS	11	4 919	2 950	5 010
NO	392	10 683	44 622	39 457
CH	1 447	397	17 843	51 859

Notes: (*) BE end of 2009; EL end of 2010; IT end of 2015;
UK 1st of April 2016; IS end of 2011. MT, CY: data for 2016.

(**) The definition of road types varies from country to country,
the data are therefore not comparable.
'Other roads' sometimes includes roads without a hard surface.

Railways

LENGTH OF LINES IN USE

2.5.3

								km	%
	1995	2000	2005	2010	2015	2016	2017	OF WHICH: ELECTRIFIED 2017	
EU-28	229 436	222 708	216 708	220 022	217 605	217 081	217 236	117 348	54.0
BE	3 368	3 471	3 544	3 582	3 607	3 607	3 605	3 102	86.0
BG	4 294	4 320	4 154	4 097	4 019	4 029	4 030	2 870	71.2
CZ	9 430	9 444	9 614	9 468	9 466	9 463	9 408	3 218	34.2
DK	2 863	2 787	2 646	2 606	2 552	2 539	2 487	632	25.4
DE	41 718	36 588	34 221	37 679	38 828	38 990	39 219	20 736	52.9
EE	1 021	968	968	919	918	918	1 033	132	12.8
IE	1 954	1 919	1 919	1 894	1 894	1 894	1 894	108	5.7
EL	2 474	2 385	2 576	2 552	2 239	2 240	2 240	532	23.8
ES	14 308	14 347	15 015	15 837	16 056	15 922	15 904	10 123	63.7
FR	31 940	31 397	30 871	30 335	28 808	28 364	28 120	16 052	57.1
HR	2 296	2 726	2 726	2 722	2 604	2 605	2 605	970	37.2
IT	16 003	16 187	16 545	17 022	17 041	17 096	17 105	12 217	71.4
CY	-	-	-	-	-	-	-	-	-
LV	2 413	2 331	2 270	1 897	1 859	1 860	1 860	251	13.5
LT	2 002	1 905	1 771	1 767	1 877	1 911	1 911	152	8.0
LU	275	274	275	275	275	275	275	262	95.3
HU	7 714	8 005	7 950	7 893	7 894	7 749	7 752	3 138	40.5
MT	-	-	-	-	-	-	-	-	-
NL	2 739	2 802	2 810	3 013	3 031	3 058	3 055	2 310	75.6
AT	5 672	5 665	5 691	5 039	4 937	4 917	4 953	3 557	71.8
PL	23 986	22 560	19 507	19 702	18 510	18 429	18 513	11 771	63.6
PT	2 850	2 814	2 844	2 842	2 545	2 553	2 546	1 639	64.4
RO	11 376	11 015	10 948	10 777	10 770	10 766	10 766	4 030	37.4
SI	1 201	1 201	1 228	1 228	1 209	1 209	1 209	610	50.5
SK	3 665	3 662	3 658	3 622	3 626	3 626	3 626	1 588	43.8
FI	5 880	5 854	5 732	5 919	5 923	5 926	5 926	3 284	55.4
SE	10 925	11 037	11 017	11 160	10 908	10 882	10 874	8 189	75.3
UK	17 069	17 044	16 208	16 175	16 209	16 253	16 320	5 875	36.0
AL				423	423	423	423	0	0.0
ME			248	249	250	250	250	224	89.5
MK	699	699	699	699	699	683	683	234	34.3
RS			3 809	3 809	3 739	3 739	3 736	1 279	34.2
TR	8 549	8 671	8 697	9 594	10 131	10 131	10 207	4 166	40.8
IS	-	-	-	-	-	-	-	-	-
NO	4 023	4 179	4 114	3 958	3 896	3 895	4 134	2 459	59.5
CH	3 232	3 216	3 399	3 597	3 592	3 650	4 062	4 061	100.0

Notes: CH: since 2017 RHB is included.

Please note that for some countries the values refer only to the main infrastructure managers which are members of the UIC.

2.5.4

Railways

HIGH-SPEED RAIL NETWORK

LENGTH OF LINES

km (at end of year)										
	BE	DE	ES	FR	IT	NL	AT	PL	UK	EU
1985	-	-	-	425	174	-	-	-	-	599
1990	-	90	-	717	194	-	-	-	-	1 001
1995	-	447	471	1 290	238	-	-	-	-	2 446
2000	72	636	471	1 290	238	-	-	-	-	2 707
2005	137	1 183	919	1 549	238	-	-	-	74	4 100
2010	209	1 272	1 866	1 912	856	90	-	-	113	6 318
2015	209	1 475	2 413	2 058	856	90	50	224	113	7 488
2016	209	1 475	2 413	2 180	896	90	50	224	113	7 650
2017	209	1 658	2 852	2 814	896	90	268	224	113	9 124
2018	209	1 571	2 852	2 734	896	90	263	224	113	8 952

Note: Length of lines or of sections of lines designed for trains that can go faster than 250 km/h at some point during the journey.

HIGH-SPEED LINES CURRENTLY UNDER CONSTRUCTION

LINE		LENGTH km	START OF OPERATION
DK	Copenhagen - Ringsted	60	2019
DE	Wendlingen - Ulm	60	2022
DE	Stuttgart - Wendlingen	25	2024
DE	Karlsruhe - Rastatt (Basel)	17	2024
DE	(Karlsruhe) Buggingen - Katzenbergtunnel (Basel)	32	2025
DE	(Karlsruhe) Katzenbergtunnel - Basel	13	2025
ES	Monforte del Cid - Murcia	62	2019
ES	Vitoria - Bilbao - San Sebastian	175	2022
ES	León - Asturias Variante de Pajares	50	2020
ES	Bobadilla - Granada	109	2019
ES	Plasencia - Cáceres / Badajoz	193	2020
ES	Venta de Banos - Burgos	91	2019
ES	Zamora - Orense	224	2020
IT	Genoa - Milan (Tortona)	53	2022
AT	Wien Stadlau - Staatsgrenze (AT/SK)	38	2022
AT	Wien Inzersdorf Ort - Wr. Neustadt (Pottendorfer Linie)	47	2023
AT	Graz - Klagenfurt (Koralmbahn)	122	2025
AT	Gloggnitz - Mürzzuschlag (Semmering-Basistunnel)	28	2026
AT	Volders - Baumkirchen / Innsbruck - Staatsgrenze AT/IT (Brenner-Basis-Tunnel)	46	2027
SE	Arlöv - Lund	11	2024
UK	London - Birmingham	230	2026

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

Railways – MAIN RAILWAY GAUGE AND ELECTRIC CURRENT USED

2.5.5

	TRACK GAUGE	ELECTRIC CURRENT		
	mm	DC volts	AC volts	
BE	1 435	3 000	25 000	50 HZ
BG	1 435		25 000	50 HZ
CZ	1 435	3 000	25 000	50 Hz
DK	1 435	3 000	25 000	50 HZ
DE	1 435	800-1 200 (contact rail)	15 000	16.7 Hz
EE	1 520	3 000		
IE	1 600	1 500		
EL	600			
	1 000			
	1 435		25 000	50 HZ
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	16.7 Hz
PL	1 435	3 000		
PT	1 000			
	1 668		25 000	50 HZ
RO	1 435		25 000	50 HZ
SI	1 435	3 000		
SK	1 435	3 000	25 000	50 HZ
FI	1 524		25 000	50 HZ
SE	1 435		15 000	16.7 Hz
UK (**)	1 435	750	25 000	50 HZ
	1 600	(contact rail)		
	(N-IRL)			

Notes: 1 435 mm = standard gauge.

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

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

2.5.6

Air

NUMBER OF AIRPORTS

BY NUMBER OF PASSENGERS CARRIED (*) IN 2017

	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-28	44	33	94	29	93	32
BE	1	1			3	
BG		1	2			
CZ	1				2	2
DK	1		2		3	2
DE	8	1	9	2	4	
EE			1			
IE	1		2	1	1	
EL	1	3	6	2	10	11
ES	7	5	12	3	4	1
FR	4	4	11	5	18	
HR			3	2		
IT	4	7	12	2	7	
CY		1	1			
LV		1				
LT			2		1	
LU			1			
HU	1				1	
MT		1				
NL	1	1	1		2	
AT	1		2	1	2	
PL	1	1	5	2	3	
PT	2	1	2	1	3	4
RO	1		3		2	
SI			1			
SK			1		1	
FI	1			2	8	7
SE	1	1	5	1	10	
UK	7	4	10	5	8	5
AL			1			
ME			2			
MK			1			
RS		1				
TR	9	1	13	8	18	5
IS		1				
NO	1	1	7	2	12	5
CH	2	1			3	

Notes: (*) '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.

Inland Waterways

LENGTH IN USE

2.5.7

NAVIGABLE CANALS, RIVERS AND LAKES REGULARLY USED FOR TRANSPORT

	km							
	1990	1995	2000	2005	2010	2015	2016	2017
EU-28		38 611	40 811	41 848	41 788	41 935	41 895	42 224
BE	1 515	1 540	1 534	1 516	1 516	1 516	1 516	1 516
BG	470	470	470	470	470	470	470	470
CZ		677	664	664	676	720	720	720
DK	-	-	-	-	-	-	-	-
DE	4 350	6 663	6 754	7 565	7 728	7 675	7 675	7 675
EE		520	320	320	335	416	416	416
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6 197	5 962	5 789	5 788	5 110	4 822	4 733	5 060
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	485	488
LU	37	37	37	37	37	37	37	37
HU	1 373	1 373	1 373	1 587	1 864	1 864	1 864	1 864
MT	-	-	-	-	-	-	-	-
NL	5 046	5 046	6 183	6 211	6 219	6 256	6 257	6 257
AT	351	351	351	351	351	351	351	351
PL	3 997	3 980	3 813	3 638	3 659	3 655	3 655	3 654
PT	-	-	-	-	-	-	-	-
RO	1 782	1 779	1 779	1 779	1 779	1 779	1 779	1 779
SI	-	-	-	-	-	-	-	-
SK	2 379	172	172	172	172	172	172	172
FI	6 072	6 120	7 842	8 029	8 006	8 127	8 136	8 136
SE	-	-	-	-	-	-	-	-
UK	1 631	1 153	1 153	1 065	1 050	1 050	1 050	1 050
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-
RS					1 364	1 593	1 593	1 593
TR	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	-	-	-	-	-	-	-	-

Note: DE: includes DE-E: 1990 = 2 319.

2.5.8

Pipelines

LENGTH OF OIL PIPELINES

	km							
	1990	1995	2000	2005	2010	2015	2016	2017
EU-28		31 967	34 532	35 839	36 979	36 017	36 006	36 090
BE	301	294	294	294	294	294	294	294
BG	578	578	578	578	578	570	570	570
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	267	267	267
ES	2 678	3 691	3 780	3 833	4 365	4 736	4 736	4 736
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	4 012	4 016
CY								
LV	766	766	766	860	417	417	417	414
LT		400	500	500	500	500	500	500
LU	-	-	-	-	-	-	-	-
HU	2 574	2 071	2 061	2 032	2 209	2 215	2 215	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	4 711	2 715	2 714	2 776
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
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK				155	144	217	217	217
RS					374	279	279	280
TR		1 126	2 112	3 065	3 038	3 053	3 053	3 052
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

Notes: Including oil pipelines under the sea.

DE: Crude oil pipelines only; includes DE-E: 1990 = 1 323 km.

CS: 1990 = 1 090.

Road MOTORISATION

2.6.1

NUMBER OF PASSENGER CARS PER 1 000 INHABITANTS									%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28	342	377	414	446	480	499	507	516	1.6
BE	387	421	456	468	480	501	505	509	0.9
BG	152	196	245	333	353	442	443	393	0.1
CZ	234	295	336	387	429	485	502	522	3.5
DK	309	320	347	362	389	419	429	438	2.4
DE	461	495	475	493	527	548	555	561	1.2
EE	154	269	333	366	416	514	534	550	3.9
IE	228	276	348	400	416	425	428	432	0.8
EL	169	208	295	391	469	479	486	492	1.6
ES	309	360	429	460	475	481	492	504	2.1
FR	464	468	489	482	503	485	480	478	-1.0
HR	121	155	262	321	353	358	374	389	4.4
IT	483	533	572	597	619	616	625	637	1.5
CY	304	335	384	477	551	575	595	609	3.4
LV	106	134	237	333	307	345	341	357	-1.2
LT	133	199	336	442	554	431	456	483	5.9
LU	477	556	622	655	659	661	662	670	0.1
HU	187	218	232	287	299	325	338	355	4.0
MT	337	487	483	525	581	611	615	613	0.6
NL	367	364	409	434	464	477	481	487	0.9
AT	388	452	511	504	530	546	550	555	0.7
PL	138	195	261	323	453	546	571	593	4.6
PT	185	255	333	400	444	457	470	492	3.0
RO	56	97	124	158	214	261	279	307	6.8
SI	294	357	435	479	518	523	531	541	1.6
SK	166	189	237	243	310	375	390	408	4.1
FI	388	371	412	462	535	594	608	621	2.4
SE	419	411	450	459	460	474	477	479	0.6
UK	361	378	425	467	465	477	483	486	1.3
AL	0	18	37	62	104	140	152	147	8.0
ME					266	283	310	332	9.8
MK	0	145	148	124	151	185	190	194	2.8
RS				200	216	259	268	281	3.4
TR	0	49	68	84	102	134	142	149	5.4
IS	468	445	561	625	643	681	711	717	4.4
NO	380	386	411	437	469	501	506	514	1.1
CH	442	457	492	518	518	535	537	539	0.4
LI	582	609	663	699	744	766	773	761	1.0

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

2.6.2

Road

PASSENGER CARS

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28	163 628	182 462	201 993	221 608	241 658	254 744	259 487	264 214	1.8
BE	3 864	4 273	4 678	4 919	5 276	5 662	5 731	5 799	1.2
BG	1 317	1 648	1 993	2 538	2 602	3 162	3 144	2 771	-11.9
CZ	2 410	3 043	3 439	3 959	4 496	5 115	5 308	5 538	4.3
DK	1 590	1 679	1 854	1 965	2 164	2 391	2 466	2 530	2.6
DE	36 772	40 499	39 059	40 660	42 302	45 071	45 804	46 475	1.5
EE	241	383	464	494	553	677	703	726	3.2
IE	801	998	1 333	1 684	1 899	2 007	2 049	2 087	1.9
EL	1 736	2 205	3 195	4 303	5 217	5 160	5 236	5 283	0.9
ES	11 996	14 212	17 449	20 250	22 147	22 356	22 877	23 500	2.7
FR	27 072	27 872	29 808	30 497	32 676	32 325	32 074	32 006	-0.2
HR	580	711	1 125	1 385	1 515	1 500	1 553	1 596	2.8
IT	27 416	30 301	32 584	34 667	36 751	37 351	37 876	38 520	1.7
CY	179	220	268	355	463	488	508	526.6	3.6
LV	283	332	557	742	637	679	664	690	3.9
LT	493	718	1 172	1 455	1 692	1 244	1 299	1 357	4.5
LU	183	229	273	307	337	381	391	403	3.2
HU	1 944	2 245	2 365	2 889	2 984	3 197	3 313	3 472	4.8
MT	120	181	189	213	241	275	283	292	3.1
NL	5 509	5 633	6 539	7 092	7 736	8 101	8 223	8 373	1.8
AT	2 991	3 594	4 097	4 157	4 441	4 748	4 822	4 899	1.6
PL	5 261	7 517	9 991	12 339	17 240	20 723	21 675	22 503	3.8
PT	1 849	2 560	3 443	4 200	4 692	4 723	4 850	5 059	4.3
RO	1 292	2 197	2 778	3 364	4 320	5 155	5 472	5 998	9.6
SI	587	711	866	960	1 062	1 079	1 097	1 118	2.0
SK	880	1 016	1 274	1 304	1 669	2 035	2 122	2 223	4.8
FI	1 939	1 901	2 135	2 430	2 877	3 258	3 346	3 423	2.3
SE	3 601	3 631	3 999	4 154	4 335	4 669	4 768	4 845	1.6
UK	20 722	21 951	25 067	28 326	29 334	31 214	31 834	32 201	1.2
AL		59	115	195	295	404	436	422	-3.2
ME					165	176	193	207	6.9
MK		286	300	253	310	384	395	403	2.1
RS				1 481	1 566	1 835	1 888	1 969	4.3
TR		3 059	4 422	5 773	7 545	10 589	11 318	12 036	6.3
IS	120	119	159	187	205	226	240	250	4.0
NO	1 613	1 685	1 852	2 029	2 309	2 610	2 663	2 719	2.1
CH	2 985	3 229	3 545	3 861	4 076	4 458	4 524	4 571	1.0
LI	17	19	22	24	27	29	29	29	-0.8

Notes: 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 as Goods Vehicles.

Road

BUSES AND COACHES

2.6.3

STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28	740.3	754.0	781.5	795.2	819.2	840.2	849.6	859.0	1.1
BE	15.6	14.6	14.7	15.4	16.2	17.1	16.0	16.0	0.1
BG	34.6	41.8	43.0	37.8	24.5	24.1	23.4	21.0	-10.3
CZ	20.5	20.5	19.0	20.9	20.4	20.7	20.9	21.4	2.5
DK	8.1	13.7	14.0	14.4	14.5	13.4	13.4	13.5	0.6
DE	100.4	85.4	77.2	75.2	76.5	78.3	78.9	79.4	0.6
EE	7.9	7.0	6.1	5.2	4.2	4.8	4.8	4.9	2.1
IE	4.0	5.3	7.0	7.6	8.2	9.3	9.8	10.3	4.7
EL	21.4	24.6	27.0	26.8	27.3	26.5	26.5	26.4	-0.3
ES	45.8	47.4	54.7	58.2	62.4	60.3	61.8	63.6	2.8
FR	70.0	79.0	85.7	90.1	91.5	99.0	100.3	100.9	0.5
HR	5.8	3.9	4.7	4.9	4.9	5.3	5.5	5.7	3.4
IT	77.7	75.0	88.0	94.4	99.9	98.0	97.8	99.1	1.3
CY	2.3	2.7	2.9	3.2	3.4	2.7	2.8	3.0	5.6
LV	12.1	16.5	11.5	10.6	5.4	4.8	4.7	4.7	0.1
LT	15.2	17.6	15.5	15.3	13.7	6.9	6.9	7.2	4.0
LU	0.8	0.9	1.1	1.3	1.6	1.9	1.9	2.0	5.0
HU	26.4	20.5	17.9	17.5	17.6	18.1	18.5	18.7	1.2
MT	1.0	1.0	1.1	1.1	1.8	2.0	2.0	2.1	3.7
NL	12.1	11.6	11.4	11.0	11.3	9.4	9.8	9.9	0.8
AT	9.4	9.8	9.9	9.3	9.6	9.7	9.8	10.0	1.8
PL	92.4	85.4	82.6	79.6	97.0	109.8	113.1	116.1	2.6
PT	12.1	15.0	19.8	14.7	15.4	14.7	14.9	15.2	2.4
RO	28.3	42.0	40.7	39.3	40.9	47.3	48.8	50.3	3.1
SI	3.1	2.5	2.3	2.3	2.4	2.6	2.7	2.8	3.8
SK	14.3	11.8	10.9	9.1	9.4	9.3	9.1	9.2	1.6
FI	9.3	8.1	9.9	10.9	13.7	16.9	17.5	18.1	3.2
SE	14.6	14.6	14.4	13.5	13.9	14.1	13.9	14.4	3.7
UK	75.0	75.9	88.6	105.6	111.5	113.3	113.9	113.2	-0.6
AL		6.7	16.8	29.5	7.0	6.4	7.1	6.8	-3.5
ME						1.3	1.4	1.5	9.5
MK	2.3	2.5	2.5	2.3	2.7	3.2	3.2	3.2	-0.9
RS				9.7	8.0	9.5	9.6	9.9	2.8
TR	188.1	263.2	354.3	501.9	595.5	666.3	684.3	700.5	2.4
IS	1.3	1.3	1.7	1.9	1.9	2.5	2.9	3.1	9.4
NO	21.2	32.5	36.7	28.8	20.3	16.7	16.3	16.0	-1.6
CH	31.2	36.5	40.3	45.8	52.8	65.7	69.7	73.8	5.9
LI			0.1	0.1	0.1	0.1	0.1	0.1	2.0

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

2.6.4

Road

GOODS VEHICLES

STOCK OF REGISTERED VEHICLES

1 000									%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28		22 862.2	26 957.1	30 941.7	35 205.4	36 888.6	37 626.7	38 387.5	2.0
BE	380.4	442.5	588.8	662.3	744.8	838.1	859.8	887.5	3.2
BG	161.6	223.2	259.4	333.9	333.5	444.4	456.8	423.2	-7.4
CZ		219.3	298.3	439.2	598.0	652.1	672.2	693.5	3.2
DK	286.6	333.8	384.9	469.5	485.1	437.1	439.0	437.9	-0.2
DE	1 653.0	2 378.7	2 419.1	2 404.9	2 619.4	2 995.2	3 113.9	3 242.1	4.1
EE	67.7	65.6	82.1	86.2	81.2	101.8	108.2	114.8	6.1
IE	143.2	141.8	205.6	286.5	327.1	330.5	342.3	349.1	2.0
EL	766.4	883.8	1 057.4	1 186.5	1 318.8	1 332.8	1 343.8	1 344.1	0.0
ES	2 401.1	3 024.2	3 923.2	4 849.6	5 303.5	5 047.2	5 087.4	5 142.6	1.1
FR	4 840.0	5 116.0	5 151.7	5 346.7	6 704.6	6 791.6	6 739.6	6 742.2	0.0
HR		73.5	122.5	162.9	157.7	149.0	156.7	168.1	7.3
IT	2 207.9	2 509.9	3 087.0	3 785.9	4 141.8	4 097.8	4 180.8	4 256.4	1.8
CY	74.3	101.2	114.7	118.4	120.7	103.8	106.3	107.7	1.4
LV		68.7	97.1	113.1	71.6	86.0	84.1	87.1	3.6
LT	83.0	108.9	98.6	122.5	133.9	102.9	109.4	115.5	5.6
LU	11.3	15.8	24.7	29.6	35.6	39.6	41.2	43.2	4.7
HU	262.0	278.0	352.6	412.9	451.3	496.2	517.1	542.5	4.9
MT		40.8	51.5	44.4	42.5	44.4	45.3	47.1	3.8
NL	553.0	654.0	899.0	1 004.5	1 004.0	963.1	989.0	1 023.0	3.4
AT	261.8	302.9	344.5	358.0	396.8	444.0	457.2	476.3	4.2
PL		1 354.1	1 879.1	2 304.5	2 981.6	3 428.0	3 542.3	3 640.0	2.8
PT	781.0	912.3	1 313.2	1 308.0	1 337.0	1 313.2	1 310.5	1 336.8	2.0
RO	258.7	343.1	427.2	493.8	667.2	856.3	912.8	975.2	6.8
SI	30.8	42.9	54.3	66.4	84.1	91.3	96.9	103.3	6.6
SK	92.0	102.6	114.0	174.2	276.0	302.9	309.3	316.7	2.4
FI	264.2	252.0	304.3	363.6	464.4	560.9	582.1	604.5	3.9
SE	309.5	307.7	374.2	461.2	526.4	596.2	616.2	632.5	2.6
UK	2 706.0	2 565.0	2 928.3	3 552.4	3 796.9	4 242.2	4 406.8	4 534.6	2.9
AL		29.1	45.6	47.3	83.7	71.0	75.0	66.6	-11.2
ME						14.3	16.5	18.2	10.2
MK		22.6	24.6	18.0	33.3	38.7	40.3	41.7	3.5
RS				118.3	151.7	139.9	140.1	223.6	59.6
TR		830.0	1 351.8	2 152.0	3 125.4	4 059.6	4 267.8	4 481.3	5.0
IS	13.1	14.8	19.4	25.5	30.4	33.0	35.6	37.4	5.1
NO	308.3	349.5	414.3	465.4	527.0	554.1	556.4	564.3	1.4
CH	252.1	262.4	278.5	307.2	335.2	393.6	405.6	416.5	2.7
LI			2.5	2.6	2.8	3.2	3.3	3.4	3.5

Notes: 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.

