



STATISTICAL POCKETBOOK

2018



EU TRANSPORT

in figures

CONNECTING
EUROPE

Mobility and
Transport

Printed by Imprimerie Centrale in Belgium

Neither the European Commission nor any person acting on behalf of the Commission is responsible for the use that might be made of the following information.

Luxembourg: Publications Office of the European Union, 2018

© European Union, 2018

Reuse is authorised provided the source is acknowledged.

The reuse policy of European Commission documents is regulated by Decision 2011/833/EU (OJ L 330, 14.12.2011, p. 39).

For any use or reproduction of photos or other material that is not under the EU copyright, permission must be sought directly from the copyright holders.

Print ISBN 978-92-79-73951-4 ISSN 1831-998X doi:10.2832/178191 MI-AA-17-001-EN-C
PDF ISBN 978-92-79-73952-1 ISSN 2363-2739 doi:10.2832/05477 MI-AA-17-001-EN-N

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 and the EFTA 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 2016; 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.

CONTENTS

PART 1 – GENERAL DATA

1.1	General Data	9
1.2	Growth in GDP and Industrial Production	10
1.3	Employment and Unemployment	11
1.4	Share of Gross Value Added and Employment – By Sector	12
1.5	Population	13
1.6a	Member States External Trade of Goods – Imports	14
1.6b	Member States External Trade of Goods – Exports	15
1.7	Comparison EU-28 – World	16

PART 2 – TRANSPORT

2.1	General	19
2.1.1	Statistical Overview EU Transport	19
2.1.2	Transport Growth EU-28 (graph)	21
2.1.3	Road Transport – Speed Limits, Blood Alcohol Limits	22
2.1.4	Road Transport – Maximum Gross Vehicle Weight	23
2.1.5	Employment by Mode of Transport	24
2.1.6	Number of Entreprises by Mode of Transport	25
2.1.7	Turnover by Mode of Transport	26
2.1.8	Final Consumption of Households for Transport	27
2.1.9	EU-28 Evolution of Consumer Prices for Passenger Transport	28
2.1.10	EU-28 External Trade by Mode of Transport	29
2.1.11	Environmental Taxes and Transport – As % of GDP – Transport Fuel Taxes	30
2.1.12	Environmental Taxes and Transport – As % of GDP – Transport (excl. Fuel)	31
2.1.13	Environmental Taxes and Transport – Fuel and Other Taxes – as % of Total Taxation	32
2.1.14	Comparison EU-28 – World – Infrastructure and Vehicles	33
2.1.15	Comparison EU-28 – World – Passenger and Freight Transport	34
2.2	Performance of Freight Transport expressed in tonne-kilometres	35
2.2.1	EU-28 Performance for Freight Transport – By Mode	35
2.2.2	EU-28 Performance – By Mode	36
2.2.3	Modal Split of Freight Transport on Land – By Country	37
2.2.4a	Road – National Haulage	38
2.2.4b	Road – International Haulage	39
2.2.4c	Road – National and International Haulage	40
2.2.4d	Road – Transport Performance adjusted for Territoriality	41
2.2.5	Railways	42
2.2.6	Inland Waterways	43
2.2.7	Oil Pipelines	44
2.2.8	USA	45
2.3	Performance of Passenger Transport expressed in passenger-kilometres	47
2.3.1	EU-28 Performance for Passenger Transport – By Mode	47
2.3.2	EU-28 Performance – By Mode	48
2.3.3	Modal Split of Passenger Transport on Land – By Country	49

CONTENTS

2.3.4	Passenger Cars	50
2.3.5	Buses & Coaches	51
2.3.6	Tram & Metro	52
2.3.7	Railways	53
2.3.8	Rail	54
2.3.9	USA	55
2.4	Performance of Freight and Passenger Transport	
	Using Other Indicators	56
2.4.1	Air – Passenger Traffic between Member States	56
2.4.2	Air – Major European Airlines	58
2.4.3	Air – Passenger Traffic at Major EU Airports	59
2.4.4a	Air – Main Intra-EU Airport Pairs in Passenger Transport	60
2.4.4b	Air – Main Connections between EU and non-EU Airports in Passenger Transport	61
2.4.5	Air – Freight Traffic at Major EU Airports	62
2.4.6	Air – Aircraft Traffic at Major EU Airports	63
2.4.7	Sea – Inward and Outward Flow of Passengers – By Country	64
2.4.8	Sea – Passenger Traffic at Major EU Seaports	66
2.4.9	Sea – Freight Traffic at Major EU Seaports	67
2.4.10a	Sea – Intra-EU Maritime Transport – By Country	68
2.4.10b	Sea – Main Routes in Intra-EU Maritime Transport	69
2.4.11	Sea – Container Traffic at Major EU Seaports	70
2.4.12	Combined Transport Traffic	71
2.4.13	Road – Alps Crossing Freight Traffic	72
2.4.14	Road – Pyrenees Crossing Traffic	73
2.4.15	Rail – Traffic Measured in Train-Kilometres	74
2.4.16a	Rail – Degree of Market Opening – Passengers	75
2.4.16b	Rail – Degree of Market Opening – Freight	76
2.4.17	Rail – Alps Crossing Freight Traffic	77
2.4.18	Rail – Channel Tunnel Traffic	78
2.5	Infrastructure	79
2.5.1	Road – Length of Motorways	79
2.5.2	Road – Length of Road Network	80
2.5.3	Railways – Length of Lines in Use	81
2.5.4	Railways – High-Speed Rail Network	82
2.5.5	Railways – Main Railway Gauge and Electric Current Used	83
2.5.6	Air – Number of Airports	84
2.5.7	Inland Waterways – Length In Use	85
2.5.8	Pipelines	86
2.6	Means of Transport	87
2.6.1	Road – Motorisation	87
2.6.2	Road – Passenger Cars – Stock of Registered Vehicles	88
2.6.3	Road – Buses and Coaches – Stock of Registered Vehicles	89
2.6.4	Road – Goods Vehicles – Stock of Registered Vehicles	90
2.6.5	Road – Powered Two-wheelers – Stock of Registered Vehicles	91
2.6.6	Road – Passenger Cars – New Vehicle Registrations	92
2.6.7	Road – Goods Vehicles – New Vehicle Registrations	93

CONTENTS

2.6.8	Road – Buses and Coaches – New Vehicle Registrations	94
2.6.9	Road – Motorcycles – New Vehicle Registrations	95
2.6.10	Road – Mopeds – New Vehicle Deliveries	96
2.6.11	Sea – EU Merchant Fleet	97
2.6.12a	Sea – World Merchant Fleet – By World Region	98
2.6.12b	Sea – World Merchant Fleet – By Type of Ship	99
2.6.13	Air – Passenger Aircraft	100
2.6.14	Air – Freight, Special, Business Aircraft	101
2.6.15	Rail – Locomotives and Railcars	102
2.6.16	Rail – Passenger Transport Vehicles	103
2.6.17	Rail – Goods Transport Wagons	104
2.7	Safety	105
2.7.1	Road Fatalities	105
2.7.2	Road Fatalities Country Rankings	106
2.7.3a	Road Fatalities – By Type of User	107
2.7.3b	Road Fatalities of Vehicle Occupants – By Type of Vehicle	108
2.7.4	Road Accidents	109
2.7.5	Railway Fatalities	110
2.7.6	Air – Lives Lost	111
2.7.7	Sea – Ships Lost (World)	112

PART 3 – ENERGY AND ENVIRONMENT

3.1	Energy	115
3.1.1	Glossary	115
3.1.2	Average Calorific Values – Energy Content	117
3.1.3	Conversion Factors	118
3.1.4	Energy Statistics for EU-28	119
3.1.5	Final Energy Consumption – By Sector	120
3.1.6	Final Consumption of Motor Gasoline, Diesel and Biofuels for Transport – By Fuel	122
3.1.7	Biofuels Production – By Fuel	123
3.2	Environment	124
3.2.1	Total Greenhouse Gas (GHG) Emissions	124
3.2.2	GHG Emissions from Transport	125
3.2.3	GHG Emissions – EU-28 – By Sector	126
3.2.4	GHG Emissions – 2016 – By Sector	130
3.2.5	GHG Emissions from Transport – EU-28 – By Mode	134
3.2.6	GHG Emissions from Transport – 2016 – By Mode	136
3.2.7	GHG Emissions from Road Transport – EU-28 – By Transport Mean	138
3.2.8	Total CO ₂ Emissions	140
3.2.9	CO ₂ Emissions from Transport	141
3.2.10	CO ₂ Emissions – EU-28 – By Sector	142
3.2.11	CO ₂ Emissions – 2016 – By Sector	146
3.2.12	CO ₂ Emissions from Transport – EU-28 – By Mode	150
3.2.13	CO ₂ Emissions from Transport – 2016 – By Mode	152
3.2.14	CO ₂ Emissions from Road Transport – EU-28 – By Transport Mean	154
3.2.15	Oil Spills at Sea	156

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
----	-------------	------------

EUROPEAN UNION CANDIDATE COUNTRIES

AL	Albania
ME	Montenegro
MK	The former Yugoslav Republic of 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

99 875 112.5%
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

37.0

4.6

3.3

64.6

60.3

4.6

93.0

20.3

312.7

31.4

12.7

92.1

238.4

20.3

49.0

338.4

450.3

243.8

13.8

25.7

88.4

785.3

103.0

323.8

41.3

PART 1

SUMMARY

1.1	GENERAL DATA	9
1.2	GROWTH IN GDP AND INDUSTRIAL PRODUCTION ...	10
1.3	EMPLOYMENT AND UNEMPLOYMENT	11
1.4	SHARE OF GROSS VALUE ADDED AND EMPLOYMENT – BY SECTOR	12
1.5	POPULATION	13
1.6a	MEMBER STATES EXTERNAL TRADE OF GOODS – IMPORTS	14
1.6b	MEMBER STATES EXTERNAL TRADE OF GOODS – EXPORTS	15
1.7	COMPARISON EU-28 – WORLD	16

General Data

1.1

	AREA	POPULA- TION	GDP (NOMINAL)	GDP PER HEAD IN PPS	
	1 000 km ²	million	billion EUR	EU-28 = 100	
	on 1/1/2017		2016	2015	2016
EU-28	4470.6	511.523	14 908.8	100	100
BE	30.5	11.352	423.0	119	117
BG	111.0	7.102	48.1	47	49
CZ	78.9	10.579	176.6	87	88
DK	43.1	5.749	277.5	127	124
DE	357.1	82.522	3 144.1	124	123
EE	45.2	1.316	21.1	75	75
IE	70.3	4.784	275.6	181	183
EL	132.0	10.768	174.2	70	67
ES	506.0	46.528	1 118.5	91	91
FR	633.1	66.989	2 228.9	106	104
HR	56.6	4.154	46.4	59	60
IT	301.3	60.589	1 680.9	96	97
CY	9.3	0.855	18.2	82	83
LV	64.6	1.950	24.9	64	64
LT	65.3	2.848	38.7	75	75
LU	2.6	0.591	53.0	267	257
HU	93.0	9.798	113.7	68	67
MT	0.3	0.460	10.2	93	94
NL	41.5	17.082	702.6	129	127
AT	83.9	8.773	353.3	130	127
PL	312.7	37.973	426.0	68	68
PT	92.1	10.310	185.5	77	77
RO	238.4	19.644	169.8	56	58
SI	20.3	2.066	40.4	82	83
SK	49.0	5.435	81.2	77	77
FI	338.4	5.503	215.8	110	109
SE	450.3	9.995	465.2	125	123
UK	243.8	65.809	2 395.8	108	108
AL	28.7	2.877	10.3	29	29
ME	13.8	0.622	3.6	42	44
MK	25.7	2.074	9.1	36	37
RS	88.4	7.040	33.5	36	37
TR	785.3	79.815	772.6	65	64
IS	103.0	0.338	15.1	124	128
NO	323.8	5.258	348.3	161	148
CH	41.3	8.420	604.5	166	161

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 (excluding construction)			
	% CHANGE				% CHANGE			
	2013	2014	2015	2016	2013	2014	2015	2016
EU-28	0.3	1.8	2.3	2.0	-0.6	1.2	2.7	1.7
BE	0.2	1.4	1.4	1.5	0.9	1.1	-0.1	4.4
BG	0.9	1.3	3.6	3.9	-0.1	2.0	2.7	2.8
CZ	-0.5	2.7	5.3	2.6	0.0	5.0	4.6	2.9
DK	0.9	1.6	1.6	2.0	0.4	0.8	1.2	3.6
DE	0.5	1.9	1.7	1.9	0.1	1.3	0.9	1.2
EE	1.9	2.9	1.7	2.1	4.5	4.3	0.1	2.7
IE	1.6	8.3	25.6	5.1	-2.5	22.0	40.9	0.5
EL	-3.2	0.7	-0.3	-0.2	-3.3	-2.0	1.0	2.6
ES	-1.7	1.4	3.4	3.3	-1.8	1.4	3.4	1.7
FR	0.6	0.9	1.1	1.2	-0.9	-0.9	1.5	0.3
HR	-0.6	-0.1	2.3	3.2	-1.6	1.1	2.6	5.0
IT	-1.7	0.1	1.0	0.9	-3.0	-0.7	1.1	2.0
CY	-5.9	-1.4	2.0	3.4	-13.5	-0.7	3.4	7.9
LV	2.4	1.9	3.0	2.2	-0.6	-0.9	3.4	4.9
LT	3.5	3.5	2.0	2.3	3.1	0.2	4.3	2.8
LU	3.7	5.8	2.9	3.1	-3.0	4.4	1.1	0.2
HU	2.1	4.2	3.4	2.2	1.4	7.2	7.1	0.7
MT	4.7	8.1	9.9	5.5	-5.2	-5.7	6.4	-4.7
NL	-0.2	1.4	2.3	2.2	0.6	-2.9	-3.4	2.2
AT	0.0	0.8	1.1	1.5	0.5	0.9	2.1	2.8
PL	1.4	3.3	3.8	2.9	2.7	3.1	4.8	2.8
PT	-1.1	0.9	1.8	1.6	0.8	1.7	2.0	2.4
RO	3.5	3.1	4.0	4.8	7.7	6.3	2.6	3.1
SI	-1.1	3.0	2.3	3.1	-1.0	1.7	5.2	7.8
SK	1.5	2.8	3.9	3.3	2.1	2.9	6.0	3.8
FI	-0.8	-0.6	0.1	2.1	-3.2	-1.8	-1.2	4.0
SE	1.2	2.6	4.5	3.2	-4.6	-1.7	3.2	2.0
UK	2.1	3.1	2.3	1.9	-0.5	1.4	1.2	1.4
AL	1.0	1.8	2.2	3.4	28.2	1.4	-2.1	-26.3
ME	3.5	1.8	3.4	2.9	10.6	-11.4	7.9	-2.9
MK	2.9	3.6	3.9	2.9	3.3	4.7	4.9	3.4
RS	2.6	-1.8	0.8	2.8	6.1	-7.4	7.3	4.9
TR	8.5	5.2	6.1	3.2	7.2	5.7	5.8	3.4
IS	4.3	2.2	4.3	7.5	-4.0	1.1	9.4	-9.0
NO	1.0	2.0	2.0	1.1	-5.0	3.5	0.6	-1.5
CH	1.9	2.4	1.2	1.4	0.5	2.1	-2.4	0.3

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, TR,

RS, ME and MK provided by Eurostat. IE provided by OECD from 2010 onwards.

IS estimated by OECD. CH provided by OECD. AL provided by UNECE until 2009.

Employment and Unemployment 1.3

	EMPLOYMENT RATE				UNEMPLOYMENT RATE			
	%				%			
	2013	2014	2015	2016	2013	2014	2015	2016
EU-28	64.1	64.8	65.6	66.6	11.0	10.4	9.6	8.7
BE	61.8	61.9	61.8	62.3	8.5	8.6	8.6	7.9
BG	59.5	61.0	62.9	63.4	13.0	11.5	9.2	7.7
CZ	67.7	69.0	70.2	72.0	7.0	6.2	5.1	4.0
DK	72.5	72.8	73.5	74.9	7.2	6.8	6.3	6.3
DE	73.5	73.8	74.0	74.7	5.3	5.1	4.7	4.2
EE	68.5	69.6	71.9	72.1	8.9	7.5	6.3	7.0
IE	60.5	61.7	63.3	64.8	13.3	11.5	9.6	8.1
EL	48.8	49.4	50.8	52.0	27.7	26.7	25.1	23.7
ES	54.8	56.0	57.8	59.5	26.2	24.6	22.2	19.7
FR	64.0	63.8	63.8	64.2	10.0	10.4	10.4	10.1
HR	52.5	54.6	56.0	56.9	17.5	17.5	16.4	13.3
IT	55.5	55.7	56.3	57.2	12.3	12.9	12.1	11.9
CY	61.7	62.1	62.7	63.7	16.1	16.3	15.2	13.2
LV	65.0	66.3	68.1	68.7	12.1	11.1	10.1	9.9
LT	63.7	65.7	67.2	69.4	12.0	10.9	9.3	8.1
LU	65.7	66.6	66.1	65.6	5.9	5.9	6.7	6.3
HU	58.1	61.8	63.9	66.5	10.2	7.8	6.8	5.1
MT	60.8	62.4	63.9	65.8	6.5	5.9	5.5	4.8
NL	73.6	73.1	74.1	74.8	7.3	7.5	6.9	6.1
AT	71.4	71.1	71.1	71.5	5.4	5.7	5.8	6.1
PL	60.0	61.7	62.9	64.5	10.5	9.1	7.6	6.2
PT	60.6	62.6	63.9	65.2	17.0	14.5	12.9	11.5
RO	60.1	61.0	61.4	61.6	7.4	7.1	7.0	6.1
SI	63.3	63.9	65.2	65.8	10.3	9.9	9.1	8.1
SK	59.9	61.0	62.7	64.9	14.3	13.2	11.5	9.7
FI	68.9	68.7	68.5	69.1	8.3	8.8	9.6	9.0
SE	74.4	74.9	75.5	76.2	8.2	8.1	7.6	7.1
UK	70.5	71.9	72.7	73.5	7.7	6.3	5.4	4.9
AL	49.9	50.5	52.9	55.9	16.4	17.9	17.5	15.6
ME	47.1	50.4	51.4	52.0	19.6	18.2	17.8	18.0
MK	46.0	46.9	47.8	49.1	29.1	28.1	26.3	24.0
RS	47.3	50.7	52.0	55.2	22.1	19.9	18.2	15.9
TR	49.5	49.5	50.2	50.6	8.9	10.1	10.4	11.1
IS	81.1	82.9	84.7	86.6	5.5	5.1	4.2	3.1
NO	75.4	75.2	74.8	74.3	3.5	3.6	4.4	4.8
CH	78.4	78.8	79.2	79.6	4.9	5.0	4.9	5.1

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
	2016			2016		
EU-28	1.5	24.8	73.7	4.5	21.7	73.8
BE	0.7	22.2	77.2	1.3	17.6	81.1
BG	4.7	28.3	67.0	18.0	25.3	56.7
CZ	2.5	37.6	59.9	3.1	36.8	60.1
DK	0.9	23.5	75.6	2.4	17.2	80.4
DE	0.6	30.5	68.9	1.4	24.2	74.4
EE	2.6	26.9	70.5	3.9	28.3	67.8
IE	1.0	39.3	59.7	5.5	18.7	75.8
EL	4.0	16.3	79.7	11.3	14.1	74.6
ES	2.8	23.5	73.8	4.0	17.6	78.4
FR	1.6	19.6	78.8	2.7	16.9	80.4
HR	4.1	26.4	69.5	7.5	26.9	65.6
IT	2.1	23.9	74.0	3.7	22.9	73.3
CY	2.1	11.3	86.6	3.9	16.0	80.0
LV	3.9	21.3	74.7	7.6	22.7	69.7
LT	3.3	28.7	68.0	8.0	25.1	66.9
LU	0.3	12.9	86.8	0.9	19.0	80.1
HU	4.4	30.5	65.1	5.9	26.0	68.1
MT	1.2	13.8	85.0	1.6	18.0	80.4
NL	1.8	20.0	78.2	2.2	14.5	83.3
AT	1.2	27.7	71.0	4.0	22.5	73.6
PL	2.7	33.7	63.6	10.6	31.0	58.5
PT	2.2	22.3	75.5	9.7	22.8	67.5
RO	4.6	33.7	61.8	24.0	29.7	46.3
SI	2.2	32.3	65.5	7.7	29.1	63.2
SK	3.7	34.8	61.5	3.1	31.1	65.8
FI	2.7	27.1	70.2	3.9	22.5	73.5
SE	1.3	24.5	74.2	2.1	19.9	78.0
UK	0.6	20.2	79.2	1.3	16.0	82.7
AL	22.9	23.7	53.4	39.7	19.5	40.8
ME	9.0	19.1	71.8	7.6	17.4	75.0
MK	10.5	28.4	61.1	17.5	29.4	53.1
RS	7.9	31.3	60.8	18.6	24.4	57.0
TR	7.0	32.0	61.0	18.1	27.3	54.6
IS	5.8	22.4	71.8	3.9	19.6	76.5
NO	2.4	32.0	65.6	2.5	19.8	77.6
CH	0.7	25.8	73.5	3.3	21.1	75.5

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.

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							%
	1990	2000	2005	2010	2015	2016	2017	change '16/'17
EU-28	475.161	487.259	494.598	503.171	508.540	510.277	511.523	0.2
BE	9.948	10.239	10.446	10.840	11.237	11.311	11.352	0.4
BG	8.767	8.191	7.689	7.422	7.202	7.154	7.102	-0.7
CZ	10.362	10.278	10.199	10.462	10.538	10.554	10.579	0.2
DK	5.135	5.330	5.411	5.535	5.660	5.707	5.749	0.7
DE	79.113	82.163	82.501	81.802	81.198	82.176	82.522	0.4
EE	1.571	1.401	1.359	1.333	1.315	1.316	1.316	0.0
IE	3.507	3.778	4.112	4.549	4.678	4.726	4.784	1.2
EL	10.121	10.776	10.970	11.119	10.858	10.784	10.768	-0.1
ES	38.826	40.470	43.296	46.487	46.450	46.440	46.528	0.2
FR	56.577	60.545	62.773	64.659	66.456	66.730	66.989	0.4
HR	4.773	4.498	4.311	4.303	4.225	4.191	4.154	-0.9
IT	56.694	56.924	57.875	59.190	60.796	60.666	60.589	-0.1
CY	0.573	0.690	0.733	0.819	0.847	0.848	0.855	0.8
LV	2.668	2.382	2.250	2.121	1.986	1.969	1.950	-1.0
LT	3.694	3.512	3.355	3.142	2.921	2.889	2.848	-1.4
LU	0.379	0.434	0.461	0.502	0.563	0.576	0.591	2.5
HU	10.375	10.222	10.098	10.014	9.856	9.830	9.798	-0.3
MT	0.352	0.389	0.403	0.414	0.440	0.450	0.460	2.2
NL	14.893	15.864	16.306	16.575	16.901	16.979	17.082	0.6
AT	7.645	8.002	8.201	8.352	8.585	8.700	8.773	0.8
PL	38.038	38.263	38.174	38.023	38.006	37.967	37.973	0.0
PT	9.996	10.249	10.495	10.573	10.375	10.341	10.310	-0.3
RO	23.211	22.455	21.382	20.295	19.871	19.760	19.644	-0.6
SI	1.996	1.988	1.998	2.047	2.063	2.064	2.066	0.1
SK	5.288	5.399	5.373	5.390	5.421	5.426	5.435	0.2
FI	4.974	5.171	5.237	5.351	5.472	5.487	5.503	0.3
SE	8.527	8.861	9.011	9.341	9.747	9.851	9.995	1.5
UK	57.157	58.785	60.182	62.510	64.875	65.383	65.809	0.7
AL	3.287	3.058	3.135		2.892	2.886	2.877	-0.3
ME		0.603	0.613	0.619	0.622	0.622	0.622	0.0
MK	1.873	2.022	2.035	2.053	2.069	2.071	2.074	0.1
RS		7.528	7.456	7.307	7.114	7.076	7.040	-0.5
TR	55.495	66.889	68.010	72.561	77.696	78.741	79.815	1.4
IS	0.254	0.279	0.294	0.318	0.329	0.333	0.338	1.8
LI	0.028	0.032	0.035	0.036	0.037	0.038	0.038	0.5
NO	4.233	4.478	4.606	4.858	5.166	5.214	5.258	0.9
CH	6.674	7.164	7.415	7.786	8.238	8.327	8.420	1.1

Notes: DE: population: includes DE-E: 1970=17.1, 1980=16.7, 1990=16.1

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 2016 (VALUE = billion EUR)

	IMPORTS FROM:								
	WORLD	EU-28	EXTRA-EU-28	OF WHICH:					
				CANDIDATE 5	EFTA	USA	JAPAN	RUSSIA	CHINA
EU-28	4 752.967	3 040.467	1 712.500	80.660	188.983	250.449	66.623	118.865	344.915
BE	336.649	213.574	123.076	4.339	7.921	27.199	8.347	7.513	14.549
BG	26.159	17.379	8.780	2.268	0.221	0.209	0.095	2.337	1.040
CZ	129.268	102.445	26.823	1.288	1.107	1.882	1.294	2.117	9.624
DK	77.292	55.105	22.187	0.914	5.032	2.099	0.361	1.377	5.606
DE	953.761	632.344	321.416	16.931	53.373	43.530	15.510	24.100	70.030
EE	13.493	11.025	2.468	0.090	0.198	0.171	0.034	0.769	0.642
IE	73.273	47.981	25.292	0.367	2.636	13.107	0.607	0.183	2.785
EL	44.126	24.146	19.980	1.860	0.506	0.662	0.285	2.822	2.887
ES	281.057	173.879	107.178	5.257	5.103	10.576	2.919	3.084	19.914
FR	516.969	357.304	159.665	6.418	18.228	29.678	5.116	5.327	26.495
HR	19.791	15.225	4.566	0.858	0.188	0.189	0.032	0.302	0.596
IT	367.626	223.337	144.289	10.340	11.316	13.917	4.018	10.643	27.346
CY	7.077	4.684	2.393	0.042	0.085	0.144	0.065	0.077	0.545
LV	12.880	10.365	2.516	0.084	0.176	0.103	0.019	0.966	0.403
LT	24.700	17.540	7.160	0.155	0.439	0.317	0.038	3.432	0.709
LU	19.643	15.192	4.452	0.034	0.148	1.376	0.423	0.005	1.135
HU	84.829	65.896	18.933	1.708	0.566	1.603	1.298	2.380	5.308
MT	5.784	3.236	2.548	0.093	0.076	0.151	0.052	0.025	0.185
NL	456.290	214.929	241.361	4.121	15.581	36.342	9.988	18.465	64.249
AT	142.512	111.196	31.316	2.044	8.072	3.288	0.995	2.016	4.776
PL	178.245	128.536	49.709	2.332	1.936	3.498	1.092	10.271	14.070
PT	61.243	47.635	13.608	0.565	0.384	0.878	0.299	1.187	1.819
RO	67.363	51.951	15.412	3.171	0.461	0.637	0.332	1.983	3.440
SI	27.597	19.567	8.030	2.013	0.326	0.370	0.079	0.253	1.321
SK	68.216	54.676	13.540	0.707	0.451	0.330	0.278	2.646	3.138
FI	54.994	40.170	14.823	0.335	1.379	1.301	0.280	6.112	1.940
SE	127.222	90.590	36.632	1.200	10.946	3.390	1.558	3.457	7.128
UK	574.908	290.559	284.350	11.128	42.129	53.504	11.209	5.016	53.235

Notes: Candidate 5: Albania, Serbia, the former Yugoslav Republic of Macedonia, Montenegro and Turkey.

EFTA: Iceland, Liechtenstein, Norway, Switzerland.

Member States External Trade of Goods 1.6b

EXPORTS

YEAR 2016 (VALUE = billion EUR)

	EXPORTS TO:								
	WORLD	EU-28	EXTRA-EU-28	OF WHICH:					
				CANDIDATE 5	EFTA	USA	JAPAN	RUSSIA	CHINA
EU-28	4860.292	3 115.734	1 744.557	97.703	195.509	363.519	58.019	72.338	169.664
BE	359.593	260.131	99.462	4.866	7.044	20.823	3.562	3.400	6.928
BG	24.022	15.931	8.091	2.638	0.173	0.355	0.041	0.391	0.468
CZ	147.000	123.017	23.983	2.618	2.850	3.198	0.842	2.782	1.734
DK	86.137	53.108	33.029	0.990	6.440	7.016	1.943	0.728	3.805
DE	1205.489	705.769	499.720	25.644	59.813	107.100	18.519	21.532	76.893
EE	11.897	8.787	3.110	0.128	0.567	0.318	0.073	0.776	0.168
IE	118.230	59.303	58.927	0.598	6.674	31.747	2.828	0.366	3.092
EL	25.445	14.315	11.130	2.631	0.196	1.095	0.055	0.215	0.328
ES	262.041	175.043	86.999	5.548	5.334	11.364	2.403	1.597	4.875
FR	453.306	269.540	183.767	7.614	16.958	32.996	6.286	4.943	16.003
HR	12.489	8.183	4.307	0.978	0.192	0.456	0.033	0.191	0.077
IT	417.269	233.413	183.856	12.757	20.663	36.888	6.022	6.690	11.057
CY	2.681	1.303	1.378	0.012	0.034	0.060	0.001	0.036	0.043
LV	10.979	7.649	3.331	0.167	0.311	0.165	0.049	1.254	0.122
LT	22.607	13.721	8.886	0.223	0.822	1.163	0.130	3.046	0.123
LU	14.245	11.784	2.461	0.133	0.493	0.382	0.066	0.129	0.222
HU	92.073	74.950	17.123	3.211	0.972	2.681	0.503	1.408	1.422
MT	2.843	1.183	1.660	0.017	0.029	0.740	0.145	0.003	0.044
NL	516.249	392.234	124.015	6.235	11.423	18.426	3.432	4.700	10.502
AT	137.410	97.073	40.337	2.221	8.257	8.596	1.328	1.952	3.314
PL	182.967	145.565	37.402	3.664	4.115	4.332	0.532	5.206	1.720
PT	50.022	37.571	12.451	0.450	0.728	2.465	0.139	0.147	0.676
RO	57.392	43.080	14.312	2.730	0.583	0.956	0.216	0.970	0.614
SI	29.742	22.408	7.335	1.753	0.518	0.529	0.123	0.790	0.461
SK	70.070	59.877	10.192	1.238	1.281	1.674	0.087	1.475	1.138
FI	52.054	30.675	21.379	0.790	2.380	3.974	1.029	2.979	2.700
SE	126.016	74.557	51.459	1.379	14.886	9.207	1.887	1.545	4.851
UK	370.023	175.564	194.459	6.470	21.773	54.814	5.747	3.084	16.282

Notes: Candidate 5: Albania, Serbia, the former Yugoslav Republic of Macedonia, Montenegro and Turkey.

EFTA: Iceland, Liechtenstein, Norway and Switzerland.

1.7 Comparison EU-28 – World

DATA FOR 2016

	EU-28	USA	JAPAN	CHINA	RUSSIA
Population million	510.9	323.1	127.0	1 378.7	144.3
Population growth % change since previous year	0.2	0.7	-0.1	0.5	0.2
Urban population % of total	75	82	94	57	74
Area 1 000 km ²	4 471	9 629	378	9 597	17 075
Population density Persons/km ²	114	34	336	144	8
GDP (nominal) billion EUR	14 909	16 837	4 466	10 124	1 160
Real GDP growth %	2.0	1.5	1.0	6.7	-0.2
Relative GDP per capita in PPS (EU-28 = 100)	100	146	107	39	63
Exports of goods billion EUR	1 745	1 316	574	1 799	255
Imports of goods billion EUR	1 713	1 996	528	1 352	173

Notes: EU-28: area, population: including French overseas departments.
EU-28: trade: only extra-EU trade.

PART 2

TRANSPORT



PART 2

SUMMARY

2.1	GENERAL	19
2.2	PERFORMANCE OF FREIGHT TRANSPORT EXPRESSED IN TONNE-KILOMETRES	35
2.3	PERFORMANCE OF PASSENGER TRANSPORT EXPRESSED IN PASSENGER-KILOMETRES	47
2.4	PERFORMANCE OF FREIGHT AND PASSENGER TRANSPORT USING OTHER INDICATORS	56
2.5	INFRASTRUCTURE	79
2.6	MEANS OF TRANSPORT	87
2.7	SAFETY	105

Statistical Overview EU Transport 2.1.1

Gross Value Added:

With around EUR664 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 2016 ⁽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 2016, the transport and storage services sector (including postal and courier activities) in the EU-28 employed around 11.5 million persons ⁽²⁾, some 5.2 % 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 26 % in warehousing and supporting and transport activities (such as cargo handling, storage and warehousing) and the remaining 16 % in postal and courier activities.

Household expenditure:

In 2016, private households in the EU-28 spent EUR 1 047 billion or roughly 13 % of their total consumption on transport-related items.

Around 29 % of this sum (around EUR 306 billion) was used to purchase vehicles, around half (EUR 512 billion) was spent on the operation of personal transport equipment (e.g. to buy fuel for the car) and the rest (EUR 228 billion) was spent for transport services (e.g. bus, train, plane tickets).