Road POWERED TWO-WHEELERS

2.6.5

STOCK OF REGISTERED VEHICLES

1 000								%
	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28		23 389.2	29 831.9	32 385.1	33 547.2	34 015.6	35 117.6	3.2
BE		277.8	346.3	412.9	461.8	471.8	630.7	33,7 (*)
BG	519.3	520.5	146.5	125.4	163.3	171.7	180.9	5.4
CZ	915.2	748.1	794.0	924.3	1 046.5	1 074.9	1 102.4	2.6
DK	58.0	138.3	171.9	203.6	198.0	197.5	198.0	0.3
DE	3 995.5	4 438.1	5 202.9	3 827.9	4 228.2	4 314.5	4 373.0	1.4
EE	3.3	6.7	10.2	19.7	45.5	48.8	51.7	5.9
IE	23.5	30.6	34.3	38.1	37.0	38.0	39.9	4.9
EL		781.4	1 124.2	1 499.1	1 653.5	1 656.7	1 583.5	-4.4
ES	1 301.2	1 445.6	4 117.6	4 997.7	5 102.7	5 199.0	5 284.8	1.7
FR	2 289.0	2 410.0	2 475.3	3 561.0	2 694.2	2 553.0	3 034.0	18.8
HR	9.9	21.9	128.4	176.8	151.3	152.9	154.3	0.9
IT	6 228.3	7 826.9	9 298.4	8 855.0	8 965.6	9 083.7	9 218.3	1.5
CY	50.4	43.3	40.4	40.7	39.3	39.2	39.4	0.4
LV	15.8	20.7	32.5	36.7	49.3	49.6	52.8	6.5
LT	20.0	19.8	24.0	56.3	37.8	39.7	42.1	6.0
LU	28.4	32.8	37.7	42.1	28.3	29.3	30.3	3.6
HU		91.2	122.7	142.3	162.8	162.1	167.4	3.2
MT	17.4	12.4	12.0	14.7	19.2	22.3	24.6	10.4
NL	855.0	970.8	1 112.9	1 664.3	1 803.4	1 834.3	1 873.2	2.1
AT	546.4	632.7	627.7	727.9	799.9	816.5	832.2	1.9
PL	929.0	803.0	1 091.2	1 935.1	2 531.5	2 647.8	2 755.0	4.0
PT	216.3	345.9	588.4	498.0	527.6	552.1	592.5	7.3
RO	327.7	239.2	197.4	85.2	112.9	119.5	127.3	6.5
SI	8.5	11.2	48.7	91.0	100.3	103.7	125.1	20.7
SK	81.8	45.6	56.4	87.9	120.6	126.1	133.3	5.7
FI	159.5	193.4	301.8	486.8	581.1	591.8	603.8	2.0
SE	264.2	310.1	453.1	570.2	632.6	649.0	611.3	-5.8
UK	714.0	971.0	1 235.0	1 264.4	1 253.1	1 270.2	1 255.9	-1.1
AL	6.9	3.8	7.2	24.0	33.1	36.1	40.0	10.7
ME					4.2	4.7	5.7	20.2
MK			1.7	7.8	10.1	11.7	14.1	20.8
RS			16.0	37.9	64.2	64.4	62.0	-3.7
TR	819.9	1 011.3	1 441.1	2 389.5	2 938.4	3 003.7	3 103.0	3.3
IS	1.9	2.3	4.2	9.7	10.4	10.6	10.7	1.1
NO	158.6	201.6	257.5	315.5	354.3	362.4	362.1	-0.1
CH	688.5	712.7	748.0	790.8	871.3	896.4	917.0	2.3
LI		2.6	3.1	3.7	4.3	4.4	4.6	2.7

Notes: (*) Data not comparable between 2016 and 2017 due to break in time series. Stock at end of year, except for BE: 1 August, CH: 30 September, LI: 1 July. National vehicle stock data do not always include all powered two-wheelers and are therefore not fully comparable between countries. Tricycles and quads are sometimes included in the data. Break in time series due to inclusion of mopeds from 2001 in ES, from 2002 in SI and HR, from 2004 in LV, from 2005 in PL, from 2007 in LT, from 2009 in SK, from 2011 in EE, from 2017 in BE. DE: data has been revised until 2008 due to the suspension of the dissemination of vehicle data from insurance plates.

2.6.6

Road

PASSENGER CARS

NEW VEHICLE REGISTRATIONS

1 000								%
	2000	2005	2010	2015	2016	2017	2018	CHANGE '17/'18
EU-28		15 194.3	13 438.2	13 713.4	14 650.0	15 135.6	15 161.8	0.2
BE	515.2	480.1	547.3	501.1	539.3	546.6	549.8	0.6
BG		32.7	15.6	24.3	28.2	33.8	38.0	12.5
CZ		151.7	169.6	230.9	259.7	271.6	261.5	-3.7
DK	112.7	146.9	153.6	207.0	222.9	221.6	218.4	-1.5
DE	3 378.3	3 319.3	2 916.3	3 206.0	3 351.6	3 441.3	3 435.8	-0.2
EE		19.6	10.3	21.0	23.0	25.6	26.3	2.7
IE	230.8	171.7	88.4	124.8	146.7	131.4	125.6	-4.4
EL	290.2	269.7	141.5	75.8	78.9	88.1	103.4	17.4
ES	1 381.3	1 528.9	982.0	1 034.2	1 147.0	1 234.9	1 321.4	7.0
FR	2 133.9	2 067.8	2 251.7	1 917.2	2 015.2	2 110.7	2 173.5	3.0
HR	92.4	102.1	46.2	35.7	44.1	50.8	60.0	18.3
IT	2 423.1	2 237.4	1 961.6	1 569.1	1 825.9	1 970.5	1 910.0	-3.1
CY	8.2	19.2	15.1	10.1	12.5	13.1	13.1	0.1
LV		16.6	6.4	13.8	16.4	16.7	16.9	1.1
LT		10.5	8.0	17.1	20.3	25.8	32.4	25.3
LU	41.9	48.5	49.7	46.5	50.7	52.8	52.6	-0.3
HU		199.0	43.5	77.2	96.6	116.3	136.6	17.5
MT		6.6	4.1	7.1	7.3	7.8	8.2	5.1
NL	597.6	465.2	482.6	448.9	382.8	414.5	443.9	7.1
AT	309.4	307.9	328.6	308.6	329.6	353.3	341.1	-3.5
PL		235.5	333.5	352.4	418.0	484.2	531.6	9.8
PT	257.8	206.5	223.5	178.5	207.3	222.1	228.3	2.8
RO (*)		172.5	106.3	81.2	94.9	105.1	128.8	22.6
SI		59.3	61.1	59.7	59.0	62.5	65.1	4.1
SK		57.1	64.0	78.0	88.2	96.0	98.2	2.3
FI	134.6	147.9	107.3	108.8	118.9	118.5	120.4	1.6
SE	290.5	274.3	289.7	345.1	372.3	379.4	353.7	-6.8
UK	2 221.7	2 439.7	2 030.8	2 633.5	2 692.8	2 540.6	2 367.1	-6.8
AL								
ME			8.6	13.7	15.9	18.6	21.4	15.1
MK		15.9	49.3	29.3	30.4	26.6	33.1	24.3
RS				112.6	136.3	130.8	147.5	12.7
TR		406.8	485.6	746.4	746.1	741.9	526.2	-29.1
IS	13.6	18.1	3.1	14.0	18.5	21.3	18.1	-15.2
NO	97.4	109.9	127.8	150.7	154.6	158.7	147.9	-6.8
CH	316.5	264.9	292.5	321.7	315.5	312.2	299.2	-4.1

Notes: (*) Data for Romania refers to sales (APIA).

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

2018 figures are in most cases provisional.

Road

GOODS VEHICLES

2.6.7

NEW VEHICLE REGISTRATIONS

	LIGHT COMMERCIAL <3.5 t		COMMERCIAL VEHICLES >3.5 t & <16 t		HEAVY COMMERCIAL >16 t		TOTAL		CHANGE '17/'18
	2017	2018	2017	2018	2017	2018	2017	2018	
EU-28	2 009 212	2 074 601					2 378 779	2 459 477	3.4
BE	79 427	81 285	2 673	2 799	8 631	9 217	90 731	93 301	2.8
BG	14 431	13 562	(¹)	(¹)	(¹)	(¹)	14 431	13 562	-6.0
CZ	19 396	20 210	1 532	1 634	8 538	8 531	29 466	30 375	3.1
DK	35 888	33 757	478	413	4 549	4 645	40 915	38 815	-5.1
DE	270 730	285 415	25 292	25 781	66 428	68 399	362 450	379 595	4.7
EE	4 781	5 018	44	64	1 004	1 017	5 829	6 099	4.6
IE	23 916	25 171	558	622	1 882	1 889	26 356	27 682	5.0
EL	6 579	6 906	204	182	220	170	7 003	7 258	3.6
ES	198 896	214 342	3 868	4 251	21 008	20 138	223 772	238 731	6.7
FR	437 415	457 573	6 856	6 944	44 452	48 519	488 723	513 036	5.0
HR	8 500	9 101	273	319	1 040	1 077	9 813	10 497	7.0
IT	191 944	180 473	4 351	4 740	19 258	20 295	215 553	205 508	-4.7
CY	1 990	1 645	74	112	29	9	2 093	1 766	-15.6
LV	2 245	2 392	48	62	1 510	1 590	3 803	4 044	6.3
LT	3 227	3 592	134	112	6 862	8 178	10 223	11 882	16.2
LU	4 861	4 707	161	147	1 116	1 200	6 138	6 054	-1.4
HU	19 943	22 725	674	665	5 178	5 580	25 795	28 970	12.3
MT	738	903	(¹)	(¹)	(¹)	(¹)	738	901	22.1
NL	73 116	78 604	1 621	1 970	13 382	14 773	88 119	95 347	8.2
AT	40 158	43 619	804	780	7 398	7 469	48 360	51 868	7.3
PL	57 322	66 869	2 078	2 269	24 813	28 427	84 213	97 565	15.9
PT	38 506	39 333	826	806	4 655	4 511	43 987	44 650	1.5
RO	16 098	17 645	325	294	6 028	6 961	22 451	24 900	10.9
SI	8 688	8 948	150	183	2 196	2 578	11 034	11 709	6.1
SK	7 689	8 955	492	509	3 774	3 757	11 955	13 221	10.6
FI	15 689	15 931	511	541	2 869	2 897	19 069	19 369	1.6
SE	55 381	56 584	470	527	6 291	6 436	62 142	63 547	2.3
UK	371 658	369 336	51 959	49 889	(²)	(²)	423 617	419 225	-1.0
IS	2 041	1 965	186	169	207	254	2 434	2 388	-1.9
NO	35 847	37 209	1 766	2 126	4 470	4 998	42 083	44 333	5.3
CH	36 386	37 116	1 036	1 237	3 888	3 664	41 310	42 017	1.7

Notes: (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.

2.6.8

Road

BUSES AND COACHES

NEW VEHICLE REGISTRATIONS

LIGHT BUSES & COACHES			BUSES & COACHES		HEAVY BUSES & COACHES		TOTAL		%
<3.5 t			>3.5 t & <16 t		>16 t				
	2017	2018	2017	2018	2017	2018	2017	2018	CHANGE '17/'18
EU-28							41 750	41 599	-0.4
BE	1	0	311	317	557	672	869	989	13.8
BG	400	413	(1)	(1)	(1)	(1)	400	413	3.2
CZ	0	11	145	87	571	922	716	1 020	42.5
DK	774	838	421	319	215	184	1 410	1 341	-4.9
DE	9	18	1 264	1 167	5 424	5 502	6 697	6 687	-0.1
EE	0	0	58	73	154	69	212	142	-33.0
IE	37	71	145	253	259	294	441	618	40.1
EL	72	80	75	87	33	96	180	263	46.1
ES	0	0	887	748	2 640	2 579	3 527	3 327	-5.7
FR	0	0	1 161	1 199	5 168	5 031	6 329	6 230	-1.6
HR	0	0	67	60	133	182	200	242	21.0
IT	21	21	1 223	1 229	1 938	3 119	3 182	4 369	37.3
CY	47	45	(1)	(1)	(1)	(1)	47	45	-4.3
LV	0	4	95	62	109	46	204	112	-45.1
LT	0	0	299	346	93	350	392	696	77.6
LU	0	4	27	22	212	199	239	225	-5.9
HU	1	1	159	228	483	434	643	663	3.1
MT	18	21	28	28	3	1	49	50	2.0
NL	0	1	128	112	760	317	888	430	-51.6
AT	0	1	123	123	1 121	937	1 244	1 061	-14.7
PL	0	1	1 058	1 026			1 058	1 027	-2.9
PT	0	35	132	180	222	320	354	535	51.1
RO	1	1	887	926	121	103	1 009	1 030	2.1
SI	0	0	48	56	130	131	178	187	5.1
SK	0	0	30	45	388	257	418	302	-27.8
FI	8	4	308	344	198	153	514	501	-2.5
SE	0	14	376	279	925	593	1 301	886	-31.9
UK	9 049	8 208	(1)	(1)	(1)	(1)	9 049	8 208	-9.3
IS	107	60	9	7	36	58	152	125	-17.8
NO	71	23	522	397	597	604	1 190	1 024	-13.9
CH	142	159	153	168	521	446	816	773	-5.3

Note: (¹) Figures included in other categories.

Road MOTORCYCLES

2.6.9

NEW VEHICLE REGISTRATIONS

	1 000							%
	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28			1337.1	1078.9	894.9	1014.9	918.8	-9.5
BE		25.3	25.0	26.4	21.6	23.6	21.4	-9.4
BG		1.2	0.6	0.9	0.8	0.8	0.8	9.1
CZ	6.9	3.9	7.6	5.4	13.4	14.1	12.3	-12.5
DK	2.3	3.3	5.8	3.1	2.4	3.1	2.8	-10.6
DE	218.2	252.6	168.7	122.3	151.7	174.6	140.7	-19.4
EE		0.1	0.3	0.5	0.5	0.6	0.5	-16.1
IE		3.8	2.4	1.1	1.0	1.5	1.3	-10.8
EL		64.0	83.1	61.5	32.5	38.6	27.5	-28.9
ES		72.0	205.6	134.3	132.5	155.0	136.2	-12.1
FR		179.6	196.6	231.6	153.2	163.3	162.8	-0.3
HR			6.7	2.9	1.5	1.8	2.2	22.4
IT		524.6	420.5	306.3	172.1	195.4	204.6	4.7
CY			2.5	3.1	1.7	2.0	2.0	1.4
LV			0.4	0.3	0.6	0.6	0.6	-2.8
LT		0.4	1.7	0.2	0.3	0.4	0.4	-5.9
LU	1.0	1.3	1.3	1.6	1.7	1.8	1.8	3.1
HU			12.5	3.2	2.1	2.2	2.3	3.2
MT			0.4	0.6	1.3	2.5	2.2	-10.3
NL	17.8	19.6	16.8	15.2	11.7	12.9	13.1	1.6
AT	18.7	23.8	19.1	21.4	24.9	29.8	24.9	-16.4
PL			3.8	8.7	23.9	25.8	15.0	-41.8
PT	12.1	17.7	11.2	18.9	17.6	19.8	24.8	25.6
RO			0.8	0.6	0.6	1.0	1.1	17.1
SI		1.2	2.5	2.7	1.9	2.1	2.3	9.4
SK			1.2	2.3	5.3	5.6	4.9	-11.5
FI		5.2	9.2	9.5	3.2	3.0	2.8	-6.4
SE		18.4	22.8	13.2	9.4	13.2	9.7	-26.5
UK		121.9	108.1	81.3	105.7	119.9	97.7	-18.5
AL								
ME					0.7	0.7	0.9	32.2
MK	1.0	0.5	0.1	3.2	2.4	3.5	5.7	60.9
RS				8.0	3.9	2.7	3.1	16.9
TR			227.7	135.6	162.8	140.2	139.7	-0.3
IS		0.2	1.1					
NO			6.2	7.0	6.8	8.9	10.2	14.0
CH		30.6	40.2	38.2	47.7	44.7	44.4	-0.6

2.6.10

Road
MOPEDS

NEW VEHICLE DELIVERIES

	1 000						%
	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28			<i>645.3</i>	<i>345.1</i>	<i>333.6</i>	<i>426.2</i>	27.8
BE	33.2	17.3	14.2	12.4	10.6	18.8	77.0
BG	2.1	1.1	2.1	0.8	0.8	1.0	33.2
CZ		8.0	2.9	1.5	1.1	1.4	33.7
DK	9.8	4.9	16.5	6.9	6.0	12.4	107.3
DE	108.7	97.3	64.9	32.6	30.1	33.3	10.4
EE		8.0	0.0	0.7	0.6	0.6	- 2.5
IE	3.0	0.8	0.2	0.2	0.2	0.2	- 25.5
EL	19.2	24.1	18.9	8.6	6.6	4.5	- 31.9
ES	248.6	115.1	34.2	16.0	17.2	21.7	26.4
FR	192.3	154.9	144.5	89.6	89.7	107.3	19.6
HR		13.2	6.4	1.8	1.8	1.8	0.5
IT	311.8	128.3	90.2	24.6	24.6	26.0	5.8
CY		2.1	0.5	0.2	0.2	0.2	26.6
LV		0.6	1.0	1.0	0.9	1.3	35.7
LT			1.2	0.7	0.7	0.7	- 7.4
LU	0.5	0.5	0.7	0.9	0.9	0.5	- 47.1
HU			3.6	3.3	3.2	3.3	1.6
MT				0.0	0.1	0.0	- 14.0
NL	66.9	40.9	90.7	66.0	67.8	86.8	28.0
AT	21.3	27.7	24.9	13.8	13.7	15.6	14.2
PL		23.3	72.2	30.4	23.9	29.6	23.9
PT	15.0		4.6	2.6	2.6	3.1	18.2
RO				0.7	0.7	0.3	- 57.1
SI		3.1	3.5	2.3	2.5	18.6	634.5 (*)
SK		2.0	1.8	0.6	0.5	0.4	- 19.6
FI	6.4	20.9	17.9	7.0	5.2	6.9	33.4
SE	10.0	15.4	13.3	10.6	12.6	22.2	76.1
UK	48.2	24.7	14.5	9.4	8.7	7.8	- 11.4
AL							
ME							
MK							
RS			8.8	2.4	1.3	1.7	28.9
TR			1.5	2.3	3.5	18.0	419.5
IS							
NO		11.9	8.1	7.4	5.9	5.3	- 11.6
CH	19.4	3.1	3.1	0.8	0.7	0.7	- 10.5

Notes: (*) 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.

Sea

EU MERCHANT FLEET

2.6.11

SHIPS OF 1000 gt AND OVER

On January 1st, 2018								
	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-28	13 321	673.113	3 106	136.221	10 158	531.418		
BE	222	21.557	71	7.854	151	13.703	68.0 %	63.6 %
BG	76	1.590	12	0.085	64	1.505	84.2 %	94.7 %
CZ	-	-	-	-	-	-	-	-
DK	906	43.358	330	16.917	576	26.441	63.6 %	61.0 %
DE	2941	105.703	189	8.414	2752	97.289	93.6 %	92.0 %
EE	80	0.342	10	0.018	70	0.324	87.5 %	94.7 %
IE	95	1.715	31	0.273	64	1.426	67.4 %	83.1 %
EL	4 727	365.360	712	68.743	4 015	296.617	84.9 %	81.2 %
ES	194	2.563	92	0.537	102	2.026	52.6 %	79.0 %
FR	298	14.842	108	3.117	190	11.725	63.8 %	79.0 %
HR	85	2.462	59	1.758	26	0.704	30.6 %	28.6 %
IT	1 127	50.617	473	13.900	597	31.257	53.0 %	61.8 %
CY	160	5.728	51	1.614	109	4.114	68.1 %	71.8 %
LV	39	0.194	10	0.033	29	0.162	74.4 %	83.5 %
LT	48	0.206	15	0.086	33	0.120	68.8 %	58.3 %
LU	9	0.759	-	-	9	0.759	100.0 %	100.0 %
HU	-	-	-	-	-	-	-	-
MT	47	0.826	32	0.296	15	0.531	31.9 %	64.3 %
NL	907	12.511	564	4.787	343	7.724	37.8 %	61.7 %
AT	5	0.039	-	-	5	0.039	100.0 %	100.0 %
PL	108	2.376	8	0.028	100	2.348	92.6 %	98.8 %
PT	35	0.923	15	0.065	20	0.858	57.1 %	93.0 %
RO	82	0.867	2	0.024	80	0.843	97.6 %	97.2 %
SI	5	0.018	-	-	5	0.018	100.0 %	100.0 %
SK	-	-	-	-	-	-	-	-
FI	97	1.692	62	0.622	35	1.070	36.1 %	63.2 %
SE	301	6.579	66	0.803	235	5.776	78.1 %	87.8 %
UK	727	30.286	194	6.247	533	24.039	73.3 %	79.4 %
AL	28	0.097	12	0.029	16	0.068	57.1 %	70.1 %
ME	4	0.140	4	0.140	-	-	0.0 %	0.0 %
MK	-	-	-	-	-	-	-	-
RS	-	-	-	-	-	-	-	-
TR	1 486	28.118	466	7.028	1 020	21.090	68.6 %	75.0 %
IS	17	0.104	2	0.001	15	0.104	88.2 %	100.0 %
NO	1 711	74.613	533	16.790	1 178	57.823	68.8 %	77.5 %
CH	200	8.751	30	1.224	170	7.526	85.0 %	86.0 %

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

2.6.12a Sea – WORLD MERCHANT FLEET BY WORLD REGION

TOTAL CONTROLLED FLEET BY WORLD REGION

dwt (million)								
On 1 January								
World region	1995	2000	2005	2010	2015	2016	2017	2018
Europe (*)	311.246	350.136	400.947	518.276	739.100	773.535	807.389	805.649
of which: EU-28 (**)	223.564	257.975	316.850	432.246	600.143	625.711	645.420	673.113
North America	51.024	49.413	45.414	50.539	82.881	91.419	97.637	88.228
Latin America	18.691	15.679	14.422	30.867	29.608	26.721	26.254	26.115
Asia / Oceania	246.722	292.722	361.311	532.446	805.594	819.712	855.309	887.850
Africa	6.742	7.121	5.142	6.981	13.451	13.689	14.683	15.183
Unknown	37.956	38.115	52.687	86.555	4.561	7.385	4.786	3.025
TOTAL	672.381	753.226	879.923	1 225.665	1 652.479	1 707.066	1 763.694	1 824.734

SHARE OF EU IN TOTAL AND OF FOREIGN FLAG IN EU

EU-28 (**)	%							
Control of total	33.2	34.2	36.0	35.3	36.3	36.7	36.6	36.9
Foreign flag share (***)	56.5	68.1	67.8	69.4	75.5	77.7	78.5	78.9

Notes: Only ships of 1 000 gt and over.

(*) In this table Europe includes EU-28, EFTA, Monaco, Gibraltar, Andorra, Turkey, Western Balkan countries, Russia, Ukraine and Moldavia.

(**) EU-28 since 2012.

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

Sea – WORLD MERCHANT FLEET 2.6.12b

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 2018	Number			dwt (1 000)		
(ships of 1 000 gt and over)	WORLD	EU-28	%	WORLD	EU-28	%
TOTAL FLEET	43 121	13 321	31	1 824 734	673 113	37
Tankers	12 234	3 689	30	665 163	243 495	37
OF WHICH:						
Crude oil and oil product tankers	5 608	1 537	27	488 208	179 496	37
Oil / chemical tankers	4 918	1 659	34	112 678	47 889	43
Liquid gas tankers	1 708	493	29	64 277	16 110	25
Bulk carriers	10 928	3 196	29	790 851	249 501	32
Container ships	5 120	2 626	51	251 381	144 388	57
General cargo	12 389	3 002	24	108 862	30 372	28
OF WHICH:						
Conventional cargo	8 607	1 936	22	46 835	12 290	26
Special cargo (*)	1 443	524	36	38 410	11 411	30
Pure car carriers	777	98	13	12 422	1 436	12
Reefer	658	168	26	4 084	1 548	38
Ro-Ro cargo	904	276	31	7 112	3 687	52
Passenger and passenger cargo	2 309	747	32	6 393	2 655	42

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

NUMBERS AND GROSS TONS						
On 1 January 2018	Number			gt (1 000)		
(ships of 300 gt and over)	WORLD	EU-28	%	WORLD	EU-28	%
TOTAL	4 627	1 350	29	40 003	16 850	42
Cargo passenger and Ro-Ro passenger ships	2 772	879	32	17 498	9 398	54
Passenger (not Ro-Ro)	1 855	471	25	22 505	7 452	33

Up to December 2018 (**)

(ships of 1 000 gt and over)	WORLD	EU-28	%	WORLD	EU-28	%
Cruise ships by registered flag	307	102	33	20 827	7 092	34

Notes: (*) Including open hatch carriers.