Goods transport:

In 2016 total goods transport activities in the EU-28 are estimated to amount to 3 661 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 49.3 % of this total, rail for 11.2 %, inland waterways for 4 % and oil pipelines for 3.1 %. Intra-EU maritime transport was the second most important mode with a share of 32.3 % while intra-EU air transport only accounted for 0.1 % of the total.

Passenger transport:

In 2016, total passenger transport activities in the EU-28 by any motorized means of transport are estimated to amount to 6802 billion pkm or on average around 13 314 km per person. This figure includes intra-EU air and sea transport but not transport activities between the EU and the rest of the world. Passenger cars accounted for 71 % of this total, powered two-wheelers for 1.9 %, buses & coaches for 8.1 %, railways for 6.6 % and tram and metro for 1.6 %. Intra-EU air and intra-EU maritime transport contributed for 10.5 % 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⁾ 4.4 % of total employment if postal and courier activities are not included.

2.1.1 Statistical Overview EU Transport

Safety:

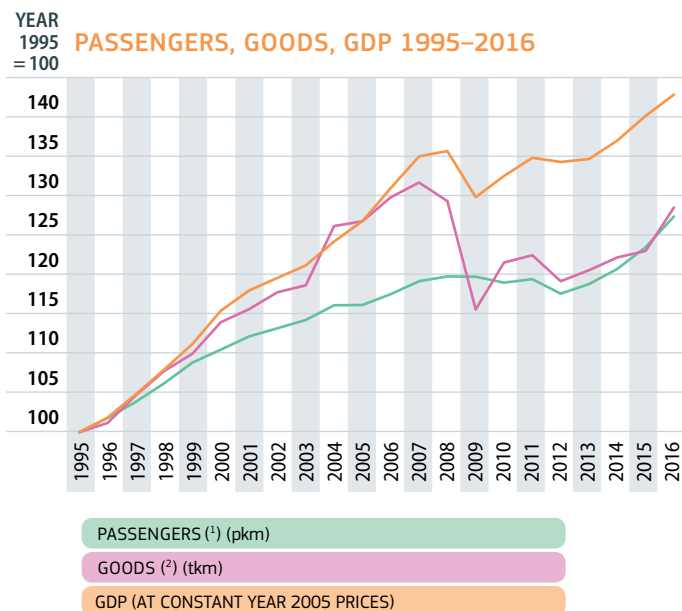
Road: 25 651 persons were killed in road accidents (fatalities within 30 days) in 2016, 1.8% less than in 2015 (when 26 130 people lost their lives). In comparison with 2001, the number of road fatalities was lower by more than half (-53.3 %).

Rail: 44 passengers lost their lives in 2016; this figure does not include casualties among railway employees or other people run over by trains.

Air: no lives were lost in 2017.

Transport Growth EU-28

2.1.2



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

	1995–2016 p.a.	2000–2016 p.a.	2015–2016
GDP at year 2005 prices and exchange rates	1.7 %	1.3 %	1.9 %
Passenger transport (pkm)	1.2 %	0.9 %	3.2 %
Freight transport (tkm)	1.2 %	0.8 %	4.5 %

2.1.3

Road Transport

SPEED LIMITS, BLOOD ALCOHOL LIMITS

	SPEED LIMIT, CARS (IN GENERAL), km/h:			Blood alcohol limit, grams of alcohol in 1 litre of blood
	Built-up areas	Outside built-up areas	Motorways	
BE	50	70-90-120	120	0.5
BG	50	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, inexperienced) and professional drivers.

Road Transport

MAXIMUM GROSS VEHICLE WEIGHT

2.1.4

tonnes	WEIGHT PER BEARING AXLE	WEIGHT PER DRIVE AXLE	LORRIES		ROAD TRAIN		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 (*) 2015 – in 1 000

	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	10841.3	3 065.2	2 056.4	496.4	26.0	44.5	181.3	367.8	2 777.7	1 826.1
BE	209.3	58.0	18.1	35.6	1.0	0.9	1.2	5.6	55.2	33.7
BG	161.7	63.1	31.6	10.9	0.2	0.8	0.6	1.9	32.9	19.7
CZ	271.4	121.1	38.0	27.2	0.2	0.5	0.2	2.2	42.3	39.9
DK	159.3	36.1	27.0	8.6	0.2	0.2	22.2	7.0	35.3	22.5
DE	2 229.6	427.1	423.3	47.7	3.2	10.1	17.0	64.7	693.0	543.5
EE	38.6	16.0	3.9	1.1	0.0	0.0	0.7	0.3	13.0	3.5
IE	94.6	22.8	24.7	4.7	0.1	0.1	0.6	8.1	16.1	17.4
EL	174.8	30.2	64.6	0.7	0.3	0.0	16.5	3.5	44.6	14.5
ES	837.6	313.1	174.0	14.6	0.5	0.4	6.6	28.7	217.1	82.7
FR	1 284.4	332.4	278.6	47.5	4.7	3.5	14.9	76.5	290.0	236.3
HR	84.4	22.1	19.8	4.1	0.7	0.1	4.1	1.2	21.5	11.0
IT	1 089.4	310.0	167.1	38.7	2.1	2.8	46.0	20.0	343.0	159.8
CY	16.9	1.9	3.2	0.0	0.0	0.0	0.3	0.1	10.0	1.4
LV	78.8	25.6	14.1	3.6	0.2	0.2	0.6	1.4	27.4	5.7
LT	113.3	57.4	15.0	10.3	0.0	0.1	1.3	0.6	20.4	8.1
LU	20.1	7.4	4.2	0.7	0.0	0.3	0.0	2.4	2.5	2.5
HU	240.2	70.9	49.5	19.5	0.1	0.8	0.0	1.0	63.4	35.0
MT	10.8	1.2	2.6	0.0	0.1	0.0	0.6	1.5	4.1	0.9
NL	398.1	115.0	59.8	13.4	0.1	13.3	10.2	25.4	89.3	71.5
AT	196.1	59.6	44.5	23.6	0.2	0.5	0.0	7.4	36.2	24.0
PL	751.8	327.9	134.7	49.8	3.8	1.6	2.1	4.3	137.0	90.6
PT	154.4	63.2	32.7	0.5	0.2	0.8	0.9	11.2	30.3	14.6
RO	349.0	133.0	76.3	27.0	6.4	2.0	0.3	3.6	62.6	37.6
SI	45.3	22.4	5.3	1.1	0.5	0.1	0.2	0.8	8.2	6.7
SK	110.6	44.5	14.5	13.0	0.2	0.5	0.0	0.3	21.1	16.5
FI	145.2	45.0	31.8	6.0	0.3	1.8	8.7	4.5	28.4	18.8
SE	267.6	78.3	69.9	8.9	0.0	1.6	12.1	5.7	50.9	40.2
UK	1 308.1	259.7	227.6	77.4	0.9	1.7	13.4	78.0	381.8	267.6

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 (*) 2015

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	1188633	571046	371672	928	212	9963	11464	4813	147852	70682
BE	17211	7991	3015	28	43	336	116	199	3063	2420
BG	21223	11979	5769	12	2	31	36	44	2182	1168
CZ	38159	30312	3186	30	2	91	2	45	4201	290
DK	10809	4827	2794	17	7	22	269	67	1409	1397
DE	101415	36921	28001	158	35	1105	1850	628	18984	13733
EE	5052	2977	507	6	0	4	41	16	1378	123
IE	25066	4557	15719	5	5	24	145	71	1683	2855
EL	63571	18254	35988	7	8	0	2516	100	5522	1176
ES	187397	101113	60674	16	5	60	337	120	18382	6690
FR	106298	34415	54415	42	39	1047	915	778	11198	3449
HR	8562	5478	1319	12	2	21	657	27	991	55
IT	123625	67159	29477	26	13	1016	684	220	22549	2481
CY	2995	815	1188	0	0	0	53	1	742	196
LV	7307	3426	1255	31	1	19	50	23	2164	339
LT	12312	5520	3891	3	0	16	11	13	2151	707
LU	962	442	208	1	0	28	0	14	210	59
HU	27039	13992	7930	30	4	104	6	85	3753	1135
MT	1271	323	570	0	3	0	91	16	244	24
NL	39318	11139	7145	34	10	4264	889	348	7448	8041
AT	14065	6577	5356	32	4	98	0	166	1411	421
PL	145993	83414	46117	167	6	611	292	441	11232	3713
PT	21638	7839	10758	5	1	39	219	70	2303	404
RO	41746	26205	11103	91	3	131	64	72	2737	1340
SI	8445	5508	1015	8	2	43	42	84	1260	483
SK	18039	8840	4945	11	4	30	4	46	3308	851
FI	21102	9634	8722	4	1	78	255	85	1971	352
SE	29336	14820	8736	56	0	475	768	311	3704	466
UK	88677	46569	11869	96	12	270	1152	723	11672	16314

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.

2.1.7 Turnover by Mode of Transport (*)

2015 – 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	1490902	334046	139807	74 113	18 032	7 865	114047	148200	532307	122486
BE	48 870	11 498	1 365	5 496	728	276	2 637	3 825	19 384	3 661
BG	6 634	3 422	443	138	170	42	30	385	1 675	330
CZ	20 983	8 005	1 382	1 515	170	40	0	961	7 703	1 208
DK	50 657	5 808	2 702	1 019	595	109	25 036	2 849	10 487	2 051
DE	298 517	41 194	30 810	11 626	3 801	2 461	30 098	23 151	116 820	38 555
EE	4 506	1 163	154	94	0	10	536	138	2 288	124
IE	19 309	2 620	2 241	720	425	11	732	6 775	4 193	1 593
EL	13 082	2 228	1 620	87	159	0	2 077	1 713	4 381	818
ES	104 293	31 208	10 202	2 499	825	21	1 734	9 883	43 451	4 471
FR	210 236	42 351	20 021	14 506	3 315	691	15 700	21 689	77 244	14 719
HR	4 276	1 373	637	101	40	2	308	364	1 233	218
IT	154 081	44 862	12 164	6 866	3 537	434	11 542	11 105	54 142	9 429
CY	2 433	134	139	0	0	0	31	4	2 065	61
LV	5 269	1 334	193	521	4	21	58	407	2 622	109
LT	7 901	3 424	267	436	0	3	167	209	3 259	137
LU	5 579	1 235	314	87	0	54	0	2 670	1 000	219
HU	16 422	4 989	1 682	777	340	72	5	1 615	6 081	861
MT	1 495	95	15	0	0	0	39	127	1 000	218
NL	80 861	19 946	3 904	2 739	260	2 658	6 615	11 182	28 095	5 464
AT	40 021	9 546	4 109	3 433	340	104	0	3 141	16 637	2 710
PL	47 361	24 826	3 907	2 539	938	94	371	1 672	10 738	2 277
PT	17 731	5 171	1 174	117	85	48	401	3 809	5 993	934
RO	15 299	7 722	1 183	940	442	106	81	578	3 503	745
SI	5 005	2 322	244	139	170	3	45	215	1 559	307
SK	8 865	3 582	723	593	340	63	0	77	2 893	594
FI	22 531	6 100	2 307	598	215	159	2 498	3 238	6 024	1 392
SE	47 404	10 569	8 143	1 828	0	202	3 708	2 992	16 489	3 475
UK	231 284	37 320	27 763	14 701	1 134	180	9 600	33 427	81 351	25 808

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 – 2016

	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	1 046 628	305 744	512 462	228 423	12.9	2 000
BE	22 591	6 668	13 725	2 199	11.0	2 000
BG	4 349	521	2 361	1 468	14.0	600
CZ	8 344	3 314	3 713	1 317	9.8	800
DK	15 206	4 877	8 587	1 743	11.8	2 700
DE	227 527	76 738	93 384	57 405	14.4	2 800
EE	1 261	251	731	279	11.3	1 000
IE	11 783	4 160	4 363	3 260	13.5	2 500
EL	17 293	3 651	6 496	7 146	13.5	1 600
ES	72 874	21 118	38 782	12 974	11.0	1 600
FR	155 402	40 550	86 791	28 061	13.1	2 300
HR	3 904	1 100	1 841	963	13.8	936
IT	125 698	30 518	75 091	20 089	12.2	2 100
CY	1 690	470	791	429	12.1	2 000
LV	1 780	314	1 056	410	11.7	900
LT	3 746	694	2 657	395	15.1	1 300
LU	2 784	923	1 721	140	15.4	4 800
HU	7 182	1 757	4 391	1 035	12.4	700
MT	680	167	361	152	12.0	1 500
NL	38 040	9 913	21 429	6 698	12.5	2 200
AT	22 108	6 186	11 540	4 382	11.9	2 500
PL	30 094	8 665	18 236	3 193	12.1	800
PT	15 977	6 046	7 878	2 053	12.7	1 500
RO	11 064	1 961	6 169	2 934	11.4	562
SI	3 637	920	2 466	252	15.9	1 800
SK	3 280	744	1 397	1 139	7.5	600
FI	13 371	3 753	7 259	2 359	11.9	2 400
SE	25 471	8 120	11 522	5 828	12.7	2 600
UK	199 491	61 645	77 725	60 121	13.4	3 000

Note: FR, CY, NL, PT: 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
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
2014	100.0	102.7	99.4	99.5	99.0
2013	99.5	102.8	98.8	98.9	98.2
2012	98.0	102.5	98.7	98.8	97.4
2011	95.5	98.8	98.4	98.6	97.0
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
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
2014	105.6	100.2	112.5	98.3	98.8
2013	106.6	100.0	116.3	96.3	97.5
2012	107.0	99.3	118.8	94.1	95.8
2011	102.0	97.1	111.0	91.8	94.2
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	TRANS- PORT 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 services
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
2014	98.4	98.9	98.3	98.5	96.8	97.8	99.7
2013	96.4	96.8	96.5	97.7	94.1	95.3	99.1
2012	93.3	94.1	94.3	93.9	94.0	92.1	98.6
2011	89.0	90.1	90.6	89.6	91.3	87.8	96.9
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 – 2016

VALUE (billion EUR)

PARTNER: EXTRA-EU-28						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	826.9	47.4 %	870.4	50.8 %	1 697.2	49.1 %
Road	315.4	18.1 %	255.4	14.9 %	570.8	16.5 %
Rail	21.1	1.2 %	20.6	1.2 %	41.8	1.2 %
Inland waterway	2.2	0.1 %	4.3	0.2 %	6.4	0.2 %
Pipeline	2.9	0.2 %	68.3	4.0 %	71.3	2.1 %
Air	503.1	28.8 %	419.3	24.5 %	922.4	26.7 %
Self propulsion	48.6	2.8 %	22.6	1.3 %	71.2	2.1 %
Post	0.9	0.1 %	1.6	0.1 %	2.5	0.1 %
Unknown	23.5	1.3 %	50.0	2.9 %	73.4	2.1 %
TOTAL	1 744.6	100.0 %	1 712.5	100.0 %	3 457.1	100.0 %

WEIGHT (million tonnes)

PARTNER: EXTRA-EU-28						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	541.4	80.8 %	1 241.8	73.3 %	1 783.2	75.5 %
Road	84.1	12.6 %	68.7	4.1 %	152.7	6.5 %
Rail	17.5	2.6 %	72.3	4.3 %	89.7	3.8 %
Inland waterway	6.2	0.9 %	13.9	0.8 %	20.1	0.8 %
Pipeline	3.1	0.5 %	280.6	16.6 %	283.6	12.0 %
Air	15.4	2.3 %	4.2	0.2 %	19.6	0.8 %
Self propulsion	0.4	0.1 %	1.5	0.1 %	1.9	0.1 %
Post	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Unknown	1.8	0.3 %	10.2	0.6 %	12.0	0.5 %
TOTAL	669.7	100.0 %	1 693.1	100.0 %	2 362.8	100.0 %

2.1.11 Environmental Taxes and Transport

AS % OF GDP – TRANSPORT FUEL TAXES (*)

	%								RANKING IN 2016
	2005	2010	2011	2012	2013	2014	2015	2016	
EU-28		1.4	1.3	1.3	1.3	1.3	1.3	1.3	
BE	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.2	20
BG		2.4	2.3	2.3	2.4	2.3	2.4	2.3	3
CZ	2.2	1.9	1.9	1.8	1.8	1.8	1.7	1.7	12
DK	1.2	1.0	1.0	0.9	0.9	0.9	0.9	0.9	27
DE	1.5	1.4	1.3	1.3	1.2	1.2	1.2	1.2	23
EE	1.8	2.1	2.1	2.0	1.9	1.9	2.1	2.2	4
IE	1.2	1.2	1.2	1.1	1.1	1.0	0.8	0.8	28
EL	1.1	1.7	1.8	1.9	1.8	1.9	1.8	1.9	8
ES	1.3	1.1	1.0	1.0	1.2	1.1	1.1	1.1	24
FR	1.3	1.2	1.2	1.1	1.1	1.1	1.2	1.2	19
HR	2.2	2.1	1.8	1.7	2.0	2.1	2.3	2.3	2
IT	1.5	1.4	1.4	1.6	1.6	1.6	1.6	1.5	15
CY	1.5	1.5	1.6	1.5	1.8	2.0	2.1	2.1	5
LV	2.1	2.0	1.8	1.7	1.7	1.7	1.8	1.9	7
LT	1.7	1.7	1.6	1.5	1.5	1.6	1.7	1.7	10
LU	2.8	2.2	2.2	2.2	2.0	1.8	1.6	1.6	14
HU	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.8	9
MT	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.2	22
NL	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	25
AT	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	21
PL	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	6
PT	1.9	1.7	1.6	1.6	1.5	1.5	1.6	1.7	11
RO		1.5	1.3	1.3	1.4	1.7	1.7	1.7	13
SI	2.1	2.5	2.4	2.8	2.7	2.6	2.6	2.6	1
SK	2.1	1.5	1.5	1.4	1.4	1.4	1.4	1.5	16
FI	1.4	1.3	1.2	1.3	1.3	1.3	1.2	1.3	18
SE	1.3	1.2	1.1	1.1	1.0	1.0	1.0	1.0	26
UK	1.5	1.6	1.5	1.5	1.4	1.4	1.3	1.3	17
AL									
ME									
MK									
RS									
TR									
IS									
NO	0.8	0.8	0.7	0.6	0.7	0.6	0.7	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.

Environmental Taxes and Transport 2.1.12

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

	%								RANKING IN 2016
	1995	2000	2005	2010	2013	2014	2015	2016	
EU-28			0.5	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	0.7	11
BG	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	18
CZ	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	25
DK	2.1	1.8	2.1	1.4	1.5	1.5	1.5	1.6	1
DE	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	19
EE	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	28
IE	1.3	1.4	1.2	0.9	0.9	0.9	0.7	0.7	8
EL	0.7	0.8	0.9	0.7	0.7	0.7	0.8	0.8	7
ES	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.2	22
FR	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	20
HR			1.1	0.8	0.8	0.9	0.8	0.8	6
IT	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	12
CY	2.3	2.0	1.4	0.9	0.6	0.7	0.7	0.7	9
LV	0.0	0.3	0.3	0.3	0.4	0.4	0.5	0.5	14
LT	0.7	0.7	0.5	0.0	0.1	0.1	0.1	0.1	27
LU	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	26
HU	0.2	0.4	0.5	0.5	0.4	0.4	0.4	0.4	17
MT	2.3	2.2	1.7	1.3	1.1	1.1	1.2	1.1	2
NL	1.3	1.4	1.2	1.1	0.9	1.0	1.0	1.0	3
AT	0.7	0.8	0.8	0.8	0.8	0.9	0.8	0.9	5
PL	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	23
PT	0.9	1.1	0.9	0.6	0.5	0.6	0.6	0.7	10
RO	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.2	21
SI	1.0	0.4	0.5	0.4	0.5	0.5	0.5	0.4	16
SK	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	24
FI	0.8	1.1	1.1	0.9	0.9	0.9	0.9	1.0	4
SE	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	15
UK	0.6	0.6	0.4	0.6	0.6	0.6	0.6	0.6	13
AL									
ME									
MK									
RS									
TR									
IS	1.1	1.7	1.6	0.2	0.3	0.3	0.4	0.4	
NO	1.4	1.2	1.4	1.2	1.1	1.0	1.0	1.0	
CH									

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

2.1.13 Environmental Taxes & Transport

(FUEL & OTHER TAXES)

AS % OF TOTAL TAXATION (*)

	%								RANKING IN 2016
	2005	2010	2011	2012	2013	2014	2015	2016	
EU-28		5.0	4.9	4.8	4.7	4.6	4.6	4.6	
BE	4.8	4.4	4.4	4.1	3.9	4.0	4.1	4.2	24
BG		10.1	10.0	9.4	9.3	9.0	9.4	9.0	1
CZ	6.8	6.3	6.0	5.7	5.5	5.6	5.4	5.4	16
DK	6.9	5.5	5.3	5.0	5.2	4.8	5.2	5.3	18
DE	5.2	4.6	4.5	4.3	4.1	4.0	3.9	3.8	26
EE	6.3	6.4	6.7	6.6	6.1	6.1	6.3	6.7	11
IE	7.8	7.6	7.2	6.9	7.0	6.7	6.4	6.3	12
EL	6.1	7.3	7.3	7.3	7.1	7.3	7.1	6.8	10
ES	4.8	4.3	4.2	4.0	4.3	4.1	4.1	4.1	25
FR	3.8	3.4	3.3	3.1	3.1	3.0	3.1	3.2	28
HR	8.9	8.2	7.4	6.9	7.6	8.1	8.3	8.3	2
IT	5.4	4.7	4.8	5.2	5.0	5.0	5.0	5.0	21
CY	9.2	7.7	7.6	7.0	7.6	8.1	8.2	8.2	4
LV	8.6	8.2	8.1	7.4	7.3	7.2	7.3	7.5	5
LT	7.4	6.3	6.0	5.8	6.0	6.1	6.0	6.1	13
LU	7.7	6.2	6.2	6.0	5.5	5.1	4.8	4.4	23
HU	6.3	6.2	6.1	5.6	5.4	5.3	5.3	5.4	15
MT	9.0	8.2	8.7	7.8	7.0	7.1	7.4	7.0	7
NL	6.8	6.3	6.3	5.9	5.6	5.5	5.6	5.3	17
AT	5.2	4.9	5.1	4.9	4.7	4.8	4.7	4.8	22
PL	6.7	6.7	6.6	6.6	6.6	6.7	6.8	6.9	9
PT	9.0	7.6	6.8	6.4	6.0	6.1	6.5	7.0	8
RO		6.8	5.5	5.7	6.1	7.1	7.0	7.5	6
SI	6.8	7.8	7.6	8.5	8.6	8.4	8.2	8.2	3
SK	7.2	6.1	6.0	5.7	5.4	5.2	5.1	5.1	19
FI	5.9	5.4	5.2	5.1	5.0	4.9	4.8	5.0	20
SE	3.6	3.8	3.6	3.5	3.5	3.3	3.3	3.3	27
UK	6.0	6.4	6.2	6.2	6.1	6.0	5.8	5.6	14
AL									
ME									
MK									
RS									
TR									
IS									
NO	5.2	4.6	4.4	4.3	4.3	4.2	4.2	4.2	
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	2016	2016	2015	2016	2016
Road network (paved)	5 000	4 426	998	4 227	1 054
Motorway network	76.8	97.9 ⁽¹⁾	9.0 ⁽²⁾	131.0	52.0 ⁽³⁾
Railway network	217.1	202.2 ⁽⁴⁾	19.2	124.0	85.4
Electrified rail lines	116.6		11.5	36.9	43.6
Navigable inland waterways	41.9	40.2		127.1	101.0
Oil pipelines	36.0	342.1		113.4 ⁽⁵⁾	54.0 ⁽⁶⁾

VEHICLE STOCK						
		EU-28	USA	JAPAN	CHINA	RUSSIA
		2016	2016	2016	2016	2016
Passenger cars stock	million	259.5	248 ⁽⁷⁾	61.3 ⁽⁸⁾	101.5	45.2
Motorisation	cars / 1 000 persons	507	766	482	74	313
Commercial freight vehicles	million	37.63	11.50	14.28 ⁽⁹⁾	21.72	6.30

TRANSPORT SAFETY						
		EU-28	USA	JAPAN	CHINA	RUSSIA
		2016	2016	2016	2015	2016
Road fatalities	number	25 651	37 461	4 698	58 022	20 308
	per million inhabitants	50	116	37	42	141

- 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.
⁽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	2016	2016	2015	2016	2016
Passenger car	4 829.3	6 315.4 ⁽¹⁾		1 022.9 ⁽²⁾	
Bus + trolley bus + coach	552.0	558.1	71.4		129.8
Railway	450.1	40.2	427.5	1 257.9	124.6
Tram + metro	105.6	23.5	⁽³⁾		48.7
Waterborne	25.0	0.8	2.9 ⁽⁴⁾	7.2	0.7
Air (domestic/intra-EU-28)	713.5	1 079.0	88.2	837.8	215.6

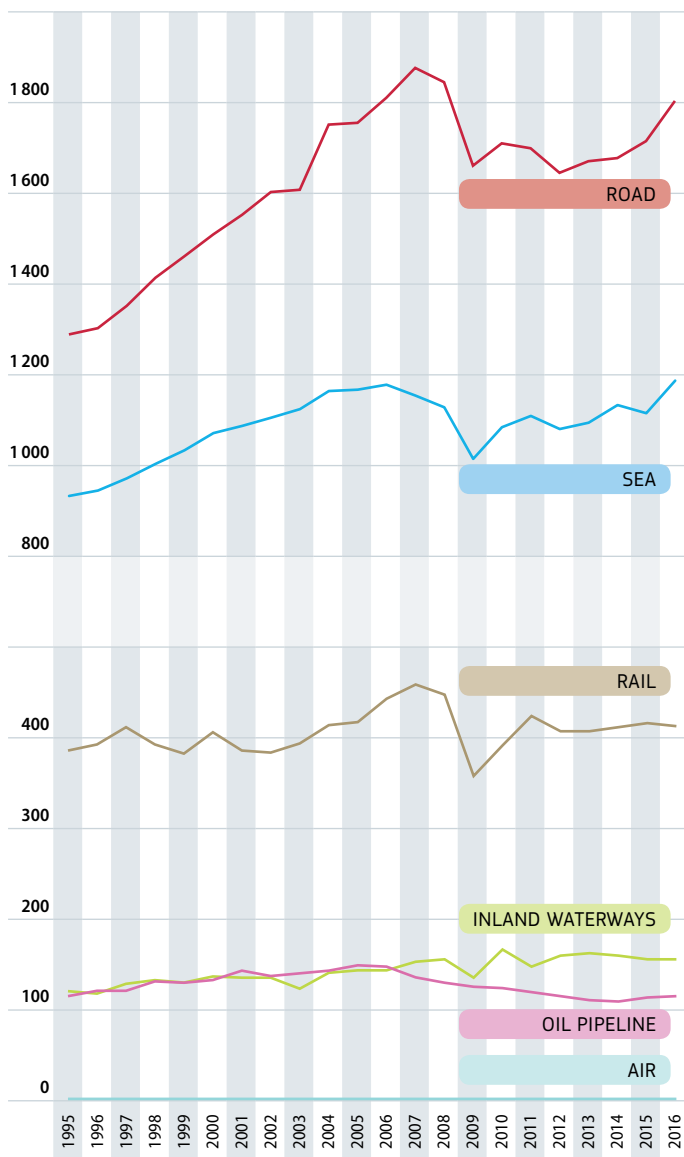
FREIGHT TRANSPORT					
	EU-28	USA	JAPAN	CHINA	RUSSIA
billion tkm	2016	2015	2015	2016	2016
Road	1 803.5	2 990.2	204.3	6 108.0	234.0
Rail	411.8	2 547.3 ⁽⁵⁾	21.5	2 375.2	2 344.0
Inland waterways	147.3	486.5			67.0
Oil pipeline	115.1	1 411.8		419.6 ⁽⁶⁾	1 308.0
Sea (domestic/intra-EU-28)	1 180.8	251.8 ⁽⁷⁾	180.4	9 733.9 ⁽⁸⁾	43.0

Notes: ⁽¹⁾ USA: including light trucks/vans.
⁽²⁾ China: including buses and coaches.
⁽³⁾ Japan: included in railway pkm.
⁽⁴⁾ Japan: 2014 value.
⁽⁵⁾ USA: Class I rail.
⁽⁶⁾ China: oil and gas pipelines.
⁽⁷⁾ USA: refers to coastal shipping, 2014 data.
⁽⁸⁾ China: both coastwise and inland waterway transport.

EU-28 Performance for Freight Transport 1995–2016 – 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	1 714	415	147	114	1 110	3	3 504
2016	1 804	412	147	115	1 181	3	3 661
1995–2016 per year	40.0 %	6.1 %	20.6 %	0.2 %	26.9 %	47.1 %	28.6 %
	1.6 %	0.3 %	0.9 %	0.0 %	1.1 %	1.9 %	1.2 %
2000–2016 per year	19.5 %	1.4 %	10.0 %	-9.4 %	10.7 %	20.1 %	12.8 %
	1.1 %	0.1 %	0.6 %	-0.6 %	0.6 %	1.2 %	0.8 %
2015–2016	5.2 %	-0.8 %	-0.1 %	0.7 %	6.4 %	1.8 %	4.5 %

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	48.9	11.9	4.2	3.3	31.7	0.1	
2016	49.3	11.2	4.0	3.1	32.3	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: only domestic and intra-EU-28 transport; estimates for air and for sea (1995–2004). 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 2016 – BY COUNTRY

tkm in %				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
EU-28	72.8	16.6	5.9	4.6
BE	71.9	10.6	15.1	2.4
BG	53.8	16.5	26.3	3.4
CZ	71.6	25.7	0.1	2.6
DK	81.7	10.2	-	8.0
DE	70.3	18.2	8.5	2.9
EE	57.1	42.9	-	-
IE	99.1	0.9	-	-
EL	97.6	1.3	-	1.1
ES	90.1	5.1	-	4.8
FR	83.2	10.5	2.7	3.7
HR	65.6	16.2	6.3	11.9
IT	80.1	13.8	0.0	6.1
CY	100.0	-	-	-
LV	21.8	71.4	-	6.8
LT	34.4	63.8	0.0	1.9
LU	87.9	6.2	5.9	-
HU	62.4	26.8	5.0	5.8
MT	100.0	-	-	-
NL	46.8	5.7	42.3	5.2
AT	57.7	28.4	2.6	11.3
PL	67.9	22.3	0.0	9.8
PT	83.8	14.2	-	2.0
RO	39.3	29.5	28.7	2.5
SI	66.7	33.3	-	-
SK	51.4	28.8	3.1	16.7
FI	72.9	26.8	0.3	-
SE	70.5	29.4	0.0	-
UK	87.2	8.0	0.1	4.7
AL				
ME				
MK				
RS				
TR				
IS				
NO	75.7	11.3	-	13.0
CH	62.2	37.3	0.1	0.3

2.2.4a

Road NATIONAL HAULAGE

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm							% OF TOTAL HAULAGE 2016	% CHANGE '15/'16
	1995	2000	2005	2010	2015	2016		
EU-28		<i>1 086.4</i>	<i>1 225.8</i>	<i>1 173.2</i>	<i>1 143.2</i>	<i>1 173.6</i>	64.1	2.7
BE	18.6	19.8	19.3	17.8	18.9	18.8	60.9	-0.7
BG		3.1	5.0	6.1	7.2	7.3	20.7	2.1
CZ		14.2	15.5	14.8	21.2	22.3	44.3	5.3
DK	9.3	11.0	11.1	10.6	12.5	13.0	81.0	4.0
DE	201.3	226.5	237.6	252.5	269.7	271.7	86.0	0.8
EE	0.4	0.7	1.8	1.4	1.5	1.8	26.7	17.6
IE	4.7	8.3	14.0	8.2	7.8	9.3	79.9	19.6
EL	20.0	23.0	19.6	25.3	15.0	15.2	61.9	1.1
ES	78.7	106.9	166.4	146.2	137.2	145.0	66.8	5.6
FR	135.3	163.2	177.3	164.3	141.2	144.2	92.5	2.1
HR		1.9	4.4	4.5	4.1	4.0	35.2	-1.7
IT	150.3	158.3	171.6	149.2	104.1	100.3	89.0	-3.7
CY		1.3	1.4	1.1	0.5	0.7	97.3	24.8
LV		1.5	2.7	2.6	2.8	2.8	19.7	2.0
LT		1.5	2.1	2.3	2.9	3.0	9.6	2.0
LU	0.5	0.4	0.5	0.6	1.1	1.2	12.8	8.1
HU		12.1	11.4	11.3	10.4	11.7	29.3	13.2
MT		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	50.1	5.9
AT	11.1	12.4	12.5	13.9	15.5	16.5	63.1	6.6
PL		48.0	60.9	82.2	104.7	106.6	36.7	1.9
PT	16.5	14.2	17.4	12.9	10.8	10.4	29.8	-3.8
RO		9.9	19.4	12.1	12.1	13.1	27.3	8.9
SI		1.9	2.4	2.3	2.1	2.1	11.4	3.1
SK		5.1	5.6	5.2	5.2	5.7	15.8	8.6
FI	21.8	27.7	27.8	25.2	21.4	24.6	91.6	14.7
SE	28.4	31.5	34.7	32.7	38.1	39.3	92.0	3.0
UK	146.7	150.3	151.2	137.8	142.9	148.7	95.9	4.1
AL								
ME								
MK					1.1	1.2	11.1	9.4
RS								
TR	112.5	161.6	166.8	190.4	244.3	253.1		3.6
IS	0.5	0.6	0.7	0.8	0.9	0.9		-6.0
NO		12.1	15.4	16.3	20.5	18.5	88.4	-9.6
CH	8.4	8.9	9.2	9.6	10.4	10.1	83.6	-2.2

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.