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

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

Reefer: refrigerated ships.

2.6.13

Air

PASSENGER AIRCRAFT

NUMBER OF CIVIL AIRCRAFT IN SERVICE

PASSENGER AIRCRAFT					
On 31 December 2018					
EU-28	50 seats or less	51 to 150 seats	151 to 250 seats	251 seats and more	TOTAL
BE		36	30	18	84
BG	6	14	20		40
CZ	6	16	21	1	44
DK	22	12	20	6	60
DE	12	164	288	118	582
EE	2	12	6		20
IE	1	28	555	14	598
EL	16	21	55		92
ES	8	133	195	73	409
FR	48	124	120	106	398
HR		11	3		14
IT		59	67	41	167
CY		5			5
LV	1	34	7		42
LT	4	2	9		15
LU		14	4		18
HU	3		98		101
MT	5	2	13	2	22
NL	9	74	78	63	224
AT		51	188	6	245
PL	6	45	51	9	111
PT	6	46	36	31	119
RO	7	29	19		55
SI	9	11			20
SK			5		5
FI		33	30	20	83
SE	8	98	79	8	193
UK	72	160	462	160	854
AL					
ME					
MK					
RS					
TR		8	371	82	461
IS	11	3	41	5	60
NO	33	14	55	21	123
CH	13	48	84	16	161
LI					

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

Air

2.6.14

FREIGHT, SPECIAL, BUSINESS AIRCRAFT

NUMBER OF CIVIL AIRCRAFT IN SERVICE

FREIGHT, SPECIAL, BUSINESS AIRCRAFT

On 31 December 2018

	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-28	135	251	23	208	2 059
BE		35			56
BG	1	7			13
CZ				1	59
DK	2	14	7	4	67
DE	1	63		31	434
EE	10				10
IE	23	12		3	31
EL	5			19	18
ES	31	9	4	37	67
FR		14	3	27	132
HR				6	6
IT	3	7	1	29	79
CY					9
LV	5		1		3
LT	2			1	9
LU		23		6	80
HU	3	2	1	1	12
MT			2		178
NL		4		2	30
AT				6	203
PL	13	1	2	10	33
PT				11	116
RO				1	8
SI		2			16
SK		2			12
FI				3	8
SE	30	1		4	31
UK	6	55	2	6	339
AL					
ME					
MK					
RS					
TR		26		29	90
IS		12		1	
NO					12
CH	2			5	141
LI					3

Notes: Special purpose / Ambulance: contains data about Hospital / Ambulance / Medevac and Special Role / Operations / Mission aircraft.
mtow: maximum take-off weight.
In this table blank means none.

2.6.15

Rail

LOCOMOTIVES AND RAILCARS

STOCK OF VEHICLES

	1990	2000	2005	2010	2015	2016	2017	% CHANGE '16/'17
EU-28			49 551	64 015	64 828	65 536	63 537	-3.1
BE	1 727	1 670	1 518	1 341	1 188	1 188	1 188	0.0
BG	1 119	762	669	624	440	466	461	-1.1
CZ		3 596	3 163	2 258	2 285	2 290	2 242	-2.1
DK	524	415	464	495	537	493	493	0.0
DE	14 437	9 656	7 742	15 613	16 613	16 892	16 049	-5.0
EE	300	196	344	374	358	358	359	0.3
IE	166	224	412	572	482	482	482	0.0
EL	400	244	289	306	308	308	308	0.0
ES	1 922	1 693	1 946	1 732	1 634	1 512	1 502	-0.7
FR	7 422	7 158	6 948	6 849	7 614	7 701	7 661	-0.5
HR	563	480	377	284	298	298	298	0.0
IT	4 818	4 697	4 674	4 494	2 631	2 991	1 869	-37.5
CY	-	-	-	-	-	-	-	-
LV	739	433	358	196	204	202	196	-3.0
LT	389	419	365	275	240	241	227	-5.8
LU	97	124	145	91	89	91	91	0.0
HU	2 040	1 453	1 385	1 275	1 225	1 204	1 180	-2.0
MT	-	-	-	-	-	-	-	-
NL	2 372	1 965	2 078	2 411	2 780	3 088	3 193	3.4
AT	1 543	1 530	1 500	2 081	1 972	1 973	1 994	1.1
PL	5 483	5 293	5 828	5 657	5 526	5 384	5 270	-2.1
PT	530	589	439	275	277	231	233	0.9
RO	4 515	3 440	2 186	2 229	2 329	2 296	2 288	-0.3
SI	358	300	261	267	401	401	400	-0.2
SK		1 570	1 204	1 035	978	914	851	-6.9
FI	669	735	702	644	650	647	676	4.5
SE	1 234	1 032	1 377	1 927	2 422	2 538	2 679	5.6
UK	5 610		3 177	10 710	11 347	11 347	11 347	0.0
AL								
ME	-	-	-	-	-	-	-	-
MK	92	101	73	63	53	52	58	11.5
RS					335	449	368	-18.0
TR	897	849	735	673	851	866	889	2.7
IS	-	-	-	-	-	-	-	-
NO	502	299	289	544	270	272	279	2.6
CH	1 254	1 528	2 198	1 745	1 694	1 633	1 678	2.8

Notes: 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.

DE: includes DE-E: 1990 = 6 331

CS: 1990: 6 010

Rail

2.6.16

PASSENGER TRANSPORT VEHICLES

STOCK OF COACHES, RAILCARS AND TRAILERS

	1990	2000	2005	2010	2015	2016	2017	% CHANGE '16/'17
EU-28		110 861	101 768	104 906	99 328	101 205	99 548	-1.6
BE	3 286	3 494	3 251	3 412	2 345	3 879	3 838	-1.1
BG	2 386	2 099	1 558	1 369	756	756	756	0.0
CZ		5 252	4 895	4 514	4 139	3 988	3 910	-2.0
DK	1 594	1 590	1 473	1 307	2 209	2 097	2 041	-2.7
DE	24 139	21 097	20 169	18 565	18 990	19 034	17 753	-6.7
EE	596	241	234	217	280	280	229	-18.2
IE	314	421	581	592	426	426	426	0.0
EL	810	505	564	718	707	707	707	0.0
ES	3 839	3 765	5 239	5 665	4 336	4 280	4 266	-0.3
FR	15 748	15 656	15 879	16 890	17 335	18 009	18 118	0.6
HR	1 052	720	579	523	545	543	513	-5.5
IT	14 025	11 914	10 066	12 465	9 762	9 443	9 050	-4.2
CY	-	-	-	-	-	-	-	-
LV	1 226	702	490	238	374	372	370	-0.5
LT	664	563	467	337	217	230	214	-7.0
LU	114	149	185	214	242	242	259	7.0
HU	4 385	3 232	2 787	3 136	2 495	2 602	2 331	-10.4
MT	-	-	-	-	-	-	-	-
NL	2 268	2 742	852	2 824	2 791	2 993	3 093	3.3
AT	3 689	3 468	3 112	2 974	2 646	2 834	2 818	-0.6
PL	11 928	9 761	8 843	7 885	7 409	6 972	7 263	4.2
PT	1 232	1 303	1 125	965	977	966	981	1.6
RO	6 352	6 234	3 310	3 037	2 329	2 313	2 313	0.0
SI	606	461	401	355	349	349	347	-0.6
SK		2 273	1 808	1 530	1 406	1 419	1 373	-3.2
FI	957	1 003	1 084	1 071	1 101	1 203	1 227	2.0
SE	1 747	1 748	1 882	2 352	2 858	2 964	3 048	2.8
UK		10 468	10 934	11 751	12 304	12 304	12 304	0.0
AL								
ME	-	-	-	-	-	-	-	-
MK	175	164	125	64	67	67	67	0.0
RS					882	460	318	-30.9
TR	1 443	1 415	1 312	1 342	1 467	1 426	1 426	0.0
IS	-	-	-	-	-	-	-	-
NO	900	918	191	210	386	388	394	1.5
CH	4 136	3 333	4 293	4 949	5 245	5 280	5 355	1.4

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

DE: includes DE-E: 1990 = 9 635.

CS: 1990 = 8 597.

2.6.17

Rail

GOODS TRANSPORT WAGONS

STOCK OF VEHICLES

	1990	2000	2005	2010 (*)	2015 (*)	2016 (*)	2017 (*)
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	4 586	4 510
CZ		58 524	44 545	27 416	25 863	25 322	23 560
DK	4 632	2 236					
DE	366 724	189 558	158 247	108 840	88 066	86 468	82 864
EE		5 857	18 971	17 575	21 501	21 586	21 835
IE	1 830	1 856	926	502	254	254	254
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	11 346	11 292
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	5 513	5 420
IT	99 728	70 115	45 730	30 331	20 270	19 079	19 079
CY	-	-	-	-	-	-	-
LV	11 085	9 146	8 871	9 033	9 807	8 896	8 769
LT	12 860	13 155	13 192	9 238	8 574	8 333	8 131
LU	2 719	2 626	3 222	4 147	3 006	3 043	3 117
HU		23 528	19 130	11 357	8 916	9 145	8 898
MT	-	-	-	-	-	-	-
NL	6 697	4 700					
AT	34 330	23 970	22 655	21 015	19 294	18 817	18 619
PL	275 582	130 116	103 234	89 270	86 364	87 598	87 696
PT	4 579	4 162	3 495	3 194	3 283	3 283	3 202
RO	166 086	117 982	65 175	72 605	36 858	35 553	34 175
SI	8 692	6 258	4 465	3 211	3 049	2 992	2 779
SK		26 975	25 515	15 260	15 533	15 786	15 509
FI	15 200	12 630	11 216	10 464	8 854	8 876	8 821
SE	27 470	17 596	16 637	15 166			
UK	34 403						
AL							
ME	-	-	-	-	-	-	-
MK			1 525	1 144	1 161	1 281	1 289
RS					8 486	7 277	6 781
TR	21 941	17 872	17 499	17 773	19 077	19 570	15 979
IS	-	-	-	-	-	-	-
NO							
CH	27 104	19 894	18 339	8 794	6 911	6 356	5 686

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

Data relate to main railways (UIC members).

Road Fatalities

2.7.1

	1990	2000	2005	2010	2015	2016	2017	%	
								CHANGE '16/'17	CHANGE '01/'17
EU-28	77 176	57 082	45 943	31 506	26 130	25 644	25 256	-1.5	-54.0
BE	1 976	1 470	1 089	840	732	637	615	-3.5	-58.6
BG	1 567	1 012	957	776	708	708	682	-3.7	-32.5
CZ	1 291	1 486	1 286	802	734	611	577	-5.6	-56.7
DK	634	498	331	255	178	211	175	-17.1	-59.4
DE	11 046	7 503	5 361	3 648	3 459	3 206	3 180	-0.8	-54.4
EE	436	204	170	79	67	71	48	-32.4	-75.9
IE	478	418	400	212	162	185	156	-15.7	-62.1
EL	1 737	2 037	1 658	1 258	793	824	731	-11.3	-61.1
ES	9 032	5 777	4 442	2 479	1 689	1 810	1 830	1.1	-66.8
FR	11 215	8 079	5 318	3 992	3 461	3 471	3 444	-0.8	-57.8
HR	1 360	655	597	426	348	307	331	7.8	-48.8
IT	7 151	7 061	5 818	4 114	3 428	3 283	3 378	2.9	-52.4
CY	101	111	102	60	57	46	53	15.2	-45.9
LV	947	635	442	218	188	158	136	-13.9	-75.6
LT	1 001	641	773	299	242	192	191	-0.5	-72.9
LU	71	76	47	32	36	32	25	-21.9	-64.3
HU	2 432	1 200	1 278	740	644	607	625	3.0	-49.6
MT	4	15	17	13	11	23	19	-17.4	18.8
NL	1 376	1 082	750	537	531	533	535	0.4	-46.1
AT	1 558	976	768	552	479	432	414	-4.2	-56.8
PL	7 333	6 294	5 444	3 908	2 938	3 026	2 831	-6.4	-48.8
PT	2 646	1 877	1 247	937	593	563	602	6.9	-64.0
RO	3 782	2 466	2 629	2 377	1 893	1 915	1 951	1.9	-20.4
SI	517	314	258	138	120	130	104	-20.0	-62.6
SK	662	628	606	371	310	275	276	0.4	-55.0
FI	649	396	379	272	266	258	238	-7.8	-45.0
SE	772	591	440	266	259	270	253	-6.3	-56.6
UK	5 402	3 580	3 336	1 905	1 804	1 860	1 856	-0.2	-48.4
AL		280	307	352	270	269	222	-17.5	-25.3
ME				95	51	65	63	-3.1	
MK		162	143	162	148	165	155	-6.1	44.9
RS				656	601	606	578	-4.6	
TR	6 317	5 510	4 505	4 045	7 530	7 300	7 427	1.7	69.3
IS	24	32	19	8	16	18	16	-11.1	-33.3
NO	332	341	224	208	117	135	106	-21.5	-61.5
CH	954	592	409	328	253	216	230	6.5	-57.7

Note: 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).

2.7.2 Road Fatalities Country Rankings

FATALITIES

2017					
per million inhabitants		per 10 billion pkm		per million passenger cars	
SE	25	SE	22	SE	53
UK	28	UK	27	UK	58
DK	30	IE	28	LU	63
NL	31	DK	29	NL	64
IE	32	LU	32	MT	66
EE	36	DE	33	EE	67
DE	38	FI	35	DE	69
ES	39	EE	35	DK	70
MT	41	SI	38	FI	70
LU	42	NL	38	IE	75
FI	43	IT	43	ES	79
AT	47	FR	45	AT	85
EU-28	49	AT	49	IT	88
SI	50	EU-28	50	SI	94
SK	51	ES	53	EU-28	96
FR	52	BE	57	CY	102
BE	54	LT	59	CZ	106
CZ	54	PT	64	BE	107
IT	56	EL	68	FR	107
PT	58	MT	70	PT	121
CY	62	CZ	74	SK	127
HU	64	CY	79	PL	128
LT	68	LV	87	EL	139
EL	68	SK	94	LT	144
LV	70	HU	101	HU	184
PL	75	BG	115	LV	201
HR	80	HR	125	HR	210
BG	96	PL	135	BG	231
RO	100	RO	192	RO	340

Notes: 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 for 2017.

Pkm: indicator of traffic volume (in the absence of consistent vehicle-kilometre data); passenger-kilometres of cars indicated in table 2.3.4 for 2017 plus (mostly estimated) passenger-kilometres of motorised two-wheelers.

Inhabitants: the average population at 1 January 2017 and 1 January 2018.

Passenger cars: the average stock of vehicles indicated in table 2.6.2 for 2016 and 2017.

Road Fatalities

BY TYPE OF USER

2.7.3a

	YEAR	TOTAL	DRIVER	PASSENGER	PEDESTRIAN	PEDESTRIAN AS A % OF TOTAL
BE	2017	612	442	75	95	15.5
BG	2017	681	341	183	157	23.1
CZ	2017	577	345	103	129	22.4
DK	2017	175	133	22	20	11.4
DE	2017	3 180	2 290	401	489	15.4
EE	2017	48	28	10	10	20.8
IE	2017	158	102	26	30	19.0
EL	2017	731	507	106	118	16.1
ES	2017	1 830	1 171	308	351	19.2
FR	2017	3 444	2 447	517	480	13.9
HR	2017	331	210	65	56	16.9
IT	2017	3 378	2 319	459	600	17.8
CY	2017	53	32	6	15	28.3
LV	2017	136	61	24	51	37.5
LT	2017	192	90	34	68	35.4
LU	2017	25	17	4	4	16.0
HU	2017	625	347	108	170	27.2
MT	2017	19	6	6	7	36.8
NL	2017	535	424	47	64	12.0
AT	2017	414	294	47	73	17.6
PL	2017	2 831	1 458	500	873	30.8
PT	2017	602	398	74	130	21.6
RO	2017	1 950	788	429	733	37.6
SI	2017	104	74	20	10	9.6
SK	2017	276	146	50	80	29.1
FI	2017	238	175	36	27	11.3
SE	2017	245	167	41	37	15.1
UK	2017	1 856	1 085	286	485	26.1

Notes: Persons deceased within 30 days of their accident.
In this table the totals exclude the victims labelled as 'Unknown'.
'Driver' includes cyclists.

2.7.3b Road Fatalities of Vehicle Occupants BY TYPE OF VEHICLE

	YEAR	TOTAL	CAR AND TAXI	BUS OR COACH	HEAVY GOODS VEHICLE	LORRY, <3.5 TONNES	MOTORCYCLE	MOPED	PEDAL CYCLE	AGRICULTURAL TRACTOR	OTHER OR UNKNOWN
BE	2017	520	288	1	17	29	77	24	78	1	5
BG	2017	525	369	15	0	1	2	11	22	0	105
CZ	2017	448	279	4	20	12	69	2	57	2	3
DK	2017	155	99	2	0	5	11	9	27	0	2
DE	2017	2 691	1 437	22	72	95	583	59	382	15	26
EE	2017	38	27	0	1	0	0	1	1	0	8
IE	2017	128	91	0	0	0	20	0	15	0	2
EL	2017	613	285	0	9	43	216	32	11	14	3
ES	2017	1 479	799	3	57	98	359	49	78	14	22
FR	2017	2 964	1 767	14	51	99	669	117	173	11	63
HR	2017	275	187	1	0	9	42	8	23	4	1
IT	2017	2 778	1 472	18	92	64	735	92	254	13	38
CY	2017	38	14	0	0	4	14	2	4	0	0
LV	2017	85	59	0	4	1	1	6	11	2	1
LT	2017	124	98	0	0	0	10	3	13	0	0
LU	2017	21	13	0	0	1	7	0	0	0	0
HU	2017	455	277	4	7	24	43	17	81	0	2
MT	2017	12	11	0	0	0	1	0	0	0	0
NL	2017	471	194	0	7	21	53	36	101	0	59
AT	2017	341	182	0	8	16	83	14	32	4	2
PL	2017	1 958	1 295	3	137	0	231	55	220	17	0
PT	2017	472	204	1	4	55	106	43	25	23	11
RO	2017	1 218	812	7	12	64	52	17	191	8	55
SI	2017	94	30	0	3	0	25	4	11	0	21
SK	2017	196	128	3	4	14	0	8	21	0	18
FI	2017	211	133	2	10	12	13	5	23	3	10
SE	2017	216	131	4	3	5	39	1	26	1	6
UK	2017	1 371	815	15	22	41	355	3	103	3	14

Note: Persons deceased within 30 days of their accident.

Road Accidents

2.7.4

NUMBER OF ACCIDENTS INVOLVING PERSONAL INJURY

	1 000								%
	1990	1995	2000	2005	2010	2015	2016	2017	CHANGE '16/'17
EU-28	1502.077	1433.020	1505.653	1341.981	1130.398	1090.888	1099.075	1084.469	-1.3
BE	62.446	50.744	49.065	49.307	40.569	40.303	40.096	38.020	-5.2
BG	6.478	7.435	6.886	8.224	6.610	7.226	7.404	6.888	-7.0
CZ	21.910	28.746	25.445	25.239	19.675	21.561	21.386	21.263	-0.6
DK	9.155	8.373	7.346	5.413	3.498	2.853	2.882	2.789	-3.2
DE	389.350	388.003	382.949	336.618	288.297	305.659	308.145	302.656	-1.8
EE	2.099	1.644	1.504	2.341	1.347	1.391	1.468	1.405	-4.3
IE	6.067	8.117	7.749	6.533	5.779	5.831	5.893	6.066	2.9
EL	19.609	22.798	23.001	16.914	15.032	11.440	11.318	10.848	-4.2
ES	101.507	83.586	101.729	91.187	85.503	97.756	102.362	102.233	-0.1
FR	162.573	132.949	121.223	84.525	67.288	56.600	57.515	58.609	1.9
HR	14.471	12.668	14.430	15.679	13.274	11.038	10.457	10.939	4.6
IT	161.782	182.761	256.546	240.011	212.997	174.539	175.791	174.933	-0.5
CY	3.172	3.052	2.411	1.382	1.198	0.660	0.650	0.607	-6.6
LV	4.325	4.056	4.482	9.310	3.193	3.692	3.792	3.875	2.2
LT	5.135	4.144	5.807	6.772	3.530	3.031	3.201	3.059	-4.4
LU	1.216	1.145	0.899	0.775	0.787	0.983	0.941	0.955	1.5
HU	27.801	19.817	17.493	20.777	16.308	16.333	16.627	16.489	-0.8
MT	0.238	0.969	1.253	0.848	0.577	1.367	1.437	1.497	4.2
NL	44.892	42.641	42.271	27.007	10.778	18.523	18.749	18.706	-0.2
AT	46.338	38.956	42.126	40.896	35.348	37.960	38.466	37.402	-2.8
PL	50.532	56.904	57.331	48.100	38.832	32.967	33.664	32.760	-2.7
PT	45.110	48.339	44.463	37.066	35.426	31.955	32.299	34.416	6.6
RO	9.708	9.119	7.889	19.819	25.995	28.944	30.751	31.106	1.2
SI	5.177	6.567	8.951	10.509	7.659	6.578	6.495	6.185	-4.8
SK	8.236	8.713	7.884	7.903	8.119	5.502	5.602	5.317	-5.1
FI	10.175	7.812	6.633	7.020	6.072	5.164	4.752	4.432	-6.7
SE	16.975	15.626	15.770	18.094	16.627	14.829	14.086	14.951	6.1
UK	265.600	237.336	242.117	203.712	160.080	146.203	142.846	136.063	-4.7
AL		0.399	0.428	0.853	1.564	1.992	2.032	1.978	-2.7
ME					9.138	4.944	5.229	5.678	8.6
MK	2.300	2.436	1.667	2.821	4.223	3.854	3.902	4.019	3.0
RS					14.179	13.638	14.382	14.691	2.1
TR	55.771	66.029	75.201	87.273	116.804	183.011	185.128	182.669	-1.3
IS	0.564	1.057	0.979	0.671	0.876	0.912	0.986	0.952	-3.4
NO	8.801	8.625	8.440	8.078	6.434	4.563	4.374	4.086	-6.6
CH	23.834	23.030	23.737	21.706	19.609	17.736	17.577	17.799	1.3

Notes: The definition of an accident involving personal injury differs from country to country.
RO: only serious accidents before 2005.

2.7.5

Railway Fatalities

NUMBER OF RAILWAY PASSENGERS KILLED
IN ACCIDENTS INVOLVING RAILWAY

	1990	2000	2005	2010	2013	2014	2015	2016	2017
EU-28			66	63	97	15	27	44	15
BE	0	3	0	18	0	0	0	2	1
BG			3	0	0	2	2	1	0
CZ		1	4	2	0	2	6	4	1
DK	1	3	0	0	0	0	0	0	0
DE	50	38	7	0	0	0	3	7	2
EE			0	0	0	1	0	0	0
IE	1	2	0	0	0	0	0	0	0
EL	0	20	0	1	0	0	0	0	1
ES	4	0	1	15	79	3	0	3	1
FR	30	15	5	2	4	0	4	2	1
HR			1	1	0	0	0	0	0
IT	9	8	22	7	2	1	2	19	2
CY	-	-	-	-	-	-	-	-	-
LV			0	0	0	0	0	0	0
LT			0	0	0	0	0	0	0
LU	0	0	0	0	0	0	0	0	0
HU	33	11	6	3	4	3	3	4	1
MT	-	-	-	-	-	-	-	-	-
NL	2	0	0	0	0	0	0	1	0
AT	6	4	1	0	0	0	1	0	0
PL	21	20	0	7	6	2	3	1	1
PT	22	2	7	1	1	0	0	0	0
RO		0	1	4	1	1	3	0	0
SI		0	0	0	0	0	0	0	0
SK		0	0	0	0	0	0	0	1
FI	0	2	0	0	0	0	0	0	0
SE	3	0	0	2	0	0	0	0	0
UK	37	20	8	0	0	0	0	0	3
AL									
ME					0	0	0	0	0
MK			0	0	0	0	0	0	0
RS									
TR	17	9	10	3	1	1	0	1	0
IS	-	-	-	-	-	-	-	-	-
NO	4	32	0	0	0	0	0	0	0
CH	8	2	3	0	0	1	0	0	0

Note: ME: 2017 refers to 2016 figure.