Road

2.2.4b

INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

billion tkm							% OF TOTAL HAULAGE 2016	% CHANGE '15/'16
	1995	2000	2005	2010	2015	2016		
EU-28		421.6	568.8	583.2	618.7	657.2	35.9	6.2
BE	27.0	31.3	24.6	17.2	12.8	12.1	39.1	-5.8
BG		3.3	9.3	13.3	25.1	28.1	79.3	11.8
CZ		23.1	27.9	37.1	37.5	28.0	55.7	-25.4
DK	13.1	13.0	12.2	4.4	3.0	3.1	19.0	3.0
DE	36.5	54.2	72.5	60.6	45.2	44.1	14.0	-2.4
EE	1.1	3.2	4.0	4.2	4.7	4.9	73.3	3.9
IE	0.8	3.9	3.9	2.7	2.1	2.3	20.1	9.1
EL	4.0	4.5	4.2	4.6	4.7	9.4	38.1	97.6
ES	22.9	41.8	66.8	63.9	72.2	72.0	33.2	-0.2
FR	42.9	40.8	28.0	17.9	12.3	11.6	7.5	-5.7
HR		1.0	4.9	4.2	6.4	7.4	64.8	15.1
IT	24.1	26.4	40.2	26.5	12.7	12.4	11.0	-2.8
CY		0.0	0.0	0.0	0.0	0.0	2.6	20.0
LV		3.3	5.7	8.0	11.9	11.4	80.3	-4.3
LT		6.2	13.8	17.1	23.6	28.0	90.4	18.8
LU	5.0	7.2	8.3	8.1	7.7	8.1	87.2	5.0
HU		7.0	13.8	22.4	28.0	28.3	70.7	1.0
MT		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	49.6	-8.2
AT	15.4	22.7	24.5	14.7	10.0	9.6	36.9	-3.4
PL		27.0	50.9	120.1	156.0	184.1	63.3	18.0
PT	15.5	12.6	25.2	22.5	21.0	24.5	70.2	16.4
RO		4.4	32.1	13.8	27.0	35.0	72.7	30.0
SI		3.4	8.7	13.6	15.8	16.6	88.6	4.6
SK		9.3	16.9	22.4	28.3	30.4	84.2	7.6
FI	2.7	4.3	4.0	4.4	3.1	2.3	8.4	-26.0
SE	3.2	4.2	3.9	3.5	3.4	3.4	8.0	0.5
UK	14.8	15.3	10.1	8.9	7.2	6.3	4.1	-12.6
AL								
ME								
MK					9.1	9.4	88.9	3.3
RS								
TR								
IS								
NO		3.0	2.9	3.4	2.7	2.4	11.5	-10.4
CH (†)	0.7	0.9	1.0	3.7	2.1	2.0	16.4	-4.0

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

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

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

2.2.4c

Road – NATIONAL & INTERNATIONAL HAULAGE (*)

HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm						%
	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28	1 288.7	1 509.5	1 794.6	1 756.4	1 761.9	1 831.0	3.9
BE	45.6	51.0	43.8	35.0	31.7	30.9	-2.7
BG	5.2	6.4	14.4	19.4	32.3	35.4	9.6
CZ	31.3	37.3	43.4	51.8	58.7	50.3	-14.3
DK	22.4	24.0	23.3	15.0	15.5	16.1	3.8
DE	237.8	280.7	310.1	313.1	314.8	315.8	0.3
EE	1.5	3.9	5.8	5.6	6.3	6.7	7.2
IE	5.5	12.3	17.9	10.9	9.9	11.6	17.3
EL	24.0	29.0	23.8	29.8	19.8	24.6	24.3
ES	101.6	148.7	233.2	210.1	209.4	217.0	3.6
FR	178.2	204.0	205.3	182.2	153.6	155.8	1.5
HR		2.9	9.3	8.8	10.4	11.3	8.6
IT	174.4	184.7	211.8	175.8	116.8	112.6	-3.6
CY	1.2	1.3	1.4	1.1	0.6	0.7	24.9
LV	1.8	4.8	8.4	10.6	14.7	14.2	-3.2
LT	5.2	7.8	15.9	19.4	26.5	31.0	16.9
LU	5.5	7.6	8.8	8.7	8.9	9.3	5.4
HU	13.8	19.1	25.2	33.7	38.4	40.0	4.3
MT	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	-1.4
AT	26.5	35.1	37.0	28.7	25.5	26.1	2.7
PL	51.2	75.0	111.8	202.3	260.7	290.7	11.5
PT	32.0	26.8	42.6	35.4	31.8	34.9	9.6
RO	19.7	14.3	51.5	25.9	39.0	48.2	23.5
SI	3.3	5.3	11.0	15.9	17.9	18.7	4.5
SK	15.9	14.3	22.6	27.6	33.5	36.1	7.7
FI	24.5	32.0	31.9	29.5	24.5	26.8	9.6
SE ⁽¹⁾	31.6	35.6	38.6	36.3	41.5	42.7	2.8
UK	161.5	165.6	161.3	146.7	150.1	155.0	3.3
AL	2.1	2.2	3.2	4.6	3.4	3.5	1.8
ME			0.1	0.2	0.1	0.1	-13.7
MK			5.6	4.2	10.2	10.6	3.9
RS		0.6	0.7	1.7	3.0	4.3	44.6
TR ⁽²⁾	112.5	161.6	166.8	190.4	244.3	253.1	3.6
IS ⁽²⁾	0.5	0.6	0.7	0.8	0.9	0.9	-6.0
NO	9.7	15.1	18.2	19.8	23.1	20.9	-9.5
CH ⁽³⁾	9.1	9.8	10.2	13.2	12.4	12.1	-2.5

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

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

⁽¹⁾ SE: break in series in 2014 due to a methodological change on the vehicles not in use.

⁽²⁾ TR, IS: national transport only.

⁽³⁾ 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	2013	2014	2015	2016	CHANGE '15/'16
EU-28	1 755.5	1 709.8	1 670.7	1 676.9	1 714.3	1 803.5	5.2
BE	46.8	45.6	47.6	47.9	47.0	49.2	4.8
BG	11.0	8.9	11.0	10.3	11.2	11.2	0.5
CZ	32.3	32.0	35.4	37.0	42.5	43.4	2.1
DK	16.8	17.2	19.3	19.5	18.8	20.6	9.7
DE	370.8	404.9	416.7	426.9	427.5	447.7	4.7
EE	2.7	2.2	2.7	2.6	2.8	3.1	9.9
IE	15.6	9.7	8.6	9.0	9.2	10.6	15.4
EL	21.9	27.6	17.1	17.5	17.6	18.7	5.9
ES	210.7	184.4	166.1	167.1	177.9	186.7	5.0
FR	294.5	275.1	263.7	259.8	249.4	258.1	3.5
HR	10.5	7.9	7.7	7.6	8.2	8.7	6.7
IT	204.0	183.6	141.8	133.0	133.5	132.0	-1.1
CY	1.4	1.1	0.6	0.5	0.5	0.7	24.8
LV	3.7	3.7	4.5	4.5	4.8	4.9	1.2
LT	4.4	5.0	6.7	6.7	7.3	7.4	2.1
LU	1.9	2.1	2.5	2.9	2.6	2.8	10.3
HU	22.2	21.3	20.1	20.7	22.1	24.5	10.9
MT							
NL	49.7	49.2	51.0	51.5	50.8	54.7	7.6
AT	32.4	37.9	38.6	39.7	41.0	43.4	6.0
PL	86.8	116.2	141.5	138.5	147.3	154.2	4.7
PT	23.9	18.9	15.8	16.6	16.3	16.4	0.4
RO	32.5	15.6	17.0	16.5	16.5	18.0	9.5
SI	7.3	7.3	7.1	7.3	7.7	8.7	12.6
SK	10.5	11.8	12.3	13.0	13.9	15.0	8.0
FI	28.8	26.5	21.9	21.5	22.8	25.7	12.9
SE	45.1	42.4	41.2	48.8	49.3	51.3	4.0
UK	167.3	151.5	152.2	149.6	165.9	185.6	11.9
AL							
ME							
MK							
RS							
TR							
IS							
NO	17.1	19.1	22.0	22.2	23.7	22.2	-6.2
CH	23.0	21.6	20.8	21.7	20.3	20.7	2.1

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). 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								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28	526.3	388.1	406.0	416.0	393.5	415.2	411.8	-0.8
BE	8.4	7.3	7.7	8.1	7.5	7.3	7.3	0.0
BG	14.1	8.6	5.5	5.2	3.1	3.7	3.4	-5.9
CZ		22.6	17.5	14.9	13.8	15.3	15.6	2.3
DK	1.7	2.0	2.0	2.0	2.2	2.6	2.6	-1.1
DE	101.7	70.5	82.7	95.4	107.3	116.6	116.2	-0.4
EE	7.0	3.8	8.1	10.6	6.6	3.1	2.3	-24.9
IE	0.6	0.6	0.5	0.3	0.1	0.1	0.1	5.2
EL	0.6	0.3	0.4	0.6	0.6	0.3	0.3	-13.6
ES	11.2	11.0	12.2	11.6	8.9	11.0	10.5	-4.3
FR	52.2	48.3	57.7	40.7	30.0	34.3	32.6	-4.9
HR		2.0	1.8	2.8	2.6	2.2	2.2	-1.1
IT	19.4	21.7	22.8	22.8	18.6	20.8	22.7	9.3
CY	-	-	-	-	-	-	-	-
LV	18.5	9.8	13.3	19.8	17.2	18.9	15.9	-16.0
LT	19.3	7.2	8.9	12.5	13.4	14.0	13.8	-1.8
LU	0.6	0.5	0.6	0.4	0.3	0.2	0.2	-2.9
HU	16.8	8.4	8.8	9.1	8.8	10.0	10.5	5.2
MT	-	-	-	-	-	-	-	-
NL	3.1	3.1	4.5	5.9	5.9	6.5	6.6	1.5
AT	12.2	13.2	16.6	19.0	19.8	20.3	21.4	5.4
PL	81.6	68.2	54.0	50.0	48.7	50.6	50.7	0.1
PT	1.5	2.0	2.2	2.4	2.3	2.7	2.8	3.2
RO	48.9	17.9	16.4	16.6	12.4	13.7	13.5	-1.0
SI	4.2	3.1	2.9	3.2	3.4	4.2	4.4	4.4
SK		13.8	11.2	9.5	8.1	8.4	8.4	-0.8
FI	8.4	9.6	10.1	9.7	9.8	8.5	9.5	11.7
SE	19.1	19.4	19.5	21.7	23.5	20.7	21.4	3.4
UK	16.0	13.3	18.1	21.4	18.6	19.3	17.1	-11.8
AL	0.6	0.1	0.0	0.0	0.1	0.0	0.0	-60.9
ME					0.2	0.1	0.1	0.4
MK			0.5	0.5	0.5	0.3	0.2	-20.1
RS					3.5	3.2	3.1	-5.0
TR	7.9	8.5	9.8	9.1	11.3	10.2	11.4	12.2
IS	-	-	-	-	-	-	-	-
NO	2.6	2.7	3.0	3.2	3.5	3.5	3.3	-5.3
CH	9.0	8.9	11.1	11.7	11.1	12.4	12.4	0.1

Notes: DE: includes DE-E: 1990=39.8.

CS: 1990: 59.4, 1991: 45.8, 1992: 44.0 (these are included in EU-28).

Inland Waterways

2.2.6

billion tkm								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28	118.8	122.1	133.9	138.8	155.5	147.5	147.3	-0.1
BE	5.4	5.7	7.2	8.6	9.1	10.4	10.3	-0.9
BG	1.6	0.5	0.3	0.8	6.0	5.6	5.5	-2.1
CZ		0.3	0.1	0.1	0.0	0.0	0.0	9.1
DK	-	-	-	-	-	-	-	-
DE	54.8	64.0	66.5	64.1	62.3	55.3	54.3	-1.7
EE	0.0	0.0	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	7.6	6.6	9.1	8.9	9.5	8.5	8.3	-2.5
HR	0.5	0.0	0.1	0.1	0.9	0.9	0.8	-4.9
IT	0.1	0.1	0.2	0.1	0.1	0.1	0.1	8.1
CY	-	-	-	-	-	-	-	-
LV	-	-	-	-	-	-	-	-
LT	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-
LU	0.4	0.3	0.4	0.3	0.4	0.2	0.2	-19.1
HU	2.0	1.2	0.9	2.1	2.4	1.8	2.0	8.3
MT	-	-	-	-	-	-	-	-
NL	35.7	35.5	41.3	42.2	46.6	48.5	49.4	1.8
AT	1.7	2.0	2.4	1.8	2.4	1.8	2.0	8.6
PL	1.0	0.9	1.2	0.3	0.1	0.1	0.1	22.7
PT	-	-	-	-	-	-	-	-
RO	2.1	3.1	2.6	8.4	14.3	13.2	13.2	-0.1
SI	-	-	-	-	-	-	-	-
SK		1.5	1.4	0.7	1.2	0.7	0.9	21.9
FI	1.1	0.1	0.1	0.1	0.1	0.1	0.1	-19.5
SE	-	-	-	-	-	-	0.0	-
UK	0.3	0.2	0.2	0.2	0.2	0.1	0.1	-10.0
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-
RS	3.2	0.3	1.0	1.6	0.9	0.9	0.9	7.8
TR	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	0.2	0.0	0.1	0.0	0.0	0.0	0.0	-36.2

Notes: FI: only shipborne transport (i.e. no floating).

CS: 1990: 4.42, 1991: 3.89, 1992: 2.98 (these are included in EU-28 totals).

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								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28		114.9	127.1	137.6	121.1	114.3	115.1	0.7
BE	1.0	1.4	1.6	1.5	1.5	1.6	1.6	0.0
BG	0.6	0.4	0.4	0.4	0.4	0.7	0.7	7.4
CZ		2.3	1.6	2.3	2.2	2.0	1.6	-21.5
DK	2.0	3.1	4.7	5.1	3.5	2.3	2.0	-10.3
DE	13.3	14.8	15.0	16.7	16.3	17.7	18.8	5.9
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	0.2	0.2	0.2	0.2	-1.2
ES	4.2	5.9	7.5	9.2	8.2	10.1	10.0	-1.2
FR	19.6	22.3	21.7	20.9	17.6	11.4	11.4	-0.6
HR	3.6		0.4	1.5	1.3	1.4	1.6	13.9
IT	9.2	9.7	10.3	11.4	10.4	9.2	10.0	8.3
CY	-	-	-	-	-	-	-	-
LV		5.3	6.5	3.4	2.4	2.0	1.5	-23.3
LT		2.0	3.5	4.4	0.6	0.5	0.4	-18.1
LU	-	-	-	-	-	-	-	-
HU	5.3	2.2	2.3	2.7	3.2	2.5	2.3	-7.5
MT	-	-	-	-	-	-	-	-
NL	4.9	5.3	5.9	5.9	5.6	6.0	6.0	0.0
AT	6.4	6.8	7.6	7.8	7.0	8.5	8.5	0.0
PL	13.9	13.5	20.4	25.4	24.2	21.8	22.2	1.7
PT		-	0.5	0.5	0.4	0.4	0.4	0.2
RO	5.1	2.9	1.4	2.2	1.0	1.0	1.1	9.9
SI	-	-	-	-	-	-	-	-
SK		6.1	4.6	5.3	5.0	5.0	4.9	-2.0
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
UK	11.1	11.1	11.4	10.8	10.2	10.0	10.0	0.1
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK	-	-	-	0.1	0.1	0.0	0.0	66.7
RS	-	-	-	-	0.4	0.4	0.4	10.4
TR		3.2	53.1	5.7	39.6	52.5	52.7	0.3
IS	-	-	-	-	-	-	-	-
NO	2.1	5.3	3.5	4.6	3.5	3.4	3.8	12.9
CH	1.2	1.2	0.2	0.2	0.2	0.1	0.1	-3.5

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.

CS: 1990: 7.5.

DE: from 1995 onwards: only crude oil (i.e. no refined petroleum products).

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	2 802.4	2 500.3	461.9	1 366.5	7 131.1
2013	2 878.9	2 541.4	438.3	1 305.2	7 163.7
2014	2 941.8	2 702.7	483.0	1 305.2	7 432.7
2015	2 990.2	2 547.3	486.5	1 411.8	7 435.7

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	-27.4	-1.0	-0.6	-8.1	-14.4
2013	2.7	1.6	-5.1	-4.5	0.5
2014	2.2	6.4	10.2	0.0	3.8
2015	1.6	-5.8	0.7	8.2	0.0
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
2011–2015	-6.2	0.2	1.2	-1.3	-2.8

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.

2.2.8

USA

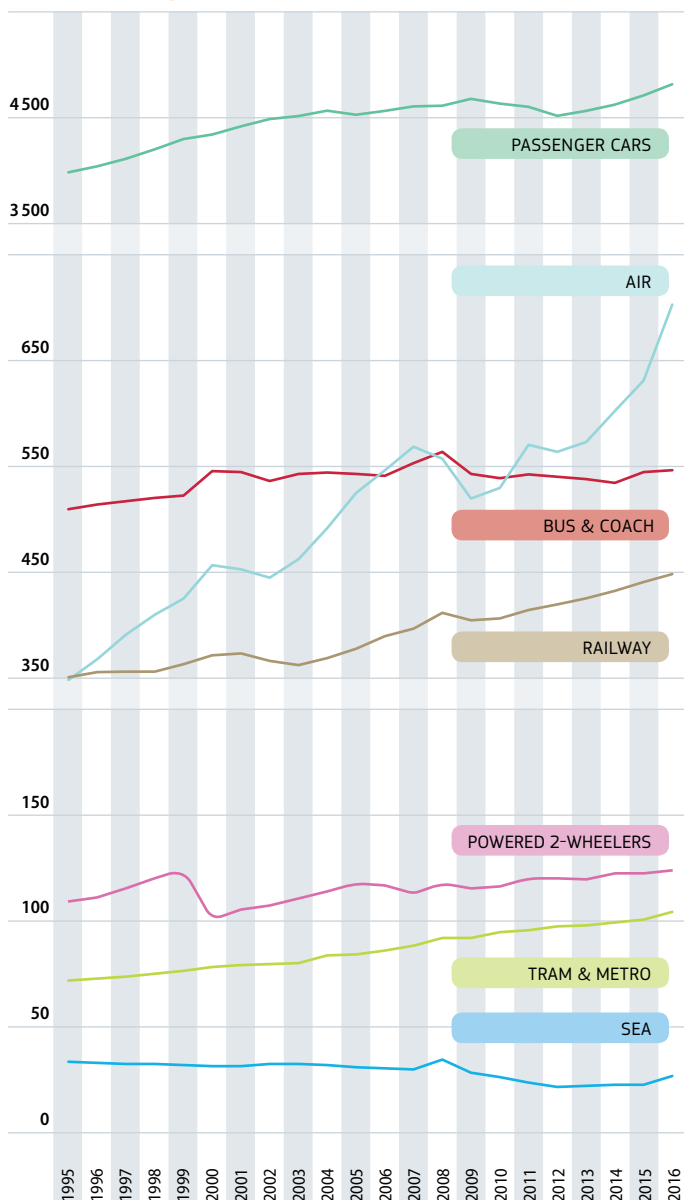
MODAL SPLIT – FREIGHT TRANSPORT

	%			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
1990	41.0	25.5	8.5	25.0
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	39.3	35.1	6.5	19.2
2013	40.2	35.5	6.1	18.2
2014	39.6	36.4	6.5	17.6
2015	40.2	34.3	6.5	19.0

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.

EU-28 Performance for Passenger Transport 1995-2016 – BY MODE

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	350	74	348	31	5 335
2000	4 301	105	551	372	80	460	29	5 897
2005	4 508	121	549	378	86	530	29	6 201
2006	4 549	120	546	390	88	552	28	6 274
2007	4 597	116	559	397	90	575	28	6 362
2008	4 602	121	570	413	94	563	32	6 394
2009	4 675	118	548	405	93	524	27	6 392
2010	4 626	119	544	407	96	535	25	6 352
2011	4 593	123	548	416	97	577	22	6 376
2012	4 498	123	546	421	99	570	21	6 278
2013	4 549	122	544	427	99	580	21	6 342
2014	4 615	125	540	434	101	610	22	6 446
2015	4 712	125	550	443	102	640	22	6 593
2016	4 829	126	552	450	106	713	25	6 802
'95/'16	23.7%	12.2%	7.2%	28.5%	43.3%	105.1%	-18.8%	27.5%
/year	1.0%	0.5%	0.3%	1.2%	1.7%	3.5%	-1.0%	1.2%
'00/'16	12.3%	20.7%	0.1%	21.1%	31.9%	55.3%	-13.6%	15.3%
/year	0.7%	1.2%	0.0%	1.2%	1.7%	2.8%	-0.9%	0.9%
'15/'16	2.5%	1.0%	0.3%	1.7%	3.4%	11.6%	15.6%	3.2%

MODAL SPLIT

	%						
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA
1995	73.2	2.1	9.6	6.6	1.4	6.5	0.6
2000	72.9	1.8	9.3	6.3	1.4	7.8	0.5
2005	72.7	1.9	8.8	6.1	1.4	8.5	0.5
2006	72.5	1.9	8.7	6.2	1.4	8.8	0.4
2007	72.2	1.8	8.8	6.2	1.4	9.0	0.4
2008	72.0	1.9	8.9	6.5	1.5	8.8	0.5
2009	73.1	1.9	8.6	6.3	1.5	8.2	0.4
2010	72.8	1.9	8.6	6.4	1.5	8.4	0.4
2011	72.0	1.9	8.6	6.5	1.5	9.0	0.4
2012	71.7	2.0	8.7	6.7	1.6	9.1	0.3
2013	71.7	1.9	8.6	6.7	1.6	9.1	0.3
2014	71.6	1.9	8.4	6.7	1.6	9.5	0.3
2015	71.5	1.9	8.3	6.7	1.5	9.7	0.3
2016	71.0	1.9	8.1	6.6	1.6	10.5	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 2016 – BY COUNTRY

pkm as %				
	PASSENGER CARS	BUSES & COACHES	RAILWAYS	TRAM & METRO
EU-28	81.3	9.3	7.6	1.8
BE	81.0	10.4	7.7	1.0
BG	79.6	17.2	2.0	1.1
CZ	66.5	15.4	8.0	10.1
DK	81.1	9.7	8.7	0.4
DE	84.3	5.7	8.5	1.5
EE	79.5	17.7	2.0	0.8
IE	79.6	17.2	2.9	0.3
EL	80.8	16.9	1.0	1.3
ES	80.1	11.6	6.5	1.8
FR	80.0	8.7	9.5	1.8
HR	83.3	12.1	2.6	1.9
IT	81.3	11.9	6.0	0.8
CY	81.4	18.6	-	-
LV	82.8	13.0	3.5	0.7
LT	89.9	9.1	1.0	-
LU	83.1	12.3	4.6	-
HU	66.5	20.9	9.0	3.6
MT	82.6	17.4	-	-
NL	85.5	3.0	10.9	0.6
AT	72.6	9.6	11.4	6.5
PL	77.2	13.9	7.3	1.6
PT	88.2	6.6	4.2	1.0
RO	75.0	14.7	3.9	6.4
SI	86.3	11.8	2.0	-
SK	74.2	15.7	9.3	0.8
FI	81.8	11.9	5.6	0.8
SE	81.9	7.0	9.2	1.9
UK	85.0	4.6	8.7	1.7
AL	88.2	11.8	0.0	-
ME	95.8	2.4	1.8	-
MK	85.9	13.1	1.0	-
RS	74.9	22.7	1.1	1.2
TR				
IS	88.6	11.4	-	-
NO	87.9	5.9	5.0	1.2
CH	77.0	5.0	17.0	1.0

Note: If powered two-wheelers are included, they account for 2.08 % of the total in EU-28, while the share of the other modes becomes:

EU-28	79.6	9.1	7.4	1.7
--------------	-------------	------------	------------	------------

2.3.4

Passenger Cars

billion pkm								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28		3 904.4	4 300.9	4 508.3	4 625.6	4 711.9	4 829.3	2.5
BE	89.5	96.4	102.5	102.8	109.4	107.0	106.1	-0.8
BG		25.0	26.9	35.1	46.9	56.8	56.6	-0.4
CZ		54.5	63.9	68.6	63.6	69.7	72.3	3.7
DK	47.2	48.4	50.6	49.8	51.7	57.0	59.1	3.6
DE	683.1	815.3	831.3	856.9	887.0	926.9	946.8	2.1
EE		5.1	6.7	9.9	10.1	12.3	12.8	4.1
IE	28.5	31.6	34.6	44.4	48.1	51.9	55.0	6.0
EL	35.0	44.0	63.0	85.0	99.6	98.3	99.9	1.7
ES	174.4	250.4	302.6	337.8	341.6	317.6	329.9	3.9
FR	592.5	641.2	687.7	704.6	695.9	722.9	742.5	2.7
HR		12.5	20.0	24.0	25.7	26.4	26.2	-0.8
IT	522.6	614.7	713.9	677.0	698.4	676.4	704.5	4.2
CY		3.4	3.9	4.8	5.9	6.2	6.5	4.4
LV		7.5	11.5	12.1	12.3	13.5	13.9	2.6
LT		16.0	26.0	34.8	32.6	24.9	25.9	4.0
LU	4.0	4.7	5.6	6.3	6.5	7.3	7.5	2.8
HU	47.0	45.4	46.2	49.4	52.6	54.6	56.7	3.8
MT		1.7	1.8	2.0	2.2	2.5	2.6	3.6
NL	137.3	131.4	141.1	148.8	144.2	139.5	140.8	0.9
AT	55.7	62.2	66.7	70.6	73.5	78.3	80.4	2.7
PL		110.7	130.1	152.3	188.8	200.6	203.8	1.6
PT	40.0	52.5	71.0	85.0	83.7	84.5	90.5	7.1
RO		40.0	51.0	61.0	75.5	89.9	95.6	6.4
SI	13.3	16.3	20.3	22.5	25.6	26.0	26.5	1.9
SK		18.0	23.9	25.8	26.9	27.5	27.8	1.1
FI	51.2	50.0	55.7	61.9	64.7	66.3	57.0	-14.0
SE	85.9	87.6	103.7	108.0	108.0	111.9	114.5	2.3
UK	588.0	617.9	638.6	667.1	644.7	655.2	667.5	1.9
AL		4.8	5.1	6.6	5.5	9.1	9.9	8.2
ME					4.1	4.1	4.5	10.1
MK			4.8	4.0	4.7	7.0	7.2	2.9
RS					30.6	28.6	29.5	3.1
TR	34.3	52.7	79.0	100.0	137.9	199.9	213.9	7.0
IS		3.0	3.8	4.6	5.0	5.6	6.5	16.0
NO	43.5	44.7	51.2	54.0	58.8	64.7	65.0	0.4
CH	73.3	69.6	75.0	77.8	85.9	92.0	94.0	2.1

Notes: Data is not harmonised and therefore not fully comparable. 2016 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. CH: includes activity of foreign vehicles in the country. TR: excludes urban traffic. DK: figures exclude activity of vans with a mass higher than 2000 kg. PL: estimated activity.

Buses & Coaches

2.3.5

billion pkm								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28		514.7	551.2	548.5	544.4	550.3	552.0	0.3
BE	11.4	13.1	13.3	17.5	17.4	14.4	13.6	-5.5
BG	26.0	11.6	14.6	13.7	10.6	12.5	12.2	-2.4
CZ		18.6	16.2	15.6	17.0	16.3	16.7	2.8
DK	6.4	7.3	7.4	7.2	6.8	6.9	7.1	3.3
DE	73.1	68.5	69.0	67.1	61.8	65.1	64.0	-1.7
EE	4.5	2.0	2.6	2.7	2.1	3.1	2.9	-9.0
IE	3.9	5.2	7.0	7.9	8.5	10.8	11.9	10.4
EL	17.7	20.2	21.7	21.7	21.1	21.1	20.9	-1.2
ES	33.4	39.6	50.3	53.2	50.9	46.4	47.8	3.0
FR	52.3	53.2	55.8	56.5	68.7	78.7	81.1	3.0
HR	7.0	4.1	3.3	3.4	3.2	3.4	3.8	12.6
IT	84.0	87.1	93.4	101.0	102.2	102.6	103.0	0.4
CY		1.0	1.1	1.3	1.3	1.4	1.5	3.8
LV	5.9	1.8	2.3	2.9	2.3	2.2	2.2	-2.0
LT	7.9	4.2	2.8	3.7	2.7	2.7	2.6	-4.2
LU	0.5	0.5	0.6	0.8	0.9	1.1	1.1	1.6
HU	19.3	16.6	18.7	17.8	16.5	17.8	17.8	0.0
MT		0.4	0.5	0.5	0.5	0.5	0.5	1.1
NL	13.0	12.0	4.6	4.8	4.8	4.9	5.0	1.9
AT	8.2	9.0	9.5	9.7	10.0	10.3	10.6	3.0
PL	46.3	34.0	59.2	49.2	41.7	37.6	36.8	-2.1
PT	10.3	11.3	11.8	6.4	6.1	5.8	6.8	15.5
RO	24.0	12.3	7.7	11.8	15.8	17.5	18.7	7.3
SI	6.5	4.1	3.5	3.1	3.2	3.6	3.6	0.9
SK		14.4	9.3	8.5	5.3	5.4	5.9	9.7
FI	8.5	8.0	7.7	7.5	7.5	7.5	8.3	9.5
SE	9.7	9.7	9.2	9.3	9.4	9.8	9.8	0.2
UK	47.1	44.8	48.0	44.0	46.2	40.9	35.9	-12.2
AL	2.2	0.2	0.2	0.3	2.4	1.2	1.3	8.7
ME					0.1	0.1	0.1	3.8
MK		0.9	0.9	1.1	1.4	1.2	1.1	-11.8
RS					9.4	9.4	9.0	-4.8
TR		85.7	87.4	95.0	89.1	90.8	87.0	-4.2
IS		0.4	0.5	0.6	0.6	0.7	0.8	16.0
NO	3.9	3.8	4.1	4.3	4.5	4.1	4.3	5.9
CH	3.3	5.5	4.8	5.3	5.5	6.0	6.1	2.0

Notes: Data is not harmonised and therefore not fully comparable. 2016 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 (included in EU-28 totals). ES: break in series between 2013 and 2014 due to a change in methodology. The two years are not comparable. 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. 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.

2.3.6

Tram & Metro

billion pkm								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28		73.7	80.1	86.1	96.1	102.1	105.6	3.4
BE	0.7	0.8	0.9	0.9	1.1	1.2	1.3	2.0
BG	0.6	0.3	0.4	0.4	0.9	0.7	0.8	10.1
CZ		7.7	8.1	7.9	9.0	9.8	10.9	11.2
DK	-	-	-	0.2	0.2	0.3	0.3	6.3
DE	15.1	14.4	14.6	15.5	16.3	16.7	17.1	2.4
EE		0.1	0.1	0.1	0.2	0.2	0.1	-22.8
IE	-	-	-	0.1	0.1	0.2	0.2	2.2
EL	0.8	0.7	1.2	1.5	1.7	1.7	1.7	-1.2
ES	4.4	4.3	5.2	6.0	7.6	7.2	7.5	3.9
FR	10.5	9.3	11.6	13.6	15.0	16.2	16.3	1.1
HR		0.5	0.5	0.5	0.5	0.6	0.6	1.8
IT	4.2	5.2	5.6	6.0	7.1	6.8	6.8	-0.6
CY	-	-	-	-	-	-	-	-
LV	0.7	0.3	0.3	0.3	0.1	0.1	0.1	-5.7
LT	-	-	-	-	-	-	-	-
LU	-	-	-	-	-	-	-	-
HU		2.5	2.6	2.4	2.5	2.9	3.1	3.9
MT	-	-	-	-	-	-	-	-
NL	1.3	1.4	0.7	0.7	0.9	0.9	0.9	1.0
AT	4.2	5.1	6.0	6.4	6.9	7.2	7.2	0.0
PL		5.0	4.7	4.4	4.3	4.2	4.3	2.8
PT	0.7	0.5	0.5	0.8	1.1	1.0	1.1	5.2
RO		6.0	6.0	6.6	7.1	7.6	8.2	7.3
SI	-	-	-	-	-	-	-	-
SK		0.4	0.4	0.4	0.3	0.3	0.3	20.1
FI	0.4	0.4	0.5	0.5	0.5	0.5	0.5	2.2
SE	2.0	1.9	2.0	2.0	2.3	2.5	2.6	4.3
UK	6.5	6.8	8.3	8.7	10.2	13.2	13.7	3.5
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-
RS					0.4	0.4	0.5	14.5
TR								
IS	-	-	-	-	-	-	-	-
NO	0.4	0.4	0.5	0.5	0.6	0.8	0.9	9.1
CH		1.5	1.4	0.8	1.0	1.2	1.2	1.9

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

Data for 2016 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 (*) 2016	% CHANGE '15/'16
	1990	1995	2000	2005	2010	2015	2016		
EU-28	405.4	350.3	371.5	378.1	407.3	442.7	450.1	64.2	1.7
BE	6.5	6.8	7.7	8.5	10.6	10.3	10.0		-3.0
BG	7.8	4.7	3.5	2.4	2.1	1.5	1.5	92.2	-6.1
CZ	13.3	8.0	7.3	6.7	6.6	8.1	8.7	95.0	7.5
DK	5.1	4.9	5.5	6.0	6.3	6.5	6.3	100.0	-2.7
DE	61.0	71.0	75.4	76.8	83.9	91.7	95.8	58.5	4.5
EE	1.5	0.4	0.3	0.2	0.2	0.3	0.3	94.0	10.5
IE	1.2	1.3	1.4	1.8	1.7	1.9	2.0	95.3	3.8
EL	2.0	1.6	1.9	1.9	1.4	1.3	1.2	97.3	-5.6
ES	16.7	16.6	20.1	21.6	22.5	26.1	26.7	43.0	2.0
FR	63.7	54.2	69.4	76.0	85.6	89.1	87.8	38.0	-1.5
HR	3.4	1.1	1.3	1.2	1.7	0.9	0.8	100.0	-12.1
IT	44.7	46.7	49.6	50.1	47.2	52.2	52.2	56.6	-0.1
CY	-	-	-	-	-	-	-	-	-
LV	5.4	1.4	0.7	0.9	0.7	0.6	0.6	93.1	-1.0
LT	3.6	1.1	0.6	0.3	0.2	0.3	0.3	67.4	6.9
LU	0.2	0.3	0.3	0.3	0.3	0.4	0.4		-0.2
HU	11.4	8.4	9.7	9.9	7.7	7.6	7.7	95.4	0.6
MT	-	-	-	-	-	-	-	-	-
NL	11.1	16.4	14.7	15.2	16.9	17.5	18.0		2.6
AT	8.9	10.1	8.7	8.7	10.3	12.2	12.6	69.4	3.0
PL	50.4	26.6	24.1	18.2	17.9	17.4	19.2	85.4	10.4
PT	5.7	4.8	4.0	3.8	4.1	4.0	4.3		7.8
RO	30.6	18.9	11.6	8.0	5.4	5.1	5.0	100.0	-3.1
SI	1.4	0.6	0.7	0.7	0.7	0.6	0.6	97.4	-2.7
SK	6.4	4.2	2.9	2.2	2.3	3.4	3.5	91.7	2.1
FI	3.3	3.2	3.4	3.5	4.0	4.1	3.9	97.0	-6.0
SE	6.6	6.8	8.2	8.9	11.2	12.7	12.8	49.4	0.5
UK	33.4	30.3	38.4	44.6	55.8	66.6	68.0	97.0	2.1
AL	0.8	0.2	0.1	0.1	0.0	0.0	0.0		-57.1
ME					0.1	0.1	0.1		3.6
MK		0.1	0.1	0.1	0.2	0.2	0.1		-53.1
RS	4.5	2.3	1.2	0.7	0.5	0.5	0.4		-13.9
TR	6.4	5.8	5.8	5.0	5.5	4.8	4.3		-10.4
IS	-	-	-	-	-	-	-	-	-
NO	2.1	2.4	2.6	2.7	3.2	3.6	3.7	98.9	3.9
CH	12.7	11.7	12.6	16.1	19.2	20.4	20.8		2.1

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.

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	11.2%
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	52.04	12.28	0.31	-	0.47	0.01	0.71	2.83	4.36	108.74	2.7%
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	1.0%
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%

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	50.1	10.3	0.8	-	-	-	2.1	24.8	-	15.8
2005	11.5	0.1	27.2	10.7	56.8	17.1	4.5	-	12.9	-	8.9	26.2	1.0	21.2
2006	11.2	2.1	27.4	12.2	56.6	17.8	4.6	-	13.1	-	12.3	25.9	1.9	21.6
2007	10.8	4.8	27.7	11.9	59.0	17.7	4.9	-	12.7	-	15.4	27.0	2.8	22.3
2008	10.6	3.7	28.3	22.9	60.9	17.9	5.3	-	12.5	1.8	15.4	26.8	1.9	23.6
2009	10.4	3.6	27.4	49.7	60.6	22.3	5.6	-	12.6	2.1	15.6	26.9	1.9	25.7
2010	10.0	4.1	28.5	52.2	60.6	24.6	1.7	-	12.6	2.1	16.4	26.3	1.8	26.0
2011	8.5	4.3	27.3	49.3	58.7	26.2	1.7	-	11.0	1.9	18.3	24.8	7.5	26.2
2012	8.3	3.8	27.9	49.7	57.5	27.4	1.8	-	12.1	1.8	17.5	25.0	7.2	26.1
2013	8.3	3.3	28.1	53.6	57.6	26.3	1.9	-	12.7	1.6	18.7	25.8	7.0	26.2
2014	8.3	3.2	26.7	51.0	58.1	25.6	1.2	-	14.0	1.2	16.8	26.6	4.5	25.2
2015	11.6	7.0	27.6	54.0	56.1	24.5	5.7	2.7	14.4	0.9	13.9	26.4	4.4	25.5
2016	15.0	8.0	28.4	56.5	57.6	25.1	2.0	7.5	14.4	0.6	15.8	27.2	4.1	26.1

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	5 866.7	32.0	36.7	470.0	20.8	908.8	7 335.1
2011	5 874.5	32.1	38.4	471.3	22.0	926.4	7 364.7
2012	5 905.1	37.1	39.1	504.6	21.9	934.2	7 441.9
2013	5 935.5	35.3	40.7	517.7	23.0	949.0	7 501.3
2014	6 005.9	34.6	40.3	546.1	23.0	978.1	7 628.0
2015	6 161.1	34.0	40.1	554.0	23.2	1 033.0	7 845.4
2016	6 315.4	35.4	40.2	558.1	23.5	1 079.0	8 051.6

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	0.5	-11.3	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	15.6	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	1.7
2015	2.6	-1.8	-0.3	1.4	0.9	5.6	2.9
2016	2.5	4.3	0.2	0.7	1.5	4.4	2.6
'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/'16	-0.1	2.2	1.6	0.6	1.9	1.6	0.2

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	80.0	0.4	0.5	6.4	0.3	12.4	
2011	79.8	0.4	0.5	6.4	0.3	12.6	
2012	79.3	0.5	0.5	6.8	0.3	12.6	
2013	79.1	0.5	0.5	6.9	0.3	12.7	
2014	78.7	0.5	0.5	7.2	0.3	12.8	
2015	78.5	0.4	0.5	7.1	0.3	13.2	
2016	78.4	0.4	0.5	6.9	0.3	13.4	

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	11.7	218.7	420.5	722.7	1917.6	40.1	506.4	960.8	5 625.6	2 142.0	223.8	3 309.3	78.8	112.2
BG	210.2	163.8	278.5	103.3	1843.8	37.8	44.0	155.6	369.6	204.5	0.2	555.5	79.7	26.6
CZ	419.7	281.1	82.6	250.3	1 165.8	0.2	193.2	637.4	843.0	1 003.5	81.8	1 053.8	19.9	43.8
DK	722.3	103.5	251.1	2 011.6	3 045.1	78.0	282.5	868.8	3 101.4	1 496.5	172.7	1 489.1	60.9	182.1
DE	1 903.6	1 831.1	1 128.6	3 025.8	23 774.9	397.8	1 976.0	5 843.4	27 370.7	7 285.2	1 670.9	13 209.0	241.3	823.1
EE	39.9	38.1	0.2	78.0	399.3	17.4	21.9	58.9	61.6	34.4	11.6	92.3	3.1	202.8
IE	505.4	44.5	193.3	282.7	1 988.2	21.8	81.8	138.1	3 938.8	1 939.2	109.5	1 300.4	4.0	118.4
EL	989.1	154.2	633.8	867.6	5 827.2	56.7	137.0	8 176.2	512.2	2 340.7	41.4	3 204.7	1 507.4	76.0
ES	5 647.8	359.8	844.6	3 112.4	27 681.2	62.6	3 945.3	515.7	33 434.6	13 068.3	245.3	13 002.4	6.6	101.6
FR	1 946.9	196.1	953.7	1 398.9	7 384.2	34.7	1 863.9	2 179.9	11 624.7	28 951.9	550.3	10 482.8	66.1	126.0
HR	216.8	0.2	81.4	172.6	1 629.3	8.4	110.0	49.1	245.8	599.7	487.9	250.7	1.2	8.3
IT	3 308.1	553.9	1 051.0	1 496.4	13 296.0	92.9	1 295.7	3 183.3	12 926.4	10 933.6	237.2	30 271.9	74.1	185.1
CY	78.7	79.7	15.4	60.7	240.9	3.1	4.1	1 558.5	6.6	96.5	1.3	71.9	0.0	12.5
LV	111.7	27.1	43.8	181.3	834.7	204.0	118.5	75.8	101.0	126.9	15.5	185.3	12.5	1.0
LT	94.2	42.8	0.0	344.8	442.6	64.4	173.1	99.7	244.4	115.5	0.0	283.9	43.9	198.1
LU	0.4	22.2	11.9	50.0	468.4	0.0	33.9	67.0	397.2	182.0	5.9	242.3	0.1	0.0
HU	510.3	46.5	78.1	266.2	1 671.3	0.0	230.7	290.4	653.3	640.4	0.1	1 035.5	53.0	26.2
MT	114.9	42.3	20.0	78.3	666.6	1.3	77.3	62.9	176.0	294.0	3.9	1 067.8	16.3	5.4
NL	217.8	234.6	704.1	1 613.7	4 282.4	86.5	1 229.1	1 525.4	7 507.8	3 573.0	288.4	4 642.9	69.2	170.1
AT	400.4	415.0	140.0	403.4	6 812.5	38.3	130.8	874.0	1 582.0	1 149.2	311.0	1 227.0	229.8	91.1
PL	698.5	492.3	196.9	586.5	3 838.3	46.6	1 045.0	1 476.6	2 064.4	1 186.1	92.4	1 818.8	153.2	95.7
PT	1 319.4	8.3	123.3	329.1	4 319.8	1.6	969.5	25.2	3 635.7	6 177.0	16.8	1 663.1	0.1	2.1
RO	534.3	36.2	79.8	46.4	2 169.2	0.0	178.2	414.3	1 361.5	789.8	0.8	3 010.6	151.0	0.3
SI	96.7	0.0	11.9	17.6	232.9		0.0	51.5	5.8	75.0	0.2	3.9	2.2	
SK	88.8	75.7	54.0	0.0	103.7		132.1	208.9	164.2	34.4	2.6	224.9	11.3	0.3
FI	168.9	40.2	281.0	821.3	1 770.0	262.3	93.1	422.4	1 380.9	590.9	153.7	487.9	32.7	286.6
SE	508.0	73.5	226.9	2 032.5	3 316.3	143.3	109.1	1 122.9	3 297.9	1 092.4	303.6	814.9	217.1	231.5
UK	1 461.9	1 419.8	1 926.0	3 762.4	13 855.4	106.7	12 728.7	6 636.6	41 414.1	12 603.3	1 238.9	14 119.2	2 724.4	786.9

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

2016

INCLUDING DOMESTIC FLIGHTS (1 000)

LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK
94.8	1.4	511.3	115.8	222.9	401.9	701.5	1 315.6	533.2	96.7	89.6	169.6	508.0	1 473.4
42.9	19.6	47.0	42.7	227.9	415.6	485.5	8.2	49.8	0.3	94.9	40.2	73.2	1 360.3
0.0	12.0	78.3	20.2	704.1	142.8	197.0	119.2	79.7	12.2	89.2	282.6	220.9	1 929.5
346.4	50.5	273.3	77.9	1 612.3	404.3	588.5	324.3	49.7	17.6	0.0	825.9	2 058.8	3 761.6
442.1	470.1	1 673.4	665.7	4 260.9	6 800.2	3 807.7	4 278.9	2 245.8	232.0	103.7	1 769.1	3 359.8	13 867.5
64.5		0.0	1.2	86.4	38.3	46.6	1.4		0.0		232.9	142.5	106.9
177.6	34.0	230.8	78.0	1 228.9	131.5	1 056.4	968.3	178.3		133.5	93.9	109.4	12 777.7
99.4	68.4	288.9	63.4	1 592.1	869.2	1 461.6	24.7	428.0	60.4	213.8	423.1	1 128.5	6 633.2
247.9	407.7	655.5	178.0	7 553.1	1 559.0	2 110.6	3 584.3	1 391.2	5.7	165.9	1 402.0	3 436.1	41 641.1
115.2	180.8	637.7	293.6	3 548.4	1 095.0	1 101.0	5 637.0	742.1	74.4	32.8	590.4	1 081.5	11 413.5
	7.3	0.2	3.9	291.5	304.6	80.3	17.1	0.9	0.2	1.5	156.0	283.0	1 213.8
285.4	244.0	1 035.9	1 072.9	4 639.8	1 234.3	1 802.3	1 660.8	3 128.0	3.8	225.3	492.3	804.6	14 121.5
44.6	0.1	52.8	16.3	68.5	229.6	146.4	0.0	152.2		11.4	32.1	223.0	2 744.1
202.0	0.0	26.2	5.5	170.5	91.2	95.3	2.0	0.3	0.0	2.3	287.2	231.4	791.3
0.4	0.0	0.1	28.1	110.0	50.3	129.9	5.3	0.2	0.3		93.7	170.8	974.0
	0.7	0.0	4.4	163.4	101.8	20.9	445.5	0.0	0.0	0.0	1.5	33.2	434.0
0.1	0.0	0.2	80.1	787.5	100.5	212.6	79.5	99.9	0.0	0.2	232.7	356.9	2 033.7
28.0	5.6	79.3	0.3	137.5	103.0	160.1	2.9	40.8	4.3	2.7	29.2	73.1	1 354.6
111.0	164.8	788.1	137.9	1.6	1 064.6	1 084.4	1 966.0	535.9	34.0	0.1	584.6	1 238.0	10 338.2
50.5	101.9	100.0	103.2	1 061.4	510.6	275.3	238.4	484.3	63.2	54.3	197.3	337.7	2 086.4
130.9	21.0	213.0	161.7	1 080.4	276.1	1 834.1	299.0	128.6	35.6	16.8	279.3	1 096.7	7 137.1
5.5	453.2	79.5	3.2	1 982.0	239.0	301.4	4 471.8	60.3	0.3	0.2	102.5	190.3	7 448.5
0.1	0.1	99.3	41.1	532.2	483.3	128.5	60.2	895.4	0.0	0.1	0.3	149.8	2 088.1
0.3		0.0	4.3	34.1	63.4	35.5	0.3	0.1		0.5	32.8	0.8	187.7
	0.0	0.1	2.8	0.1	54.8	15.6	0.2	0.2	0.5	24.9	0.1	0.4	641.3
93.7	1.4	231.4	29.3	581.5	197.3	277.1	100.3	0.6	32.6	0.2	2 688.9	1 744.0	1 183.8
172.4	33.7	357.5	73.9	1 104.4	352.5	1 147.0	184.9	149.4	0.9	0.5	1 750.8	7 701.6	2 781.4
987.9	435.0	2 032.1	1 359.9	10 309.5	2 086.5	7 117.3	7 376.8	2 224.9	187.8	708.9	1 189.0	2 781.4	23 076.9

2.4.2

Air

MAJOR EUROPEAN AIRLINES

DOMESTIC + INTERNATIONAL

RANKING	BILLION REVENUE PASSENGER-KILOMETRES							%
	AIRLINE		2000	2005	2010	2015	2016	CHANGE '15/'16
1	Ryanair ⁽²⁾	IE	4.772	31.205	85.690	130.564	148.644	13.8
2	Lufthansa	DE	92.160	108.185	129.668	146.317	145.878	-0.3
3	British Airways	UK	119.385	107.892	106.082	142.016	144.399	1.7
4	Air France ⁽¹⁾	FR	91.848	115.163	125.165	142.487	140.447	-1.4
5	THY Turkish Airlines	TR	17.396	21.318	47.950	119.372	126.903	6.3
6	KLM Royal Dutch Airlines ⁽¹⁾	NL	60.336	68.322	76.065	93.228	97.736	4.8
7	Easyjet ⁽³⁾	UK	3.926	27.448	56.128	77.619	81.496	5.0
8	Iberia	ES	40.049	49.060	51.242	48.564	51.071	5.2
9	Norwegian	NO		2.703	13.774	42.284	50.798	20.1
10	Air Berlin	DE	7.813	20.527	46.960	47.010	45.815	-2.5
11	SWISS Intern. Airlines	CH	3.481	21.164	29.522	40.047	42.290	5.6
12	Wizz Air	HU			14.250	30.786	37.628	22.2
13	Virgin Atlantic Airways	UK	31.315	32.118	38.158	37.157	37.126	-0.1
14	SAS Scandinavian Airlines	SE/ DK/ NO	22.922	27.724	23.497	33.780	36.940	9.4
15	Alitalia	IT	40.846	37.969	33.344	34.397	35.000	1.8
16	TUI Airways	UK	20.300	23.337	32.714	33.395	34.415	3.1
17	TAP Portugal	PT	10.414	14.536	23.651	29.552	28.536	-3.4
18	Vueling	ES		1.661	9.932	24.775	28.046	13.2
19	Condor	DE		22.245	19.888	27.903	27.286	-2.2
20	Finnair	FI	12.587	16.735	19.222	25.592	27.065	5.8
21	Pegasus	TR			10.662	21.223	24.721	16.5
22	Air Europa	ES	8.831	13.442	17.180	22.502	23.813	5.8
23	Thomas Cook Airlines	UK	14.292	14.220	27.385	22.460	23.584	5.0
24	Eurowings ⁽³⁾	DE		4.519	6.966	15.870	20.107	26.7
25	Aer Lingus	IE	8.808	12.563	13.895	17.531	19.194	9.5
26	Austrian Airlines	AT	17.967	22.894	17.494	18.190	18.609	2.3
27	Jet2	UK		3.105	6.219	12.222	14.261	16.7
28	Transavia Airlines	NL	7.921	8.726	10.644	12.593	13.776	9.4
29	SN Brussels Airlines	BE	3.418	4.559	7.313	11.833	12.694	7.3
30	SunExpress	TR	1.969	3.938	10.840	12.210	11.808	-3.3

Notes: Scheduled and non-scheduled flights.

⁽¹⁾ Air France and KLM merged in 2004 to build Air France KLM Group.

⁽²⁾ Ryanair: year up to 30 March of the following year.

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

⁽⁴⁾ Air One merged with Alitalia at the end of 2008.

⁽⁵⁾ Germanwings merged with Eurowings in 2015.

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

Air – PASSENGER TRAFFIC AT MAJOR EU AIRPORTS

2.4.3

PASSENGERS CARRIED (*)

RANKING	(arriving + departing + in transit)		MILLION PASSENGERS					%
	AIRPORT AND COUNTRY		2000	2005	2010	2015	2016	
								CHANGE '15/'16
1	London/Heathrow	UK	64.29	67.68	65.74	74.95	75.67	0.96
2	Paris/Charles de Gaulle	FR	49.67	53.38	57.93	65.67	65.85	0.27
3	Amsterdam/Schiphol	NL	39.27	44.08	45.15	58.17	63.55	9.25
4	Frankfurt (Main)	DE	48.96	51.79	52.65	60.89	60.67	-0.36
5	Madrid/Barajas	ES	32.71	41.72	49.80	46.30	49.18	6.22
6	Barcelona/El Prat	ES	19.44	27.02	29.18	39.42	43.75	10.97
7	London/Gatwick	UK	31.95	32.69	31.34	40.26	43.14	7.17
8	München	DE	22.87	28.45	34.52	40.86	42.16	3.18
9	Roma/Fiumicino	IT	25.94	27.78	35.95	40.23	41.57	3.33
10	Paris/Orly	FR	23.83	24.85	25.16	29.66	31.24	5.31
11	København/Kastrup	DK	18.11	19.82	21.39	26.51	28.95	9.18
12	Dublin	IE	13.66	18.33	18.41	24.92	27.71	11.17
13	Palma de Mallorca	ES	19.25	21.22	21.08	23.72	26.23	10.60
14	Manchester	UK	18.32	22.08	17.66	23.09	25.60	10.85
15	Stockholm/Arlanda	SE	18.61	17.16	16.96	23.15	24.70	6.67
16	London/Stansted	UK	11.86	21.99	18.56	22.51	24.32	8.01
17	Düsseldorf	DE	15.91	15.39	18.91	22.45	23.50	4.67
18	Wien/Schwechat	AT	11.92	15.80	19.62	22.74	23.32	2.54
19	Lisboa	PT	9.21	11.24	14.05	20.11	22.46	11.69
20	Brussel-Bruxelles/Brussels	BE	21.60	15.95	16.98	23.27	21.77	-6.45
21	Berlin/Tegel	DE	10.24	11.47	14.97	20.99	21.24	1.19
22	Athinaí/Eleftherios Venizelos	EL	13.35	14.27	15.39	18.09	20.01	10.61
23	Milano/Malpensa	IT	20.55	19.49	18.71	18.44	19.31	4.70
24	Helsinki/Vantaa	FI	10.00	11.13	12.86	16.42	17.18	4.65
25	Malaga	ES	8.26	12.61	12.02	14.36	16.62	15.73
26	Hamburg	DE	9.82	10.57	12.88	15.58	16.19	3.91
27	London/Luton	UK	6.16	9.13	8.73	12.26	14.64	19.40
28	Praha/Ruzyně	CZ	5.55	10.72	11.51	11.87	12.99	9.45
29	Warszawa/Chopin	PL	4.33	7.08	8.73	11.22	12.85	14.53
30	Nice/Côte d'Azur	FR	9.33	9.74	9.59	12.01	12.42	3.41
31	Edinburgh	UK	5.37	8.45	8.59	11.11	12.35	11.11
32	Alicante	ES	5.29	8.93	9.37	10.56	12.31	16.55
33	Las Palmas/Gran Canaria	ES	7.66	9.69	9.28	10.44	11.91	14.01
34	Köln-Bonn	DE	6.19	9.39	9.79	10.31	11.88	15.18
35	Birmingham	UK	7.49	9.31	8.56	10.18	11.64	14.33
36	Berlin/Schönefeld	DE	2.09	5.00	7.25	8.51	11.63	36.63
37	Budapest/Ferihegy	HU	4.68	7.92	8.17	10.23	11.38	11.21
38	Bergamo/Orio al Serio	IT	1.24	4.29	7.66	10.40	11.15	7.29
39	Bucuresti	RO		2.98	4.92	9.27	10.98	18.38
40	Stuttgart	DE	7.98	9.25	9.14	10.49	10.60	1.07

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

TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport)				1 000	%
	AIRPORT PAIRS	2005	2010	2015	2016	CHANGE '15/'16
1	Toulouse/Blagnac - Paris/Orly	2 327.1	2 193.7	2 318.1	2 358.9	1.8
2	Madrid/Barajas - Barcelona	4 358.3	3 083.8	2 251.7	2 328.8	3.4
3	Nice/Côte d'Azur - Paris/Orly	2 262.9	2 104.6	2 113.3	2 124.8	0.5
4	Catania/Fontanarossa - Roma/Fiumicino	1 368.7	1 717.8	1 987.7	2 054.4	3.4
5	München - Berlin/Tegel	1 419.2	1 580.0	1 975.2	1 939.6	-1.8
6	Berlin/Tegel - Frankfurt (Main)	1 545.6	1 609.4	1 906.3	1 935.0	1.5
7	Athinaï/Eleftherios Venizelos - Thessaloniki	1 054.3	1 176.3	1 639.5	1 811.4	10.5
8	München - Hamburg	1 450.5	1 653.0	1 811.0	1 801.6	-0.5
9	Palma De Mallorca - Barcelona	1 689.3	1 532.5	1 576.1	1 772.6	12.5
10	Dublin - London/Heathrow	2 086.3	1 491.3	1 683.1	1 750.9	4.0
11	Palma de Mallorca - Madrid/Barajas	1 641.5	1 698.9	1 411.2	1 687.6	19.6
12	Amsterdam/Schiphol - London/Heathrow	1 894.1	1 333.1	1 549.2	1 616.6	4.4
13	Roma/Fiumicino - Palermo/Punta Raisi	1 111.2	1 418.6	1 481.1	1 595.5	7.7
14	München - Düsseldorf	1 381.5	1 533.4	1 552.2	1 564.3	0.8
15	København/Kastrup - Stockholm/Arlanda	1 194.1	1 166.0	1 458.4	1 547.1	6.1
16	Las Palmas/Gran Canaria - Madrid/Barajas	1 388.1	1 553.7	1 305.7	1 509.0	15.6
17	London/Heathrow - Frankfurt (Main)	1 530.4	1 266.1	1 531.0	1 493.0	-2.5
18	Frankfurt (Main) - Hamburg	1 288.3	1 480.6	1 360.5	1 371.5	0.8
19	Barcelona - London/Gatwick	556.1	376.7	1 354.2	1 362.5	0.6
20	Barcelona - Roma/Fiumicino	595.5	688.5	1 190.6	1 319.2	10.8
21	Madrid/Barajas - London/Heathrow	1 073.3	1 088.9	1 320.8	1 317.5	-0.3
22	Dublin - London/Gatwick	626.3	842.7	1 086.9	1 309.0	20.4
23	Barcelona - Amsterdam/Schiphol	1 108.0	1 066.1	1 204.8	1 307.9	8.6
24	Tenerife Norte - Madrid/Barajas	1 359.4	1 319.7	1 149.5	1 305.1	13.5
25	Lisboa - Madrid/Barajas	742.3	1 172.0	1 175.2	1 299.8	10.6
26	Palma De Mallorca - Düsseldorf	980.5	911.9	1 214.0	1 284.9	5.8
27	Köln-Bonn - Berlin/Tegel	916.6	1 026.9	1 258.9	1 270.8	0.9
28	Barcelona - Paris/Charles de Gaulle	876.3	860.8	1 231.4	1 268.1	3.0
29	Lisboa - Paris/Orly	556.2	604.7	1 045.1	1 247.1	19.3
30	London/Heathrow - München	918.8	975.4	1 230.7	1 215.5	-1.2
31	Ponte-à-Pitre (Guadeloupe)/Pôle Caraïbes - Paris/Orly	987.6	1 033.8	1 159.6	1 214.6	4.7
32	Paris/Charles de Gaulle - London/Heathrow		1 312.8	1 282.1	1 207.7	-5.8
33	Madrid/Barajas - Paris/Orly	964.3	1 105.9	1 169.1	1 203.9	3.0
34	Milano/Linate - Roma/Fiumicino	2 414.6	1 522.8	1 366.5	1 188.8	-13.0
35	Amsterdam/Schiphol - Paris/Charles de Gaulle	1 038.7	990.2	1 137.2	1 182.3	4.0
36	Malaga - London/Gatwick	978.6	910.4	1 069.1	1 175.5	10.0
37	Wien/Schwechat - Frankfurt (Main)	675.9	952.0	1 178.4	1 164.1	-1.2
38	Stockholm/Arlanda - Helsinki/Vantaa	840.3	812.5	1 078.0	1 162.6	7.8
39	Berlin/Tegel - Düsseldorf	657.8	930.2	1 114.6	1 146.6	2.9
40	Frankfurt (Main) - München	1 303.1	958.4	1 142.0	1 120.3	-1.9

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

TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport)	1 000				%
		2005	2010	2015	2016	CHANGE '15/'16
AIRPORT PAIRS						
1	London/Heathrow - New York/J.F. Kennedy Intl, NY, USA	2 940	2 517	3 050	2 935	-3.8
2	London/Heathrow - Dubai Intl, United Arab Emirates	1 183	1 787	2 452	2 651	8.1
3	London/Heathrow - Hong Kong Intl, China	1 258	1 386	1 584	1 575	-0.6
4	London/Heathrow - Los Angeles Intl, CA, USA	1 383	1 189	1 519	1 530	0.7
5	København/Kastrup - Oslo/Gardermoen, Norway	1 247	1 132	1 423	1 509	6.1
6	Paris/Charles de Gaulle - New York/J.F. Kennedy Intl, NY, USA	1 730	1 190	1 503	1 424	-5.3
7	Stockholm/Arlanda - Oslo/Gardermoen, Norway	937	1 007	1 336	1 394	4.3
8	London/Heathrow - Doha/Hamad Intl, Qatar			1 072	1 207	12.6
9	London/Heathrow - Singapore/Changi, Singapore	996	1 022	1 150	1 198	4.2
10	Paris/Charles de Gaulle - Montreal/Pierre Elliot Trudeau Intl, Canada	929	1 148	1 147	1 150	0.3
11	London/Heathrow - Zürich, Switzerland	905	877	1 075	1 102	2.5
12	Paris/Charles de Gaulle - Dubai Intl, United Arab Emirates	439	716	1 077	1 102	2.3
13	London/Heathrow - Chicago/O'Hare Intl, IL, USA	1 522	1 137	1 060	1 073	1.2
14	London/Heathrow - Genève/Cointrin, Switzerland	570	859	1 022	1 054	3.1
15	London/Heathrow - Toronto/Lester B. Pearson Intl, Canada	1 067	941	1 032	1 054	2.1
16	London/Heathrow - New Delhi/Indira Gandhi Intl, India	384	918	1 034	1 042	0.8
17	London/Heathrow - Miami Intl, FL, USA	878	822	1 031	1 030	-0.1
18	London/Heathrow - San Francisco Intl, CA, USA	1 005	861	1 047	1 017	-2.9
19	Berlin/Tegel - Zürich, Switzerland	467	801	986	1 007	2.1
20	Wien/Schwechat - Zürich, Switzerland	597	778	963	988	2.5
21	London/Heathrow - Istanbul/Atatürk, Turkey	525	725	933	956	2.5
22	London/Heathrow - Newark/Liberty Intl, NJ, USA	740	1 092	1 000	945	-5.6
23	Frankfurt (Main) - Dubai Intl, United Arab Emirates	491	679	903	944	4.5
24	Paris/Charles de Gaulle - Istanbul/Atatürk, Turkey	415	688	921	943	2.4
25	Manchester - Dubai Intl, United Arab Emirates	370	566	861	933	8.3
26	London/Heathrow - Abu Dhabi Intl, United Arab Emirates	362	504	836	929	11.1
27	London/Gatwick - Dubai Intl, United Arab Emirates	483	629	867	921	6.3
28	London/Heathrow - Mumbai/Chhatrapati Shivaji Intl, India	725	957	949	917	-3.5
29	London/Heathrow - Johannesburg Intl, South Africa	995	886	939	883	-5.9
30	London/Heathrow - Washington/Dulles Intl, DC, USA	1 074	921	866	850	-1.9
31	Paris/Orly - Alger, Algeria	640	577	891	844	-5.2
32	London/Gatwick - Genève, Switzerland	643	624	845	844	-0.1
33	Amsterdam/Schiphol - Dubai Intl, United Arab Emirates	231	434	775	833	7.5
34	Paris/Charles de Gaulle - Tel Aviv/Ben Gurion, Israel	608	710	786	809	3.0
35	Düsseldorf - Zürich, Switzerland	444	648	743	807	8.7
36	Amsterdam/Schiphol - Zürich, Switzerland	549	612	761	801	5.2
37	Paris/Charles de Gaulle - Shanghai/Pudong, CN		521	778	799	2.8
38	London/Heathrow - Boston/Gen. E. Lawrence Logan Intl, MA, USA	929	866	858	798	-7.0
39	Frankfurt (Main) - Istanbul/Atatürk, Turkey	661	638	859	796	-7.3
40	London/Gatwick - Orlando Intl, FL, USA	739	673	737	792	7.4