Air LIVES LOST

2.7.6

PERIOD	Lives lost over EU-28 territory by any operator	Lives lost by EU-28 operators anywhere
1990	0	46
1991	32	264
1992	154	147
1993	16	12
1994	9	8
1995	133	70
1996	20	11
1997	71	1
1998	17	62
1999	46	66
2000	112	112
2001	123	126
2002	101	25
2003	3	3
2004	0	0
2005	144	128
2006	3	4
2007	0	0
2008	154	155
2009	11	230
2010	0	1
2011	6	6
2012	6	1
2013	0	0
2014	0	120
2015	154	150
2016	2	2
2017	0	0
2018	1	1
1970–1979/yr.	312	328
1980–1989/yr.	179	128
1990–1999/yr.	50	69
2000–2009/yr.	65	78
2010–2018/yr.	19	31

Notes: Onboard fatalities, and only those in aircraft with a take-off mass above 5 701 kg. Data include fatalities from Commercial Air Transport (passenger, cargo, air taxi, ferry/positioning and emergency medical service) and fatalities from General Aviation (only 'Business' flights).

2.7.7

Sea

SHIPS LOST (WORLD) – BY TYPE

YEAR	TANKERS		BULKERS AND 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

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

PART 3

ENERGY AND ENVIRONMENT



PART 3

SUMMARY

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Glossary

3.1.1

Conventional thermal power:

Technology for the production of electricity by combustion. May or may not include also 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, as well as 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 nor 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:

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) as well as 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 re-injected, 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 re-injection 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.

Pumping, 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):

The 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-28

3.1.4

	Mtoe 1990	1995	2000	2005	2010	2015	2016	2017
Production (*)	950.2	965.3	950.0	908.8	840.0	773.7	760.2	759.8
Solid fuels	369.0	279.8	214.6	196.3	165.2	145.4	132.8	130.7
Oil	136.0	177.0	177.3	135.6	99.4	76.5	75.7	74.5
Gas	164.0	191.0	209.8	190.5	159.3	107.3	107.3	103.1
Nuclear	205.5	227.5	244.0	257.8	234.6	220.1	213.5	210.7
Renewables	71.9	84.4	98.3	120.6	170.6	211.4	216.7	226.6
Industrial waste	3.8	5.7	6.1	7.9	11.0	13.0	14.2	14.2
Net Imports	749.8	735.9	825.8	985.9	957.5	905.8	910.7	947.7
Solid fuels	80.1	78.2	97.7	125.2	109.8	110.3	98.2	100.4
Oil	529.9	510.0	532.2	603.6	561.3	540.9	535.0	543.3
Gas	135.7	145.6	193.5	254.1	279.7	247.0	269.4	296.1
Electricity	3.9	1.8	2.0	1.3	0.7	1.2	1.6	0.9
Renewables	0.2	0.3	0.3	1.6	6.0	5.9	6.1	6.6
Other (**)	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5
Gross Inland Consumption	1 667.7	1 674.9	1 731.5	1 836.5	1 768.2	1 638.7	1 648.9	1 674.9
Solid fuels	454.6	364.6	320.9	317.9	284.1	264.5	243.4	234.8
Oil	630.6	655.1	664.0	684.2	613.5	564.2	570.1	582.1
Gas	297.0	335.7	396.0	445.1	447.6	357.9	382.7	398.4
Nuclear	205.5	227.5	244.0	257.8	234.6	220.1	213.5	210.7
Renewables	72.2	84.7	98.6	122.2	176.7	217.4	222.9	233.5
Other (***)	7.7	7.4	8.0	9.2	11.7	14.6	16.2	15.5
Elec. Generation (TWh)	2 594.8	2 742.7	3 034.0	3 315.2	3 362.0	3 239.4	3 261.8	3 294.3
Bunker fuels								
International maritime	35.7	35.2	42.5	49.2	49.4	42.0	44.1	44.5
International aviation	24.7	30.1	39.3	43.4	43.1	46.3	48.0	51.2
Final Energy Consumption by fuel/product	1 033.4	1 024.1	1 066.1	1 123.2	1 098.6	1 024.9	1 046.3	1 060.0
Solid fuels	114.9	71.4	46.5	38.6	35.9	31.7	31.3	31.3
Oil	426.6	434.0	450.2	458.8	414.7	385.6	391.3	394.1
Gas	211.0	232.5	256.5	272.6	264.2	229.5	238.1	239.3
Electricity	185.8	194.1	217.3	239.4	244.0	236.5	239.2	240.6
Renewables	39.0	44.3	49.1	59.7	84.1	91.8	94.4	102.4
Other (**)	56.0	47.9	46.4	54.1	55.7	49.7	51.9	52.4
by sector								
INDUSTRY	341.7	303.3	305.6	305.4	267.9	254.5	257.1	261.0
TRANSPORT (****)	260.2	275.8	305.0	325.3	320.4	313.3	320.8	326.9
Rail	8.3	8.3	8.2	7.7	7.3	6.5	6.5	6.5
Road	238.3	255.0	282.3	300.8	298.6	293.9	300.9	306.2
Domestic aviation	5.4	4.8	6.5	6.7	6.4	5.6	5.9	6.1
Domestic navigation	6.5	6.2	6.1	6.9	5.9	4.7	4.9	5.1
Consumption in pipeline transport, etc.	1.7	1.6	1.9	3.2	2.4	2.6	2.7	2.9
HOUSEHOLDS	274.1	285.4	291.3	310.1	321.9	278.6	287.6	288.0
AGRICULTURE	34.6	32.5	29.6	29.0	26.3	25.0	25.3	25.8
SERVICES, ETC.	122.8	127.0	134.6	153.4	162.0	153.5	155.5	158.4
CO₂ Emissions (Mt) (*****)	4 541.8	4 304.9	4 298.1	4 438.9	4 073.9	3 656.3	3 646.0	3 674.1
Primary Energy Intensity 2020-2030 (toe/M€ '10)	175	162	145	140	129	113	112	110
CO₂ Intensity (tCO₂/toe)	2.72	2.57	2.48	2.42	2.30	2.23	2.21	2.19
Import dependency, %	44.0	43.0	46.6	52.3	52.7	53.9	53.8	55.1
RES share in transport, % (*****)				1.8	5.2	6.6	7.1	7.4

Notes: (*) Including recovered products. (**) Derived heat and industrial waste. (***) Electrical energy and industrial waste. (****) Excluding international aviation, in line with changes in the energy balance methodology. (***** Source: European Environment Agency, June 2019, including international aviation and indirect CO₂ but excluding international maritime and and LULUCF (Land Use, Land – Use Change and Forestry). (***** Renewables share in transport, according to the definition in the 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 where as before 2011 all biofuels are accounted.

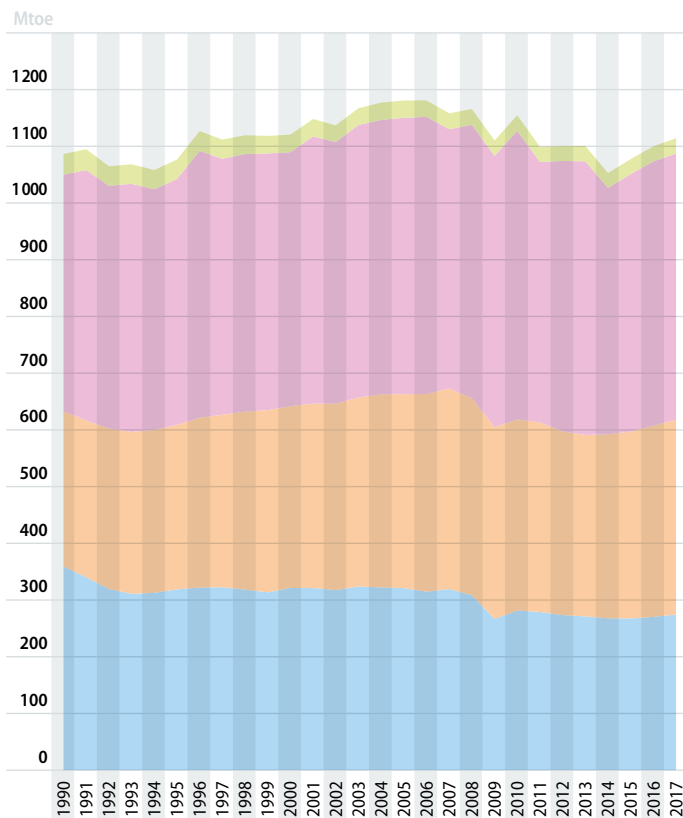
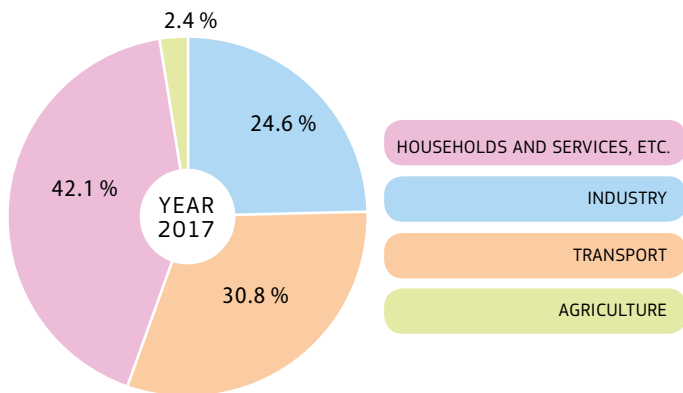
3.1.5

Final Energy Consumption 2017 – 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-28	1 060.0	261.0	326.9	306.2	6.5	6.1	5.1	2.9	472.1	288.0	25.8	158.4
Share	100 %	25 %	31 %	94 %	2 %	2 %	2 %	1 %	45 %	61 %	5 %	34 %
BE	32.9	10.5	8.9	8.5	0.2	0.0	0.1	0.0	13.5	8.1	0.8	4.6
BG	9.7	2.7	3.3	3.1	0.0	0.0		0.2	3.7	2.3	0.2	1.2
CZ	24.4	6.7	6.6	6.3	0.2	0.1	0.0	0.0	11.1	7.2	0.6	3.3
DK	13.9	2.3	4.2	3.9	0.1	0.0	0.1	0.1	7.3	4.5	0.7	2.0
DE	204.6	56.3	57.2	54.6	1.3	0.7	0.2	0.4	91.1	56.6		34.5
EE	2.8	0.5	0.8	0.8	0.0	0.0	0.0	0.0	1.5	0.9	0.1	0.5
IE	10.7	2.5	4.0	3.9	0.0	0.0	0.1		4.2	2.6	0.2	1.4
EL	16.1	3.1	5.8	5.0	0.1	0.2	0.6	0.0	7.1	4.4	0.3	2.4
ES	79.4	19.0	31.7	27.9	0.4	2.2	1.0	0.3	28.7	15.4	2.6	10.6
FR	141.0	26.5	45.4	43.0	1.0	0.8	0.5	0.1	69.1	40.6	4.1	24.3
HR	6.8	1.2	2.2	2.1	0.0	0.0	0.0	0.0	3.4	2.4	0.2	0.8
IT	113.6	24.9	34.5	31.7	0.5	0.8	0.9	0.7	54.2	32.9	2.9	18.3
CY	1.5	0.2	0.7	0.7		0.0			0.6	0.3	0.0	0.2
LV	3.9	0.8	1.1	1.0	0.1	0.0	0.0	0.0	2.0	1.2	0.2	0.6
LT	5.2	1.1	2.0	1.9	0.1	0.0	0.0	0.0	2.2	1.5	0.1	0.6
LU	3.6	0.6	2.0	1.9	0.0	0.0			1.0	0.5	0.0	0.5
HU	18.0	4.3	4.5	4.3	0.1	0.0	0.0	0.1	9.1	6.3	0.6	2.2
MT	0.5	0.1	0.2	0.2		0.0	0.0		0.2	0.1	0.0	0.1
NL	45.0	13.8	10.7	10.2	0.2	0.0	0.3		20.4	9.7	3.8	6.9
AT	26.2	8.1	8.7	8.0	0.2	0.0	0.0	0.4	9.5	6.6	0.5	2.4
PL	69.1	15.8	21.4	20.7	0.3	0.0	0.0	0.4	31.9	19.9	3.9	8.0
PT	15.3	4.5	5.8	5.5	0.1	0.2	0.1	0.0	5.0	2.6	0.5	1.9
RO	22.9	6.4	6.1	5.9	0.2	0.0	0.0	0.0	10.3	7.7	0.5	2.1
SI	4.8	1.3	1.8	1.8	0.0	0.0		0.0	1.7	1.1	0.1	0.5
SK	9.9	3.5	2.8	2.5	0.0	0.0		0.2	3.7	2.1	0.1	1.4
FI	24.6	10.7	4.2	3.9	0.1	0.1	0.1	0.0	9.7	5.8	0.7	3.2
SE	32.4	10.8	8.4	7.9	0.2	0.2	0.0		13.2	7.5	0.3	5.4
UK	121.2	22.7	41.9	39.1	1.0	0.9	0.9		56.6	37.1	1.4	18.2
MK	1.9	0.4	0.7	0.7	0.0	0.0	0.0	0.0	0.8	0.5	0.0	0.2
TR	100.5	32.1	28.3	26.1	0.2	1.3	0.3	0.4	40.0	22.2	4.3	13.6
IS	3.0	1.5	0.4	0.3	0.0	0.0	0.0	0.0	1.1	0.4	0.3	0.4
NO	18.5	6.0	4.6	3.4	0.1	0.4	0.7	0.1	7.9	4.1	0.4	3.3
CH												

Final Energy Consumption EU-28 – BY SECTOR (MTOE)

3.1.5



Note: Transport excluding international aviation and maritime.

3.1.6 Final Consumption of Motor Gasoline, Diesel & Biofuels for Transport

2017 – BY FUEL (KTOE)

	FINAL CONSUMPTION OF MOTOR GASOLINE AND DIESEL OIL FOR TRANSPORT (*)	Motor Gasoline	Gas / Diesel Oil	BIOFUELS	Biogasoline	Biodiesel	Other liquid biofuels (**)
EU-28	289 454.9	77 942.2	211 512.7	14 740.0	2 778.5	11 961.0	0.6
BE	8 132.2	1 431.7	6 700.4	478.5	96.7	381.8	
BG	2 381.1	505.3	1 875.8	166.2	26.7	139.6	
CZ	5 932.4	1 600.3	4 332.2	313.8	59.3	254.5	
DK	3 901.0	1 311.9	2 589.2	215.4		215.4	
DE	51 987.4	17 186.9	34 800.5	2 561.0	733.4	1 827.0	0.6
EE	784.4	266.9	517.4	1.0	1.0		
IE	3 858.8	904.6	2 954.2	175.4	44.5	130.9	
EL	4 865.9	2 450.8	2 415.1	165.8		165.8	
ES	27 223.9	4 871.4	22 352.4	959.5	138.0	821.5	
FR	40 082.0	7 441.4	32 640.6	3 335.2	537.3	2 797.9	
HR	2 071.5	534.6	1 536.9	0.5	0.2	0.3	
IT	28 420.0	7 432.6	20 987.3	1 061.7	33.1	1 028.7	
CY	668.0	371.3	296.7	8.6		8.6	
LV	1 002.8	191.9	810.9	9.3	7.9	1.4	
LT	1 744.0	213.7	1 530.3	61.0	7.4	53.6	
LU	1 842.4	300.5	1 541.8	113.4	6.7	106.6	0.0
HU	4 180.9	1 366.2	2 814.7	148.4	40.0	108.4	
MT	198.6	79.3	119.3	8.9		8.9	
NL	9 981.5	4 035.8	5 945.7	306.6	129.0	177.6	
AT	7 566.8	1 507.2	6 059.5	467.9	56.0	411.9	
PL	18 118.2	4 218.6	13 899.6	604.9	176.2	428.7	
PT	5 218.5	1 080.0	4 138.5	242.2	3.1	239.1	
RO	5 618.5	1 333.1	4 285.4	297.2	91.1	206.2	
SI	1 766.5	417.3	1 349.2	43.3	8.6	34.7	
SK	2 388.1	609.2	1 778.9	149.5	19.6	129.9	
FI	3 653.0	1 302.0	2 351.0	390.7	80.7	310.0	
SE	6 309.3	2 424.6	3 884.8	1 520.2	99.0	1 421.2	
UK	39 557.2	12 553.2	27 004.0	933.9	383.2	550.7	
MK	649.3	108.6	540.7	0.1		0.1	
TR	22 783.2	2 376.5	20 406.6	145.6	82.3	63.2	
IS	325.7	139.3	186.4	16.5	3.0	13.6	
NO	3 582.9	820.0	2 763.0	495.0	32.6	462.3	
CH							

Notes: (*) Without bio components.

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

Biofuels Production

2017 – BY FUEL (KTOE)

3.1.7

	TOTAL	Biogasoline	Biodiesel	Other liquid biofuels (*)
EU-28	15 104.2	2 415.9	12 239.4	448.9
BE	450.0	184.9	260.7	4.4
BG	97.1	13.9	83.2	
CZ	205.1	66.0	139.1	
DK	4.2			4.2
DE	3 336.7	405.7	2 841.1	89.9
EE				
IE	25.5		25.5	
EL	139.2		139.2	
ES	1 770.1	213.4	1 556.7	
FR	2 623.4	425.3	2 190.2	7.9
HR	0.3		0.3	
IT	869.1	16.9	611.8	240.4
CY	1.3		1.3	
LV	53.0	5.6	47.5	
LT	113.1	8.6	104.4	
LU				
HU	421.1	279.5	141.5	
MT	0.3		0.3	
NL	1 704.7		1 704.7	
AT	382.2	138.8	242.7	0.7
PL	917.7	122.9	792.9	1.9
PT	316.1		316.1	
RO	174.9	28.5	146.4	
SI				
SK	162.0	58.7	103.4	
FI	357.4		309.8	47.6
SE	237.5	119.3	66.3	52.0
UK	742.4	327.9	414.4	
MK				
TR	114.2	50.9	62.9	0.4
IS				
NO	99.3		99.3	
CH				

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

3.2.1 Total Greenhouse Gas (GHG) Emissions (*)

MILLION TONNES CO₂ EQUIVALENT

	1990	1995	2000	2005	2010	2015	2016	2017
EU-28	5 722.9	5 397.8	5 287.2	5 362.0	4 917.5	4 470.3	4 453.1	4 483.1
BE	149.7	157.6	154.5	148.9	137.1	121.6	120.2	119.4
BG	102.6	75.5	59.8	64.5	61.1	62.2	59.7	62.1
CZ	199.8	158.7	151.1	149.5	141.7	129.5	131.5	130.5
DK	72.1	80.1	73.2	68.8	65.5	50.8	53.0	50.8
DE	1 263.2	1 138.1	1 064.7	1 016.5	967.0	931.8	937.7	936.0
EE	40.5	20.3	17.4	19.3	21.3	18.3	19.8	21.1
IE	56.5	60.3	70.3	72.0	63.4	61.7	63.9	63.8
EL	105.6	111.8	128.9	138.9	121.0	98.2	94.8	98.9
ES	293.3	335.3	397.1	452.6	370.1	351.8	342.2	357.3
FR	556.6	553.8	567.0	570.7	528.0	477.3	477.8	482.0
HR	32.4	23.2	26.1	30.3	28.4	24.6	24.8	25.5
IT	522.1	538.3	562.1	589.2	514.7	443.7	442.5	439.0
CY	6.4	7.9	9.2	10.2	10.3	9.1	9.6	10.0
LV	26.5	13.0	10.6	11.6	12.7	11.6	11.7	11.8
LT	48.6	22.5	19.6	23.0	20.9	20.5	20.5	20.7
LU	13.1	10.7	10.6	14.3	13.4	11.6	11.6	11.9
HU	94.2	75.9	73.9	76.2	65.7	61.3	61.7	64.5
MT	2.3	3.0	3.1	3.2	3.2	2.5	2.3	2.6
NL	226.4	239.3	229.8	225.8	224.1	207.5	207.6	205.8
AT	79.6	80.9	82.1	94.5	86.8	81.0	81.9	84.5
PL	475.0	445.7	396.3	404.3	413.1	392.3	401.1	416.3
PT	60.8	70.8	84.3	88.1	71.7	71.1	69.5	74.6
RO	248.9	187.8	143.6	151.7	124.4	117.2	115.2	114.8
SI	18.7	18.8	19.1	20.6	19.7	16.9	17.7	17.5
SK	73.4	53.3	49.2	51.3	46.4	41.8	42.3	43.5
FI	72.3	72.8	71.3	71.2	77.4	57.2	60.1	57.5
SE	72.7	74.7	70.4	68.6	66.4	55.7	55.5	55.5
UK	809.9	767.6	741.9	726.2	642.1	541.5	517.0	505.4
MK								
TR	219.8	248.4	300.5	340.6	404.6	483.4	509.2	537.4
IS	3.8	3.7	4.4	4.4	5.2	5.4	5.6	5.9
NO	51.9	51.8	55.7	56.3	56.8	56.1	55.2	54.4
CH	56.7	56.1	57.2	58.3	58.5	52.9	53.5	52.6

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

GHGs: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), sulphur hexafluoride (SF₆), hydrofluorocarbons (HFC), perfluorocarbons (PFC).

(*) 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 (*)

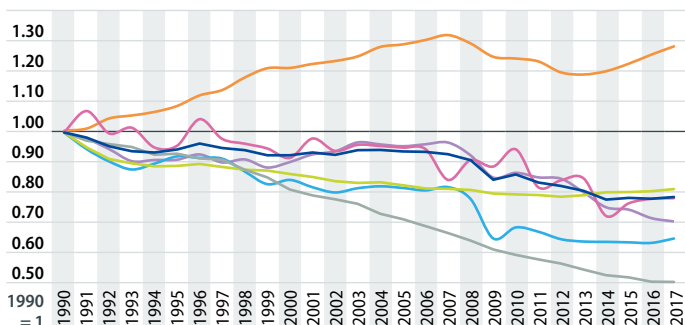
	1990	1995	2000	2005	2010	2015	2016	2017
EU-28	973.1	1 044.5	1 178.6	1 272.2	1 230.8	1 192.7	1 225.6	1 249.9
BE	37.4	38.9	45.9	55.6	55.7	50.1	52.7	54.4
BG	7.5	6.2	6.0	8.8	8.8	10.0	10.2	10.4
CZ	12.0	11.0	12.7	18.3	17.8	18.4	19.1	19.7
DK	15.6	19.0	18.9	18.6	17.9	17.7	17.8	17.6
DE	183.0	198.3	208.0	191.5	186.7	194.5	200.9	203.9
EE	3.1	1.9	2.1	2.7	3.0	3.4	3.3	3.6
IE	6.3	7.8	13.1	16.0	14.3	14.8	15.4	15.5
EL	25.4	31.1	33.3	34.0	34.1	25.9	26.3	27.9
ES	75.2	87.0	115.7	139.6	131.0	121.6	126.3	127.5
FR	139.4	150.7	165.0	166.9	159.1	156.8	156.8	157.8
HR	4.5	3.7	4.8	5.9	6.3	6.3	6.6	7.1
IT	111.0	124.3	136.0	143.9	131.1	121.2	120.3	117.9
CY	2.2	2.6	3.3	3.9	3.8	3.4	3.8	3.9
LV	4.8	2.7	2.3	4.2	4.5	4.3	4.6	4.6
LT	6.5	3.7	3.6	4.8	5.0	5.6	6.3	6.6
LU	3.0	3.9	5.8	8.5	7.8	7.1	7.0	7.3
HU	9.4	8.1	9.8	12.8	12.4	12.8	13.1	13.8
MT	1.4	2.3	3.0	2.8	5.4	6.1	6.5	8.0
NL	67.9	73.2	85.7	97.3	90.1	80.5	80.7	81.0
AT	14.9	17.3	20.6	27.0	24.7	24.9	25.9	26.6
PL	22.8	25.0	30.4	38.2	51.5	50.5	57.4	66.7
PT	13.2	16.3	23.2	23.7	23.2	21.5	22.6	23.5
RO	13.2	9.2	10.3	13.0	14.8	16.6	17.8	19.1
SI	2.8	3.8	3.9	4.5	5.4	5.6	6.2	6.1
SK	7.0	5.6	5.8	7.8	7.6	7.4	7.7	7.8
FI	15.0	13.3	15.3	15.9	15.0	13.8	15.0	14.7
SE	22.6	24.5	26.5	29.8	29.3	26.2	26.4	27.2
UK	145.9	153.1	167.7	176.4	164.4	165.4	168.8	169.3
MK								
TR	27.9	35.5	39.4	48.8	53.7	89.7	95.6	98.7
IS	0.9	0.9	1.1	1.3	1.3	1.7	2.1	2.4
NO	13.0	13.8	15.9	16.8	17.2	16.7	15.8	14.7
CH	17.8	18.0	20.7	19.4	20.6	20.3	20.4	20.3

Notes: (*) 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-28, changes in international maritime emissions between 2010 and 2011 show inconsistency with changes in energy statistics on bunker fuels.