2.4.5

Air – FREIGHT TRAFFIC AT MAJOR EU AIRPORTS

CARGO AND MAIL LOADED AND UNLOADED

RANKING	1 000 TONNES							%
	AIRPORT AND COUNTRY		2000	2005	2010	2015	2016	CHANGE '15/'16
1	Paris/Charles de Gaulle	FR	1 067.0	1 217.8	1 290.9	2 090.6	2 211.3	5.77
2	Frankfurt (Main)	DE	1 703.4	1 950.6	2 270.2	2 075.7	2 111.4	1.72
3	Amsterdam/Schiphol	NL	1 222.5	1 495.6	1 538.0	1 655.3	1 771.1	6.99
4	London/Heathrow	UK	1 306.8	1 389.3	1 551.3	1 588.9	1 637.6	3.06
5	Leipzig-Halle	DE	13.7	12.3	637.8	982.5	1 045.0	6.35
6	Luxembourg	LU	499.9	624.8	705.8	736.9	801.1	8.71
7	Köln-Bonn	DE	438.3	646.8	638.2	739.5	768.1	3.88
8	Liège/Bierset	BE	270.3	325.7	508.5	625.3	592.1	-5.30
9	Milano/Malpensa	IT	295.7	383.8	432.7	511.2	548.8	7.35
10	Brussel-Bruxelles/Brussels	BE	687.4	694.5	385.0	483.1	472.7	-2.15
11	Madrid/Barajas	ES	280.4	360.3	400.5	382.6	404.3	5.66
12	München	DE	148.4	218.2	291.1	336.0	353.5	5.19
13	Nottingham East Midlands	UK	178.8	292.1	304.0	321.2	319.6	-0.48
14	London/Stansted	UK	167.8	254.8	229.8	226.8	245.7	8.33
15	Wien/Schwechat	AT	65.9	180.0	231.8	209.1	216.4	3.51
16	København/Kastrup	DK	419.4	355.1	138.1	196.6	185.7	-5.54
17	Helsinki/Vantaa	FI	96.1	114.9	157.5	177.4	182.2	2.68
18	Roma/Fiumicino	IT	153.3	131.9	164.4	145.0	160.9	10.96
19	Dublin	IE	35.5	64.1	105.3	137.3	134.2	-2.23
20	Bergamo/Orio al Serio	IT	98.9	135.1	105.8	121.0	117.7	-2.72
21	Barcelona	ES	75.5	94.5	105.9	102.2	114.6	12.15
22	Paris/Orly	FR	107.3	80.0	53.8	126.3	114.2	-9.58
23	Manchester	UK	116.6	150.0	116.6	103.0	112.4	9.08
24	Lisboa	PT	114.6	100.0	105.2	100.8	101.6	0.85
25	Stockholm/Arlanda	SE	154.0	158.0	99.4	90.7	94.4	4.05
26	Düsseldorf	DE	59.4	56.5	87.1	90.2	93.5	3.65
27	Warszawa/Chopina	PL	44.6	31.1	57.1	72.3	85.8	18.63
28	London/Gatwick	UK	318.8	232.1	108.6	77.9	84.0	7.89
29	Budapest/Ferihegy	HU	43.5	55.5	65.3	65.8	77.5	17.86
30	Zaragoza	ES	3.2	3.8	42.1	65.1	76.2	17.00
31	Praha/Ruzyne	CZ		51.6	58.2	50.5	71.0	40.59
32	Toulouse/Blagnac	FR	37.8	56.2	52.2	61.0	66.7	9.37
33	Athinai/Eleftherios Venizelos	EL	123.4	100.7	84.0	58.1	65.2	12.34
34	Frankfurt/Hahn	DE	75.0	100.9	164.5	73.2	62.4	-14.76
35	Maastricht-Aachen	NL	44.3	54.6	62.0	56.6	60.6	7.02
36	Marseille/Provence	FR	36.0	51.0	58.6	55.2	57.9	4.79
37	Lyon/Saint Exupéry	FR	27.4	38.7	35.2	51.4	55.8	8.52
38	Venezia Tessera	IT		12.3	29.4	48.0	55.0	14.56
39	Berlin/Tegel airport	DE	33.1	19.0	21.5	39.5	42.4	7.10
40	Bologna/Borgo Panigale	IT		7.8	28.2	30.8	37.5	21.51

Note: 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				%
	AIRPORT AND COUNTRY		2005	2010	2015	2016	CHANGE '15/'16
1	Amsterdam/Schiphol	NL	408.2	390.4	455.2	483.4	6.2
2	London/Heathrow	UK	472.0	449.2	472.1	473.2	0.2
3	Paris/Charles de Gaulle	FR	543.8	477.9	468.5	472.0	0.7
4	Frankfurt (Main)	DE	475.6	456.0	460.5	456.3	-0.9
5	München	DE	382.3	368.2	365.7	380.0	3.9
6	Madrid/Barajas	ES	406.3	426.9	357.7	359.7	0.6
7	Roma/Fiumicino	IT	299.6	327.3	311.8	310.8	-0.3
8	Barcelona	ES	294.3	268.5	279.0	294.7	5.6
9	London/Gatwick	UK	252.0	233.5	262.5	277.1	5.6
10	København/Kastrup	DK	262.1	240.6	250.2	259.2	3.6
11	Paris/Orly	FR	231.0	215.5	231.3	234.8	1.5
12	Stockholm/Arlanda	SE	222.2	185.4	216.9	224.9	3.6
13	Wien/Schwechat	AT	227.0	242.3	224.5	224.3	-0.1
14	Düsseldorf	DE	189.0	211.4	202.8	209.4	3.2
15	Brussel-Bruxelles/Brussels	BE	228.7	205.2	221.1	205.8	-6.9
16	Dublin	IE	169.6	156.4	188.8	204.5	8.3
17	Palma De Mallorca	ES	170.5	165.2	170.0	185.4	9.1
18	Manchester	UK	218.0	148.9	164.7	184.6	12.1
19	Athinaí/Eleftherios Venizelos	EL	170.4	181.6	167.9	181.4	8.0
20	Berlin/Tegel	DE	137.2	150.5	177.9	179.9	1.1
21	Lisboa	PT	125.9	136.9	162.8	179.1	10.0
22	London/Stansted	UK	178.0	143.0	154.5	164.2	6.3
23	Milano/Malpensa	IT	222.2	187.8	154.6	160.5	3.9
24	Helsinki/Vantaa	FI	163.1	169.9	165.3	158.1	-4.4
25	Nice/Côte d'Azur	FR	158.1	132.1	139.8	146.8	5.0
26	Warszawa/Chopina	PL	131.1	133.0	136.4	146.7	7.5
27	Hamburg	DE	134.2	138.4	142.1	144.3	1.6
28	Praha/Ruzyne	CZ	150.2	147.9	120.1	128.3	6.9
29	Köln-Bonn	DE	139.9	120.6	114.8	123.6	7.7
30	Edinburgh	UK	116.0	100.6	107.2	116.3	8.4
31	Malaga	ES	111.1	97.3	101.0	113.1	11.9
32	Lyon/Saint Exupéry	FR	130.1	115.4	105.0	107.1	2.0
33	Stuttgart	DE	135.0	111.7	105.0	105.1	0.1
34	Birmingham	UK	113.0	84.8	89.8	104.6	16.4
35	London/Luton	UK	75.4	68.6	87.4	102.9	17.7
36	Bucureşti/Henri Coandă	RO	90.2	128.1	90.8	101.9	12.2
37	Las Palmas/Gran Canaria	ES	98.4	93.2	89.9	101.1	12.5
38	Milano/Linate	IT	93.1	91.5	95.9	97.7	1.9
39	Marseille/Provence	FR	90.3	95.9	89.8	90.0	0.2
40	Budapest/Ferihegy	HU	116.7	99.6	86.0	89.3	3.9

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		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
EU-28	191054	192120	192243	5677	6113	6479			
BE	219	177	167	190	245	391			
BG	0	0	0	0	0	0	77	18	8
CZ	-	-	-	-	-	-	-	-	-
DK	20524	20671	20622	209	183	170	385	399	500
DE	14576	14321	14609	558	622	813			
EE	6791	7056	7129	8	6	6	470	493	497
IE	1372	1358	1360	1	1	3	203	242	220
EL	33100	32654	32394	195	197	236			
ES	10625	11113	11732	1161	1187	1417	4655	5669	5401
FR	12934	12646	11953	444	467	372	2561	2780	3319
HR	11903	13948	15041	4	26	35	1188	1242	1323
IT	34227	33159	31828	1879	1986	1849	3960	4649	3598
CY	1	1	1	36	34	28	103	103	80
LV	420	317	346				62	69	72
LT	136	136	144				58	60	64
LU	-	-	-	-	-	-	-	-	-
HU	-	-	-	-	-	-	-	-	-
MT	4791	4886	5290	46	70	58	426	538	575
NL	911	941	997						
AT	-	-	-	-	-	-	-	-	-
PL	1111	1205	1297	0	0	0			
PT	252	268	314	23	24	26	537	654	591
RO				0	0	0	62	31	7
SI	13	17	14				60	61	81
SK	-	-	-	-	-	-	-	-	-
FI	9271	9480	9657				420	440	408
SE	14791	14890	15027	44	95	66	586	559	468
UK	13086	12876	12321	878	969	1009			
IS		369	274					262	242
NO	2919	3420	2936	112	74	94	612	538	498
ME	52	48	58						
TR	859	897	550	228	254	73			

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		
	2014	2015	2016	2014	2015	2016
EU-28	190 715	191 002	191 342	5 681	6 197	6 438
BE	218	176	169	194	245	391
BG	1	2	3	0	0	
CZ	-	-	-	-	-	-
DK	20 411	20 609	20 598	209	184	172
DE	15 099	14 540	14 638	546	603	788
EE	6 847	7 097	7 192	8	6	6
IE	1 381	1 392	1 352	1	1	3
EL	33 057	32 640	32 392	182	188	227
ES	10 589	11 050	11 766	1 111	1 172	1 409
FR	12 816	12 557	11 823	444	463	367
HR	11 611	13 271	14 549	5	26	35
IT	34 176	32 971	31 754	1 943	2 152	1 841
CY				39	33	30
LV	442	344	377			
LT	144	150	159			
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT	4 785	4 884	5 286	47	70	56
NL	908	969	908			
AT	-	-	-	-	-	-
PL	1 113	1 217	1 305	0	0	0
PT	252	268	314	24	23	25
RO				0	0	0
SI	14	17	14			
SK	-	-	-	-	-	-
FI	9 200	9 404	9 565			
SE	14 379	14 467	14 656	31	49	53
UK	13 273	12 978	12 522	898	982	1 035
IS		368	271			
NO	3 062	3 214	3 224	10	5	12
ME	56	51	52			
TR	821	809	551	242	272	77

2.4.8 Sea – PASSENGER TRAFFIC AT MAJOR EU SEAPORTS

PASSENGERS EMBARKED AND DISEMBARKED

RANKING	1 000						%
	PORT, COUNTRY	2000	2005	2010	2015	2016	CHANGE '15/'16
1	Dover UK	16 197	13 501	13 361	13 082	12 097	-7.5
2	Helsinki FI	9 251	8 854	9 849	11 214	11 565	3.1
3	Stockholm SE	7 746	8 211	9 147	9 887	9 980	0.9
4	Tallinn EE		6 701	7 523	9 299	9 676	4.1
5	Calais FR	15 066	11 695	10 237	9 757	9 090	-6.8
6	Piraeus EL	7 289	11 076	10 944	8 169	8 038	-1.6
7	Helsingør (Elsinore) DK	13 322	11 023	8 534	7 644	7 526	-1.5
8	Helsingborg SE	13 525	11 102	8 540	7 670	7 514	-2.0
9	Paloukia Salaminas EL		11 663	12 705	7 050	6 639	-5.8
	Perama EL		11 663	12 705	7 050	6 639	-5.8
11	Palma Mallorca ES	1 864	4 817	4 496	5 496	6 431	17.0
12	Messina IT	11 898	9 802	10 765	7 021	6 139	-12.6
13	Puttgarden DE	5 430	6 760	6 261	6 141	6 024	-1.9
14	Rødby (Færgehavn) DK	5 430	6 761	6 261	6 139	6 016	-2.0
15	Napoli IT	6 748	6 084	8 356	6 484	5 993	-7.6
16	Algeciras ES	4 261	4 829	4 663	5 473	5 599	2.3
17	Reggio Calabria IT	11 839	9 645	9 891	6 053	5 569	-8.0
18	Cirkewwa MT		3 463	4 031	4 740	5 133	8.3
	Mgarr, Gozo MT		3 463	4 031	4 740	5 133	8.3
20	Santa Cruz de Tenerife ES	4 927	4 249	4 110	4 320	4 521	4.7
21	Split HR	1 952	3 267	3 523	3 992	4 258	6.7
22	Capri IT	5 404	3 860	6 517	4 355	3 859	-11.4
23	Piombino IT	3 161	3 277	3 477	3 517	3 703	5.3
24	Turku FI	3 514	3 697	3 498	3 256	3 259	0.1
25	Portoferraio IT	2 641	2 829	2 769	2 945	3 218	9.3
26	Mariehamn FI	1 885	3 192	3 302	3 043	2 998	-1.5
27	Dunkerque FR	96	813	2 533	3 198	2 916	-8.8
28	Porto D'Ischia IT	3 686	3 169	2 589	2 769	2 893	4.5
29	Rostock DE	1 767	2 417	2 195	2 863	2 833	-1.0
30	Barcelona ES	1 424	1 575	2 358	2 327	2 810	20.8
31	Sjællands Odde DK	2 283	2 310	1 777	2 690	2 780	3.3
32	Olbia IT	2 359	3 253	3 863	2 598	2 747	5.7
33	Århus DK	1 143	1 710	1 284	2 532	2 629	3.8
34	Norddeich DE	2 253	2 257	2 287	2 497	2 561	2.6
35	Hirtshals DK	1 855	1 959	2 178	2 567	2 560	-0.3
36	Igoumenitsa EL	933	2 338	2 726	2 532	2 452	-3.2
37	Genova IT	2 444	2 406	2 991	2 344	2 328	-0.7
38	Bastia FR	1 916	2 028	2 524	2 048	2 280	11.3
39	Norderney I. DE	2 015	1 990	2 093	2 162	2 227	3.0
40	Zadar - passenger port HR	1 376	1 924	2 145	1 873	2 111	12.7

Sea – FREIGHT TRAFFIC AT MAJOR EU SEAPORTS

2.4.9

TONNES LOADED AND UNLOADED

RANKING	MILLION						%
	PORT, COUNTRY	2000	2005	2010	2015	2016	
1	Rotterdam NL	302.545	345.819	395.763	436.942	431.944	-1.1
2	Antwerpen BE	116.003	145.835	160.012	190.107	198.691	4.5
3	Hamburg DE	76.950	108.253	104.520	120.173	120.323	0.1
4	Amsterdam NL	61.309	69.304	89.899	98.776	96.343	-2.5
5	Algeciras ES	38.334	55.186	58.565	79.374	83.422	5.1
6	Marseille FR	91.279	93.308	82.427	77.479	76.427	-1.4
7	Le Havre FR	63.885	70.801	65.771	62.946	60.033	-4.6
8	Valencia ES	21.958	34.990	53.075	57.557	58.321	1.3
9	Immingham UK	52.501	60.686	54.029	59.103	54.403	-8.0
10	Bremerhaven DE	24.835	33.728	45.943	49.753	52.294	5.1
11	London UK	47.892	53.843	48.062	45.430	50.380	10.9
12	Trieste IT	44.015	43.355	40.557	49.137	49.311	0.4
13	Sines PT	19.957	24.929	24.728	41.218	48.056	16.6
14	Genova IT	43.797	42.640	41.428	43.426	45.049	3.7
15	Piraeus EL	16.513	18.688	13.058	38.322	41.021	7.0
16	Göteborg UK	33.261	36.479	42.938	37.815	40.974	8.4
17	Barcelona ES	25.787	37.063	35.326	38.047	39.142	2.9
18	Constanta RO		44.377	30.396	36.277	37.521	3.4
19	Klaipeda LT		20.019	28.851	34.449	36.921	7.2
20	Dunkerque FR	44.318	48.503	36.309	36.906	36.864	-0.1
21	Southampton UK	34.773	39.947	39.365	37.660	36.046	-4.3
22	Riga LV		24.421	29.057	39.362	35.822	-9.0
23	Milford Haven UK	33.768	37.547	42.788	37.684	34.768	-7.7
24	Zeeland seaports NL				33.642	33.261	-1.1
25	Liverpool UK	30.421	33.775	30.020	31.256	31.901	2.1
26	Gdansk PL		22.478	26.421	31.685	31.566	-0.4
27	Cartagena ES	17.157	26.716	19.044	32.384	31.544	-2.6
28	Tarragona ES	27.175	30.663	32.071	32.772	31.151	-4.9
29	Bilbao ES	26.623	32.182	32.440	30.975	30.425	-1.8
30	Huelva ES	17.224	20.931	22.122	27.217	30.381	11.6
31	Gent (Ghent) BE	24.717	22.133	27.572	26.143	29.963	14.6
32	Felixstowe UK	29.686	23.144	25.756	27.971	28.202	0.8
33	Ravenna IT	22.492	24.253	22.186	25.288	27.503	8.8
34	Forth UK	41.143	34.218	34.335	27.074	27.439	1.3
35	Dover UK	17.434	21.145	24.093	27.299	27.326	0.1
36	Livorno IT	19.785	24.048	22.662	29.303	27.008	-7.8
37	Gioia Tauro IT	21.638	29.634	35.371	26.137	26.966	3.2
38	Tees & Hartlepool UK	51.472	55.790	35.697	35.849	26.873	-25.0
39	Venezia NL	26.293	30.547	26.212	25.142	25.221	0.3
40	Nantes Saint-Nazaire FR	31.263	34.043	30.582	24.878	24.842	-0.1

2.4.10a

Sea – INTRA-EU

MARITIME TRANSPORT – BY COUNTRY

(1) RELEVANCE OF INTRA-EU TRANSPORT
IN TOTAL MARITIME TRANSPORT BY EU COUNTRY 2016

	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	138.139	48.866	35.4	114.886	41.585	36.2
BG	13.114	1.132	8.6	15.570	4.939	31.7
DK	49.765	31.482	63.3	35.152	28.080	79.9
DE	175.224	71.485	40.8	121.912	54.302	44.5
EE	9.601	6.069	63.2	20.625	12.938	62.7
IE	32.715	21.827	66.7	16.813	16.164	96.1
EL	83.341	36.731	44.1	73.774	42.473	57.6
ES	253.710	93.907	37.0	197.338	63.786	32.3
FR	194.381	60.439	31.1	95.073	51.260	53.9
HR	12.072	2.616	21.7	4.390	2.117	48.2
IT	290.182	126.707	43.7	163.302	124.098	76.0
CY(**)	6.566	4.557	69.4	3.693	0.460	12.5
LV	6.225	4.652	74.7	53.202	40.551	76.2
LT	16.717	4.744	28.4	29.520	15.665	53.1
MT	3.366	2.121	63.0	0.416	0.199	47.8
NL	398.284	90.331	22.7	190.489	57.424	30.1
PL	40.793	16.736	41.0	31.746	22.432	70.7
PT	51.313	19.962	38.9	35.747	17.955	50.2
RO(**)	20.166	1.317	6.5	25.311	7.222	28.5
SI	14.074	3.369	23.9	7.097	2.546	35.9
FI	50.128	31.043	61.9	52.522	44.730	85.2
SE	93.137	66.925	71.9	78.188	66.750	85.4
UK	295.314	173.629	58.8	177.457	132.082	74.4

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 2016

	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	96.768
				2	UK	UK	62.584
BE	252.994	90.422	35.7	3	SPAIN	SPAIN	45.052
BG	28.685	6.070	21.2	4	NETHERLANDS	UK	43.954
DK	82.721	57.365	69.3	5	UK	NETHERLANDS	35.788
DE	293.636	122.287	41.6	6	GREECE	GREECE	28.650
EE	30.196	18.977	62.8	7	FRANCE	UK	21.613
IE	48.928	37.392	76.4	8	UK	FRANCE	17.666
EL	134.656	56.745	42.1	9	SWEDEN	SWEDEN	17.661
ES	424.361	131.006	30.9	10	SWEDEN	GERMANY	15.746
FR	283.907	106.155	37.4	11	BELGIUM	UK	15.518
HR	15.845	4.114	26.0	12	FINLAND	GERMANY	15.255
IT	365.766	163.086	44.6	13	FRANCE	FRANCE	14.138
CY(**)	10.258	5.017	48.9	14	DENMARK	DENMARK	13.623
LV	59.349	45.123	76.0	15	DENMARK	SWEDEN	12.474
LT	46.236	20.410	44.1	16	UK	BELGIUM	12.425
MT	3.780	2.318	61.3	17	ITALY	SPAIN	12.204
NL	588.729	147.712	25.1	18	UK	GERMANY	11.913
PL	71.583	38.209	53.4	19	UK	IRELAND	11.659
PT	80.711	31.566	39.1	20	SWEDEN	UK	11.626
RO(**)	45.478	8.541	18.8	21	GERMANY	SWEDEN	11.582
SI	21.171	5.915	27.9	22	NETHERLANDS	FRANCE	11.549
FI	98.758	71.879	72.8	23	SPAIN	ITALY	10.458
SE	166.658	129.008	77.4	24	LATVIA	NETHERLANDS	9.992
UK	436.796	269.737	61.8	25	SWEDEN	FINLAND	9.633
				26	IRELAND	UK	9.148
				27	NETHERLANDS	SPAIN	9.063
				28	SPAIN	UK	8.516
				29	GERMANY	DENMARK	7.759
				30	NETHERLANDS	SWEDEN	7.591

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, COUNTRY	2005	2010	2015	2016	CHANGE '15/'16	
1	Rotterdam NL	9 194.6	11 017.5	11 577.2	11 674.5	0.8	
2	Antwerpen BE	6 220.9	8 144.4	9 370.3	9 890.7	5.6	
3	Hamburg DE	8 084.3	7 905.5	8 847.9	8 928.6	0.9	
4	Bremerhaven DE	3 696.1	4 858.3	5 466.8	5 510.4	0.8	
5	Algeciras ES	3 183.9	2 776.9	4 515.8	4 762.1	5.5	
6	Valencia ES	2 415.2	4 211.2	4 608.7	4 693.0	1.8	
7	Felixstowe UK	2 759.7	3 415.1	4 042.7	4 015.8	-0.7	
8	Gioia Tauro IT	3 123.2	3 896.7	3 030.0	3 796.3	25.3	
9	Piraeus EL	1 401.1	850.3	3 359.6	3 735.8	11.2	
10	Le Havre FR	2 144.3	2 369.3	2 560.1	2 479.5	-3.1	
11	Genova IT	1 037.6	1 020.0	2 079.1	2 356.5	13.3	
12	Barcelona ES	2 071.4	1 928.0	1 949.7	2 224.7	14.1	
13	Southampton UK	1 384.2	1 566.5	1 956.4	2 040.0	4.3	
14	La Spezia IT	915.6	1 180.6	1 578.9	1 605.4	1.7	
15	Gdansk PL	63.3	509.9	1 041.3	1 559.2	49.7	
16	Sines PT	51.0	382.1	1 332.2	1 513.1	13.6	
17	London UK	765.1	732.7	1 184.5	1 492.4	26.0	
18	Marseille FR	910.6	1 030.9	1 255.8	1 244.1	-0.9	
19	Las Palmas ES	1 222.4	1 118.0	883.3	897.9	1.7	
20	Koper SI	210.3	481.0	802.7	845.5	5.3	
21	Göteborg SE	771.7	891.5	809.6	795.2	-1.8	
22	Liverpool UK	613.1	662.0	681.9	729.1	6.9	
23	Constanta RO	867.0	548.1	689.5	706.2	2.4	
24	Dublin IE	590.2	554.0	627.7	663.7	5.7	
25	Gdynia PL	392.9	477.0	676.4	656.7	-2.9	
26	Livorno IT	461.4	369.9	652.8	652.7	0.0	
27	Leixões PT	351.8	481.8	568.3	602.5	6.0	
28	Thessaloniki EL	372.5	289.2	591.4	598.2	1.2	
29	Bilbao ES	862.9	532.0	627.9	598.1	-4.7	
30	Trieste IT	182.7	261.1	628.0	579.1	-7.8	
31	Hamina-Kotka FI	376.5	402.4	487.4	566.6	16.3	
32	Cagliari IT	583.7	486.6	821.8	552.0	-32.8	
33	Wilhelmshaven DE	2.7	0.0	611.0	494.5	-19.1	
34	Århus DK	397.2	446.3	445.2	455.3	2.3	
35	Klaipeda LT	214.3	295.2	350.4	441.7	26.0	
36	Helsinki FI	460.2	400.7	411.1	426.7	3.8	
37	Venezia IT	196.0	237.7	476.0	395.1	-17.0	
38	Lisboa PT	512.2	512.0	482.6	392.6	-18.6	
39	Riga LV	157.8	254.6	355.4	388.0	9.2	
40	Lemesos (Limassol) CY	320.8	332.5	308.4	360.8	17.0	

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	59.0	1 %	46 %	53 %
2017	64.1	1 %	42 %	57 %

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	14 %	4 %	82 %

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

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

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
2011	10.6	3.8	29.3	20.7	64.4
2012	10.0	3.6	30.5	19.5	63.6
2013	9.3	3.5	30.1	18.8	61.7
2014	9.1	3.3	31.3	19.0	62.8
2015	8.7	3.3	32.2	19.5	63.7
2016	8.4	3.3	34.6	19.8	66.2
AVERAGE ANNUAL CHANGE					
'85/'00	9.7%	3.3%	3.9%	5.4%	5.0%
'00/'15	0.9%	6.5%	1.3%	- 2.2%	0.1%
'15/'16	- 2.9%	- 1.3%	7.6%	1.9%	4.0%

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
2006	856	326	2 268	1 529	4 979
2007	963	299	2 277	1 531	5 070
2008	973	302	2 200	1 474	4 949
2009	900	280	1 842	1 253	4 275
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

Note: Internal, import, export and transit traffic.

Road

PYRENEES CROSSING TRAFFIC

2.4.14

GOODS TRAFFIC

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

PASSENGER CAR TRAFFIC

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

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	CHANGE '15/'16	2016	2016
EU-28	3972.8	4077.4	4094.9	4144.4	1.2	82 %	18 %
BE	92.6	94.4	95.8	96.1	0.3	86 %	14 %
BG	33.5	29.3	28.6	29.5	3.3	72 %	28 %
CZ	147.7	155.1	157.3	159.4	1.4	81 %	19 %
DK	75.0	78.2	78.6	77.8	-1.1	95 %	5 %
DE	986.7	1049.2	1039.3	1076.3	3.6	76 %	24 %
EE	8.9	7.4	8.0	8.8	10.1	62 %	38 %
IE	16.0	18.3	18.2	17.4	-4.3	98 %	2 %
EL	17.7	17.0	10.8	10.0	-7.4	92 %	8 %
ES	199.4	206.0	209.1	211.4	1.1	85 %	15 %
FR	505.8	474.0	460.0	444.2	-3.4	86 %	14 %
HR	26.1	25.8	19.7	19.8	0.2	77 %	23 %
IT	373.3	356.1	366.4	369.2	0.7	88 %	12 %
CY	-	-	-	-	-	-	-
LV	18.9	16.6	17.2	15.3	-10.9	39 %	61 %
LT	14.3	14.4	14.0	14.3	2.2	42 %	58 %
LU	7.6	8.0	8.9	8.2	-8.0	94 %	6 %
HU	98.9	100.4	103.8	106.7	2.8	83 %	17 %
MT	-	-	-	-	-	-	-
NL	133.8	139.1	149.4	152.0	1.8	95 %	5 %
AT	143.9	151.8	153.4	153.7	0.2	73 %	27 %
PL	207.2	211.7	204.6	221.3	8.2	69 %	31 %
PT	37.7	40.0	37.1	36.7	-1.3	84 %	16 %
RO	94.5	86.3	79.9	80.8	1.1	79 %	21 %
SI	18.6	18.6	17.7	18.8	6.1	55 %	45 %
SK	47.3	44.0	46.0	46.7	1.5	72 %	28 %
FI	48.2	51.0	48.6	46.8	-3.6	72 %	28 %
SE	127.7	140.6	152.7	157.7	3.3	77 %	23 %
UK	491.4	544.0	569.8	565.6	-0.7	94 %	6 %
AL							
ME			1.4	1.4	2.8	76 %	24 %
MK		2.8	2.2	2.0	-9.7	77 %	23 %
RS							
TR	44.9	38.8	41.1	41.7	1.6	54 %	46 %
IS	-	-	-	-	-	-	-
NO	41.1	43.8	48.6	47.4	-2.3	86 %	14 %
CH	0.0	210.5	224.8	229.4	2.0	88 %	12 %

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	2013	2014	2015	2016	2016	2016
BE	0.20	0.00	0.00	3.26		0	
BG	2.60	0.00	0.00	0.00	0.00	0	0
CZ	0.24	5.13	6.60	5.00		5	
DK	18.00	6.50	6.70	7.00	12.00	7	
DE	8.00	11.70	12.00	13.49	15.70	26	1
EE	50.00	66.50	6.30	0.00	5.99	0	100
IE	0.00	0.00			0.00	0	100
EL	0.00	0.00	0.00	0.00	0.00	0	0
ES	0.00	0.00	0.00	0.00	0.00	0	0
FR	1.00		5.00	4.99	0.00	0	8
HR	0.00	0.00	0.00	0.00	0.00	0	0
IT	8.30		19.00	23.00	25.17	24	26
CY	-	-	-	-	-	-	-
LV	10.54	12.30	11.00	8.26	6.96	0	100
LT	0.00	0.00	0.00	0.00	0.00	0	0
LU			0.00	0.00	0.00	0	0
HU	1.80	3.20	3.20	3.45	3.47	3	5
MT	-	-	-	-	-	-	-
NL	4.80			14.90	5.00	5	
AT	5.40	12.30	11.80	12.21	11.70	7	22
PL	48.31	57.82	55.80	51.74	44.66	52	2
PT	9.00	5.90	6.80	5.41	8.28	100	0
RO	3.93	9.60	9.10			11	
SI	0.01	0.00	0.00	0.00	0.00	0	0
SK	0.03	3.76	3.74	6.00	15.34	8	97
FI	0.00	0.00	0.00	0.00	0.00	0	0
SE		36.00		33.47	35.23	60	11
UK	89.90	89.70	89.20		86.90	87	100
NO	12.00	10.00	10.00	10.70	9.10	9	0

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

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
AVERAGE ANNUAL CHANGE					
'85/'00	2.7%	2.1%	4.2%	0.9%	2.5%
'00/'15	- 0.6%	7.8%	2.5%	- 6.4%	0.8%
'15/'16	0.4%	15.8%	6.7%	- 7.8%	5.9%

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	10.1
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

	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

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
EU-28	42 176	48 269	55 111	63 107	71 122	75 820	76 823
BE	1 666	1 666	1 702	1 747	1 763	1 763	1 763
BG	273	277	319	331	437	734	740
CZ	357	414	501	564	734	776	1 223
DK	611	796	923	1 032	1 130	1 237	1 255
DE	10 854	11 190	11 712	12 363	12 819	12 993	12 996
EE	41	65	93	99	115	147	145
IE	26	70	103	247	900	916	916
EL	190	421	615	917	1 558	1 589	1 843
ES	4 976	6 962	9 049	11 432	14 262	15 336	15 444
FR	6 824	8 275	9 766	10 798	11 392	11 599	11 612
HR	291	302	411	1 016	1 244	1 310	1 310
IT	6 193	6 435	6 478	6 542	6 668	6 943	6 943
CY	120	167	257	276	257	272	272
LV	-	-	-	-	-	-	-
LT	421	394	417	417	309	309	314
LU	78	123	114	147	152	161	161
HU	267	335	448	859	1 477	1 884	1 924
MT	-	-	-	-	-	-	-
NL	2 092	2 208	2 265	2 600	2 651	2 756	2 758
AT	1 445	1 596	1 633	1 677	1 719	1 719	1 743
PL	257	246	358	552	857	1 559	1 640
PT	316	687	1 482	2 341	2 737	3 065	3 065
RO	113	113	113	228	332	747	747
SI	228	293	427	569	771	773	773
SK	192	198	296	328	416	463	463
FI	225	394	549	693	779	881	890
SE	939	1 262	1 499	1 700	1 971	2 119	2 118
UK	3 181	3 380	3 581	3 633	3 672	3 768	3 764
AL							
ME	-	-	-	-	-	-	-
MK	83			216	251	259	259
RS				603	603	603	610
TR	281			1 667	2 080	2 282	2 542
IS	-	-	-	11	11	11	11
NO	73	107	144	264	381	392	392
CH	1 148	1 197	1 270	1 358	1 406	1 440	1 447

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 2016) (*)				
	Motorways	Main or national roads	Secondary or regional roads	Other roads (**)
BE	1 763	13 229	1 349	138 869
BG	740	2 983	4 028	12 515
CZ	1 223	5 807	48 727	74 919
DK	1 255	2 598	70 705	
DE	12 996	38 068	178 906	
EE	145	3 869	12 580	42 342
IE	916	4 390	13 120	80 472
EL	1 843	9 299	30 864	75 600
ES	15 444	14 946	135 094	501 053
FR	11 612	9 585	381 319	700 849
HR	1 310	6 937	9 504	9 003
IT	6 943	21 686	155 668	74 719
CY	272	2 219	2 313	5 066
LV	-	1 672	5 467	60 903
LT	314	6 362	14 568	50 664
LU	161	837	1 891	
HU	1 924	30 062		174 599
MT	-		2 855	
NL	2 758	2 599	7 757	126 180
AT	1 743	10 939	23 724	100 633
PL	1 640	17 748	153 865	246 983
PT	3 065	6 457	4 791	
RO	747	16 865	35 361	33 107
SI	773	5 762	13 364	18 879
SK	463	3 580	13 974	38 895
FI	890	12 575	13 451	51 065
SE	2 118	13 576	156 920	42 291
UK	3 764	49 110	33 191	336 244
AL				
ME	-		7 811	
MK	259	640	3 778	9 733
RS	610	4 034	11 392	29 374
TR	2 542	31 106	33 513	175 429
IS	11	4 919	2 950	5 010
NO	392	10 695	44 541	39 406
CH	1 447	393	17 854	51 846

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

(**) 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							km	%
	1990	1995	2000	2005	2010	2015	2016	OF WHICH: ELECTRIFIED 2016	
EU-28	237 671	229 436	222 708	216 708	220 022	217 605	217 081	116 593	53.7
BE	3 479	3 368	3 471	3 544	3 582	3 607	3 607	3 102	86.0
BG	4 299	4 294	4 320	4 154	4 097	4 019	4 029	2 868	71.2
CZ		9 430	9 444	9 614	9 468	9 466	9 463	3 217	34.0
DK	2 838	2 863	2 787	2 646	2 606	2 552	2 539	621	24.5
DE	40 981	41 718	36 588	34 221	37 679	38 828	38 990	20 585	52.8
EE	1 026	1 021	968	968	919	918	918	132	14.4
IE	1 944	1 954	1 919	1 919	1 894	1 894	1 894	52	2.7
EL	2 484	2 474	2 385	2 576	2 552	2 239	2 240	520	23.2
ES	14 539	14 308	14 347	15 015	15 837	16 056	15 922	10 138	63.7
FR	34 070	31 940	31 397	30 871	30 335	28 808	28 364	16 097	56.8
HR	2 429	2 296	2 726	2 726	2 722	2 604	2 605	970	37.2
IT	16 066	16 003	16 187	16 545	17 022	17 041	17 096	12 218	71.5
CY	-	-	-	-	-	-	-	-	-
LV	2 397	2 413	2 331	2 270	1 897	1 859	1 860	251	13.5
LT	2 007	2 002	1 905	1 771	1 767	1 877	1 911	122	6.4
LU	271	275	274	275	275	275	275	262	95.3
HU	7 838	7 714	8 005	7 950	7 893	7 894	7 749	3 090	39.9
MT	-	-	-	-	-	-	-	-	-
NL	2 798	2 739	2 802	2 810	3 013	3 031	3 058	2 314	75.7
AT	5 624	5 672	5 665	5 691	5 039	4 937	4 917	3 537	71.9
PL	26 228	23 986	22 560	19 507	19 702	18 510	18 429	11 786	64.0
PT	3 064	2 850	2 814	2 844	2 842	2 545	2 553	1 657	64.9
RO	11 348	11 376	11 015	10 948	10 777	10 770	10 766	4 030	37.4
SI	1 196	1 201	1 201	1 228	1 228	1 209	1 209	500	41.4
SK	3 660	3 665	3 662	3 658	3 622	3 626	3 626	1 587	43.8
FI	5 867	5 880	5 854	5 732	5 919	5 923	5 926	3 270	55.2
SE	11 193	10 925	11 037	11 017	11 160	10 908	10 882	8 184	75.2
UK	16 914	17 069	17 044	16 208	16 175	16 209	16 253	5 483	33.7
AL					423	423	423	0	0.0
ME				248	249	250	251	224	89.3
MK	696	699	699	699	699	699	683	234	34.3
RS				3 809	3 809	3 739	3 739	1 279	34.2
TR	8 429	8 549	8 671	8 697	9 594	10 131	10 131	3 856	38.1
IS	-	-	-	-	-	-	-	-	-
NO	4 044	4 023	4 179	4 114	3 958	3 896	3 895	2 459	63.1
CH	3 215	3 232	3 216	3 399	3 597	3 592	3 650	3 650	100.0

Notes: DE: includes DE-E: 1990=14 031.