3.2.3 GHG Emissions (*) EU-28 – 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	4417.8	4224.8	1675.7	1437.1	122.7	115.9	836.1	184.1	16.7	112.2	34.6	51.9	436.6
1995	4175.9	4011.6	1524.1	1289.6	131.4	103.1	747.7	164.1	16.9	108.6	38.7	60.6	358.9
2000	4136.1	4005.8	1511.2	1292.4	134.4	84.4	685.0	146.2	17.5	91.3	36.7	54.7	338.6
2005	4253.6	4140.1	1599.2	1372.6	144.2	82.4	638.6	129.5	15.9	84.8	34.6	49.4	324.3
2010	3929.8	3833.6	1450.9	1241.1	134.5	75.3	533.0	110.7	14.0	71.2	29.4	39.8	267.9
2011	3786.0	3690.7	1425.2	1220.9	131.8	72.5	518.0	108.5	13.5	70.1	28.3	37.5	260.1
2012	3739.7	3645.5	1417.9	1229.5	127.2	61.3	497.0	104.2	12.2	68.6	27.6	38.1	246.3
2013	3651.9	3559.6	1342.3	1163.6	120.5	58.2	488.4	103.5	9.5	68.3	27.9	38.0	241.2
2014	3474.8	3385.3	1258.2	1083.8	117.4	57.1	481.1	103.2	8.9	65.6	26.1	37.9	239.4
2015	3514.8	3425.9	1245.2	1071.5	118.0	55.7	483.5	105.7	9.1	62.6	24.6	38.0	243.5
2016	3502.7	3417.1	1197.9	1023.9	118.2	55.8	484.0	97.2	9.1	64.2	25.5	38.7	249.4
2017	3526.1	3439.9	1179.3	1007.0	116.5	55.8	499.8	100.4	9.6	69.0	25.7	40.3	254.7

Energy Industries - Industry (***) - Transport (**) - Residential & Commercial - Agriculture, Forestry, Fisheries (****) - Other (*****) - Total

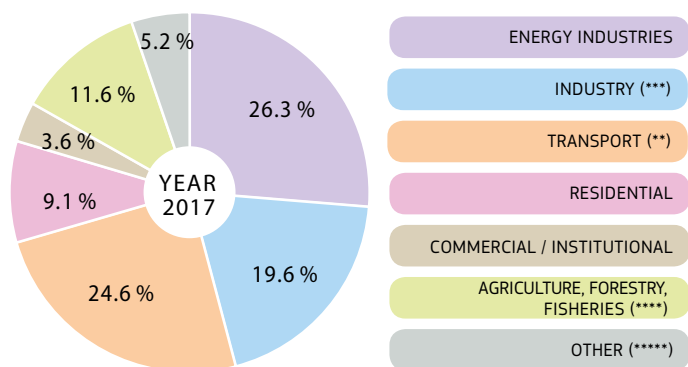


- Notes:** (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from 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-28 – 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					
862.3	826.9	201.0	527.5	98.4	23.7	193.0	517.2	543.3	240.4		4.2	5 722.9	1990
933.0	792.7	176.0	519.6	97.1	14.0	164.3	498.4	472.6	247.4		3.5	5 397.8	1995
1 042.4	757.3	174.6	491.6	91.0	9.9	130.3	455.6	461.3	231.5		2.9	5 287.2	2000
1 109.9	781.2	184.1	507.0	90.1	11.3	113.5	465.8	438.0	202.0		2.5	5 362.0	2005
1 069.3	771.7	187.3	499.6	84.8	8.7	96.2	394.3	423.4	167.8		2.2	4 917.5	2010
1 060.9	678.0	165.8	429.2	83.1	8.5	95.3	389.8	423.9	162.1		2.1	4 763.9	2011
1 029.5	693.6	169.9	442.2	81.5	7.5	94.2	377.3	421.7	157.9		2.0	4 698.6	2012
1 023.5	698.1	171.7	445.0	81.3	7.3	92.3	375.3	425.2	151.2		1.8	4 605.5	2013
1 033.0	605.9	151.1	374.5	80.3	7.0	89.5	381.3	432.9	145.5		1.8	4 436.3	2014
1 054.5	636.0	161.2	395.2	79.6	6.8	88.9	376.7	433.8	143.2		1.8	4 470.3	2015
1 080.5	648.0	161.2	406.1	80.6	6.7	85.7	373.7	434.8	140.1		1.7	4 453.1	2016
1 104.1	649.8	161.8	407.1	80.9	6.8	86.2	377.5	439.0	138.9		1.7	4 483.1	2017



Notes: (*) 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-28

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	77.2	95.6	39.7	85.8	7.3	6.9	19.8	22.0	2.0	13.4	4.1	6.2	52.2
1991	77.9	95.9	39.1	86.2	7.1	6.7	18.9	21.6	2.3	13.5	4.7	7.0	50.9
1992	77.9	95.8	38.8	86.2	7.4	6.3	18.6	21.2	2.2	12.7	4.8	7.2	51.8
1993	77.9	95.8	37.8	85.5	8.0	6.5	18.3	20.9	2.3	12.7	4.9	7.7	51.6
1994	77.4	96.1	38.3	85.0	8.2	6.8	18.4	22.0	2.3	13.6	5.2	7.9	49.0
1995	77.4	96.1	38.0	84.6	8.6	6.8	18.6	21.9	2.3	14.5	5.2	8.1	48.0
1996	77.8	96.3	37.6	85.0	8.7	6.3	17.9	20.7	2.4	14.4	5.2	8.3	49.0
1997	77.4	96.2	37.3	84.4	9.1	6.5	18.1	21.8	2.5	14.0	5.2	8.1	48.4
1998	77.8	96.4	37.7	84.9	9.0	6.1	17.2	21.9	2.6	13.3	5.3	8.1	48.9
1999	78.3	96.5	37.1	85.3	8.9	5.9	17.0	21.2	2.6	13.2	5.2	8.3	49.5
2000	78.2	96.8	37.7	85.5	8.9	5.6	17.1	21.3	2.6	13.3	5.4	8.0	49.4
2001	78.9	97.0	38.0	85.9	8.9	5.2	16.3	20.4	2.8	13.7	5.3	8.4	49.5
2002	79.0	97.0	38.7	85.9	8.7	5.3	15.9	20.1	2.8	13.5	5.4	8.5	49.7
2003	79.3	97.1	39.1	86.5	8.5	5.1	15.7	19.8	2.7	13.7	5.4	8.2	50.1
2004	79.2	97.3	38.8	86.2	8.7	5.1	15.5	20.5	2.6	13.4	5.3	8.1	50.0
2005	79.3	97.3	38.6	85.8	9.0	5.2	15.4	20.3	2.5	13.3	5.4	7.7	50.8
2006	79.5	97.4	38.8	86.1	8.7	5.2	15.2	21.1	2.5	13.1	5.5	7.2	50.6
2007	79.2	97.5	39.5	86.4	8.7	5.0	15.4	21.8	2.4	12.4	5.2	7.1	51.0
2008	79.4	97.5	38.5	85.7	9.2	5.1	15.0	21.4	2.5	13.0	5.2	7.1	50.8
2009	79.6	97.5	38.1	85.9	9.4	4.7	13.4	18.5	2.7	14.0	5.7	7.6	51.4
2010	79.9	97.6	37.8	85.5	9.3	5.2	13.9	20.8	2.6	13.4	5.5	7.5	50.3
2011	79.5	97.5	38.6	85.7	9.2	5.1	14.0	20.9	2.6	13.5	5.5	7.2	50.2
2012	79.6	97.5	38.9	86.7	9.0	4.3	13.6	21.0	2.5	13.8	5.5	7.7	49.6
2013	79.3	97.5	37.7	86.7	9.0	4.3	13.7	21.2	1.9	14.0	5.7	7.8	49.4
2014	78.3	97.4	37.2	86.1	9.3	4.5	14.2	21.5	1.9	13.6	5.4	7.9	49.8
2015	78.6	97.5	36.3	86.1	9.5	4.5	14.1	21.9	1.9	12.9	5.1	7.9	50.4
2016	78.7	97.6	35.1	85.5	9.9	4.7	14.2	20.1	1.9	13.3	5.3	8.0	51.5
2017	78.7	97.6	34.3	85.4	9.9	4.7	14.5	20.1	1.9	13.8	5.1	8.1	51.0

Notes: (*) 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-28

BY SECTOR (SHARES %)

3.2.3

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE-SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Indirect CO ₂	TOTAL EMISSIONS	
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries				Agriculture	Waste	Other				
20.4	19.6	24.3	63.8	11.9	0.6	4.4	9.0	9.5	4.2		0.1	100	1990
20.7	20.9	23.8	65.1	11.1	0.5	4.1	8.6	9.1	4.3		0.1	100	1991
22.0	20.1	22.9	65.5	11.6	0.4	4.2	8.5	9.0	4.5		0.1	100	1992
22.6	20.9	22.3	66.0	11.7	0.4	4.2	8.5	8.9	4.6		0.1	100	1993
23.1	19.9	22.0	65.6	12.4	0.4	3.9	9.1	8.8	4.6		0.1	100	1994
23.3	19.8	22.2	65.5	12.3	0.3	3.9	9.2	8.8	4.6		0.1	100	1995
23.3	20.8	22.5	65.9	11.6	0.3	3.7	9.1	8.6	4.5		0.1	100	1996
24.2	20.0	22.2	65.9	11.9	0.3	3.8	9.3	8.7	4.5		0.1	100	1997
25.1	19.6	22.8	65.4	11.8	0.3	3.6	9.0	8.7	4.5		0.1	100	1998
26.1	19.6	23.3	64.8	11.9	0.3	3.5	8.4	8.8	4.4		0.1	100	1999
26.0	18.9	23.1	64.9	12.0	0.2	3.2	8.6	8.7	4.4		0.1	100	2000
25.8	19.7	23.4	65.3	11.3	0.2	3.0	8.2	8.5	4.3		0.1	100	2001
26.2	19.0	23.1	65.4	11.5	0.2	3.0	8.2	8.5	4.2		0.0	100	2002
25.9	19.0	22.8	65.9	11.3	0.2	2.9	8.4	8.2	4.0		0.0	100	2003
26.6	18.9	23.5	65.1	11.4	0.3	2.7	8.7	8.2	3.9		0.0	100	2004
26.8	18.9	23.6	64.9	11.5	0.3	2.7	8.7	8.2	3.8		0.0	100	2005
27.1	18.7	24.6	64.2	11.2	0.3	2.6	8.7	8.1	3.7		0.0	100	2006
27.7	17.0	24.2	63.8	12.0	0.3	2.5	9.0	8.2	3.6		0.0	100	2007
27.7	18.5	24.9	63.8	11.3	0.3	2.5	8.7	8.4	3.5		0.0	100	2008
28.8	19.5	24.6	64.0	11.3	0.2	2.5	7.8	8.9	3.6		0.0	100	2009
27.9	20.1	24.3	64.7	11.0	0.2	2.4	8.0	8.6	3.4		0.0	100	2010
28.7	18.4	24.4	63.3	12.3	0.2	2.5	8.2	8.9	3.4		0.0	100	2011
28.2	19.0	24.5	63.8	11.8	0.2	2.5	8.0	9.0	3.4		0.0	100	2012
28.8	19.6	24.6	63.8	11.6	0.2	2.5	8.1	9.2	3.3		0.0	100	2013
30.5	17.9	24.9	61.8	13.2	0.2	2.6	8.6	9.8	3.3		0.0	100	2014
30.8	18.6	25.3	62.1	12.5	0.2	2.5	8.4	9.7	3.2		0.0	100	2015
31.6	19.0	24.9	62.7	12.4	0.2	2.4	8.4	9.8	3.1		0.0	100	2016
32.1	18.9	24.9	62.7	12.5	0.2	2.4	8.4	9.8	3.1		0.0	100	2017

Notes: (*) 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 (*) 2017 – 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-28	3526.1	3439.9	1179.3	1007.0	116.5	55.8	499.8	100.4	9.6	69.0	25.7	40.3	254.7
BE	88.1	87.4	20.2	15.3	4.8	0.2	13.5	1.2	0.5	3.3	0.7	2.3	5.5
BG	45.3	43.5	27.7	26.8	0.9	0.0	3.6	0.1	0.2	1.0	0.1	0.2	1.9
CZ	100.0	96.4	51.8	45.3	0.5	5.9	10.4	2.2	0.1	1.9	0.4	1.0	4.7
DK	36.8	36.4	11.6	9.3	0.9	1.4	4.0	0.1		0.4	0.0	1.1	2.4
DE	795.1	785.2	313.4	283.0	20.4	10.1	135.6	38.6	0.3		0.0	0.2	96.4
EE	18.7	18.7	14.7	13.3		1.4	0.6		0.0	0.0	0.0	0.0	0.6
IE	39.8	39.7	11.6	11.2	0.3	0.1	4.7	0.0	1.4	0.3	0.0	0.9	2.1
EL	73.6	72.7	39.9	35.0	4.9	0.0	5.8	0.1	0.8	0.3	0.1	0.6	3.9
ES	276.0	271.4	81.2	68.6	11.4	1.3	43.5	6.0	1.3	7.8	4.3	5.3	18.8
FR	344.6	340.6	49.6	39.8	6.8	3.0	51.4	12.9	0.9	10.7	3.1	7.4	16.5
HR	17.8	17.3	4.5	2.9	1.4	0.2	2.4	0.0	0.0	0.3	0.1	0.4	1.6
IT	357.1	350.0	104.8	78.2	20.8	5.8	51.1	9.4	1.1	9.6	5.0	3.9	22.1
CY	7.6	7.6	3.3	3.3		0.0	0.7		0.0	0.0	0.0	0.1	0.6
LV	7.7	7.5	1.5	1.5		0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.5
LT	11.7	11.4	2.6	1.1	1.4	0.1	1.2			0.3	0.0	0.2	0.6
LU	10.5	10.4	0.2	0.2			1.1	0.3	0.1	0.1	0.0	0.0	0.6
HU	46.9	45.9	14.0	12.1	1.5	0.3	4.9	0.2	0.2	0.4	0.5	0.7	2.9
MT	2.0	2.0	0.7	0.7			0.0						0.0
NL	172.3	170.6	63.5	51.7	9.1	2.7	29.1	5.4	0.2	14.5	0.9	3.7	4.3
AT	58.5	58.1	11.2	8.2	2.7	0.3	11.1	1.6	0.3	1.7	1.8	1.0	4.6
PL	344.6	320.3	164.9	156.3	5.5	3.1	31.2	6.0	1.1	6.3	1.6	4.3	11.9
PT	55.1	53.8	20.8	18.3	2.5		7.6	0.1		1.1	1.2	0.8	4.4
RO	76.6	66.5	23.9	19.5	2.1	2.3	11.7	1.2		1.8	0.2	0.9	7.5
SI	14.1	13.7	4.9	4.9		0.0	1.7	0.2	0.1	0.1	0.3	0.1	0.9
SK	29.6	27.9	7.5	4.8	1.5	1.2	7.1	3.1	0.1	0.5	0.4	0.3	2.7
FI	43.1	43.0	17.6	15.5	1.7	0.3	6.9	0.9	0.1	0.7	2.6	0.2	2.4
SE	39.4	38.6	9.2	6.8	2.0	0.4	6.9	1.4	0.1	0.5	0.8	0.3	3.8
UK	413.5	403.5	102.6	73.3	13.6	15.7	51.4	9.3	0.7	5.3	1.4	4.1	30.5
MK													
TR	391.0	384.3	155.0	146.2	6.4	2.4	60.2	4.3	1.1	5.3	0.9	4.9	43.5
IS	3.1	2.9	0.0	0.0			0.2	0.0	0.0			0.0	0.2
NO	40.1	36.8	15.6	1.9	0.8	12.9	4.0	0.1	0.1	1.2	0.1	0.4	2.1
CH	41.8	41.6	3.3	2.9	0.4	0.0	4.9	0.3	0.1	0.8	0.2	0.7	2.9

Note: (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.

GHG Emissions (*) 2017 – 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	
1 104.1	649.8	161.8	407.1	80.9	6.8	86.2	377.5	439.0	138.9		1.7	4 483.1	EU-28
30.7	23.0	5.5	15.2	2.3	0.1	0.7	19.7	10.1	1.5			119.4	BE
10.2	2.0	0.4	1.2	0.5		1.9	6.4	6.6	3.8			62.1	BG
19.7	14.0	3.0	9.8	1.2	0.5	3.6	15.7	8.4	5.6	0.7		130.5	CZ
16.1	4.3	0.7	2.1	1.5	0.3	0.4	2.0	10.6	1.1		0.3	50.8	DK
197.3	137.9	38.2	92.9	6.8	0.9	9.9	64.5	66.3	10.2			936.0	DE
2.6	0.7	0.1	0.3	0.3	0.1	0.0	0.6	1.4	0.3			21.1	EE
15.1	8.4	2.0	5.7	0.6		0.1	3.5	19.6	0.9			63.8	IE
20.7	6.0	0.7	4.8	0.5	0.2	1.0	12.8	7.9	4.6			98.9	EL
105.9	40.3	10.7	17.8	11.8	0.5	4.6	28.2	39.5	13.5			357.3	ES
152.1	87.4	28.7	48.1	10.6		4.0	43.9	76.2	17.2			482.0	FR
7.1	3.3	0.6	2.0	0.7		0.5	2.7	2.8	2.1			25.5	HR
110.7	83.0	23.7	51.5	7.8	0.3	7.1	32.8	30.8	18.2			439.0	IT
3.1	0.5	0.1	0.4	0.1	0.0	0.0	1.3	0.5	0.6			10.0	CY
3.8	1.5	0.4	0.6	0.5	0.0	0.2	0.7	2.8	0.6		0.0	11.8	LV
6.1	1.5	0.3	0.9	0.2	0.0	0.3	3.6	4.4	1.0			20.7	LT
7.3	1.7	0.6	1.1	0.0	0.0	0.0	0.7	0.7	0.1			11.9	LU
13.8	13.1	3.1	8.6	1.4	0.0	1.0	7.2	7.1	3.4			64.5	HU
1.1	0.2	0.2	0.0	0.0	0.0		0.3	0.1	0.2			2.6	MT
43.3	34.6	7.7	17.0	10.0	0.2	1.7	11.1	18.9	3.1	0.5		205.8	NL
26.5	9.3	1.2	7.2	0.9	0.1	0.4	17.2	7.3	1.5		0.0	84.5	AT
65.9	58.4	7.4	38.8	12.1		24.3	27.0	31.7	13.0			416.3	PL
21.0	4.4	1.2	2.0	1.2	0.0	1.3	7.8	6.9	4.7		0.2	74.6	PT
19.0	11.2	2.2	7.7	1.3	0.7	10.1	13.1	19.3	5.9			114.8	RO
5.6	1.5	0.4	0.8	0.2	0.0	0.4	1.2	1.7	0.6			17.5	SI
7.8	5.4	1.6	3.3	0.4	0.1	1.7	9.6	2.5	1.7			43.5	SK
13.6	3.8	1.0	1.4	1.4	1.1	0.2	5.9	6.5	1.9		0.1	57.5	FI
19.4	2.9	0.8	0.7	1.4	0.2	0.9	7.6	7.2	1.3			55.5	SE
158.6	89.4	19.3	65.2	4.9	1.6	10.1	30.2	41.2	20.4			505.4	UK
													MK
95.8	73.4	20.6	42.6	10.2		6.7	66.5	62.5	17.4			537.4	TR
2.2	0.5	0.0	0.0	0.5		0.1	2.0	0.6	0.2			5.9	IS
14.2	2.9	1.1	1.0	0.8	0.2	3.2	8.6	4.5	1.2			54.4	NO
20.2	13.0	4.2	8.4	0.4	0.1	0.2	3.9	6.1	0.7	0.0	0.1	52.6	CH

Notes: (*) 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 (*) 2017

BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public Electricity and Heat Production	Petroleum Refining	Other Energy Industries	MANUFACTURING AND CONSTRUCTION	Iron and Steel	Non-Ferrous Metals	Chemicals	Pulp, Paper and Print	Food, Beverages and Tobacco	Other
EU-28	78.7	97.6	34.3	85.4	9.9	4.7	14.5	20.1	1.9	13.8	5.1	8.1	51.0
BE	73.8	99.3	23.1	75.6	23.6	0.8	15.4	9.0	3.6	24.7	5.0	17.0	40.7
BG	73.0	95.9	63.7	96.8	3.2	0.0	8.3	3.3	4.9	28.2	3.2	6.7	53.7
CZ	76.7	96.4	53.7	87.6	1.0	11.4	10.8	21.1	1.4	18.3	4.2	9.9	45.1
DK	72.3	99.0	31.8	80.1	8.1	11.9	11.1	2.8		9.0	1.1	27.0	60.1
DE	84.9	98.8	39.9	90.3	6.5	3.2	17.3	28.5	0.2		0.0	0.1	71.1
EE	88.9	99.9	78.7	90.6		9.4	3.4		0.7	2.4	1.8	2.5	92.7
IE	62.4	99.8	29.3	96.2	2.7	1.1	11.7	0.1	30.1	6.0	0.4	19.3	44.2
EL	74.4	98.7	55.0	87.6	12.3	0.1	8.0	1.8	13.1	4.6	1.3	11.2	68.0
ES	77.2	98.3	29.9	84.4	14.0	1.6	16.0	13.8	2.9	17.9	9.8	12.3	43.2
FR	71.5	98.8	14.6	80.2	13.7	6.1	15.1	25.1	1.7	20.8	6.0	14.4	32.0
HR	69.9	97.2	26.0	65.0	30.1	4.9	14.0	1.5	0.9	13.8	4.0	14.9	65.0
IT	81.4	98.0	29.9	74.6	19.8	5.5	14.6	18.4	2.1	18.7	9.8	7.7	43.2
CY	76.6	100.0	43.3	100.0		0.0	8.7		0.3	0.7	0.3	10.3	88.4
LV	65.1	98.0	20.6	97.0		3.0	8.9	0.1	0.2	5.1	0.9	13.7	80.0
LT	56.2	97.4	22.7	44.2	53.7	2.1	10.4			23.2	2.8	21.0	53.0
LU	87.8	99.7	2.3	100.0			10.9	23.6	4.7	12.6	0.5	2.2	56.5
HU	72.7	97.9	30.4	87.0	10.8	2.2	10.8	4.0	3.9	8.3	9.8	14.7	59.3
MT	79.3	100.0	35.5	100.0			1.6						100.0
NL	83.7	99.0	37.2	81.5	14.3	4.2	17.1	18.7	0.6	50.0	3.1	12.9	14.8
AT	69.3	99.3	19.3	73.0	24.5	2.5	19.0	14.2	2.9	15.6	16.5	9.1	41.7
PL	82.8	93.0	51.5	94.8	3.3	1.9	9.7	19.1	3.7	20.2	5.0	13.7	38.3
PT	73.8	97.7	38.7	88.1	11.9		14.1	1.5		14.5	15.7	10.4	57.8
RO	66.7	86.8	36.0	81.6	8.8	9.6	17.6	10.6		15.8	2.0	7.7	63.9
SI	80.3	97.1	36.0	100.0		0.0	12.3	12.8	7.6	4.2	18.4	5.2	51.8
SK	68.1	94.1	26.9	64.0	19.7	16.3	25.6	43.4	1.8	7.2	5.5	4.6	37.6
FI	75.0	99.6	40.9	88.4	9.7	1.9	16.0	12.9	1.4	10.0	38.1	2.2	35.3
SE	71.1	97.8	23.8	73.9	21.8	4.3	18.0	19.9	1.5	6.6	11.9	4.9	55.3
UK	81.8	97.6	25.4	71.4	13.2	15.3	12.7	18.1	1.4	10.3	2.8	8.0	59.3
MK													
TR	72.8	98.3	40.3	94.4	4.1	1.5	15.7	7.2	1.9	8.8	1.6	8.2	72.3
IS	51.8	95.1	0.1	100.0			6.2	0.5	4.3			9.4	85.8
NO	73.7	91.9	42.3	12.0	5.4	82.6	10.9	2.1	3.6	29.5	2.4	9.1	53.1
CH	79.5	99.5	7.9	89.4	10.6	0.0	11.8	5.8	1.9	16.3	3.4	14.0	58.6

Note: (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.

GHG Emissions (*) 2017

BY SECTOR (SHARES %)

3.2.4

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						
32.1	18.9	24.9	62.7	12.5	0.2	2.4	8.4	9.8	3.1			0.0	100	EU-28
35.1	26.3	24.0	66.2	9.8	0.1	0.7	16.5	8.5	1.2				100	BE
23.4	4.6	18.1	58.0	23.9		4.1	10.3	10.6	6.1				100	BG
20.5	14.5	21.3	69.8	8.9	0.5	3.6	12.0	6.5	4.3			0.5	100	CZ
44.4	11.9	17.0	47.4	35.6	0.8	1.0	4.0	20.9	2.2			0.6	100	DK
25.1	17.6	27.7	67.3	5.0	0.1	1.2	6.9	7.1	1.1				100	DE
14.0	3.6	14.4	47.4	38.2	0.3	0.1	3.0	6.5	1.6				100	EE
37.9	21.0	23.7	68.8	7.6		0.2	5.4	30.7	1.5				100	IE
28.5	8.3	11.8	79.9	8.4	0.3	1.3	12.9	7.9	4.7				100	EL
39.0	14.9	26.6	44.1	29.3	0.2	1.7	7.9	11.1	3.8				100	ES
44.7	25.7	32.8	55.0	12.2		1.2	9.1	15.8	3.6				100	FR
41.0	19.0	19.2	59.7	21.1		2.8	10.7	11.2	8.2				100	HR
31.6	23.7	28.5	62.1	9.4	0.1	2.0	7.5	7.0	4.2				100	IT
40.7	7.1	17.2	67.2	15.6	0.3	0.0	12.8	5.0	5.6				100	CY
50.1	20.2	29.3	38.3	32.4	0.2	2.0	6.2	23.7	4.8			0.2	100	LV
53.5	13.2	22.9	61.8	15.3	0.2	2.6	17.5	21.2	5.0				100	LT
70.2	16.5	33.8	64.8	1.4	0.0	0.3	5.5	6.0	0.7				100	LU
30.2	28.5	23.6	65.7	10.7	0.1	2.1	11.2	10.9	5.2				100	HU
52.1	10.6	73.7	20.6	5.7	0.2		12.3	2.5	5.9				100	MT
25.4	20.3	22.2	49.0	28.8	0.1	1.0	5.4	9.2	1.5			0.2	100	NL
45.7	16.0	12.8	77.2	10.1	0.1	0.7	20.3	8.6	1.8			0.0	100	AT
20.6	18.2	12.7	66.5	20.8		7.0	6.5	7.6	3.1				100	PL
39.1	8.1	26.6	46.0	27.3	0.1	2.3	10.4	9.2	6.3			0.3	100	PT
28.6	16.8	19.4	68.5	12.0	1.0	13.2	11.4	16.8	5.1				100	RO
41.1	10.6	25.1	58.3	16.6	0.0	2.9	6.9	9.6	3.2				100	SI
28.1	19.2	30.0	62.0	8.0	0.2	5.9	22.2	5.9	3.9				100	SK
31.7	8.9	26.9	36.7	36.4	2.6	0.4	10.3	11.3	3.3			0.1	100	FI
50.2	7.5	26.7	25.7	47.5	0.5	2.2	13.7	13.0	2.3				100	SE
39.3	22.2	21.6	72.9	5.5	0.4	2.4	6.0	8.2	4.0				100	UK
														MK
24.9	19.1	28.1	58.0	13.9		1.7	12.4	11.6	3.2				100	TR
75.0	18.7	0.2	2.1	97.7		4.9	34.5	9.8	3.9				100	IS
38.4	7.8	38.2	34.2	27.6	0.6	8.1	15.9	8.2	2.2				100	NO
48.6	31.3	31.9	64.8	3.3	0.3	0.5	7.4	11.6	1.3	0.0	0.2		100	CH

Notes: (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.

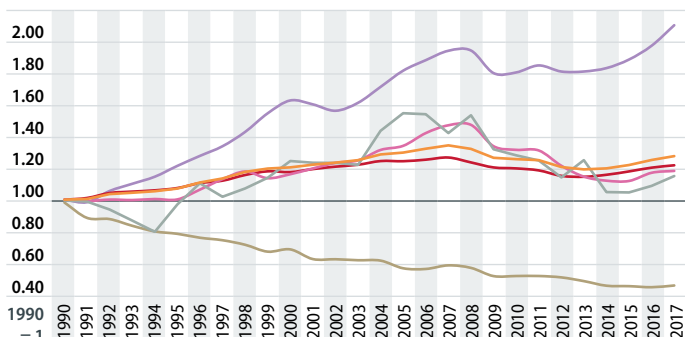
(**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.5 GHG Emissions from Transport – EU-28 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	83.0	13.9	69.1	729.6	14.2	140.9	30.2	110.7	5.3	973.1	5 833.6
1995	100.8	15.0	85.8	786.0	11.3	141.2	29.8	111.4	5.2	1 044.5	5 509.3
2000	135.0	19.5	115.4	863.0	9.9	164.0	27.9	136.2	6.6	1 178.6	5 423.4
2005	150.6	19.5	131.1	915.5	8.2	189.8	27.4	162.3	8.2	1 272.2	5 524.3
2010	149.6	17.9	131.7	880.7	7.5	186.1	24.7	161.4	6.8	1 230.8	5 079.0
2011	153.3	17.9	135.4	871.1	7.5	185.6	22.5	163.1	6.6	1 224.1	4 927.0
2012	150.1	16.6	133.5	844.8	7.4	171.7	21.2	150.5	6.1	1 180.0	4 849.1
2013	150.1	15.4	134.7	840.3	7.0	161.9	19.4	142.5	6.6	1 165.9	4 747.9
2014	151.9	15.0	136.9	850.0	6.6	158.2	18.9	139.3	5.6	1 172.3	4 575.6
2015	156.4	15.2	141.2	866.2	6.6	158.0	19.7	138.2	5.6	1 192.7	4 608.5
2016	163.6	15.6	148.0	884.4	6.5	165.4	20.2	145.1	5.8	1 225.6	4 598.2
2017	174.3	16.1	158.3	895.8	6.6	167.0	21.3	145.8	6.1	1 249.9	4 628.9

Total Civil Aviation - Road Transportation - Railways (***) - Total Navigation - Other - Total Transport



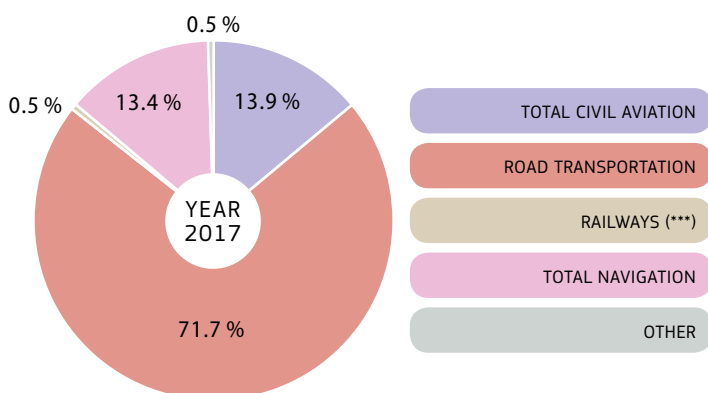
Notes: (*) Excluding International Bunkers (international traffic departing from the EU)
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

GHG Emissions from Transport 3.2.5

EU-28 – BY MODE (SHARES %)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil Aviation (domestic) (*)	International Bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International Bunkers – Maritime Transport	OTHER TRANSPORT (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.5	16.7	83.3	75.0	1.5	14.5	21.4	78.6	0.5	16.7	100
1995	9.6	14.9	85.1	75.3	1.1	13.5	21.1	78.9	0.5	19.0	100
2000	11.5	14.5	85.5	73.2	0.8	13.9	17.0	83.0	0.6	21.7	100
2005	11.8	13.0	87.0	72.0	0.6	14.9	14.5	85.5	0.6	23.0	100
2010	12.2	12.0	88.0	71.6	0.6	15.1	13.3	86.7	0.6	24.2	100
2011	12.5	11.7	88.3	71.2	0.6	15.2	12.1	87.9	0.5	24.8	100
2012	12.7	11.0	89.0	71.6	0.6	14.6	12.3	87.7	0.5	24.3	100
2013	12.9	10.3	89.7	72.1	0.6	13.9	12.0	88.0	0.6	24.6	100
2014	13.0	9.9	90.1	72.5	0.6	13.5	11.9	88.1	0.5	25.6	100
2015	13.1	9.7	90.3	72.6	0.6	13.2	12.5	87.5	0.5	25.9	100
2016	13.4	9.5	90.5	72.2	0.5	13.5	12.2	87.8	0.5	26.7	100
2017	13.9	9.2	90.8	71.7	0.5	13.4	12.7	87.3	0.5	27.0	100



Notes: (*) Excluding International Bunkers (international traffic departing from the EU).
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.
 (*****) Total transport share in total emissions.

3.2.6 GHG Emissions from Transport – 2017

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-28	174.3	16.1	158.3	895.8	6.6	167.0	21.3	145.8	6.1	1 249.9	4 628.9
BE	4.9	0.0	4.8	25.2	0.1	24.2	0.4	23.7	0.1	54.4	143.1
BG	0.8	0.1	0.7	8.9	0.0	0.3	0.0	0.3	0.4	10.4	62.3
CZ	1.1	0.0	1.1	18.3	0.3	0.0	0.0		0.0	19.7	130.5
DK	3.1	0.1	2.9	12.1	0.2	2.2	0.7	1.5		17.6	52.3
DE	31.5	2.1	29.4	161.8	1.0	8.3	1.7	6.6	1.3	203.9	942.6
EE	0.2	0.0	0.2	2.3	0.1	1.0	0.0	1.0		3.6	22.0
IE	3.1	0.0	3.1	11.5	0.1	0.7	0.2	0.5	0.1	15.5	64.3
EL	3.9	0.4	3.5	14.7	0.1	9.1	1.9	7.2		27.9	106.0
ES	19.9	2.8	17.1	82.5	0.2	24.7	3.1	21.7	0.1	127.5	379.0
FR	22.4	5.0	17.4	127.7	0.4	7.0	1.3	5.6	0.4	157.8	487.6
HR	0.5	0.0	0.5	6.4	0.1	0.2	0.1	0.0		7.1	25.5
IT	13.5	2.2	11.3	92.4	0.1	11.1	4.0	7.2	0.8	117.9	446.1
CY	1.0	0.0	1.0	2.1		0.8	0.0	0.8		3.9	10.8
LV	0.4	0.0	0.4	3.1	0.2	0.9	0.0	0.9		4.6	12.6
LT	0.3	0.0	0.3	5.5	0.2	0.6	0.0	0.6	0.1	6.6	21.3
LU	1.7	0.0	1.7	5.6	0.0	0.0	0.0	0.0		7.3	11.9
HU	0.7	0.0	0.7	12.8	0.1	0.0	0.0		0.1	13.8	64.5
MT	0.4	0.0	0.4	0.6		7.0	0.1	7.0		8.0	9.5
NL	12.1	0.0	12.1	30.0	0.1	38.7	1.0	37.7	0.1	81.0	243.5
AT	2.3	0.0	2.3	23.5	0.1	0.1	0.0	0.1	0.6	26.6	84.6
PL	2.7	0.1	2.5	62.0	0.4	0.9	0.0	0.8	0.9	66.7	417.1
PT	4.4	0.5	3.9	16.3	0.0	2.8	0.3	2.5		23.5	77.1
RO	1.2	0.1	1.0	17.3	0.4	0.2	0.1	0.1	0.0	19.1	114.9
SI	0.1	0.0	0.1	5.5	0.0	0.5		0.5	0.0	6.1	18.0
SK	0.2	0.0	0.2	7.2	0.1	0.0	0.0	0.0	0.3	7.8	43.5
FI	2.3	0.2	2.1	10.8	0.1	1.5	0.4	1.1	0.0	14.7	58.6
SE	3.3	0.6	2.8	15.5	0.0	8.2	0.3	7.8	0.2	27.2	63.3
UK	36.5	1.6	34.9	114.1	2.0	16.1	5.4	10.7	0.6	169.3	516.2
MK											
TR	14.9	3.8	11.1	78.7	0.4	3.8	0.9	2.9	0.8	98.7	540.3
IS	1.2	0.0	1.2	1.0		0.2	0.0	0.2		2.4	6.1
NO	2.8	1.1	1.7	8.8	0.0	3.1	2.5	0.5		14.7	54.9
CH	5.5	0.1	5.3	14.6	0.0	0.1	0.1	0.0	0.0	20.3	52.6

Notes: (*) Excluding International Bunkers (international traffic departing from the EU).

(**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.

GHG Emissions from Transport 3.2.6

2017 – 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-28	13.9	9.2	90.8	71.7	0.5	13.4	12.7	87.3	0.5	27.0	100
BE	8.9	0.3	99.7	46.3	0.1	44.4	1.8	98.2	0.3	38.0	100
BG	7.5	8.0	92.0	85.8	0.4	2.5	2.8	97.2	3.8	16.7	100
CZ	5.5	0.9	99.1	92.6	1.6	0.1	100.0		0.2	15.1	100
DK	17.4	4.5	95.5	68.9	1.4	12.2	31.3	68.7		33.7	100
DE	15.4	6.6	93.4	79.4	0.5	4.1	21.0	79.0	0.6	21.6	100
EE	5.1	1.9	98.1	65.5	1.5	27.8	3.4	96.6		16.3	100
IE	19.8	0.6	99.4	73.9	0.8	4.6	32.7	67.3	0.8	24.2	100
EL	13.9	10.5	89.5	52.9	0.5	32.7	21.4	78.6		26.3	100
ES	15.6	14.2	85.8	64.7	0.2	19.4	12.4	87.6	0.1	33.7	100
FR	14.2	22.3	77.7	80.9	0.2	4.4	19.0	81.0	0.2	32.4	100
HR	6.8	6.5	93.5	90.0	0.9	2.3	87.5	12.5		27.9	100
IT	11.4	16.6	83.4	78.4	0.1	9.5	35.5	64.5	0.7	26.4	100
CY	25.7	0.1	99.9	53.4		20.9	0.2	99.8		36.4	100
LV	9.4	1.0	99.0	67.3	3.9	19.4	1.8	98.2		36.7	100
LT	4.9	0.5	99.5	82.8	2.8	8.7	3.0	97.0	0.9	31.2	100
LU	23.1	0.0	100.0	76.7	0.1	0.0	88.1	11.9		61.5	100
HU	5.1	0.5	99.5	92.8	1.1	0.1	100.0		1.0	21.5	100
MT	5.4	0.1	99.9	7.1		87.6	1.0	99.0		84.1	100
NL	15.0	0.3	99.7	37.0	0.1	47.8	2.6	97.4	0.1	33.3	100
AT	8.7	1.9	98.1	88.2	0.5	0.3	13.4	86.6	2.4	31.4	100
PL	4.0	5.0	95.0	92.9	0.6	1.3	2.5	97.5	1.3	16.0	100
PT	18.6	11.6	88.4	69.4	0.1	11.8	9.7	90.3		30.5	100
RO	6.1	12.8	87.2	90.6	2.2	1.2	59.5	40.5	0.0	16.6	100
SI	1.2	2.3	97.7	89.9	0.5	8.2		100.0	0.1	33.9	100
SK	2.2	2.0	98.0	92.3	1.2	0.3	20.2	79.8	4.1	18.0	100
FI	15.7	8.5	91.5	73.3	0.4	10.5	28.3	71.7	0.0	25.1	100
SE	12.3	16.5	83.5	57.0	0.2	30.0	3.8	96.2	0.6	43.0	100
UK	21.6	4.5	95.5	67.4	1.2	9.5	33.4	66.6	0.3	32.8	100
MK											
TR	15.1	25.7	74.3	79.8	0.4	3.9	24.6	75.4	0.8	18.3	100
IS	49.5	2.0	98.0	40.9		9.5	14.0	86.0		39.0	100
NO	19.1	39.8	60.2	59.8	0.3	20.8	83.2	16.8		26.7	100
CH	27.0	2.2	97.8	72.1	0.1	0.7	83.7	16.3	0.1	38.5	100

Notes: (*) Excluding International Bunkers (international traffic departing from the EU).
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Total transport share in total emissions.

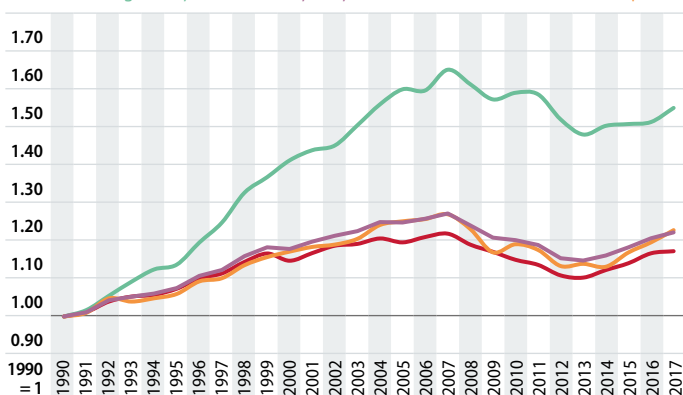
3.2.7 GHG Emissions from Road Transport

EU-28 – 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	729.6	461.0	68.3	190.6	9.2	0.4	973.1	5833.6
1995	786.0	496.0	77.8	202.2	9.8	0.2	1044.5	5509.3
2000	863.0	531.2	96.7	224.1	10.8	0.2	1178.6	5423.4
2005	915.5	554.3	109.6	239.7	11.3	0.5	1272.2	5524.3
2010	880.7	532.4	109.0	227.9	10.8	0.6	1230.8	5079.0
2011	871.1	526.0	108.7	224.9	10.8	0.6	1224.1	4927.0
2012	844.8	512.7	104.2	216.6	10.7	0.6	1180.0	4849.1
2013	840.3	510.0	101.4	217.8	10.6	0.5	1165.9	4747.9
2014	850.0	519.5	103.0	216.3	10.7	0.5	1172.3	4575.6
2015	866.2	528.1	103.3	223.6	10.7	0.5	1192.7	4608.5
2016	884.4	540.5	103.7	228.9	10.8	0.5	1225.6	4598.2
2017	895.8	543.2	106.3	235.2	10.7	0.5	1249.9	4628.9

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



Notes: (*) Including International Bunkers (international traffic departing from the EU).

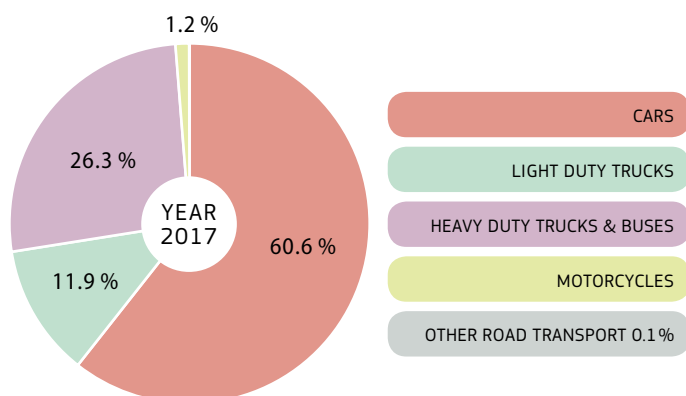
(**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.

GHG Emissions from Road Transport 3.2.7

EU-28 – BY TRANSPORT MEAN

(SHARES %)

	ROAD TRANSPORTATION	Cars	Light duty trucks	Heavy duty trucks and buses	Motorcycles	Other Road Transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	75.0	63.2	9.4	26.1	1.3	0.1	16.7	100.0
1995	75.3	63.1	9.9	25.7	1.2	0.0	19.0	100.0
2000	73.2	61.6	11.2	26.0	1.2	0.0	21.7	100.0
2005	72.0	60.5	12.0	26.2	1.2	0.1	23.0	100.0
2010	71.6	60.4	12.4	25.9	1.2	0.1	24.2	100.0
2011	71.2	60.4	12.5	25.8	1.2	0.1	24.8	100.0
2012	71.6	60.7	12.3	25.6	1.3	0.1	24.3	100.0
2013	72.1	60.7	12.1	25.9	1.3	0.1	24.6	100.0
2014	72.5	61.1	12.1	25.4	1.3	0.1	25.6	100.0
2015	72.6	61.0	11.9	25.8	1.2	0.1	25.9	100.0
2016	72.2	61.1	11.7	25.9	1.2	0.1	26.7	100.0
2017	71.7	60.6	11.9	26.3	1.2	0.1	27.0	100.0



Notes: (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Total transport share in total emissions.

3.2.8

Total CO₂ Emissions (*)

MILLION TONNES

	1990	1995	2000	2005	2010	2015	2016	2017
EU-28	4 541.8	4 304.9	4 298.1	4 438.9	4 073.9	3 656.3	3 646.0	3 674.1
BE	123.6	129.0	131.5	129.1	118.0	104.1	102.8	102.4
BG	77.3	58.5	45.5	51.2	48.3	48.6	45.9	48.1
CZ	166.6	133.6	128.8	127.7	119.4	106.5	108.3	107.4
DK	56.5	64.5	57.4	54.7	52.0	38.1	40.1	38.0
DE	1 064.6	954.5	919.7	889.6	856.6	820.4	828.0	827.1
EE	37.2	18.3	15.4	17.3	19.1	16.0	17.6	18.8
IE	34.0	37.0	47.0	50.6	44.0	40.9	42.5	41.8
EL	85.9	89.6	105.5	116.5	99.9	77.8	74.4	78.3
ES	235.8	273.8	320.4	379.5	295.4	285.2	276.0	291.4
FR	409.2	408.1	430.3	442.7	405.7	358.3	359.9	363.7
HR	23.8	17.2	19.9	23.6	21.4	18.2	18.5	19.2
IT	443.9	457.2	478.2	502.9	435.2	365.4	363.8	360.2
CY	5.4	6.7	8.0	8.9	8.9	7.7	8.2	8.5
LV	19.8	9.2	7.2	8.0	8.9	7.6	7.6	7.7
LT	36.2	15.1	11.9	14.2	13.9	13.4	13.4	13.7
LU	12.2	9.7	9.7	13.4	12.5	10.7	10.6	10.9
HU	73.9	62.2	59.3	61.3	52.8	47.2	48.0	50.3
MT	2.1	2.8	2.9	2.9	2.8	2.1	1.8	2.0
NL	167.9	181.3	182.4	188.9	192.9	178.3	178.5	176.9
AT	63.2	65.6	68.0	81.4	74.3	68.9	69.6	72.2
PL	377.6	363.2	319.0	323.4	334.9	314.2	325.0	339.1
PT	47.3	56.7	68.4	72.0	55.8	55.5	53.9	58.7
RO	170.2	127.6	95.9	103.0	84.5	78.5	76.7	76.0
SI	15.1	15.3	15.5	17.0	16.4	13.7	14.5	14.3
SK	61.6	44.3	41.3	43.0	38.6	34.6	35.0	36.2
FI	58.1	59.2	58.2	58.4	65.8	46.1	49.3	46.9
SE	58.8	60.6	56.6	55.7	55.0	45.2	45.1	44.8
UK	613.9	584.2	594.5	601.9	540.9	453.0	430.8	419.5
MK								
TR	152.1	181.7	231.4	267.5	320.2	392.4	411.9	436.3
IS	2.5	2.7	3.3	3.4	4.0	4.2	4.4	4.8
NO	36.0	39.3	43.4	44.9	47.5	47.0	46.0	45.4
CH	47.6	47.3	48.5	49.4	49.4	43.7	44.4	43.6

Notes: (*) Excluding International Maritime and LULUCF (Land Use, Land–Use Change and Forestry) emissions, including International Aviation and Indirect CO₂. Emissions data is downloaded from European Environment Agency (EEA), which is the main provider for EU-wide greenhouse gas emissions data. EEA prepares and maintains the complete EU greenhouse gas emissions inventory, which is based on data reported by Member States through the EU greenhouse gas monitoring mechanism and the UNFCCC process.