CS: 1990: 13 111. These are included in EU-28 totals.

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	120	-	-	113	6 348
2011	209	1 334	2 117	2 058	856	120	-	-	113	6 807
2012	209	1 352	2 117	2 058	856	120	-	-	113	6 825
2013	209	1 352	2 413	2 058	856	120	50	-	113	7 171
2014	209	1 352	2 413	2 058	856	120	50	-	113	7 171
2015	209	1 475	2 413	2 058	856	120	50	224	113	7 518
2016	209	1 475	2 413	2 180	896	120	50	224	113	7 680
2017	209	1 658	2 413	2 734	896	120	67	224	113	8 434

Note: Length of lines or of sections of lines on which trains 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	56	2018
DE	Offenburg - Riegel (Basel)	39	2029
DE	Stuttgart - Wendlingen	57	2021
DE	Buggingen - Katzenberg tunnel (Basel)	12	2021
DE	Wendlingen - Ulm	60	2021
DE	Tunnel Rastatt	17	2022
ES	Monforte del Cid - Murcia	62	2018
ES	Vitoria - Bilbao - San Sebastian	175	2022
ES	León - Asturias Variante de Pajares	50	2019
ES	Bobadilla - Granada	109	2018
ES	Plasencia -Cacere / Badajoz	193	2019
ES	Venta de Banos - Burgos	91	2018
ES	Zamora - Orense	224	2019
FR	Counterneement Nimes - Montpellier	80	2018
IT	Genoa - Milan (Tortona)	53	2020
AT	Graz-Klagenfurt (Koralmbahn)	122	2025
AT	Brenner-Basis-Tunnel	46	2027
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 2.5.5 AND ELECTRIC CURRENT USED

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

Notes: 1 435 mm = standard gauge.

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

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

2.5.6

Air

NUMBER OF AIRPORTS

BY NUMBER OF PASSENGERS CARRIED (*) IN 2016

	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	41	28	95	29	102	34
BE	1	1			3	
BG			3			
CZ	1				2	2
DK	1		2		4	1
DE	8	1	8	3	5	
EE			1			
IE	1		2	1	1	
EL	1	2	7	1	10	13
ES	7	4	10	6	4	1
FR	3	4	11	5	20	1
HR			3	1	1	
IT	3	7	13	2	7	
CY		1	1			
LV		1				
LT			1	1	1	
LU			1			
HU	1				1	
MT		1				
NL	1		2		2	
AT	1		2	1	2	
PL	1		6	1	4	
PT	1	2	2		4	4
RO	1		2	1	3	
SI			1			
SK			1		1	
FI	1		1		8	7
SE	1	1	5		11	
UK	7	3	10	6	8	5
AL			1			
ME				2		
MK			1			
RS			1			
TR	5	1	12	8	15	10
IS		1				
NO	1	1	8	3	10	6
CH	2	1			2	1

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
EU-28		38 611	40 811	41 848	41 788	41 935	41 895
BE	1 515	1 540	1 534	1 516	1 516	1 516	1 516
BG	470	470	470	470	470	470	470
CZ		677	664	664	676	720	720
DK	-	-	-	-	-	-	-
DE	4 350	6 663	6 754	7 565	7 728	7 675	7 675
EE		520	320	320	335	416	416
IE	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-
FR	6 197	5 962	5 789	5 788	5 110	4 822	4 733
HR	933	933	720	804	805	1 017	1 017
IT	1 366	1 466	1 477	1 562	1 562	1 562	1 562
CY	-	-	-	-	-	-	-
LV	-	-	-	-	-	-	-
LT	369	369	380	290	448	446	485
LU	37	37	37	37	37	37	37
HU	1 373	1 373	1 373	1 587	1 864	1 864	1 864
MT	-	-	-	-	-	-	-
NL	5 046	5 046	6 183	6 211	6 219	6 256	6 257
AT	351	351	351	351	351	351	351
PL	3 997	3 980	3 813	3 638	3 659	3 655	3 655
PT	-	-	-	-	-	-	-
RO	1 782	1 779	1 779	1 779	1 779	1 779	1 779
SI	-	-	-	-	-	-	-
SK	2 379	172	172	172	172	172	172
FI	6 072	6 120	7 842	8 029	8 006	8 127	8 136
SE	-	-	-	-	-	-	-
UK	1 631	1 153	1 153	1 065	1 050	1 050	1 050
AL	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-
RS					1 364	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
EU-28		31 967	34 532	35 839	36 979	36 017	36 006
BE	301	294	294	294	294	294	294
BG	578	578	578	578	578	570	570
CZ		581	675	675	674	642	642
DK	444	330	330	330	330	330	330
DE	2 222	2 460	2 370	2 370	2 370	2 370	2 370
EE	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-
EL	-	-	-	267	267	267	267
ES	2 678	3 691	3 780	3 833	4 365	4 736	4 736
FR	4 948	4 983	5 746	5 746	6 293	7 142	7 142
HR	865	601	601	610	610	610	610
IT	4 086	4 235	4 346	4 328	4 291	4 022	4 012
CY	-	-	-	-	-	-	-
LV	766	766	766	860	417	417	417
LT		400	500	500	500	500	500
LU	-	-	-	-	-	-	-
HU	2 574	2 071	2 061	2 032	2 209	2 215	2 215
MT	-	-	-	-	-	-	-
NL	391	391	391	391	391	391	391
AT	777	777	777	777	1 214	1 214	1 214
PL	2 039	2 278	2 278	2 278	2 362	2 483	2 483
PT	-	-	147	147	147	147	147
RO	3 694	3 546	4 423	4 807	4 711	2 715	2 714
SI	-	-	-	-	-	-	-
SK		515	515	515	510	506	506
FI	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-
UK	2 462	3 470	3 954	4 501	4 446	4 446	4 446
AL	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-
MK				155	144	217	217
RS					374	279	279
TR		1 126	2 112	3 065	3 038	3 053	3 053
IS	-	-	-	-	-	-	-
NO		3 701	7 908	1 189	1 260	1 245	1 288
CH	239	239	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, 1991 = 1 090, 1992 = 1 083 km

Road MOTORISATION

2.6.1

NUMBER OF PASSENGER CARS PER 1 000 INHABITANTS								%
	1990	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28	342	377	414	446	480	499	507	1.6
BE	387	421	456	468	480	501	505	0.9
BG	152	196	245	333	353	442	443	0.1
CZ	234	295	336	387	429	485	502	3.5
DK	309	320	347	362	389	419	429	2.4
DE	461	495	475	493	527	548	555	1.2
EE	154	269	333	366	416	514	534	3.9
IE	228	276	348	400	416	425	428	0.8
EL	169	208	295	391	469	479	486	1.6
ES	309	360	429	460	475	481	492	2.1
FR	464	468	489	482	503	484	479	-1.2
HR	121	155	262	321	353	358	374	4.4
IT	483	533	572	597	619	616	625	1.5
CY	304	335	384	477	551	575	595	3.4
LV	106	134	237	333	307	345	341	-1.2
LT	133	199	336	442	554	431	456	5.9
LU	477	556	622	655	659	661	662	0.1
HU	187	218	232	287	299	325	338	4.0
MT	337	487	483	525	581	611	615	0.6
NL	367	364	409	434	464	477	481	0.9
AT	388	452	511	504	530	546	550	0.7
PL	138	195	261	323	453	546	571	4.6
PT	185	255	333	400	444	457	470	3.0
RO	56	97	124	158	214	261	279	6.8
SI	294	357	435	479	518	523	531	1.6
SK	166	189	237	243	310	375	390	4.1
FI	388	371	412	462	535	594	608	2.4
SE	419	411	450	459	460	474	477	0.6
UK	361	378	425	467	465	477	484	1.3
AL	0	18	37	62	104	140	152	8.4
ME					266	283	310	9.8
MK	0	145	148	124	151	185	190	2.8
RS				200	216	259	268	3.4
TR	0	49	68	84	102	134	142	5.4
IS	468	445	561	625	643	681	711	4.4
NO	380	386	411	437	469	501	506	1.2
CH	442	457	492	518	518	535	537	0.4
LI	582	609	663	699	744	766	773	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	CHANGE '15/'16
EU-28	163 628	182 462	201 993	221 608	241 658	254 744	259 487	1.9
BE	3 864	4 273	4 678	4 919	5 276	5 662	5 731	1.2
BG	1 317	1 648	1 993	2 538	2 602	3 162	3 144	-0.6
CZ	2 410	3 043	3 439	3 959	4 496	5 115	5 308	3.8
DK	1 590	1 679	1 854	1 965	2 164	2 391	2 466	3.1
DE	36 772	40 499	39 059	40 660	42 302	45 071	45 804	1.6
EE	241	383	464	494	553	677	703	3.9
IE	801	998	1 333	1 684	1 899	2 007	2 049	2.1
EL	1 736	2 205	3 195	4 303	5 217	5 160	5 236	1.5
ES	11 996	14 212	17 449	20 250	22 147	22 356	22 877	2.3
FR	27 072	27 872	29 808	30 497	32 676	32 325	32 074	-0.8
HR	580	711	1 125	1 385	1 515	1 500	1 553	3.5
IT	27 416	30 301	32 584	34 667	36 751	37 351	37 876	1.4
CY	179	220	268	355	463	488	508	4.2
LV	283	332	557	742	637	679	664	-2.2
LT	493	718	1 172	1 455	1 692	1 244	1 299	4.4
LU	183	229	273	307	337	381	391	2.6
HU	1 944	2 245	2 365	2 889	2 984	3 197	3 313	3.6
MT	120	181	189	213	241	275	283	2.8
NL	5 509	5 633	6 539	7 092	7 736	8 101	8 223	1.5
AT	2 991	3 594	4 097	4 157	4 441	4 748	4 822	1.5
PL	5 261	7 517	9 991	12 339	17 240	20 723	21 675	4.6
PT	1 849	2 560	3 443	4 200	4 692	4 723	4 850	2.7
RO	1 292	2 197	2 778	3 364	4 320	5 155	5 472	6.2
SI	587	711	866	960	1 062	1 079	1 097	1.6
SK	880	1 016	1 274	1 304	1 669	2 035	2 122	4.3
FI	1 939	1 901	2 135	2 430	2 877	3 258	3 346	2.7
SE	3 601	3 631	3 999	4 154	4 335	4 669	4 768	2.1
UK	20 722	21 951	25 067	28 326	29 334	31 214	31 834	2.0
AL		59	115	195	295	404	436	8.0
ME					165	176	193	9.9
MK		286	300	253	310	384	395	2.9
RS				1 481	1 566	1 835	1 888	2.9
TR		3 059	4 422	5 773	7 545	10 589	11 318	6.9
IS	120	119	159	187	205	226	240	6.3
NO	1 613	1 685	1 852	2 029	2 309	2 610	2 663	2.0
CH	2 985	3 229	3 545	3 861	4 076	4 458	4 524	1.5
LI	17	19	22	24	27	28	29	1.5

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	CHANGE '15/'16
EU-28	740.3	754.0	781.5	795.2	819.2	840.2	849.6	1.1
BE	15.6	14.6	14.7	15.4	16.2	17.1	16.0	-6.4
BG	34.6	41.8	43.0	37.8	24.5	24.1	23.4	-2.9
CZ	20.5	20.5	19.0	20.9	20.4	20.7	20.9	1.0
DK	8.1	13.7	14.0	14.4	14.5	13.4	13.4	0.3
DE	100.4	85.4	77.2	75.2	76.5	78.3	78.9	0.8
EE	7.9	7.0	6.1	5.2	4.2	4.8	4.8	0.0
IE	4.0	5.3	7.0	7.6	8.2	9.3	9.8	6.3
EL	21.4	24.6	27.0	26.8	27.3	26.5	26.5	-0.2
ES	45.8	47.4	54.7	58.2	62.4	60.3	61.8	2.6
FR	70.0	79.0	85.7	90.1	91.5	99.0	100.3	1.3
HR	5.8	3.9	4.7	4.9	4.9	5.3	5.5	4.5
IT	77.7	75.0	88.0	94.4	99.9	98.0	97.8	-0.2
CY	2.3	2.7	2.9	3.2	3.4	2.7	2.8	4.8
LV	12.1	16.5	11.5	10.6	5.4	4.8	4.7	-2.1
LT	15.2	17.6	15.5	15.3	13.7	6.9	6.9	1.0
LU	0.8	0.9	1.1	1.3	1.6	1.9	1.9	2.5
HU	26.4	20.5	17.9	17.5	17.6	18.1	18.5	1.9
MT	1.0	1.0	1.1	1.1	1.8	2.0	2.0	2.3
NL	12.1	11.6	11.4	11.0	11.3	9.4	9.8	4.4
AT	9.4	9.8	9.9	9.3	9.6	9.7	9.8	1.5
PL	92.4	85.4	82.6	79.6	97.0	109.8	113.1	3.0
PT	12.1	15.0	19.8	14.7	15.4	14.7	14.9	0.9
RO	28.3	42.0	40.7	39.3	40.9	47.3	48.8	3.1
SI	3.1	2.5	2.3	2.3	2.4	2.6	2.7	1.8
SK	14.3	11.8	10.9	9.1	9.4	9.3	9.1	-1.9
FI	9.3	8.1	9.9	10.9	13.7	16.9	17.5	4.0
SE	14.6	14.6	14.4	13.5	13.9	14.1	13.9	-1.6
UK	75.0	75.9	88.6	105.6	111.5	113.3	113.9	0.5
AL		6.7	16.8	29.5	7.0	6.4	7.1	9.8
ME						1.3	1.4	8.6
MK	2.3	2.5	2.5	2.3	2.7	3.2	3.2	-0.4
RS				9.7	8.0	9.5	9.6	1.5
TR	188.1	263.2	354.3	501.9	595.5	666.3	684.3	2.7
IS	1.3	1.3	1.7	1.9	1.9	2.5	2.9	16.2
NO	21.2	32.5	36.7	28.8	20.3	16.7	16.3	-2.5
CH	31.2	36.5	40.3	45.8	52.8	65.7	69.7	6.0
LI			0.1	0.1	0.1	0.1	0.1	-4.9

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	CHANGE '15/'16
EU-28		22 862.2	26 957.1	30 941.7	35 205.4	36 888.6	37 626.7	2.0
BE	380.4	442.5	588.8	662.3	744.8	838.1	859.8	2.6
BG	161.6	223.2	259.4	333.9	333.5	444.4	456.8	2.8
CZ		219.3	298.3	439.2	598.0	652.1	672.2	3.1
DK	286.6	333.8	384.9	469.5	485.1	437.1	439.0	0.4
DE	1 653.0	2 378.7	2 419.1	2 404.9	2 619.4	2 995.2	3 113.9	4.0
EE	67.7	65.6	82.1	86.2	81.2	101.8	108.2	6.3
IE	143.2	141.8	205.6	286.5	327.1	330.5	342.3	3.5
EL	766.4	883.8	1 057.4	1 186.5	1 318.8	1 332.8	1 343.8	0.8
ES	2 401.1	3 024.2	3 923.2	4 849.6	5 303.5	5 047.2	5 087.4	0.8
FR	4 840.0	5 116.0	5 151.7	5 346.7	6 704.6	6 791.6	6 739.6	-0.8
HR		73.5	122.5	162.9	157.7	149.0	156.7	5.1
IT	2 207.9	2 509.9	3 087.0	3 785.9	4 141.8	4 097.8	4 180.8	2.0
CY	74.3	101.2	114.7	118.4	120.7	103.8	106.3	2.4
LV		68.7	97.1	113.1	71.6	86.0	84.1	-2.2
LT	83.0	108.9	98.6	122.5	133.9	102.9	109.4	6.3
LU	11.3	15.8	24.7	29.6	35.6	39.6	41.2	4.2
HU	262.0	278.0	352.6	412.9	451.3	496.2	517.1	4.2
MT		40.8	51.5	44.4	42.5	44.4	45.3	2.1
NL	553.0	654.0	899.0	1 004.5	1 004.0	963.1	989.0	2.7
AT	261.8	302.9	344.5	358.0	396.8	444.0	457.2	3.0
PL		1 354.1	1 879.1	2 304.5	2 981.6	3 428.0	3 542.3	3.3
PT	781.0	912.3	1 313.2	1 308.0	1 337.0	1 313.2	1 310.5	-0.2
RO	258.7	343.1	427.2	493.8	667.2	856.3	912.8	6.6
SI	30.8	42.9	54.3	66.4	84.1	91.3	96.9	6.2
SK	92.0	102.6	114.0	174.2	276.0	302.9	309.3	2.1
FI	264.2	252.0	304.3	363.6	464.4	560.9	582.1	3.8
SE	309.5	307.7	374.2	461.2	526.4	596.2	616.2	3.3
UK	2 706.0	2 565.0	2 928.3	3 552.4	3 796.9	4 242.2	4 406.8	3.9
AL		29.1	45.6	47.3	83.7	71.0	75.0	5.6
ME						14.3	16.5	15.4
MK		22.6	24.6	18.0	33.3	38.7	40.3	4.2
RS				118.3	151.7	139.9	140.1	0.2
TR		830.0	1 351.8	2 152.0	3 125.4	4 059.6	4 267.8	5.1
IS	13.1	14.8	19.4	25.5	30.4	33.0	35.6	7.7
NO	308.3	349.5	414.3	465.4	527.0	554.1	559.4	1.0
CH	252.1	262.4	278.5	307.2	335.2	393.6	405.6	3.0
LI			2.5	2.6	2.8	3.2	3.3	3.2

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	CHANGE '15/'16
EU-28		23 389.2	29 831.9	32 356.7	33 512.2	33 788.9	0.8
BE		277.8	346.3	412.9	461.8	471.8	2.2
BG	519.3	520.5	146.5	125.4	163.3	171.7	5.1
CZ	915.2	748.1	794.0	924.3	1 046.5	1 074.9	2.7
DK	58.0	138.3	171.9	203.6	198.0	199.4	0.7
DE	3 995.5	4 438.1	5 202.9	3 827.9	4 228.2	4 314.5	2.0
EE	3.3	6.7	10.2	19.7	45.5	48.8	7.3
IE	23.5	30.6	34.3	38.1	37.0	38.0	2.8
EL		781.4	1 124.2	1 499.1	1 653.5	1 656.7	0.2
ES	1 301.2	1 445.6	4 117.6	4 997.7	5 102.7	5 199.0	1.9
FR	2 289.0	2 410.0	2 475.3	3 561.0	2 694.2	2 357.3	-12.5
HR	9.9	21.9	128.4	176.8	151.3	152.9	1.1
IT	6 228.3	7 826.9	9 298.4	8 855.0	8 965.6	9 083.7	1.3
CY	50.4	43.3	40.4	40.7	39.3	39.2	-0.1
LV	15.8	20.7	32.5	36.7	49.3	49.6	0.6
LT	20.0	19.8	24.0	56.3	37.8	39.7	5.2
LU	28.4	32.8	37.7	42.1	28.3	29.3	3.5
HU		91.2	122.7	142.3	162.8	162.1	-0.4
MT	17.4	12.4	12.0	14.7	19.2	22.3	16.0
NL	855.0	970.8	1 112.9	1 664.3	1 803.4	1 834.3	1.7
AT	546.4	632.7	627.7	727.9	799.9	816.5	2.1
PL	929.0	803.0	1 091.2	1 935.1	2 531.5	2 647.8	4.6
PT	216.3	345.9	588.4	498.0	524.5	550.1	4.9
RO	327.7	239.2	197.4	85.2	112.9	119.5	5.9
SI	8.5	11.2	48.7	91.0	100.3	103.7	3.4
SK	81.8	45.6	56.4	59.6	88.7	95.3	7.5
FI	159.5	193.4	301.8	486.8	581.1	591.8	1.8
SE	264.2	310.1	453.1	570.2	632.6	649.0	2.6
UK	714.0	971.0	1 235.0	1 264.4	1 253.1	1 270.2	1.4
AL	6.9	3.8	7.2	24.0	33.1	36.1	9.2
ME					4.2	4.7	12.9
MK			1.7	7.8	10.1	11.7	16.4
RS			16.0	37.9	64.2	64.4	0.2
TR	819.9	1 011.3	1 441.1	2 389.5	2 938.4	3 003.7	2.2
IS	1.9	2.3	4.2	9.7	10.4	10.6	1.7
NO	158.6	201.6	257.5	315.5	354.3	362.4	2.3
CH	688.5	712.7	748.0	790.8	871.3	896.4	2.9
LI		2.6	3.1	3.7	4.3	4.4	4.2

Notes: 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 2011 in EE. 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	CHANGE '16/'17
EU-28		15 194.3	13 438.2	13 713.4	14 650.0	15 135.6	3.3
BE	515.2	480.1	547.3	501.1	539.3	546.6	1.3
BG		32.7	15.6	24.3	28.2	33.8	19.8
CZ		151.7	169.6	230.9	259.7	271.6	4.6
DK	112.7	146.9	153.6	207.0	222.9	221.6	-0.6
DE	3 378.3	3 319.3	2 916.3	3 206.0	3 351.6	3 441.3	2.7
EE		19.6	10.3	21.0	23.0	25.6	11.4
IE	230.8	171.7	88.4	124.8	146.7	131.4	-10.4
EL	290.2	269.7	141.5	75.8	78.9	88.1	11.7
ES	1 381.3	1 528.9	982.0	1 034.2	1 147.0	1 234.9	7.7
FR	2 133.9	2 067.8	2 251.7	1 917.2	2 015.2	2 110.7	4.7
HR	92.4	102.1	46.2	35.7	44.1	50.8	15.1
IT	2 423.1	2 237.4	1 961.6	1 569.1	1 825.9	1 970.5	7.9
CY	8.2	19.2	15.1	10.1	12.5	13.1	5.2
LV		16.6	6.4	13.8	16.4	16.7	2.1
LT		10.5	8.0	17.1	20.3	25.8	27.4
LU	41.9	48.5	49.7	46.5	50.7	52.8	4.0
HU		199.0	43.5	77.2	96.6	116.3	20.4
MT		6.6	4.1	7.1	7.3	7.8	6.4
NL	597.6	465.2	482.6	448.9	382.8	414.5	8.3
AT	309.4	307.9	328.6	308.6	329.6	353.3	7.2
PL		235.5	333.5	352.4	418.0	484.2	15.8
PT	257.8	206.5	223.5	178.5	207.3	222.1	7.1
RO ⁽¹⁾		172.5	106.3	81.2	94.9	105.1	10.7
SI		59.3	61.1	59.7	59.0	62.5	6.1
SK		57.1	64.0	78.0	88.2	96.0	8.9
FI	134.6	147.9	107.3	108.8	118.9	118.5	-0.3
SE	290.5	274.3	289.7	345.1	372.3	379.4	1.9
UK	2 221.7	2 439.7	2 030.8	2 633.5	2 692.8	2 540.6	-5.7
AL							
ME			8.6	13.7	15.9	18.6	16.6
MK		15.9	49.3	29.3	30.4	26.6	-12.5
RS				112.6	136.3	130.8	-4.0
TR		406.8	485.6	746.4	746.1	741.9	-0.6
IS	13.6	18.1	3.1	14.0	18.5	21.3	15.4
NO	97.4	109.9	127.8	150.7	154.6	158.7	2.6
CH	316.5	264.9	292.5	321.7	315.5	312.2	-1.1

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

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

2016 figures are provisional.

Road

GOODS VEHICLES

2.6.7

NEW VEHICLE REGISTRATIONS

LIGHT COMMERCIAL		COMMERCIAL VEHICLES		HEAVY COMMERCIAL					
<3.5 t		>3.5 t & <16 t		>16 t		TOTAL		%	
								CHANGE '16/'17	
	2016	2017	2016	2017	2016	2017	2016	2017	
EU-28	1937 065	2 008 138					2306710	2 377 705	3.1
BE	71 011	79 427	2 529	2 673	8 257	8 631	81 797	90 731	10.9
BG	12 591	13 357	(¹)	(¹)	(¹)	(¹)	12 591	13 357	6.1
CZ	19 236	19 396	1 635	1 532	10 227	8 538	31 098	29 466	-5.2
DK	36 624	35 888	506	478	4 593	4 549	41 723	40 915	-1.9
DE	258 118	270 730	27 182	25 292	65 277	66 428	350 577	362 450	3.4
EE	4 353	4 781	39	44	839	1 004	5 231	5 829	11.4
IE	27 537	23 916	937	558	2 103	1 882	30 577	26 356	-13.8
EL	5 623	6 579	116	204	205	220	5 944	7 003	17.8
ES	172 191	198 896	3 759	3 868	21 089	21 008	197 039	223 772	13.6
FR	408 546	437 415	6 556	6 856	41 600	44 452	456 702	488 723	7.0
HR	8 316	8 500	268	273	1 057	1 040	9 641	9 813	1.8
IT	200 434	191 944	5 143	4 351	18 645	19 258	224 222	215 553	-3.9
CY	1 764	1 990	58	74	12	29	1 834	2 093	14.1
LV	2 218	2 245	57	48	1 531	1 510	3 806	3 803	-0.1
LT	2 791	3 227	113	134	5 891	6 862	8 795	10 223	16.2
LU	4 549	4 861	153	161	1 135	1 116	5 837	6 138	5.2
HU	21 335	19 943	475	674	5 038	5 178	26 848	25 795	-3.9
MT	742	738	(¹)	(¹)	(¹)	(¹)	742	738	-0.5
NL	70 061	73 116	1 765	1 621	13 953	13 382	85 779	88 119	2.7
AT	35 906	40 158	842	804	7 150	7 398	43 898	48 360	10.2
PL	56 686	57 322	2 120	2 078	24 493	24 813	83 299	84 213	1.1
PT	34 890	38 506	596	826	4 232	4 655	39 718	43 987	10.7
RO	14 372	16 098	402	325	7 630	6 028	22 404	22 451	0.2
SI	7 738	8 688	184	150	2 208	2 196	10 130	11 034	8.9
SK	7 459	7 689	461	492	4 022	3 774	11 942	11 955	0.1
FI	13 678	15 689	642	511	2 598	2 869	16 918	19 069	12.7
SE	51 647	55 381	560	470	5 960	6 291	58 167	62 142	6.8
UK	386 649	371 658	52 802	51 959	(²)	(²)	439 451	423 617	-3.6
IS	1 628	2 041	132	186	176	207	1 936	2 434	25.7
NO	36 002	35 847	1 610	1 766	4 378	4 470	41 990	42 083	0.2
CH	33 475	36 386	1 144	1 036	3 351	3 888	37 970	41 310	8.8

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				
<3.5 t			>3.5 t & <16 t		>16 t		TOTAL		%
									CHANGE '16/'17
2016	2017		2016	2017	2016	2017	2016	2017	
EU-28							42 187	41 749	-1.0
BE	0	1	260	311	454	557	714	869	21.7
BG	506	400	(1)	(1)	(1)	(1)	506	400	-21.0
CZ	2	0	151	145	850	571	1 003	716	-28.6
DK	539	774	309	421	157	215	1 005	1 410	40.3
DE	11	9	1 097	1 264	5 575	5 424	6 683	6 697	0.2
EE	0	0	112	58	59	154	171	212	24.0
IE	26	37	136	145	337	259	499	441	-11.6
EL	87	72	28	75	75	33	190	180	-5.3
ES	0	0	848	887	2 452	2 640	3 300	3 527	6.9
FR	0	0	1 424	1 161	5 169	5 168	6 593	6 329	-4.0
HR	0	0	59	67	123	133	182	200	9.9
IT	40	21	1 270	1 223	1 671	1 938	2 981	3 182	6.7
CY	55	47	(1)	(1)	(1)	(1)	55	47	-14.5
LV	0	0	138	95	43	109	181	204	12.7
LT	0	0	213	299	50	93	263	392	49.0
LU	0	0	25	27	180	212	205	239	16.6
HU	4	1	117	159	290	483	411	643	56.4
MT	32	18	33	28	0	3	65	49	-24.6
NL	0	0	221	128	619	760	840	888	5.7
AT	2	0	135	123	906	1 121	1 043	1 244	19.3
PL	3	0	1 133	1 058			1 136	1 058	-6.9
PT	0	0	139	132	211	222	350	354	1.1
RO	12	1	1 007	887	106	121	1 125	1 009	-10.3
SI	1	0	61	48	127	130	189	178	-5.8
SK	0	0	58	30	282	388	340	418	22.9
FI	6	8	315	308	264	198	585	514	-12.1
SE	3	0	333	376	997	925	1 333	1 301	-2.4
UK	10 240	9 049	(1)	(1)	(1)	(1)	10 240	9 049	-11.6
IS	141	107	19	9	85	36	85	36	-57.6
NO	73	71	342	522	983	597	983	597	-39.3
CH	175	142	187	153	506	521	506	521	3.0

Note: ⁽¹⁾ Figures included in other categories.