CO₂ Emissions from Transport 3.2.9

MILLION TONNES

INCLUDING INTERNATIONAL BUNKERS (*)

	1990	1995	2000	2005	2010	2015	2016	2017
EU-28	956.6	1 025.7	1 160.7	1 257.3	1 217.6	1 179.5	1 212.0	1 235.9
BE	37.0	38.4	45.4	55.1	55.2	49.7	52.2	53.9
BG	7.3	6.0	5.9	8.6	8.7	9.9	10.1	10.3
CZ	11.7	10.8	12.4	18.1	17.5	18.1	18.9	19.5
DK	15.4	18.7	18.7	18.4	17.7	17.5	17.6	17.4
DE	180.2	195.6	205.6	189.9	184.9	192.5	198.8	201.7
EE	3.1	1.9	2.0	2.6	3.0	3.3	3.3	3.5
IE	6.2	7.6	12.9	15.7	14.1	14.7	15.2	15.4
EL	24.7	30.1	32.4	33.2	33.4	25.5	25.8	27.3
ES	74.1	85.7	113.8	138.2	129.7	120.3	125.0	126.2
FR	137.2	148.2	162.7	164.9	157.3	154.9	154.9	155.8
HR	4.4	3.6	4.6	5.8	6.2	6.2	6.5	7.0
IT	109.1	121.4	133.5	141.9	129.7	120.0	119.0	116.7
CY	2.1	2.5	3.2	3.8	3.7	3.4	3.8	3.9
LV	4.7	2.6	2.3	4.1	4.4	4.2	4.5	4.5
LT	6.4	3.6	3.5	4.7	4.9	5.5	6.2	6.6
LU	3.0	3.9	5.8	8.4	7.7	7.0	7.0	7.3
HU	9.2	7.9	9.6	12.6	12.2	12.6	12.9	13.7
MT	1.4	2.3	3.0	2.8	5.4	6.1	6.4	8.0
NL	67.2	72.4	84.8	96.3	89.2	79.7	79.9	80.2
AT	14.7	17.1	20.4	26.8	24.5	24.6	25.7	26.4
PL	22.3	24.4	29.8	37.5	50.8	49.8	56.6	65.8
PT	13.0	16.0	22.8	23.4	23.0	21.3	22.4	23.3
RO	12.8	8.9	10.0	12.7	14.6	16.3	17.6	18.8
SI	2.7	3.7	3.7	4.5	5.3	5.6	6.1	6.0
SK	6.8	5.5	5.7	7.7	7.6	7.4	7.6	7.7
FI	14.7	13.1	15.0	15.7	14.9	13.6	14.8	14.6
SE	22.2	24.1	26.2	29.5	29.0	25.9	26.1	26.9
UK	142.9	149.9	165.0	174.3	162.8	163.7	167.1	167.5
MK								
TR	27.2	34.6	38.4	47.7	52.6	88.1	93.8	96.8
IS	0.8	0.8	1.1	1.2	1.2	1.7	2.0	2.3
NO	12.8	13.6	15.7	16.6	17.0	16.4	15.5	14.4
CH	17.5	17.7	20.4	19.2	20.5	20.1	20.2	20.1

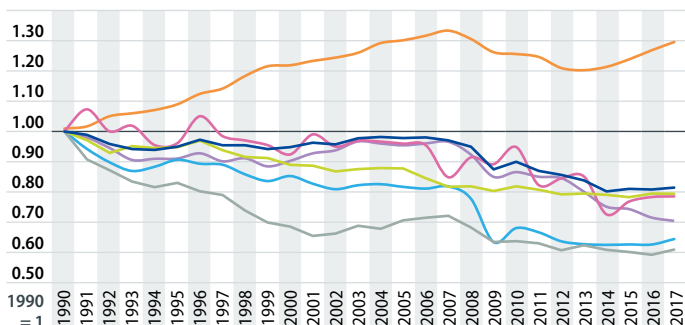
Note: (*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries. For EU-28, changes in international maritime emissions between 2010 and 2011 show inconsistency with changes in energy statistics on bunker fuels.

3.2.10

CO₂ Emissions (*) EU-28 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	4192.1	4162.2	1666.1	1429.5	122.1	114.5	829.4	183.2	16.6	111.7	34.2	51.7	432.1
1995	3981.5	3951.6	1514.8	1282.2	130.8	101.8	741.6	163.3	16.8	108.0	38.1	60.3	355.1
2000	3976.8	3950.0	1501.9	1284.9	133.7	83.3	678.8	145.4	17.4	90.8	36.1	54.3	334.7
2005	4112.2	4085.3	1588.4	1363.4	143.6	81.4	631.6	128.8	15.8	84.2	34.0	49.0	319.7
2010	3801.9	3776.4	1439.2	1230.8	133.9	74.4	527.0	110.1	13.9	70.7	28.7	39.5	264.1
2011	3661.8	3636.2	1413.3	1210.4	131.3	71.7	512.0	107.9	13.4	69.6	27.6	37.2	256.4
2012	3614.7	3589.6	1405.9	1218.7	126.7	60.5	491.1	103.5	12.2	68.1	26.8	37.7	242.8
2013	3530.5	3503.9	1330.3	1152.9	120.0	57.3	482.6	103.0	9.5	67.7	27.2	37.5	237.7
2014	3358.4	3332.3	1246.5	1073.4	116.9	56.2	475.4	102.7	8.9	65.1	25.4	37.4	236.0
2015	3397.6	3371.5	1233.2	1060.8	117.6	54.8	477.6	105.1	9.1	62.0	23.9	37.5	239.9
2016	3387.8	3362.2	1186.1	1013.5	117.8	54.9	478.2	96.8	9.0	63.7	24.8	38.2	245.8
2017	3410.5	3384.0	1167.3	996.4	116.1	54.9	493.7	100.0	9.6	68.4	24.9	39.7	251.0

Energy Industries - Industry (***) - Transport (**) - Residential & Commercial - Agriculture, Forestry, Fisheries (****) - Other (*****) - Total

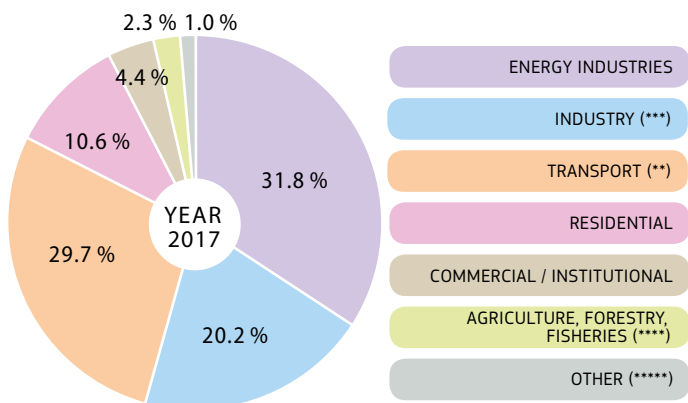


- Notes:** (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from 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-28 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	
847.2	796.3	198.4	504.2	93.7	23.2	29.9	325.5	14.7	5.2		4.2	4541.8	1990
915.7	765.6	174.6	499.1	92.0	13.8	29.9	304.5	10.7	4.7		3.5	4304.9	1995
1026.1	733.5	173.3	474.1	86.0	9.7	26.8	304.9	10.2	3.4		2.9	4298.1	2000
1096.7	757.7	182.7	489.9	85.0	11.0	26.8	310.5	9.9	3.8		2.5	4438.9	2005
1057.9	743.8	185.7	479.1	79.1	8.5	25.4	257.0	9.3	3.7		2.2	4073.9	2010
1049.6	653.0	164.2	411.4	77.4	8.3	25.5	255.7	9.7	3.5		2.1	3932.7	2011
1018.3	667.0	168.4	422.9	75.7	7.4	25.1	242.1	9.6	3.5		2.0	3871.8	2012
1012.3	671.6	170.3	425.6	75.7	7.2	26.6	239.8	10.0	3.3		1.8	3785.4	2013
1021.6	582.0	149.8	357.4	74.8	6.9	26.0	244.2	10.5	3.4		1.8	3618.1	2014
1042.8	611.2	159.8	377.3	74.1	6.6	26.1	243.6	10.3	3.0		1.8	3656.3	2015
1068.5	622.9	159.8	388.0	75.1	6.5	25.6	242.7	10.6	3.1		1.7	3646.0	2016
1091.8	624.5	160.4	388.8	75.2	6.6	26.5	248.3	10.4	3.2		1.7	3674.1	2017



Notes: (*) 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-28

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	92.3	99.3	40.0	85.8	7.3	6.9	19.9	22.1	2.0	13.5	4.1	6.2	52.1
1991	92.9	99.3	39.4	86.2	7.2	6.6	19.1	21.7	2.3	13.5	4.7	7.0	50.8
1992	93.0	99.3	39.2	86.3	7.4	6.3	18.7	21.3	2.2	12.8	4.8	7.2	51.7
1993	93.1	99.3	38.2	85.5	8.0	6.5	18.4	21.0	2.3	12.8	4.8	7.7	51.5
1994	92.6	99.3	38.7	85.0	8.2	6.8	18.5	22.1	2.3	13.6	5.2	7.9	48.9
1995	92.5	99.2	38.3	84.6	8.6	6.7	18.8	22.0	2.3	14.6	5.1	8.1	47.9
1996	92.8	99.3	38.0	85.0	8.7	6.3	18.0	20.8	2.4	14.4	5.1	8.4	48.9
1997	92.6	99.3	37.7	84.4	9.1	6.5	18.2	21.9	2.5	14.1	5.2	8.1	48.3
1998	92.6	99.3	38.1	84.9	9.0	6.0	17.3	22.0	2.6	13.3	5.2	8.1	48.8
1999	92.8	99.3	37.4	85.3	8.9	5.8	17.1	21.3	2.6	13.3	5.2	8.3	49.4
2000	92.5	99.3	38.0	85.5	8.9	5.5	17.2	21.4	2.6	13.4	5.3	8.0	49.3
2001	92.9	99.4	38.3	85.9	8.9	5.2	16.4	20.5	2.8	13.8	5.2	8.4	49.3
2002	92.9	99.4	38.9	86.0	8.8	5.3	16.0	20.2	2.8	13.5	5.4	8.5	49.6
2003	92.8	99.3	39.4	86.5	8.5	5.0	15.8	19.9	2.7	13.7	5.4	8.3	50.0
2004	92.6	99.4	39.0	86.2	8.7	5.0	15.6	20.7	2.6	13.5	5.2	8.1	49.9
2005	92.6	99.3	38.9	85.8	9.0	5.1	15.5	20.4	2.5	13.3	5.4	7.8	50.6
2006	92.6	99.3	39.1	86.1	8.7	5.1	15.2	21.2	2.5	13.1	5.4	7.2	50.5
2007	92.4	99.3	39.8	86.4	8.7	4.9	15.5	21.9	2.5	12.5	5.1	7.1	50.9
2008	92.7	99.3	38.8	85.7	9.2	5.1	15.1	21.5	2.5	13.1	5.1	7.1	50.7
2009	93.7	99.3	38.4	85.8	9.5	4.7	13.5	18.6	2.7	14.1	5.7	7.6	51.3
2010	93.3	99.3	38.1	85.5	9.3	5.2	14.0	20.9	2.6	13.4	5.4	7.5	50.1
2011	93.1	99.3	38.9	85.6	9.3	5.1	14.1	21.1	2.6	13.6	5.4	7.3	50.1
2012	93.4	99.3	39.2	86.7	9.0	4.3	13.7	21.1	2.5	13.9	5.5	7.7	49.4
2013	93.3	99.2	38.0	86.7	9.0	4.3	13.8	21.3	2.0	14.0	5.6	7.8	49.3
2014	92.8	99.2	37.4	86.1	9.4	4.5	14.3	21.6	1.9	13.7	5.3	7.9	49.6
2015	92.9	99.2	36.6	86.0	9.5	4.4	14.2	22.0	1.9	13.0	5.0	7.8	50.2
2016	92.9	99.2	35.3	85.4	9.9	4.6	14.2	20.2	1.9	13.3	5.2	8.0	51.4
2017	92.8	99.2	34.5	85.4	9.9	4.7	14.6	20.3	1.9	13.9	5.1	8.0	50.8

Notes: (*) 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-28

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	
20.4	19.1	24.9	63.3	11.8	0.6	0.7	7.2	0.3	0.1		0.1	100	1990
20.6	20.4	24.4	64.6	11.0	0.5	0.7	6.6	0.3	0.1		0.1	100	1991
22.0	19.7	23.6	65.0	11.4	0.4	0.7	6.5	0.2	0.1		0.1	100	1992
22.6	20.5	22.9	65.6	11.5	0.4	0.7	6.5	0.2	0.1		0.1	100	1993
23.0	19.5	22.6	65.2	12.1	0.4	0.7	6.9	0.2	0.1		0.1	100	1994
23.2	19.4	22.8	65.2	12.0	0.3	0.8	7.1	0.2	0.1		0.1	100	1995
23.2	20.4	23.1	65.5	11.4	0.3	0.7	6.7	0.2	0.1		0.1	100	1996
24.1	19.6	22.8	65.6	11.7	0.3	0.7	7.0	0.2	0.1		0.1	100	1997
25.0	19.3	23.4	65.1	11.5	0.3	0.7	6.9	0.2	0.1		0.1	100	1998
26.0	19.2	23.9	64.5	11.6	0.3	0.7	6.8	0.2	0.1		0.1	100	1999
26.0	18.6	23.6	64.6	11.7	0.2	0.7	7.1	0.2	0.1		0.1	100	2000
25.8	19.4	23.9	65.1	11.0	0.2	0.6	6.7	0.2	0.1		0.1	100	2001
26.1	18.7	23.6	65.2	11.2	0.2	0.6	6.7	0.2	0.1		0.1	100	2002
25.9	18.7	23.3	65.6	11.0	0.2	0.7	6.8	0.2	0.1		0.1	100	2003
26.6	18.6	24.0	64.9	11.1	0.3	0.6	7.1	0.2	0.1		0.1	100	2004
26.8	18.5	24.1	64.7	11.2	0.3	0.7	7.0	0.2	0.1		0.1	100	2005
27.1	18.3	25.2	63.9	10.9	0.3	0.7	7.0	0.2	0.1		0.1	100	2006
27.8	16.6	24.9	63.4	11.7	0.3	0.7	7.2	0.2	0.1		0.1	100	2007
27.8	18.1	25.6	63.5	11.0	0.3	0.7	7.0	0.2	0.1		0.1	100	2008
28.9	19.1	25.3	63.7	11.0	0.2	0.7	5.9	0.2	0.1		0.1	100	2009
28.0	19.7	25.0	64.4	10.6	0.2	0.7	6.3	0.2	0.1		0.1	100	2010
28.9	18.0	25.1	63.0	11.9	0.2	0.7	6.5	0.2	0.1		0.1	100	2011
28.4	18.6	25.2	63.4	11.4	0.2	0.7	6.3	0.2	0.1		0.1	100	2012
28.9	19.2	25.4	63.4	11.3	0.2	0.8	6.3	0.3	0.1		0.0	100	2013
30.7	17.5	25.7	61.4	12.8	0.2	0.8	6.7	0.3	0.1		0.0	100	2014
30.9	18.1	26.1	61.7	12.1	0.2	0.8	6.7	0.3	0.1		0.0	100	2015
31.8	18.5	25.7	62.3	12.0	0.2	0.8	6.7	0.3	0.1		0.0	100	2016
32.3	18.5	25.7	62.3	12.0	0.2	0.8	6.8	0.3	0.1		0.0	100	2017

Notes: (*) 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 (*) 2017

BY SECTOR (MILLION TONNES)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public Electricity and Heat Production	Petroleum Refining	Other Energy Industries	MANUFACTURING AND CONSTRUCTION	Iron and Steel	Non-Ferrous Metals	Chemicals	Pulp, Paper and Print	Food, Beverages and Tobacco	Other
EU-28	3410.5	3384.0	1167.3	996.4	116.1	54.9	493.7	100.0	9.6	68.4	24.9	39.7	251.0
BE	86.4	86.3	20.0	15.1	4.7	0.2	13.3	1.2	0.5	3.3	0.7	2.3	5.4
BG	43.6	42.8	27.6	26.7	0.9	0.0	3.6	0.1	0.2	1.0	0.1	0.2	1.9
CZ	94.8	94.7	51.5	45.1	0.5	5.9	10.3	2.2	0.1	1.9	0.4	1.0	4.7
DK	36.0	35.7	11.4	9.1	0.9	1.4	4.0	0.1		0.4	0.0	1.1	2.4
DE	777.0	774.6	307.9	277.9	20.3	9.7	134.4	38.4	0.3		0.0	0.2	95.4
EE	18.4	18.4	14.6	13.3		1.4	0.6		0.0	0.0	0.0	0.0	0.6
IE	39.2	39.2	11.5	11.1	0.3	0.1	4.6	0.0	1.4	0.3	0.0	0.9	2.0
EL	71.9	71.9	39.8	34.9	4.9	0.0	5.7	0.1	0.8	0.3	0.1	0.6	3.9
ES	270.9	267.1	80.5	67.9	11.3	1.2	42.4	6.0	1.3	7.5	4.1	5.1	18.4
FR	337.9	335.0	49.2	39.4	6.8	3.0	50.7	12.8	0.9	10.7	3.0	7.4	15.9
HR	17.0	16.7	4.5	2.9	1.4	0.2	2.4	0.0	0.0	0.3	0.1	0.4	1.6
IT	344.6	342.3	104.2	77.8	20.6	5.8	50.1	9.3	1.1	9.5	5.0	3.7	21.5
CY	7.6	7.6	3.3	3.3			0.7		0.0	0.0	0.0	0.1	0.6
LV	7.1	7.1	1.5	1.5		0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.5
LT	11.0	11.0	2.5	1.1	1.4	0.1	1.2			0.3	0.0	0.2	0.6
LU	10.3	10.3	0.2	0.2			1.1	0.3	0.1	0.1	0.0	0.0	0.6
HU	45.0	44.9	13.9	12.1	1.5	0.3	4.9	0.2	0.2	0.4	0.5	0.7	2.9
MT	2.0	2.0	0.7	0.7			0.0						0.0
NL	169.3	168.2	63.1	51.4	9.0	2.7	29.0	5.4	0.2	14.5	0.9	3.7	4.3
AT	57.3	57.2	11.1	8.0	2.7	0.3	10.9	1.6	0.3	1.7	1.8	1.0	4.5
PL	318.4	313.8	164.0	155.5	5.5	3.1	30.8	5.9	1.1	6.3	1.5	4.2	11.8
PT	54.1	52.9	20.6	18.1	2.5		7.4	0.1		1.1	1.1	0.8	4.3
RO	65.3	64.7	23.8	19.4	2.1	2.3	11.6	1.2		1.8	0.2	0.9	7.4
SI	13.5	13.3	4.9	4.9		0.0	1.7	0.2	0.1	0.1	0.3	0.1	0.9
SK	27.4	27.4	7.4	4.7	1.5	1.2	7.1	3.1	0.1	0.5	0.4	0.3	2.7
FI	42.3	42.1	17.3	15.3	1.7	0.3	6.7	0.9	0.1	0.7	2.5	0.2	2.4
SE	38.5	37.7	8.9	6.5	2.0	0.4	6.8	1.4	0.1	0.5	0.7	0.3	3.8
UK	403.7	399.1	101.4	72.6	13.6	15.3	51.0	9.3	0.7	5.3	1.4	4.1	30.1
MK													
TR	377.9	377.8	153.6	144.8	6.4	2.4	60.0	4.3	1.1	5.3	0.9	4.9	43.4
IS	3.0	2.8	0.0	0.0			0.2	0.0	0.0			0.0	0.1
NO	38.6	36.2	15.4	1.8	0.8	12.8	4.0	0.1	0.1	1.2	0.1	0.4	2.1
CH	41.3	41.2	3.3	2.9	0.3		4.9	0.3	0.1	0.8	0.2	0.7	2.8

Note: (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.

CO₂ Emissions (*) 2017

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	
1 091.8	624.5	160.4	388.8	75.2	6.6	26.5	248.3	10.4	3.2		1.7	3 674.1	EU-28
30.3	22.5	5.5	14.9	2.1	0.1	0.1	15.5	0.2	0.3			102.4	BE
10.1	1.6	0.3	0.8	0.4		0.8	4.5	0.0	0.0			48.1	BG
19.5	12.9	3.0	8.8	1.2	0.4	0.1	11.4	0.3	0.1		0.7	107.4	CZ
16.0	4.1	0.7	1.9	1.5	0.3	0.2	1.5	0.2	0.0		0.3	38.0	DK
195.3	136.3	38.1	91.8	6.4	0.8	2.4	47.1	2.9				827.1	DE
2.6	0.5	0.1	0.2	0.2	0.1	0.0	0.4	0.0	0.0			18.8	EE
14.9	8.1	2.0	5.6	0.6		0.0	2.2	0.4	0.0			41.8	IE
20.3	5.9	0.7	4.7	0.5	0.2	0.0	6.3	0.0	0.0			78.3	EL
104.7	39.0	10.6	16.8	11.7	0.5	3.8	19.8	0.6				291.4	ES
150.3	84.7	28.6	46.4	9.7		2.9	22.3	1.9	1.6			363.7	FR
7.0	2.8	0.6	1.6	0.6		0.3	2.1	0.1				19.2	HR
109.6	78.0	23.2	47.8	7.0	0.3	2.4	15.0	0.4	0.1			360.2	IT
3.1	0.5	0.1	0.4	0.1	0.0	0.0	1.0	0.0				8.5	CY
3.7	1.3	0.4	0.5	0.4	0.0	0.0	0.5	0.0	0.0		0.0	7.7	LV
6.0	1.3	0.3	0.8	0.2	0.0	0.0	2.7	0.0	0.0			13.7	LT
7.3	1.7	0.6	1.1	0.0	0.0	0.0	0.6	0.0				10.9	LU
13.7	12.4	3.1	7.9	1.4	0.0	0.1	5.1	0.2	0.0			50.3	HU
1.1	0.2	0.2	0.0	0.0	0.0		0.0		0.0			2.0	MT
42.9	33.1	7.6	16.5	9.0	0.1	1.1	7.1	0.0			0.5	176.9	NL
26.3	8.9	1.2	6.8	0.8	0.1	0.1	14.8	0.1	0.0		0.0	72.2	AT
65.0	53.9	7.3	35.7	10.9		4.7	19.1	0.9	0.6			339.1	PL
20.8	4.0	1.2	1.7	1.1	0.0	1.2	4.4	0.1	0.0		0.2	58.7	PT
18.7	9.9	2.2	6.5	1.2	0.6	0.5	10.6	0.1	0.0			76.0	RO
5.5	1.3	0.4	0.7	0.2	0.0	0.1	0.8	0.0	0.0			14.3	SI
7.7	5.1	1.6	3.1	0.4	0.1	0.0	8.7	0.1	0.0			36.2	SK
13.5	3.6	1.0	1.2	1.4	1.1	0.1	4.3	0.2			0.1	46.9	FI
19.2	2.7	0.7	0.6	1.3	0.2	0.8	6.1	0.1	0.1			44.8	SE
156.9	88.2	19.2	64.1	4.9	1.6	4.6	14.3	1.3	0.3			419.5	UK
													MK
94.0	70.3	20.5	40.6	9.1		0.2	57.0	1.4	0.0			436.3	TR
2.1	0.5	0.0	0.0	0.5		0.1	1.8	0.0	0.0			4.8	IS
13.9	2.7	1.1	0.8	0.8	0.2	2.4	6.7	0.1	0.0			45.4	NO
20.1	12.9	4.1	8.4	0.4	0.1	0.0	2.1	0.0	0.0	0.0	0.1	43.6	CH

Notes: (*) 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 (*) 2017

BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public Electricity and Heat Production	Petroleum Refining	Other Energy Industries	MANUFACTURING AND CONSTRUCTION	Iron and Steel	Non-Ferrous Metals	Chemicals	Pulp, Paper and Print	Food, Beverages and Tobacco	Other
EU-28	92.8	99.2	34.5	85.4	9.9	4.7	14.6	20.3	1.9	13.9	5.1	8.0	50.8
BE	84.4	99.9	23.2	75.8	23.5	0.8	15.5	9.1	3.6	24.7	4.9	17.0	40.7
BG	90.6	98.2	64.4	96.8	3.2	0.0	8.3	3.3	4.9	28.4	3.0	6.7	53.6
CZ	88.3	99.9	54.4	87.5	1.0	11.4	10.9	21.2	1.4	18.4	3.9	10.0	45.1
DK	94.7	99.3	31.9	79.8	8.2	12.0	11.1	2.8		9.1	1.1	26.9	60.0
DE	93.9	99.7	39.7	90.2	6.6	3.2	17.3	28.6	0.2		0.0	0.1	71.0
EE	97.8	100.0	79.5	90.6		9.4	3.4		0.7	2.4	1.8	2.5	92.5
IE	93.8	100.0	29.3	96.2	2.7	1.1	11.8	0.1	30.2	6.0	0.4	19.3	44.0
EL	91.9	100.0	55.4	87.6	12.3	0.1	7.9	1.8	13.3	4.7	1.3	11.1	67.8
ES	93.0	98.6	30.1	84.4	14.1	1.5	15.9	14.1	3.0	17.7	9.7	12.1	43.4
FR	92.9	99.1	14.7	80.1	13.8	6.2	15.1	25.3	1.8	21.0	6.0	14.5	31.4
HR	88.7	98.3	26.7	64.9	30.3	4.9	14.4	1.5	0.9	13.8	4.0	14.9	64.9
IT	95.7	99.3	30.5	74.7	19.8	5.5	14.6	18.6	2.1	19.0	10.0	7.4	42.9
CY	88.8	100.0	43.4	100.0			8.6		0.3	0.7	0.3	10.3	88.3
LV	93.0	100.0	21.2	97.0		3.0	8.7	0.1	0.2	5.5	1.0	14.6	78.7
LT	80.2	100.0	22.8	42.9	55.0	2.1	10.6			23.4	2.8	21.1	52.6
LU	94.7	100.0	2.3	100.0			10.9	23.8	4.8	12.7	0.5	2.2	56.1
HU	89.4	99.7	30.9	86.9	10.9	2.2	10.9	4.1	4.0	8.3	9.8	14.7	59.2
MT	99.8	100.0	35.6	100.0			1.7						100.0
NL	95.7	99.3	37.5	81.5	14.3	4.2	17.2	18.7	0.6	50.0	3.1	12.9	14.7
AT	79.3	99.8	19.4	72.7	24.7	2.5	19.1	14.4	2.9	15.7	16.4	9.2	41.3
PL	93.9	98.5	52.3	94.8	3.3	1.9	9.8	19.2	3.7	20.3	4.9	13.7	38.2
PT	92.1	97.8	39.0	88.0	12.0		14.1	1.6		14.7	15.1	10.5	58.0
RO	85.9	99.2	36.8	81.5	8.8	9.6	17.9	10.7		15.9	2.0	7.7	63.8
SI	94.1	99.0	36.6	100.0		0.0	12.4	13.0	7.7	4.1	18.5	5.3	51.5
SK	75.7	99.9	27.2	63.9	19.8	16.4	25.9	43.6	1.7	7.3	5.3	4.6	37.5
FI	90.2	99.7	41.0	88.4	9.8	1.9	15.9	13.2	1.5	10.1	37.2	2.3	35.7
SE	85.9	97.9	23.6	73.0	22.5	4.4	18.0	20.3	1.5	6.7	10.9	5.0	55.7
UK	96.2	98.9	25.4	71.6	13.4	15.1	12.8	18.3	1.4	10.4	2.8	8.1	59.1
MK													
TR	86.6	100.0	40.6	94.3	4.1	1.6	15.9	7.2	1.9	8.8	1.6	8.2	72.3
IS	62.8	95.1	0.1	100.0			5.9	0.6	4.6			10.1	84.7
NO	85.0	93.8	42.6	11.8	5.4	82.7	11.0	2.1	3.7	29.7	2.3	9.2	53.0
CH	94.7	99.9	7.9	89.3	10.7		11.8	5.8	1.9	16.4	3.4	14.1	58.3

Note: (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.