Road MOTORCYCLES

2.6.9

NEW VEHICLE REGISTRATIONS

	1 000						%
	1995	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28			1 337.1	1 078.9	894.9	1 014.9	13.4
BE		25.3	25.0	26.4	21.6	23.6	9.5
BG		1.2	0.6	0.9	0.8	0.8	0.5
CZ	6.9	3.9	7.6	5.4	13.4	14.1	4.9
DK	2.3	3.3	5.8	3.1	2.4	3.1	29.9
DE	218.2	252.6	168.7	122.3	151.7	174.6	15.1
EE		0.1	0.3	0.5	0.5	0.6	24.5
IE		3.8	2.4	1.1	1.0	1.5	43.8
EL		64.0	83.1	61.5	32.5	38.6	19.0
ES		72.0	205.6	134.3	132.5	155.0	16.9
FR		179.6	196.6	231.6	153.2	163.3	6.6
HR			6.7	2.9	1.5	1.8	19.9
IT		524.6	420.5	306.3	172.1	195.4	13.6
CY			2.5	3.1	1.7	2.0	19.3
LV			0.4	0.3	0.6	0.6	7.9
LT		0.4	1.7	0.2	0.3	0.4	32.7
LU	1.0	1.3	1.3	1.6	1.7	1.8	7.8
HU			12.5	3.2	2.1	2.2	5.3
MT			0.4	0.6	1.3	2.5	90.4
NL	17.8	19.6	16.8	15.2	11.7	12.9	10.1
AT	18.7	23.8	19.1	21.4	24.9	29.8	19.6
PL			3.8	8.7	23.9	25.8	8.2
PT	12.1	17.7	11.2	18.9	17.6	19.8	12.2
RO			0.8	0.6	0.6	1.0	46.9
SI		1.2	2.5	2.7	1.9	2.1	11.8
SK			1.2	2.3	5.3	5.6	4.8
FI		5.2	9.2	9.5	3.2	3.0	-4.3
SE		18.4	22.8	13.2	9.4	13.2	40.3
UK		121.9	108.1	81.3	105.7	119.9	13.4
AL							
ME					0.7	0.7	-7.0
MK	1.0	0.5	0.1	3.2	2.4	3.5	47.1
RS				8.0	3.9	2.7	-31.8
TR			227.7	135.6	162.8	140.2	-13.9
IS		0.2	1.1				
NO			6.2	7.0	6.8	8.9	30.8
CH		30.6	40.2	38.2	47.7	44.7	-6.3

2.6.10

Road
MOPEDS

NEW VEHICLE DELIVERIES

1 000						%
	2000	2005	2010	2015	2016	CHANGE '15/'16
EU-28			<i>645.3</i>	<i>345.1</i>	<i>333.6</i>	-3.3
BE	33.2	17.3	14.2	12.4	10.6	-14.4
BG	2.1	1.1	2.1	0.8	0.8	-3.8
CZ		8.0	2.9	1.5	1.1	-29.5
DK	9.8	4.9	16.5	6.9	6.0	-13.1
DE	108.7	97.3	64.9	32.6	30.1	-7.7
EE		8.0	0.0	0.7	0.6	-9.5
IE	3.0	0.8	0.2	0.2	0.2	-6.6
EL	19.2	24.1	18.9	8.6	6.6	-22.4
ES	248.6	115.1	34.2	16.0	17.2	7.6
FR	192.3	154.9	144.5	89.6	89.7	0.1
HR		13.2	6.4	1.8	1.8	-2.4
IT	311.8	128.3	90.2	24.6	24.6	-0.2
CY		2.1	0.5	0.2	0.2	24.7
LV		0.6	1.0	1.0	0.9	-6.4
LT			1.2	0.7	0.7	-2.3
LU	0.5	0.5	0.7	0.9	0.9	0.2
HU			3.6	3.3	3.2	-1.8
MT				0.0	0.1	58.3
NL	66.9	40.9	90.7	66.0	67.8	2.9
AT	21.3	27.7	24.9	13.8	13.7	-0.5
PL		23.3	72.2	30.4	23.9	-21.4
PT	15.0		4.6	2.6	2.6	0.8
RO				0.7	0.7	10.0
SI		3.1	3.5	2.3	2.5	10.2
SK		2.0	1.8	0.6	0.5	-13.2
FI	6.4	20.9	17.9	7.0	5.2	-26.2
SE	10.0	15.4	13.3	10.6	12.6	18.4
UK	48.2	24.7	14.5	9.4	8.7	-7.0
AL						
ME						
MK						
RS			8.8	2.4	1.3	-46.2
TR			1.5	2.3	3.5	48.9
IS						
NO		11.9	8.1	7.4	5.9	-19.2
CH	19.4	3.1	3.1	0.8	0.7	-9.8

Sea

EU MERCHANT FLEET

2.6.11

SHIPS OF 1000 gt AND OVER

ON 1 JANUARY 2017								
	TOTAL FLEET CONTROLLED		NATIONAL FLAG (¹)		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	13 238	645.420	3 186	138.918	10 052	506.509		
BE	208	21.211	61	7.103	147	14.108	70.7 %	66.5 %
BG	71	1.392	14	0.099	57	1.294	80.3 %	93.0 %
CZ	-	-	-	-	-	-	-	-
DK	839	36.906	321	15.604	518	21.302	61.7 %	57.7 %
DE	3 173	114.066	207	10.277	2 966	103.789	93.5 %	91.0 %
EE	73	0.311	11	0.019	62	0.292	84.9 %	93.9 %
IE	95	1.698	31	0.273	64	1.426	67.4 %	84.0 %
EL	4 524	342.293	733	70.329	3 791	271.964	83.8 %	79.5 %
ES	184	2.377	90	0.511	94	1.866	51.1 %	78.5 %
FR	317	15.588	110	3.120	207	12.468	65.3 %	80.0 %
HR	97	2.702	59	1.767	38	0.935	39.2 %	34.6 %
IT	1 070	45.157	473	13.900	597	31.257	55.8 %	69.2 %
CY	162	5.803	54	1.723	108	4.080	66.7 %	70.3 %
LV	56	1.044	10	0.035	46	1.010	82.1 %	96.7 %
LT	52	0.250	14	0.075	38	0.176	73.1 %	70.4 %
LU	1	0.005	-	-	1	0.005	100.0 %	100.0 %
HU	-	-	-	-	-	-	-	-
MT	29	0.321	21	0.135	8	0.187	27.6 %	58.3 %
NL	928	11.767	608	5.210	320	6.557	34.5 %	55.7 %
AT	5	0.039	-	-	5	0.039	100.0 %	100.0 %
PL	105	2.316	8	0.028	97	2.288	92.4 %	98.8 %
PT	35	0.923	15	0.065	20	0.858	57.1 %	93.0 %
RO	86	0.942	2	0.024	84	0.918	97.7 %	97.5 %
SI	5	0.018	-	-	5	0.018	100.0 %	100.0 %
SK	-	-	-	-	-	-	-	-
FI	96	1.988	62	0.730	34	1.259	35.4 %	63.3 %
SE	319	6.448	73	0.836	246	5.613	77.1 %	87.1 %
UK	708	29.855	209	7.055	499	22.800	70.5 %	76.4 %
AL	24	0.096	11	0.035	13	0.061	54.2 %	63.5 %
ME	4	0.140	4	0.140	-	-	0 %	0 %
MK	-	-	-	-	-	-	-	-
RS	-	-	-	-	-	-	-	-
TR	1 532	28.827	548	8.196	984	20.632	64.2 %	71.6 %
IS	18	0.110	1	0.000	17	0.109	94.4 %	99.1 %
NO	1 666	70.482	518	16.784	1 148	53.699	68.9 %	76.2 %
CH	190	9.228	47	1.690	143	7.537	75.3 %	81.7 %

Notes: (¹) Including international registers like NIS and DIS.

Including vessels registered at territorial dependencies.

Russia: 1 454 ships, 22.237 mio dwt;

Monaco: 53 ships, 3.460 mio dwt;

Ukraine: 358 ships, 3.810 mio dwt;

Gibraltar: 5 ships, 0.039 mio dwt.

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	2017
Europe (*)	311.246	350.136	400.947	518.276	739.100	807.389
of which: EU-28 (**)	223.564	257.975	316.850	432.246	600.143	645.420
North America	51.024	49.413	45.414	50.539	82.881	97.637
Latin America	18.691	15.679	14.422	30.867	29.608	26.254
Asia / Oceania	246.722	292.722	361.311	532.446	805.594	855.309
Africa	6.742	7.121	5.142	6.981	13.451	14.683
Unknown	37.956	38.115	52.687	86.555	4.561	4.786
TOTAL	672.381	753.226	879.923	1 225.665	1 652.479	1 763.694

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	36.6
EU-28: Foreign flag share (***)	56.5	68.1	67.8	69.4	75.5	78.5

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

ON 1 JANUARY 2017							NUMBERS AND DEADWEIGHT					
	Number			dwt (1 000)								
(ships of 1 000 gt and over)	WORLD	EU-28	%	WORLD	EU-28	%						
TOTAL FLEET	42 486	13 238	31	1 763 694	645 420	37						
Tankers	11 798	3 564	30	631 877	228 711	36						
OF WHICH:												
Crude oil and oil product tankers	5 458	1 467	27	465 383	166 030	36						
Oil / chemical tankers	4 715	1 619	34	107 231	47 020	44						
Liquid gas tankers	1 625	478	29	59 263	15 661	26						
Bulk carriers	10 685	3 135	29	769 190	241 365	31						
Container ships	5 114	2 698	53	244 595	141 790	58						
General cargo	12 436	3 110	25	108 014	31 197	29						
OF WHICH:												
Conventional cargo	8 677	2 022	23	47 388	12 862	27						
Special cargo (*)	1 413	524	37	37 088	11 494	31						
Pure car carriers	775	100	13	12 227	1 426	12						
Reefer	679	184	27	4 268	1 726	40						
Ro-Ro cargo	892	280	31	7 044	3 690	52						
Passenger and passenger cargo	2 239	731	33	6 230	2 359	38						

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

ON 1 JANUARY 2017							NUMBERS AND GROSS TONS					
	Number			gt (1 000)								
(ships of 300 gt and over)	WORLD	EU-28	%	WORLD	EU-28	%						
TOTAL	4 428	1 315	30	38 646	16 219	42						
Cargo passenger and Ro-Ro passenger ships	2 687	876	33	17 254	9 446	55						
Passenger (not Ro-Ro)	1 741	439	25	21 392	6 773	32						
UP TO DECEMBER 2017 (**)												
Cruise ships by registered flag (ships of 1 000 gt and over)	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

ON 31 DECEMBER 2017					PASSENGER AIRCRAFT
	50 seats or less	51 to 150 seats	151 to 250 seats	251 seats and more	TOTAL
EU-28	282	1 197	2 117	616	4 212
BE	1	36	22	12	71
BG	6	11	11		28
CZ	7	12	11	1	31
DK	23	21	40	5	89
DE	19	175	274	108	576
EE	2	15	5		22
IE	2	52	460	11	525
EL	11	16	48		75
ES	9	127	176	69	381
FR	49	132	118	102	401
HR		11	2		13
IT	1	62	69	35	167
CY		5	4		9
LV	2	32	11		45
LT	5	5	6		16
LU		13	3	1	17
HU	3		89		92
MT		2	8	1	11
NL	8	68	74	62	212
AT		41	40	5	86
PL	7	33	36	9	85
PT	8	47	33	30	118
RO	7	26	20		53
SI	12	13	1		26
SK			6		6
FI		33	28	19	80
SE	17	41	16		74
UK	83	168	506	146	903
AL					
ME					
MK					
RS					
TR		10	368	84	462
IS	9	3	38	7	57
NO	33	40	155	28	256
CH	14	39	82	13	148
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

ON 31 DECEMBER 2017

	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	154	222	25	184	2 032
BE		28			61
BG	5	6		2	13
CZ				7	53
DK	2	13	6	1	71
DE	7	64		37	420
EE	8			1	6
IE	26	10		1	30
EL	5			2	22
ES	37	10	4	11	67
FR		13	3	36	135
HR				2	6
IT	3	4	1	28	82
CY					7
LV	7				5
LT	1			1	9
LU		22		6	77
HU	4	2	1	1	11
MT			1		160
NL		4		3	26
AT				7	198
PL	13		2	6	31
PT				2	118
RO				1	8
SI		1			15
SK		2		5	14
FI				3	7
SE	31	1	1	7	33
UK	5	42	6	14	347
AL					
ME					
MK				1	
RS					
TR		22		30	96
IS		10		1	1
NO					12
CH	4			8	131
LI					2

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	% CHANGE '15/'16
EU-28			49 551	64 015	64 828	65 567	1.1
BE	1 727	1 670	1 518	1 341	1 188	1 188	0.0
BG	1 119	762	669	624	440	446	1.4
CZ		3 596	3 163	2 258	2 285	2 290	0.2
DK	524	415	464	495	537	493	-8.2
DE	14 437	9 656	7 742	15 613	16 613	16 892	1.7
EE	300	196	344	374	358	358	0.0
IE	166	224	412	572	482	482	0.0
EL	400	244	289	306	308	308	0.0
ES	1 922	1 693	1 946	1 732	1 634	1 602	-2.0
FR	7 422	7 158	6 948	6 849	7 614	7 701	1.1
HR	563	480	377	284	298	298	0.0
IT	4 818	4 697	4 674	4 494	2 631	2 991	13.7
CY	-	-	-	-	-	-	
LV	739	433	358	196	204	202	-1.0
LT	389	419	365	275	240	241	0.4
LU	97	124	145	91	89	91	2.2
HU	2 040	1 453	1 385	1 275	1 225	1 204	-1.7
MT	-	-	-	-	-	-	
NL	2 372	1 965	2 078	2 411	2 780	3 088	11.1
AT	1 543	1 530	1 500	2 081	1 972	1 973	0.1
PL	5 483	5 293	5 828	5 657	5 526	5 384	-2.6
PT	530	589	439	275	277	277	0.0
RO	4 515	3 440	2 186	2 229	2 329	2 188	-6.1
SI	358	300	261	267	401	401	0.0
SK		1 570	1 204	1 035	978	914	-6.5
FI	669	735	702	644	650	670	3.1
SE	1 234	1 032	1 377	1 927	2 422	2 538	4.8
UK	5 610		3 177	10 710	11 347	11 347	0.0
AL							
ME	-	-	-	-	-	-	
MK	92	101	73	63	53	52	-1.9
RS					335	449	34.0
TR	897	849	735	673	851	866	1.8
IS	-	-	-	-	-	-	
NO	502	299	289	544	270	272	0.7
CH	1 254	1 528	2 198	1 745	1 694	1 633	-3.6

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	CHANGE '15/'16
EU-28		110 861	101 768	104 433	95 305	94 475	-0.9
BE	3 286	3 494	3 251	3 412	2 345	2 345	0.0
BG	2 386	2 099	1 558	1 369	756	756	0.0
CZ		5 252	4 895	4 514	4 139	3 945	-4.7
DK	1 594	1 590	1 473	1 307	2 209	2 097	-5.1
DE	24 139	21 097	20 169	18 565	18 990	19 034	0.2
EE	596	241	234	217	280	280	0.0
IE	314	421	581	592	426	426	0.0
EL	810	505	564	718	707	707	0.0
ES	3 839	3 765	5 239	5 665	4 336	4 328	-0.2
FR	15 748	15 656	15 879	16 890	17 335	16 627	-4.1
HR	1 052	720	579	523	545	543	-0.4
IT	14 025	11 914	10 066	12 465	6 479	6 479	0.0
CY	-	-	-	-	-	-	
LV	1 226	702	490	238	374	372	-0.5
LT	664	563	467	337	217	230	6.0
LU	114	149	185	214	242	242	0.0
HU	4 385	3 232	2 787	3 136	2 392	2 473	3.4
MT	-	-	-	-	-	-	
NL	2 268	2 742	852	2 824	2 791	2 993	7.2
AT	3 689	3 468	3 112	2 501	2 048	2 138	4.4
PL	11 928	9 761	8 843	7 885	7 409	6 972	-5.9
PT	1 232	1 303	1 125	965	977	966	-1.1
RO	6 352	6 234	3 310	3 037	2 290	2 283	-0.3
SI	606	461	401	355	349	349	0.0
SK		2 273	1 808	1 530	1 406	1 419	0.9
FI	957	1 003	1 084	1 071	1 101	1 203	9.3
SE	1 747	1 748	1 882	2 352	2 858	2 964	3.7
UK		10 468	10 934	11 751	12 304	12 304	0.0
AL							
ME	-	-	-	-	-	-	
MK	175	164	125	64	67	67	0.0
RS					882	460	-47.8
TR	1 443	1 415	1 312	1 342	1 467	1 426	-2.8
IS	-	-	-	-	-	-	
NO	900	918	191	210	384	238	-38.0
CH	4 136	3 333	4 293	4 949	5 245	4 891	-6.7

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 (*)
EU-28						
BE	30 332	18 790	17 375	11 612	11 612	11 612
BG	42 459	29 720	16 511	11 751	4 572	4 586
CZ		58 524	44 545	27 416	25 863	25 322
DK	4 632	2 236				
DE	366 724	189 558	158 247	108 840	88 066	86 468
EE		5 857	18 971	17 575	21 501	21 586
IE	1 830	1 856	926	502	254	254
EL	10 967	3 453	3 491	3 158	3 522	3 522
ES	37 687	26 452	23 842	14 337	11 353	11 346
FR	148 100	94 789	95 738	25 314	14 052	12 347
HR	13 720	9 986	7 330	6 674	5 519	5 513
IT	99 728	70 115	45 730	30 331	20 270	19 079
CY	-	-	-	-	-	-
LV	11 085	9 146	8 871	9 033	11 888	10 777
LT	12 860	13 155	13 192	9 238	8 574	8 333
LU	2 719	2 626	3 222	4 147	3 006	3 043
HU		23 528	19 130	11 357	8 916	9 145
MT	-	-	-	-	-	-
NL	6 697	4 700				
AT	34 330	23 970	22 655	21 015	19 294	18 817
PL	275 582	130 116	103 234	89 270	86 364	87 598
PT	4 579	4 162	3 495	3 194	3 283	3 283
RO	166 086	117 982	65 175	72 605	36 858	35 553
SI	8 692	6 258	4 465	3 211	3 049	2 992
SK		26 975	25 515	15 260	15 533	15 786
FI	15 200	12 630	11 216	10 464	8 854	8 854
SE	27 470	17 596	16 637	15 166		
UK	34 403					
AL						
ME	-	-	-	-	-	-
MK			1 525	1 144	1 161	1 281
RS					8 486	7 477
TR	21 941	17 872	17 499	17 773	19 077	19 570
IS	-	-	-	-	-	-
NO						
CH	27 104	19 894	18 339	8 794	6 911	6 356

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

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

DE: includes DE-E: 1990 = 163 158.

Road Fatalities

2.7.1

	1990	2000	2005	2010	2015	2016	CHANGE '15/'16	% CHANGE '01/'16
EU-28	77 337	57 082	45 943	31 506	26 130	25 651	-1.8	-53.3
BE	1 976	1 470	1 089	840	732	637	-13.0	-57.1
BG	1 567	1 012	957	776	708	708	0.0	-30.0
CZ	1 291	1 486	1 286	802	734	611	-16.8	-54.2
DK	634	498	331	255	178	211	18.5	-51.0
DE	11 046	7 503	5 361	3 648	3 459	3 206	-7.3	-54.0
EE	436	204	170	79	67	71	6.0	-64.3
IE	478	418	400	212	162	186	14.8	-54.9
EL	2 050	2 037	1 658	1 258	793	824	3.9	-56.2
ES	9 032	5 777	4 442	2 479	1 689	1 810	7.2	-67.2
FR	11 215	8 079	5 318	3 992	3 461	3 477	0.5	-57.4
HR	1 360	655	597	426	348	307	-11.8	-52.6
IT	7 151	7 061	5 818	4 114	3 428	3 283	-4.2	-53.7
CY	116	111	102	60	57	46	-19.3	-53.1
LV	947	635	442	218	188	158	-16.0	-71.7
LT	933	641	773	299	242	192	-20.7	-72.8
LU	70	76	47	32	36	32	-11.1	-54.3
HU	2 432	1 200	1 278	740	644	607	-5.7	-51.0
MT	4	15	17	13	11	23	109.1	43.8
NL	1 376	1 082	750	537	531	533	0.4	-46.3
AT	1 391	976	768	552	479	432	-9.8	-54.9
PL	7 333	6 294	5 444	3 908	2 938	3 026	3.0	-45.3
PT	2 646	1 877	1 247	937	593	563	-5.1	-66.3
RO	3 782	2 466	2 629	2 377	1 893	1 915	1.2	-21.8
SI	517	314	258	138	120	130	8.3	-53.2
SK	731	628	606	371	310	275	-11.3	-55.2
FI	649	396	379	272	266	258	-3.0	-40.4
SE	772	591	440	266	259	270	4.2	-53.7
UK	5 402	3 580	3 336	1 905	1 804	1 860	3.1	-48.3
AL		280	307	352	270	269	-0.4	-9.4
ME				95	51	65	27.5	
MK		162	143	162	148	165	11.5	54.2
RS				656	601	606	0.8	
TR	6 317	5 510	4 505	4 045	7 530	7 300	-3.1	66.4
IS	24	32	19	8	16	18	12.5	-25.0
NO	332	341	224	208	117	135	15.4	-50.9
CH	954	592	409	328	253	216	-14.6	-60.3

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

2016					
per million inhabitants		per 10 billion pkm		per million passenger cars	
SE	27	SE	23	SE	57
UK	28	UK	28	UK	59
NL	31	DE	33	NL	65
DK	37	IE	34	DE	71
DE	39	DK	35	FI	78
ES	39	NL	37	ES	80
IE	39	LU	42	MT	82
FI	47	IT	44	LU	83
AT	49	FI	44	DK	87
EU-28	50	FR	46	IT	87
MT	51	SI	48	AT	90
SK	51	EU-28	52	IE	92
FR	52	AT	52	CY	92
EE	54	ES	53	EU-28	100
CY	54	EE	53	EE	103
IT	54	BE	59	FR	108
PT	55	PT	61	BE	112
LU	55	CY	70	CZ	117
BE	56	LT	72	PT	118
CZ	58	EL	78	SI	120
HU	62	CZ	80	SK	132
SI	63	MT	86	PL	143
LT	67	SK	96	LT	151
HR	74	HU	105	EL	159
EL	76	LV	109	HU	186
PL	80	HR	116	HR	201
LV	81	BG	122	BG	225
RO	97	PL	146	LV	235
BG	99	RO	192	RO	360

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 2016.

Pkm: indicator of traffic volume (in the absence of consistent vehicle-kilometre data); passenger-kilometres of cars indicated in table 2.3.4 for 2016 plus (mostly estimated) passenger-kilometres of motorised two-wheelers.

Inhabitants: the average population at 1 January 2016 and 1 January 2017.

Passenger cars: the average stock of vehicles indicated in table 2.6.2 for 2015 and 2016.

Road Fatalities

BY TYPE OF USER

2.7.3a

	YEAR	TOTAL	DRIVER	PASSENGER	PEDESTRIAN	PEDESTRIAN AS A % OF TOTAL
BE	2016	631	466	87	78	12.4
BG	2016	703	395	190	118	16.8
CZ	2016	611	370	111	130	21.3
DK	2016	211	149	26	36	17.1
DE	2016	3 206	2 290	416	500	15.6
EE	2016	71	32	17	22	31.0
IE	2014	192	111	39	42	21.9
EL	2016	824	548	127	149	18.1
ES	2016	1 810	1 101	320	389	21.5
FR	2016	3 471	2 374	544	553	15.9
HR	2016	348	225	62	61	17.5
IT	2016	3 283	2 261	452	570	17.4
CY	2016	46	26	6	14	30.4
LV	2016	158	76	27	55	34.8
LT	2016	188	86	33	69	36.7
LU	2016	32	17	7	8	25.0
HU	2016	607	336	119	152	25.0
MT	2016	23	12	3	8	34.8
NL	2016	533	437	52	44	8.3
AT	2016	432	307	52	73	16.9
PL	2016	3 026	1 544	614	868	28.7
PT	2016	563	348	92	123	21.8
RO	2016	1 913	773	423	717	37.5
SI	2016	130	90	18	22	16.9
SK	2016	275	145	50	80	29.1
FI	2016	258	190	39	29	11.2
SE	2016	268	179	47	42	15.7
UK	2016	1 860	1 095	302	463	24.9

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	2016	559	327	0	23	37	77	16	71	2	6
BG	2015	544	396	3	32	0	50	11	29	0	23
CZ	2016	481	328	0	18	17	62	1	53	1	1
DK	2016	175	96	3	3	6	26	8	31	1	1
DE	2016	2 691	1 531	4	70	63	536	68	393	9	17
EE	2015	43	35	1	0	-	0	0	0	0	7
IE	2014	151	103	0	3	5	24	0	13	0	3
EL	2016	675	340	0	6	31	240	25	18	11	4
ES	2016	1 421	754	21	55	88	343	54	67	19	20
FR	2016	2 918	1 760	12	55	130	613	121	162	8	57
HR	2016	287	164	1	6	5	58	14	34	5	0
IT	2016	2 698	1 477	3	83	58	657	116	275	19	10
CY	2016	32	10	1	0	5	10	2	0	1	3
LV	2016	103	71	0	3	2	12	6	7	0	2
LT	2015	161	115	1	3	1	13	3	22	0	3
LU	2016	24	19	0	0	1	3	0	1	0	0
HU	2016	454	269	10	12	15	48	16	73	0	11
MT	2016	15	5	0	0	0	9	0	1	0	0
NL	2016	489	225	0	6	24	44	34	101	0	55
AT	2016	359	191	1	13	10	85	8	48	3	0
PL	2016	2 158	1 417	8	40	74	244	77	271	13	14
PT	2016	440	225	0	7	41	59	44	33	19	12
RO	2016	1 196	785	23	11	63	46	33	176	2	57
SI	2016	90	45	0	3	0	22	3	12	4	1
SK	2010	245	171	0	19	1	27	-	27	-	0
FI	2016	229	150	0	5	14	17	5	26	6	6
SE	2016	220	138	1	6	6	36	8	22	3	0
UK	2016	1 397	853	13	17	51	316	8	105	4	30

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	CHANGE '15/'16
EU-28	1 502.077	1 433.020	1 505.653	1 341.981	1 130.398	1 090.888	1 099.075	0.8
BE	62.446	50.744	49.065	49.307	40.569	40.303	40.096	-0.5
BG	6.478	7.435	6.886	8.224	6.610	7.226	7.404	2.5
CZ	21.910	28.746	25.445	25.239	19.675	21.561	21.386	-0.8
DK	9.155	8.373	7.346	5.413	3.498	2.853	2.882	1.0
DE	389.350	388.003	382.949	336.618	288.297	305.659	308.145	0.8
EE	2.099	1.644	1.504	2.341	1.347	1.391	1.468	5.5
IE	6.067	8.117	7.749	6.533	5.779	5.831	5.893	1.1
EL	19.609	22.798	23.001	16.914	15.032	11.440	11.318	-1.1
ES	101.507	83.586	101.729	91.187	85.503	97.756	102.362	4.7
FR	162.573	132.949	121.223	84.525	67.288	56.600	57.515	1.6
HR	14.471	12.668	14.430	15.679	13.274	11.038	10.457	-5.3
IT	161.782	182.761	256.546	240.011	212.997	174.539	175.791	0.7
CY	3.172	3.052	2.411	1.382	1.198	0.660	0.650	-1.5
LV	4.325	4.056	4.482	9.310	3.193	3.692	3.792	2.7
LT	5.135	4.144	5.807	6.772	3.530	3.031	3.201	5.6
LU	1.216	1.145	0.899	0.775	0.787	0.983	0.941	-4.3
HU	27.801	19.817	17.493	20.777	16.308	16.333	16.627	1.8
MT	0.238	0.969	1.253	0.848	0.577	1.367	1.437	5.1
NL	44.892	42.641	42.271	27.007	10.778	18.523	18.749	1.2
AT	46.338	38.956	42.126	40.896	35.348	37.960	38.466	1.3
PL	50.532	56.904	57.331	48.100	38.832	32.967	33.664	2.1
PT	45.110	48.339	44.463	37.066	35.426	31.955	32.299	1.1
RO	9.708	9.119	7.889	19.819	25.995	28.944	30.751	6.2
SI	5.177	6.567	8.951	10.509	7.659	6.578	6.495	-1.3
SK	8.236	8.713	7.884	7.903	8.119	5.502	5.602	1.8
FI	10.175	7.812	6.633	7.020	6.072	5.164	4.752	-8.0
SE	16.975	15.626	15.770	18.094	16.627	14.829	14.086	-5.0
UK	265.600	237.336	242.117	203.712	160.080	146.203	142.846	-2.3
AL		0.399	0.428	0.853	1.564	1.992	2.032	2.0
ME					9.138	4.944	5.229	5.8
MK	2.300	2.436	1.667	2.821	4.223	3.854	3.902	1.2
RS					14.179	13.638	14.382	5.5
TR	55.771	66.029	75.201	87.273	116.804	183.011	185.128	1.2
IS	0.564	1.057	0.979	0.671	0.876	0.912	0.986	8.1
NO	8.801	8.625	8.440	8.078	6.434	4.563	4.374	-4.1
CH	23.834	23.030	23.737	21.706	19.609	17.736	17.577	-0.9

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

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
1970–1979/yr.	312	328
1980–1989/yr.	179	128
1990–1999/yr.	50	69
2000–2009/yr.	65	78
2010–2017/yr.	21	35

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). Compared to previous editions of the Pocketbook, the entire time series have been revised due to taxonomy changes in EASA database.

2.7.7

Sea

SHIPS LOST (WORLD)

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	3	4	214	29	148

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

PART 3

ENERGY AND ENVIRONMENT



PART 3

SUMMARY

3.1	ENERGY	115
3.2	ENVIRONMENT	124

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.

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: $\text{primary production} + \text{recovered products} + \text{imports} + \text{stock changes} - \text{exports} - \text{bunkers}$ (i.e. quantities supplied to sea-going ships).

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 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
Production (*)		951.0	969.3	952.7	914.6	851.3	781.9	770.4
Solid fuels		369.0	279.8	214.6	196.2	165.0	145.3	132.3
Oil		136.2	180.8	180.0	142.2	109.9	88.7	88.6
Gas		165.1	191.4	210.0	190.6	159.4	107.5	107.5
Nuclear		205.2	227.3	243.8	257.5	236.6	221.2	216.7
Renewables		71.8	84.3	98.2	120.3	169.2	205.8	210.7
Industrial waste		3.8	5.7	6.1	7.9	11.2	13.3	14.5
Net Imports		755.3	736.4	826.8	980.3	955.6	901.6	903.7
Solid fuels		81.0	78.2	98.1	125.2	111.6	111.5	96.7
Oil		534.6	510.6	532.8	598.1	557.6	535.7	529.8
Gas		135.7	145.6	193.5	254.1	279.7	247.0	269.5
Electricity		3.9	1.8	2.0	1.4	0.6	1.2	1.6
Renewables		0.2	0.3	0.3	1.6	6.0	5.9	5.8
Other (**)		0.0	0.0	0.0	0.0	0.0	0.3	0.4
Gross Inland Consumption		1 669.6	1 674.6	1 729.8	1 831.1	1 765.2	1 629.3	1 640.6
Solid fuels		454.4	364.8	321.1	318.0	283.2	262.7	240.7
Oil		632.1	654.3	662.1	679.3	610.6	560.9	567.1
Gas		298.1	336.1	396.2	445.2	447.7	357.9	383.0
Nuclear		205.2	227.3	243.8	257.5	236.6	221.2	216.7
Renewables		72.1	84.6	98.5	121.8	175.2	211.7	216.6
Other (***)		7.7	7.4	8.0	9.2	11.9	14.8	16.5
Elec. Generation (TWh)		2 595.2	2 743.6	3 035.8	3 325.8	3 366.6	3 235.2	3 255.1
Final Energy Consumption by fuel/product		1 084.6	1 082.6	1 132.7	1 192.7	1 163.2	1 086.2	1 107.8
Solid fuels		124.1	83.0	61.9	53.9	50.2	45.9	45.3
Oil		448.8	465.9	490.3	503.7	458.1	429.9	437.1
Gas		230.9	247.5	267.6	282.0	272.0	236.9	245.3
Electricity		185.8	194.1	217.4	239.4	244.0	236.6	239.4
Renewables		39.0	44.3	49.1	59.4	82.8	86.9	88.9
Other (**)		56.0	47.9	46.4	54.2	56.2	49.9	51.7
by sector								
INDUSTRY		370.8	331.6	333.4	331.2	290.8	276.1	276.8
TRANSPORT		284.3	306.5	344.5	369.2	363.7	358.1	367.3
Rail		8.2	8.2	8.2	7.7	7.3	6.4	6.4
Road		238.3	256.3	283.4	301.4	298.9	293.3	300.2
International aviation		24.2	29.5	38.5	43.4	43.0	45.7	47.5
Domestic aviation		5.3	4.7	6.4	6.6	6.3	5.5	5.8
Domestic navigation		6.5	6.2	6.1	6.8	5.8	4.5	4.6
Consumption in pipeline transport, etc.		1.7	1.6	1.9	3.2	2.4	2.6	2.8
HOUSEHOLDS		274.0	285.1	290.9	309.4	320.0	276.4	284.8
AGRICULTURE		33.4	32.5	29.5	29.1	26.3	24.8	25.5
SERVICES, ETC.		122.1	126.9	134.4	153.9	162.4	150.9	153.4
CO₂ Emissions (Mt) (****)		4 544.9	4 301.4	4 293.9	4 434.5	4 071.0	3 651.9	3 637.3
Energy intensity (toe/M€ '10)		186	173	155	149	138	120	119
CO₂ intensity (tCO₂/toe)		2.72	2.57	2.48	2.42	2.31	2.24	2.22
Import dependency, %		44.3	43.1	46.7	52.1	52.7	53.9	53.6
RES share in transport, % (*****)					1.80	5.22	6.58	7.13

Notes: (*) Including recovered products. (**) Derived heat and industrial waste. (***) Electrical energy and industrial waste. (****) Source: European Environment Agency, June 2018, 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 whereas before 2011 all biofuels are accounted.