CO₂ Emissions (*) 2017

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	
32.3	18.5	25.7	62.3	12.0	0.2	0.8	6.8	0.3	0.1		0.0	100	EU-28
35.2	26.1	24.3	66.3	9.4	0.1	0.1	15.2	0.2	0.3			100	BE
23.5	3.8	21.2	51.8	26.9		1.8	9.3	0.1	0.0			100	BG
20.6	13.7	22.9	67.7	9.4	0.5	0.1	10.7	0.3	0.1		0.7	100	CZ
44.7	11.5	17.5	46.0	36.5	0.8	0.7	4.0	0.6	0.0		0.7	100	DK
25.2	17.6	28.0	67.4	4.7	0.1	0.3	5.7	0.4				100	DE
14.1	2.8	19.0	35.0	46.0	0.3	0.0	2.1	0.1	0.0			100	EE
38.0	20.8	24.1	68.8	7.1		0.0	5.3	0.9	0.1			100	IE
28.3	8.2	12.1	80.1	7.8	0.3	0.0	8.1	0.0	0.0			100	EL
39.2	14.6	27.1	43.0	29.9	0.2	1.4	6.8	0.2				100	ES
44.9	25.3	33.7	54.8	11.5		0.9	6.1	0.5	0.4			100	FR
42.0	16.9	22.2	55.5	22.3		1.7	10.8	0.4				100	HR
32.0	22.8	29.8	61.2	9.0	0.1	0.7	4.2	0.1	0.0			100	IT
40.6	7.1	17.1	67.2	15.7	0.3	0.0	11.2	0.0				100	CY
51.8	18.1	30.4	35.8	33.8	0.2	0.0	6.3	0.4	0.0		0.2	100	LV
54.6	11.7	25.6	58.1	16.3	0.2	0.0	19.6	0.2	0.0			100	LT
70.3	16.5	34.1	64.6	1.3	0.0	0.0	5.3	0.1				100	LU
30.5	27.6	24.8	64.1	11.2	0.1	0.3	10.1	0.4	0.1			100	HU
51.9	10.6	73.9	20.4	5.7	0.2		0.2		0.0			100	MT
25.5	19.7	23.0	49.9	27.1	0.1	0.7	4.0	0.0			0.3	100	NL
46.0	15.5	13.3	77.3	9.4	0.1	0.2	20.5	0.2	0.0		0.0	100	AT
20.7	17.2	13.6	66.2	20.2		1.5	5.6	0.3	0.2			100	PL
39.3	7.5	29.1	43.4	27.5	0.1	2.2	7.4	0.1	0.0		0.3	100	PT
28.9	15.3	21.8	65.7	12.5	1.0	0.8	14.0	0.2	0.0			100	RO
41.5	9.4	28.9	53.9	17.3	0.0	1.0	5.6	0.1	0.2			100	SI
28.2	18.5	31.4	60.9	7.6	0.2	0.1	24.1	0.2	0.0			100	SK
32.0	8.5	28.3	33.6	38.1	2.6	0.3	9.2	0.4			0.1	100	FI
50.9	7.1	27.8	23.0	49.1	0.5	2.1	13.7	0.3	0.1			100	SE
39.3	22.1	21.8	72.7	5.5	0.4	1.1	3.4	0.3	0.1			100	UK
													MK
24.9	18.6	29.2	57.8	13.0		0.0	13.1	0.3	0.0			100	TR
75.1	19.0	0.2	2.2	97.7		4.9	36.9	0.1	0.1			100	IS
38.4	7.3	40.7	29.9	29.5	0.6	6.2	14.8	0.2	0.0			100	NO
48.7	31.3	32.0	64.8	3.3	0.3	0.1	4.9	0.1	0.0	0.0	0.2	100	CH

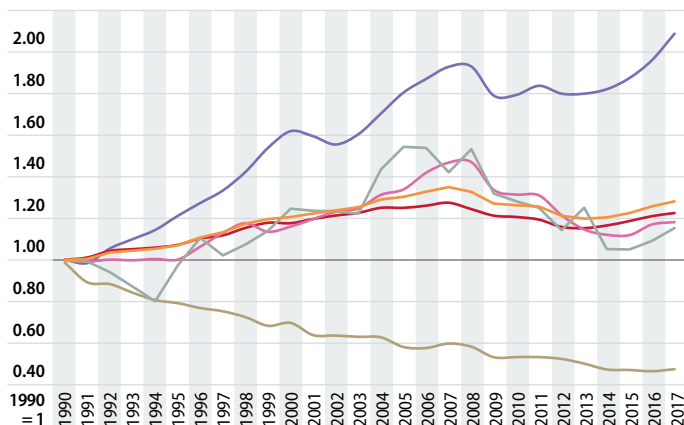
Notes: (*) Excluding LULUCF (Land Use, Land–Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.

3.2.12 CO₂ Emissions from Transport EU-28 – 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 (**)
1990	82.3	13.7	68.5	716.6	13.4	139.1	29.7	109.4	5.2	956.6	4 651.2
1995	99.8	14.9	85.0	770.8	10.7	139.3	29.3	110.0	5.1	1 025.7	4 414.9
2000	133.7	19.4	114.4	849.0	9.4	162.0	27.4	134.6	6.5	1 160.7	4 432.7
2005	149.2	19.3	129.9	904.6	7.8	187.5	27.0	160.5	8.1	1 257.3	4 599.4
2010	148.3	17.8	130.5	871.5	7.2	183.9	24.3	159.7	6.7	1 217.6	4 233.6
2011	151.9	17.7	134.2	861.9	7.2	183.4	22.1	161.3	6.6	1 210.9	4 094.0
2012	148.8	16.4	132.3	835.6	7.0	169.7	20.9	148.9	6.0	1 167.2	4 020.7
2013	148.8	15.2	133.5	831.1	6.7	160.0	19.1	140.9	6.6	1 153.2	3 926.3
2014	150.5	14.9	135.7	840.7	6.3	156.4	18.6	137.8	5.5	1 159.4	3 755.9
2015	155.0	15.0	140.0	856.6	6.3	156.1	19.4	136.7	5.5	1 179.5	3 793.0
2016	162.2	15.5	146.7	874.4	6.2	163.4	19.9	143.5	5.7	1 212.0	3 789.5
2017	172.8	15.9	156.9	885.7	6.4	165.1	20.9	144.2	6.1	1 235.9	3 818.2

Total Civil Aviation - Road Transportation - Railways (***) - Total Navigation - Other - Total Transport



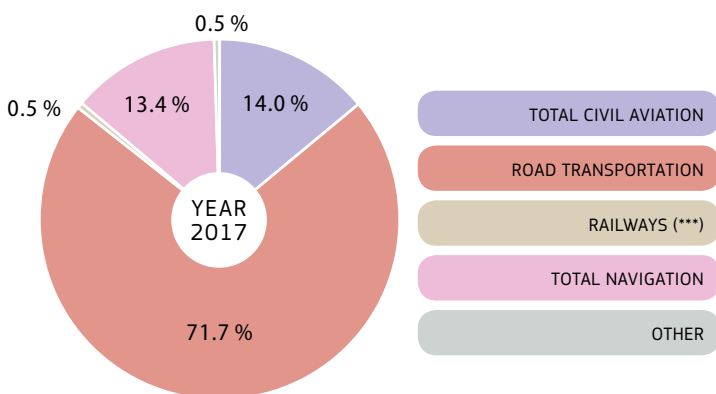
Notes: (*) Excluding International Bunkers (international traffic departing from the EU).
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.

CO₂ Emissions from Transport 3.2.12

EU-28 – BY MODE (SHARES %)

INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil Aviation (domestic) (*)	International Bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International Bunkers – Maritime Transport	OTHER TRANSPORT (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.6	16.7	83.3	74.9	1.4	14.5	21.4	78.6	0.5	20.6	100
1995	9.7	14.9	85.1	75.1	1.0	13.6	21.0	79.0	0.5	23.2	100
2000	11.5	14.5	85.5	73.1	0.8	14.0	16.9	83.1	0.6	26.2	100
2005	11.9	13.0	87.0	71.9	0.6	14.9	14.4	85.6	0.6	27.3	100
2010	12.2	12.0	88.0	71.6	0.6	15.1	13.2	86.8	0.6	28.8	100
2011	12.5	11.7	88.3	71.2	0.6	15.1	12.0	88.0	0.5	29.6	100
2012	12.7	11.0	89.0	71.6	0.6	14.5	12.3	87.7	0.5	29.0	100
2013	12.9	10.2	89.8	72.1	0.6	13.9	11.9	88.1	0.6	29.4	100
2014	13.0	9.9	90.1	72.5	0.5	13.5	11.9	88.1	0.5	30.9	100
2015	13.1	9.7	90.3	72.6	0.5	13.2	12.4	87.6	0.5	31.1	100
2016	13.4	9.5	90.5	72.2	0.5	13.5	12.2	87.8	0.5	32.0	100
2017	14.0	9.2	90.8	71.7	0.5	13.4	12.7	87.3	0.5	32.4	100



Notes: (*) Excluding International Bunkers (international traffic departing from the EU).
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities including pipeline transportation, ground activities in airports and harbours, and off-road activities.
 (*****) Total transport share in total emissions.

3.2.13 CO₂ Emissions from Transport 2017 – 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-28	172.8	15.9	156.9	885.7	6.4	165.1	20.9	144.2	6.1	1235.9	3818.2
BE	4.8	0.0	4.8	24.9	0.1	24.0	0.4	23.6	0.1	53.9	125.9
BG	0.8	0.1	0.7	8.8	0.0	0.3	0.0	0.3	0.4	10.3	48.4
CZ	1.1	0.0	1.1	18.1	0.3	0.0	0.0		0.0	19.5	107.4
DK	3.0	0.1	2.9	12.0	0.2	2.1	0.7	1.5		17.4	39.5
DE	31.2	2.1	29.1	160.1	1.0	8.2	1.7	6.5	1.2	201.7	833.5
EE	0.2	0.0	0.2	2.3	0.0	1.0	0.0	1.0		3.5	19.8
IE	3.1	0.0	3.0	11.4	0.1	0.7	0.2	0.5	0.1	15.4	42.2
EL	3.8	0.4	3.4	14.5	0.1	8.8	1.8	7.0		27.3	85.2
ES	19.7	2.8	16.9	81.6	0.2	24.5	3.0	21.5	0.1	126.2	312.8
FR	22.2	4.9	17.2	126.0	0.4	6.9	1.3	5.6	0.4	155.8	369.3
HR	0.5	0.0	0.4	6.3	0.1	0.2	0.1	0.0		7.0	19.2
IT	13.4	2.2	11.2	91.4	0.1	11.0	3.9	7.1	0.8	116.7	367.3
CY	1.0	0.0	1.0	2.1		0.8	0.0	0.8		3.9	9.3
LV	0.4	0.0	0.4	3.1	0.2	0.8	0.0	0.8		4.5	8.5
LT	0.3	0.0	0.3	5.4	0.2	0.6	0.0	0.6	0.1	6.6	14.3
LU	1.7	0.0	1.7	5.6	0.0	0.0	0.0	0.0		7.3	10.9
HU	0.7	0.0	0.7	12.7	0.1	0.0	0.0		0.1	13.7	50.3
MT	0.4	0.0	0.4	0.6		7.0	0.1	6.9		8.0	9.0
NL	12.0	0.0	12.0	29.7	0.1	38.3	1.0	37.3	0.1	80.2	214.3
AT	2.3	0.0	2.2	23.2	0.1	0.1	0.0	0.1	0.6	26.4	72.3
PL	2.6	0.1	2.5	61.1	0.3	0.9	0.0	0.8	0.9	65.8	339.9
PT	4.3	0.5	3.8	16.2	0.0	2.8	0.3	2.5		23.3	61.2
RO	1.2	0.1	1.0	17.1	0.4	0.2	0.1	0.1	0.0	18.8	76.1
SI	0.1	0.0	0.1	5.4	0.0	0.5		0.5	0.0	6.0	14.8
SK	0.2	0.0	0.2	7.2	0.1	0.0	0.0	0.0	0.3	7.7	36.2
FI	2.3	0.2	2.1	10.7	0.1	1.5	0.4	1.1	0.0	14.6	48.0
SE	3.3	0.5	2.8	15.3	0.0	8.0	0.3	7.7	0.2	26.9	52.5
UK	36.2	1.6	34.6	112.9	2.0	15.9	5.3	10.6	0.6	167.5	430.1
MK											
TR	14.8	3.8	11.0	77.1	0.4	3.8	0.9	2.9	0.8	96.8	439.2
IS	1.2	0.0	1.1	0.9		0.2	0.0	0.2		2.3	5.0
NO	2.8	1.1	1.7	8.7	0.0	2.9	2.4	0.5		14.4	45.9
CH	5.4	0.1	5.3	14.5	0.0	0.1	0.1	0.0	0.0	20.1	43.6

Notes: (*) Excluding International Bunkers (international traffic departing from the EU).

(**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.

CO₂ Emissions from Transport 3.2.13

2017 – 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-28	14.0	9.2	90.8	71.7	0.5	13.4	12.7	87.3	0.5	32.4	100
BE	8.9	0.2	99.8	46.2	0.1	44.5	1.8	98.2	0.3	42.8	100
BG	7.5	8.0	92.0	85.7	0.4	2.5	2.8	97.2	3.9	21.3	100
CZ	5.6	0.9	99.1	92.8	1.4	0.1	100.0		0.2	18.2	100
DK	17.5	4.5	95.5	68.9	1.4	12.3	31.2	68.8		44.2	100
DE	15.5	6.6	93.4	79.4	0.5	4.1	21.0	79.0	0.6	24.2	100
EE	5.2	1.9	98.1	65.6	1.4	27.9	3.4	96.6		17.9	100
IE	19.9	0.6	99.4	73.9	0.8	4.6	32.7	67.3	0.8	36.4	100
EL	14.1	10.5	89.5	53.2	0.4	32.3	20.9	79.1		32.0	100
ES	15.6	14.2	85.8	64.6	0.2	19.4	12.4	87.6	0.1	40.3	100
FR	14.2	22.2	77.8	80.9	0.2	4.4	18.8	81.2	0.2	42.2	100
HR	6.8	6.5	93.5	90.1	0.8	2.3	87.5	12.5		36.7	100
IT	11.5	16.6	83.4	78.3	0.1	9.5	35.5	64.5	0.6	31.8	100
CY	25.7	0.1	99.9	53.5		20.8	0.2	99.8		41.5	100
LV	9.5	1.0	99.0	68.3	3.6	18.6	1.7	98.3		53.2	100
LT	4.9	0.5	99.5	83.0	2.5	8.7	3.0	97.0	0.9	45.9	100
LU	23.1	0.0	100.0	76.7	0.1	0.0	88.1	11.9		66.5	100
HU	5.1	0.5	99.5	92.8	1.0	0.1	100.0		1.0	27.2	100
MT	5.4	0.1	99.9	7.0		87.6	1.0	99.0		89.0	100
NL	15.0	0.3	99.7	37.0	0.1	47.8	2.6	97.4	0.1	37.4	100
AT	8.7	1.9	98.1	88.2	0.4	0.3	13.9	86.1	2.4	36.5	100
PL	4.0	5.0	95.0	92.9	0.5	1.3	2.5	97.5	1.3	19.4	100
PT	18.6	11.6	88.4	69.4	0.1	11.8	9.7	90.3		38.1	100
RO	6.1	12.8	87.2	90.7	2.0	1.2	59.5	40.5	0.0	24.7	100
SI	1.2	2.3	97.7	89.9	0.5	8.3		100.0	0.1	40.7	100
SK	2.2	2.0	98.0	92.3	1.1	0.3	20.2	79.8	4.1	21.4	100
FI	15.7	8.5	91.5	73.4	0.4	10.5	28.1	71.9	0.0	30.4	100
SE	12.3	16.5	83.5	57.1	0.2	29.8	3.8	96.2	0.6	51.2	100
UK	21.6	4.5	95.5	67.4	1.2	9.5	33.4	66.6	0.3	38.9	100
MK											
TR	15.3	25.6	74.4	79.6	0.4	3.9	24.6	75.4	0.8	22.0	100
IS	50.2	2.0	98.0	40.1		9.6	14.0	86.0		47.0	100
NO	19.2	39.8	60.2	60.1	0.3	20.3	82.6	17.4		31.4	100
CH	27.0	2.2	97.8	72.1	0.1	0.7	83.7	16.3	0.1	46.1	100

Notes: (*) Excluding International Bunkers (international traffic departing from the EU).
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Total transport share in total emissions.

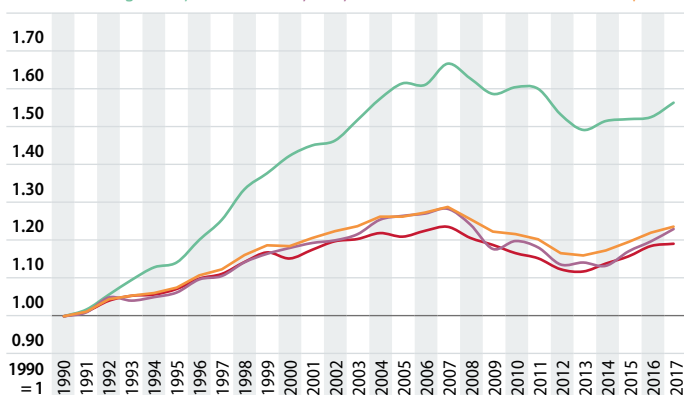
3.2.14

CO₂ Emissions from Road Transport – EU-28

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	716.6	451.4	67.6	188.4	8.7	0.4	956.6	465.2
1995	770.8	484.0	77.1	200.2	9.3	0.2	1025.7	4414.9
2000	849.0	520.3	95.9	222.3	10.2	0.2	1160.7	4432.7
2005	904.6	546.3	108.6	238.2	10.8	0.5	1257.3	4599.4
2010	871.5	526.7	108.0	225.8	10.4	0.6	1217.6	4233.6
2011	861.9	520.5	107.7	222.6	10.5	0.6	1210.9	4094.0
2012	835.6	507.5	103.2	214.1	10.4	0.5	1167.2	4020.7
2013	831.1	504.8	100.4	215.1	10.2	0.5	1153.2	3926.3
2014	840.7	514.3	102.0	213.5	10.4	0.5	1159.4	3755.9
2015	856.6	522.8	102.3	220.6	10.4	0.5	1179.5	3793.0
2016	874.4	535.2	102.7	225.6	10.5	0.4	1212.0	3789.5
2017	885.7	537.9	105.2	231.7	10.4	0.4	1235.9	3818.2

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



Notes: (*) Including International Bunkers (international traffic departing from the EU).

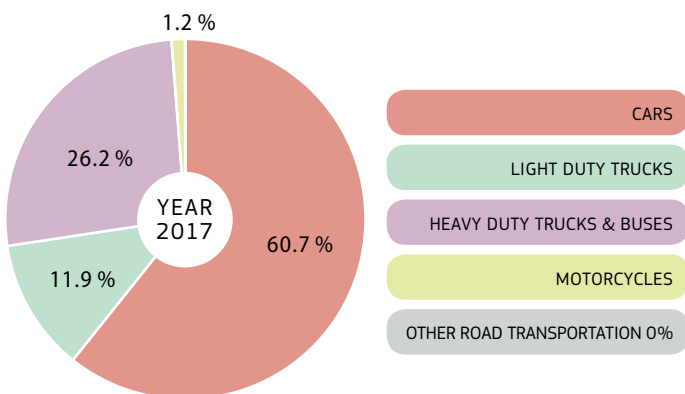
(**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.

CO₂ Emissions from Road Transport – EU-28

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	74.9	63.0	9.4	26.3	1.2	0.1	20.6	100.0
1995	75.1	62.8	10.0	26.0	1.2	0.0	23.2	100.0
2000	73.1	61.3	11.3	26.2	1.2	0.0	26.2	100.0
2005	71.9	60.4	12.0	26.3	1.2	0.1	27.3	100.0
2010	71.6	60.4	12.4	25.9	1.2	0.1	28.8	100.0
2011	71.2	60.4	12.5	25.8	1.2	0.1	29.6	100.0
2012	71.6	60.7	12.3	25.6	1.2	0.1	29.0	100.0
2013	72.1	60.7	12.1	25.9	1.2	0.1	29.4	100.0
2014	72.5	61.2	12.1	25.4	1.2	0.1	30.9	100.0
2015	72.6	61.0	11.9	25.8	1.2	0.1	31.1	100.0
2016	72.2	61.2	11.7	25.8	1.2	0.1	32.0	100.0
2017	71.7	60.7	11.9	26.2	1.2	0.0	32.4	100.0



Notes: (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Total transport share in total emissions.

3.2.15

Oil Spills at Sea

NUMBER OF OIL SPILLS, TOTAL AMOUNT SPILT

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

SELECTED MAJOR OIL SPILLS – World outside Europe

SHIP NAME	Year	Location	Oil lost (t)
Atlantic Empress	1979	off Tobago, West Indies	287 000
ABT Summer	1991	900 miles off Angola	260 000
Castillo de Bellver	1983	off Saldanha Bay, South Africa	252 000
Odyssey	1988	700 miles off Nova Scotia, Canada	132 000
Sea Star	1972	Gulf of Oman	115 000
Sanchi	2018	off Shanghai	113 000
Hawaiian Patriot	1977	300 miles off Honolulu	95 000
Khark 5	1989	off Atlantic Coast of Morocco	70 000
Nova	1985	off Kharg iSalnd, 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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