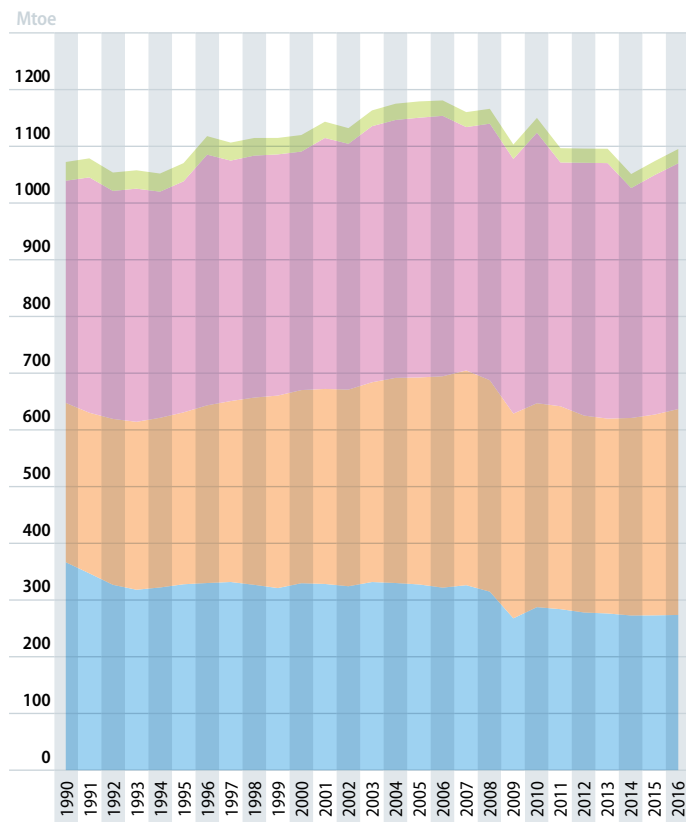
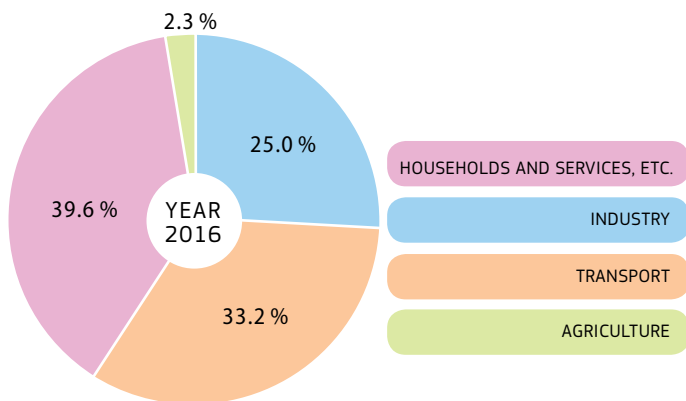
3.1.5

Final Energy Consumption 2016 – BY SECTOR (MTOE)

	ALL SECTORS	INDUSTRY	TRANSPORT	Road	Railways	Air	Domestic navigation	Consumption in pipeline transport, etc.	HOUSEHOLDS, SERVICES, ETC.	Households	Agriculture	Services, etc.
EU-28	1107.8	276.8	367.3	300.2	6.4	53.3	4.6	2.8	463.7	284.8	25.5	153.4
Share	100%	25%	33%	82%	2%	15%	1%	1%	42%	61%	6%	33%
BE	36.3	12.2	10.5	8.7	0.2	1.4	0.2	0.0	13.6	8.1	0.8	4.7
BG	9.7	2.6	3.5	3.1	0.0	0.2		0.1	3.5	2.3	0.2	1.1
CZ	24.9	7.4	6.7	6.1	0.2	0.4	0.0	0.0	10.7	7.0	0.6	3.1
DK	14.5	2.1	5.1	3.8	0.1	1.0	0.2	0.0	7.2	4.5	0.8	2.0
DE	216.4	61.1	65.2	53.7	1.4	9.4	0.3	0.4	90.2	56.0		34.1
EE	2.8	0.5	0.8	0.8	0.0	0.0	0.0	0.0	1.6	0.9	0.1	0.5
IE	11.6	2.4	4.9	4.0	0.0	0.9	0.1		4.2	2.7	0.2	1.3
EL	16.7	3.1	6.8	5.1	0.1	1.1	0.6	0.0	6.8	4.3	0.3	2.3
ES	82.5	19.0	35.0	27.7	0.3	6.0	0.6	0.3	28.6	15.1	2.6	10.8
FR	147.2	29.4	49.6	41.4	1.0	6.7	0.5	0.1	68.2	39.8	4.5	23.8
HR	6.6	1.1	2.2	1.9	0.0	0.1	0.0	0.0	3.4	2.4	0.2	0.8
IT	115.9	26.2	39.1	33.0	0.5	4.0	1.0	0.7	50.7	32.2	2.9	15.6
CY	1.8	0.2	0.9	0.7		0.3			0.6	0.3	0.0	0.2
LV	3.8	0.7	1.2	1.0	0.1	0.1	0.0	0.0	1.9	1.1	0.2	0.6
LT	5.1	1.0	2.0	1.8	0.1	0.1	0.0	0.0	2.2	1.4	0.1	0.6
LU	4.0	0.7	2.4	1.9	0.0	0.5			0.9	0.5	0.0	0.4
HU	17.9	4.3	4.5	4.2	0.1	0.2	0.0	0.0	9.1	6.2	0.6	2.3
MT	0.6	0.0	0.3	0.2		0.1	0.0		0.2	0.1	0.0	0.1
NL	49.5	14.7	14.3	9.9	0.2	3.9	0.3		20.6	9.9	3.9	6.8
AT	28.1	9.4	9.2	7.8	0.2	0.8	0.0	0.3	9.5	6.3	0.5	2.7
PL	66.7	15.6	19.2	17.8	0.3	0.7	0.0	0.4	31.8	19.7	3.5	8.5
PT	16.1	4.3	6.8	5.3	0.0	1.3	0.1	0.0	5.0	2.6	0.4	2.0
RO	22.3	6.3	6.0	5.5	0.2	0.3	0.0	0.0	9.9	7.4	0.5	2.1
SI	4.9	1.2	1.9	1.9	0.0	0.0		0.0	1.7	1.1	0.1	0.5
SK	10.4	4.5	2.5	2.2	0.0	0.1		0.2	3.5	2.0	0.1	1.3
FI	25.2	11.0	5.0	4.0	0.1	0.7	0.1	0.0	9.3	5.3	0.7	3.2
SE	32.6	11.4	9.1	7.8	0.2	1.0	0.0		12.1	7.5	0.3	4.3
UK	133.7	24.3	52.6	39.1	1.0	12.0	0.5		56.8	38.1	1.2	17.6
MK	1.9	0.4	0.7	0.7	0.0	0.0			0.7	0.5	0.0	0.2
TR	96.6	29.1	30.5	24.8	0.2	5.0	0.3	0.3	37.0	20.7	3.8	12.4
IS	3.3	1.4	0.6	0.3	0.0	0.3	0.0	0.0	1.2	0.5	0.3	0.5
NO	18.9	6.0	5.4	3.5	0.1	0.9	0.6	0.3	7.6	4.3	0.4	2.9
CH												

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

3.1.5



Note: Renewables not including electricity.

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

2016 – 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	284 199.0	77 299.0	206 900.0	13 707.0	2 620.0	11 083.0	4.0
BE	8 387.0	1 429.0	6 958.0	441.0	43.0	398.0	
BG	2 341.0	492.0	1 849.0	163.0	33.0	130.0	
CZ	5 773.0	1 617.0	4 156.0	301.0	48.0	253.0	
DK	3 838.0	1 306.0	2 532.0	236.0		236.0	
DE	51 216.0	16 938.0	34 278.0	2 539.0	745.0	1 792.0	2.0
EE	773.0	254.0	519.0	3.0	3.0		
IE	3 954.0	1 003.0	2 951.0	118.0	32.0	86.0	
EL	4 956.0	2 537.0	2 419.0	149.0		149.0	
ES	26 763.0	4 832.0	21 931.0	1 088.0	133.0	955.0	
FR	38 799.0	6 835.0	31 964.0	3 029.0	447.0	2 582.0	
HR	1 923.0	557.0	1 366.0	1.0		1.0	
IT	29 786.0	7 650.0	22 136.0	1 041.0	33.0	1 008.0	
CY	646.0	375.0	271.0	9.0		9.0	
LV	952.0	200.0	752.0	12.0	8.0	4.0	
LT	1 645.0	216.0	1 429.0	56.0	6.0	50.0	
LU	1 804.0	285.0	1 519.0	90.0	9.0	81.0	
HU	3 979.0	1 388.0	2 591.0	187.0	44.0	143.0	
MT	188.0	78.0	110.0	6.0		6.0	
NL	9 763.0	3 910.0	5 853.0	242.0	121.0	121.0	
AT	7 311.0	1 528.0	5 783.0	532.0	57.0	475.0	
PL	15 514.0	3 860.0	11 654.0	458.0	168.0	290.0	
PT	5 066.0	1 082.0	3 984.0	264.0	26.0	236.0	2.0
RO	5 287.0	1 326.0	3 961.0	257.0	81.0	176.0	
SI	1 831.0	434.0	1 397.0	18.0	4.0	14.0	
SK	2 060.0	609.0	1 451.0	140.0	16.0	124.0	
FI	3 998.0	1 358.0	2 640.0	177.0	68.0	109.0	
SE	6 485.0	2 416.0	4 069.0	1 202.0	109.0	1 093.0	
UK	39 161.0	12 784.0	26 377.0	946.0	386.0	560.0	
MK	619.9	109.0	510.8				
TR	21 346.9	2 305.9	19 040.9	136.4	76.0	60.4	
IS	302.1	142.9	159.2	14.7	3.2	11.5	
NO	3 877.1	695.2	3 182.0	335.7	26.2	309.4	
CH							

Notes: (*) Without bio components.

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

Biofuels Production 2016 – BY FUEL (KTOE)

3.1.7

	TOTAL	Biogasoline	Biodiesel	Other liquid biofuels (*)
EU-28	13 772.0	2 254.0	10 762.0	756.0
BE	375.0	160.0	212.0	3.0
BG	73.0	17.0	56.0	
CZ	207.0	75.0	132.0	
DK	7.0			7.0
DE	3 374.0	442.0	2 795.0	137.0
EE				
IE	24.0		24.0	
EL	138.0		138.0	
ES	1 370.0	168.0	1 202.0	
FR	2 406.0	386.0	2 019.0	1.0
HR	1.0		1.0	
IT	1 002.0	15.0	509.0	478.0
CY				
LV	43.0	3.0	40.0	
LT	100.0	9.0	91.0	
LU				
HU	410.0	270.0	140.0	
MT	1.0		1.0	
NL	1 292.0		1 292.0	
AT	395.0	139.0	255.0	1.0
PL	922.0	126.0	794.0	2.0
PT	297.0		295.0	2.0
RO	187.0	36.0	151.0	
SI				
SK	163.0	59.0	104.0	
FI	161.0		109.0	52.0
SE	281.0	110.0	97.0	74.0
UK	542.0	238.0	304.0	
MK				
TR	106.1	46.3	59.6	0.2
IS				
NO				
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
EU-28	5 719.6	5 386.7	5 277.7	5 351.2	4 909.1	4 460.5	4 440.8
BE	149.8	157.7	154.5	149.0	136.9	122.0	122.1
BG	104.7	75.5	59.8	64.5	61.1	62.3	59.7
CZ	200.1	159.4	150.8	149.0	141.5	129.3	131.3
DK	72.2	80.2	73.1	68.9	65.8	51.2	53.3
DE	1 263.7	1 138.3	1 064.3	1 016.0	967.0	931.2	935.8
EE	40.5	20.3	17.4	19.3	21.2	18.1	19.7
IE	56.6	60.3	70.4	72.1	63.6	62.0	64.2
EL	105.6	111.8	128.9	138.9	121.0	98.2	94.7
ES	292.5	334.0	395.2	450.6	368.3	350.0	340.5
FR	555.1	552.1	565.3	568.6	527.7	475.5	475.4
HR	32.4	23.2	26.0	30.2	28.3	24.5	24.7
IT	522.7	538.5	562.5	589.4	512.9	442.5	438.2
CY	6.3	7.8	9.1	10.1	10.3	9.1	9.7
LV	26.7	13.0	10.6	11.6	12.7	11.7	11.7
LT	48.5	22.4	19.5	23.0	20.9	20.4	20.4
LU	13.2	10.7	10.6	14.3	13.4	11.6	11.5
HU	94.3	76.0	74.1	76.6	66.1	61.6	62.1
MT	2.3	3.0	3.1	3.2	3.3	2.6	2.3
NL	225.9	238.9	229.4	225.4	223.7	206.2	207.0
AT	79.6	81.1	82.1	94.6	87.0	81.0	82.0
PL	467.9	438.9	390.4	398.6	407.4	387.1	397.8
PT	61.5	72.1	85.4	89.3	72.8	72.7	71.2
RO	247.5	181.1	141.2	148.2	122.7	116.9	113.4
SI	18.7	18.8	19.1	20.6	19.7	16.9	17.8
SK	74.0	54.0	49.6	51.3	46.4	41.1	41.2
FI	72.3	72.8	71.2	71.1	77.2	57.4	60.8
SE	72.9	75.0	70.6	68.7	66.5	56.0	55.5
UK	812.1	769.6	743.4	728.1	643.7	541.4	516.8
MK							
TR	211.3	243.0	295.1	336.0	408.5	481.1	506.8
IS	3.9	3.7	4.5	4.4	5.3	5.4	5.6
NO	52.3	51.7	55.5	56.0	56.4	55.4	54.7
CH	56.7	56.0	57.1	58.3	58.5	52.9	53.5

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 (*)

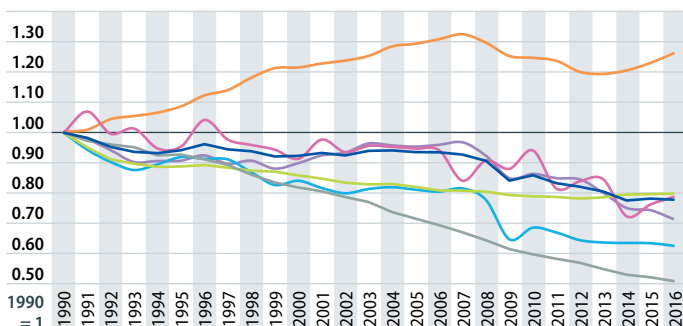
	1990	1995	2000	2005	2010	2015	2016
EU-28	967.1	1 040.3	1 175.7	1 269.5	1 228.5	1 192.7	1 226.4
BE	37.4	38.9	45.8	55.4	55.5	50.0	52.4
BG	7.5	6.2	6.0	8.8	8.8	10.0	10.2
CZ	7.8	9.9	12.5	18.1	18.0	18.6	19.4
DK	15.6	19.0	18.9	18.6	17.9	17.7	17.8
DE	183.0	198.3	208.0	191.5	186.7	194.5	201.5
EE	3.1	1.9	2.1	2.7	3.0	3.3	3.3
IE	6.3	7.8	13.1	16.0	14.3	14.9	15.4
EL	25.4	31.1	33.3	34.0	34.1	25.9	26.3
ES	75.8	87.0	115.8	139.6	130.9	121.6	126.4
FR	137.4	148.8	163.2	165.3	157.6	155.4	155.1
HR	4.5	3.7	4.8	5.9	6.3	6.3	6.6
IT	110.9	123.6	135.5	143.5	131.0	121.2	121.7
CY	2.1	2.6	3.3	3.9	3.8	3.4	3.8
LV	4.8	2.7	2.3	4.2	4.6	4.4	4.6
LT	6.5	3.7	3.6	4.8	5.0	5.6	6.3
LU	3.0	3.9	5.8	8.4	7.7	7.0	7.0
HU	9.4	8.1	9.8	12.8	12.4	12.8	13.1
MT	1.4	2.3	3.1	2.9	5.4	6.1	6.5
NL	67.9	73.2	85.7	97.3	90.1	82.6	82.7
AT	14.9	17.3	20.6	27.0	24.7	24.8	25.9
PL	22.4	24.3	29.5	37.3	50.3	49.4	56.0
PT	13.2	16.3	23.3	23.7	23.3	21.6	22.1
RO	13.2	9.2	10.3	13.0	14.8	16.6	17.8
SI	2.8	3.8	3.9	4.5	5.4	5.6	6.2
SK	7.0	5.6	5.8	7.8	7.6	7.0	6.9
FI	15.0	13.3	15.3	15.9	15.0	14.0	15.5
SE	22.7	24.6	26.6	29.8	29.3	26.2	26.3
UK	146.1	153.4	168.1	177.0	165.0	166.0	169.4
MK							
TR	27.9	35.5	39.4	48.8	53.7	89.7	95.6
IS	0.9	0.9	1.1	1.3	1.3	1.7	2.1
NO	12.4	14.0	15.4	15.9	16.2	15.6	15.0
CH	17.8	18.0	20.7	19.4	20.7	20.3	20.4

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	4420.0	4229.4	1677.9	1439.3	122.7	115.9	841.1	184.0	16.6	112.6	34.6	52.1	441.0
1995	4169.0	4009.1	1521.4	1290.0	130.2	101.2	750.5	164.0	16.9	109.1	38.6	60.6	361.2
2000	4132.6	4002.1	1507.9	1292.0	133.9	82.0	686.1	146.0	17.5	91.9	36.7	54.7	339.3
2005	4249.0	4136.8	1600.4	1376.2	143.4	80.8	635.9	129.1	15.8	85.8	34.0	49.8	321.3
2010	3927.1	3832.3	1448.0	1239.7	134.7	73.5	536.1	111.4	14.0	72.3	28.9	40.1	269.4
2011	3782.4	3688.2	1424.1	1221.1	132.1	70.9	518.7	108.8	13.3	70.8	27.7	38.2	259.8
2012	3736.8	3643.7	1417.3	1230.0	127.2	60.1	497.1	104.4	12.3	68.7	26.9	38.5	246.4
2013	3648.5	3557.3	1341.5	1163.8	120.6	57.1	487.9	103.4	9.5	69.4	27.5	38.0	240.1
2014	3472.0	3383.3	1257.4	1084.0	117.1	56.3	479.7	103.3	8.9	65.6	25.4	37.6	238.9
2015	3512.1	3424.0	1245.4	1074.6	116.3	54.5	483.9	104.6	9.0	63.9	25.3	38.6	242.5
2016	3496.3	3411.9	1195.2	1022.7	118.6	54.0	474.3	96.6	8.7	63.5	24.7	39.0	241.7

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

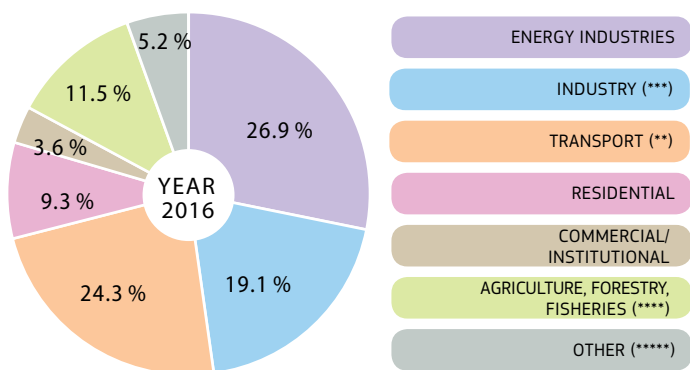


Notes: (*) Excluding LULUCF (Land Use, Land – Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions from 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	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESS-ES & PRODUCT USE	AGRICULTURE	WASTE	OTHER	INDIRECT CO ₂	TOTAL EMISSIONS	
856.3	830.5	201.7	529.8	99.1	23.6	190.6	517.5	541.9	236.0		4.3	5719.6	1990
928.7	794.7	176.8	520.5	97.3	13.9	159.9	498.4	471.6	244.1		3.7	5386.7	1995
1039.2	759.0	175.3	492.2	91.5	9.9	130.5	455.7	458.0	228.8		2.7	5277.7	2000
1106.8	782.8	186.4	505.9	90.5	10.9	112.1	465.7	434.3	199.9		2.3	5351.2	2005
1066.6	773.0	188.9	499.0	85.1	8.7	94.8	394.4	419.7	165.9		2.0	4909.1	2010
1058.1	678.9	167.9	427.4	83.5	8.4	94.1	390.0	420.2	160.4		1.8	4754.8	2011
1026.7	695.0	166.4	446.5	82.1	7.6	93.1	377.1	418.0	156.4		1.8	4690.1	2012
1020.9	699.7	168.3	449.7	81.6	7.3	91.2	375.7	421.3	149.2		1.6	4596.4	2013
1030.8	608.4	149.0	378.9	80.5	7.0	88.6	381.9	428.4	143.5		1.6	4427.3	2014
1051.8	636.1	156.3	400.0	79.7	6.9	88.1	376.8	429.5	140.5		1.6	4460.5	2015
1079.5	656.0	160.2	414.9	80.9	6.8	84.4	374.5	430.0	138.5		1.5	4440.8	2016



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	77.3	95.7	39.7	85.8	7.3	6.9	19.9	21.9	2.0	13.4	4.1	6.2	52.4
1991	78.0	95.9	39.1	86.2	7.2	6.7	19.0	21.6	2.3	13.5	4.7	6.9	51.0
1992	78.0	95.9	38.8	86.3	7.4	6.3	18.7	21.1	2.2	12.8	4.7	7.2	52.0
1993	78.0	95.9	37.8	85.6	8.0	6.5	18.3	20.8	2.2	12.8	4.8	7.7	51.7
1994	77.5	96.1	38.3	85.1	8.1	6.7	18.5	21.9	2.3	13.6	5.2	7.9	49.1
1995	77.4	96.2	37.9	84.8	8.6	6.7	18.7	21.9	2.3	14.5	5.1	8.1	48.1
1996	77.8	96.4	37.6	85.1	8.6	6.3	18.0	20.7	2.4	14.4	5.1	8.3	49.0
1997	77.4	96.4	37.3	84.6	8.9	6.5	18.2	21.7	2.5	14.1	5.2	8.1	48.4
1998	77.8	96.7	37.7	85.1	9.0	5.9	17.3	21.8	2.6	13.3	5.3	8.1	49.0
1999	78.3	96.8	37.0	85.4	8.9	5.7	17.0	21.2	2.6	13.2	5.2	8.2	49.6
2000	78.3	96.8	37.7	85.7	8.9	5.4	17.1	21.3	2.6	13.4	5.3	8.0	49.4
2001	79.0	96.9	38.0	86.1	8.8	5.1	16.4	20.3	2.8	13.8	5.2	8.4	49.5
2002	79.1	97.0	38.6	86.1	8.8	5.1	16.0	20.0	2.8	13.5	5.4	8.5	49.7
2003	79.4	97.1	39.0	86.6	8.4	4.9	15.8	19.8	2.7	13.8	5.4	8.2	50.1
2004	79.2	97.3	38.7	86.4	8.7	4.9	15.6	20.5	2.6	13.5	5.2	8.1	50.1
2005	79.4	97.4	38.7	86.0	9.0	5.1	15.4	20.3	2.5	13.5	5.3	7.8	50.5
2006	79.6	97.5	38.9	86.2	8.7	5.1	15.2	21.1	2.5	13.3	5.3	7.2	50.6
2007	79.3	97.5	39.6	86.5	8.7	4.8	15.4	21.8	2.5	12.7	5.2	7.2	50.7
2008	79.5	97.5	38.5	85.9	9.2	5.0	15.0	21.2	2.5	13.4	5.0	7.1	50.7
2009	79.7	97.5	38.2	85.9	9.5	4.6	13.4	18.5	2.7	14.1	5.5	7.6	51.6
2010	80.0	97.6	37.8	85.6	9.3	5.1	14.0	20.8	2.6	13.5	5.4	7.5	50.3
2011	79.5	97.5	38.6	85.7	9.3	5.0	14.1	21.0	2.6	13.6	5.3	7.4	50.1
2012	79.7	97.5	38.9	86.8	9.0	4.2	13.6	21.0	2.5	13.8	5.4	7.7	49.6
2013	79.4	97.5	37.7	86.8	9.0	4.3	13.7	21.2	1.9	14.2	5.6	7.8	49.2
2014	78.4	97.4	37.2	86.2	9.3	4.5	14.2	21.5	1.9	13.7	5.3	7.8	49.8
2015	78.7	97.5	36.4	86.3	9.3	4.4	14.1	21.6	1.9	13.2	5.2	8.0	50.1
2016	78.7	97.6	35.0	85.6	9.9	4.5	13.9	20.4	1.8	13.4	5.2	8.2	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-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE		AGRICULTURE	WASTE	OTHER	INDIRECT CO ₂	TOTAL EMISSIONS	
		Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries										
20.2	19.6	24.3	63.8	11.9	0.6	4.3	9.0	9.5	4.1			0.1	100	1990
20.5	20.9	23.9	65.0	11.1	0.5	4.1	8.6	9.1	4.3			0.1	100	1991
21.9	20.2	23.1	65.3	11.5	0.4	4.1	8.5	9.0	4.4			0.1	100	1992
22.5	21.0	22.4	65.9	11.7	0.4	4.1	8.5	8.9	4.5			0.1	100	1993
22.9	19.9	22.1	65.5	12.4	0.4	3.9	9.1	8.8	4.6			0.1	100	1994
23.2	19.8	22.3	65.5	12.2	0.3	3.8	9.3	8.8	4.5			0.1	100	1995
23.3	20.9	22.5	65.9	11.6	0.3	3.6	9.1	8.6	4.4			0.1	100	1996
24.2	20.1	22.2	65.8	11.9	0.3	3.6	9.3	8.7	4.5			0.1	100	1997
25.0	19.7	22.8	65.3	11.8	0.3	3.3	9.0	8.7	4.4			0.1	100	1998
26.0	19.6	23.3	64.7	11.9	0.3	3.2	8.4	8.8	4.4			0.1	100	1999
26.0	19.0	23.1	64.9	12.0	0.2	3.2	8.6	8.7	4.3			0.1	100	2000
25.7	19.7	23.4	65.3	11.4	0.2	3.1	8.3	8.5	4.2			0.0	100	2001
26.1	19.1	23.1	65.3	11.6	0.2	3.0	8.3	8.4	4.2			0.0	100	2002
25.9	19.0	22.9	65.8	11.4	0.2	2.9	8.4	8.2	4.0			0.0	100	2003
26.5	19.0	23.6	65.0	11.5	0.3	2.7	8.7	8.2	3.8			0.0	100	2004
26.8	18.9	23.8	64.6	11.6	0.3	2.6	8.7	8.1	3.7			0.0	100	2005
27.0	18.7	24.8	63.9	11.2	0.3	2.5	8.7	8.1	3.6			0.0	100	2006
27.7	17.0	24.5	63.5	12.0	0.3	2.5	9.0	8.2	3.5			0.0	100	2007
27.6	18.6	25.2	63.5	11.3	0.3	2.5	8.7	8.3	3.4			0.0	100	2008
28.7	19.5	24.8	63.8	11.4	0.2	2.5	7.8	8.8	3.6			0.0	100	2009
27.8	20.2	24.4	64.6	11.0	0.2	2.4	8.0	8.5	3.4			0.0	100	2010
28.7	18.4	24.7	63.0	12.3	0.2	2.5	8.2	8.8	3.4			0.0	100	2011
28.2	19.1	23.9	64.2	11.8	0.2	2.5	8.0	8.9	3.3			0.0	100	2012
28.7	19.7	24.1	64.3	11.7	0.2	2.5	8.2	9.2	3.2			0.0	100	2013
30.5	18.0	24.5	62.3	13.2	0.2	2.6	8.6	9.7	3.2			0.0	100	2014
30.7	18.6	24.6	62.9	12.5	0.2	2.5	8.4	9.6	3.2			0.0	100	2015
31.6	19.2	24.4	63.2	12.3	0.2	2.4	8.4	9.7	3.1			0.0	100	2016

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 (*) 2016 – 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	3496.3	3411.9	1195.2	1022.7	118.6	54.0	474.3	96.6	8.7	63.5	24.7	39.0	241.7
BE	90.3	89.6	20.0	15.1	4.7	0.2	13.3	1.2	0.4	3.2	0.6	2.3	5.6
BG	43.0	42.0	27.1	25.5	1.6	0.0	2.9	0.1	0.2	0.4	0.1	0.2	1.9
CZ	101.2	97.2	54.4	47.7	0.4	6.4	9.4	1.8	0.1	1.4	0.4	1.0	4.7
DK	39.1	38.7	14.0	11.8	0.9	1.3	3.9	0.1		0.4	0.1	1.0	2.4
DE	798.3	788.4	332.2	302.9	19.9	9.4	126.4	37.4	0.1		0.0	0.2	88.7
EE	17.6	17.6	13.8	12.5		1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.5
IE	40.5	40.5	12.5	12.1	0.3	0.1	4.6	0.0	1.4	0.3	0.0	0.9	2.0
EL	69.9	69.1	37.0	31.4	5.6	0.0	5.4	0.1	0.6	0.1	0.1	0.6	3.9
ES	260.0	255.5	71.1	58.7	11.6	0.8	40.9	5.6	1.2	6.7	4.0	4.5	18.9
FR	339.1	334.9	45.2	35.1	7.4	2.7	49.1	11.4	0.9	10.9	2.6	7.5	15.8
HR	17.5	17.0	4.9	3.4	1.3	0.2	2.2	0.0	0.0	0.3	0.1	0.4	1.4
IT	357.5	350.2	104.4	76.4	21.2	6.8	47.9	10.7	1.0	8.5	4.1	3.7	19.9
CY	7.4	7.4	3.3	3.3		0.0	0.6		0.0	0.0	0.0	0.0	0.5
LV	7.6	7.5	1.9	1.8		0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.5
LT	11.7	11.4	3.0	1.5	1.4	0.1	1.2			0.3	0.0	0.2	0.6
LU	10.0	10.0	0.3	0.3			1.1	0.3	0.1	0.2	0.0	0.0	0.6
HU	45.2	44.4	13.6	11.8	1.5	0.3	4.7	0.2	0.2	0.4	0.4	0.7	2.9
MT	1.8	1.8	0.6	0.6			0.0						0.0
NL	173.7	172.0	67.7	55.2	9.6	2.8	26.6	4.8	0.2	12.9	0.9	3.6	4.3
AT	56.7	56.3	10.6	7.5	2.8	0.3	10.8	1.4	0.4	1.4	1.7	1.0	4.9
PL	328.6	305.6	163.2	154.6	5.4	3.2	28.5	5.1	1.1	6.0	1.6	4.0	10.8
PT	50.5	49.3	17.4	15.0	2.4		7.4	0.1		1.0	1.3	0.8	4.2
RO	76.3	65.7	25.8	22.8	2.0	1.0	11.3	1.3		1.6	0.2	0.9	7.3
SI	14.3	13.9	4.9	4.9		0.0	1.6	0.2	0.1	0.1	0.3	0.1	0.8
SK	27.7	26.0	7.5	4.8	1.5	1.3	6.7	2.8	0.1	0.5	0.4	0.3	2.6
FI	46.1	45.9	19.1	17.1	1.7	0.3	7.2	0.9	0.1	0.8	2.8	0.2	2.4
SE	40.3	39.6	9.2	6.8	2.0	0.4	7.6	1.2	0.1	1.3	0.8	0.4	3.8
UK	424.5	414.6	110.4	82.0	13.6	14.8	51.8	10.0	0.5	5.0	2.1	4.3	29.9
MK													
TR	371.7	363.4	144.6	136.2	6.4	2.1	59.7	2.9	1.4	5.7	1.1	5.0	43.6
IS	2.8	2.6	0.0	0.0			0.2	0.0	0.0			0.0	0.2
NO	40.3	37.0	15.1	1.7	0.8	12.6	3.8	0.1	0.1	1.3	0.1	0.3	1.9
CH	42.7	42.4	3.4	3.0	0.4	0.0	5.0	0.3	0.1	0.8	0.2	0.7	3.0

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

GHG Emissions (*) 2016 – 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	
1 079.5	656.0	160.2	414.9	80.9	6.8	84.4	374.5	430.0	138.5		1.5	4 440.8	EU-28
30.8	25.4	5.9	17.2	2.3	0.1	0.6	20.5	9.9	1.5			122.1	BE
10.0	1.9	0.3	1.1	0.5	0.0	1.0	6.1	6.5	4.1			59.7	BG
19.4	13.5	2.9	9.4	1.2	0.4	4.0	15.2	8.5	5.6		0.8	131.3	CZ
15.8	4.7	0.7	2.3	1.6	0.2	0.4	2.1	10.5	1.3		0.3	53.3	DK
193.2	135.5	37.5	91.5	6.6	1.0	10.0	61.8	65.2	10.5			935.8	DE
2.4	0.7	0.1	0.3	0.3	0.0	0.0	0.5	1.3	0.3			19.7	EE
14.9	8.5	1.9	6.0	0.6		0.0	3.4	19.3	1.0			64.2	IE
20.5	6.0	0.7	4.8	0.5	0.2	0.8	12.4	7.8	4.5			94.7	EL
102.0	41.0	11.4	18.0	11.6	0.5	4.5	31.8	34.4	14.4			340.5	ES
150.0	90.5	25.1	53.3	12.1		4.2	43.4	76.7	16.2			475.4	FR
6.6	3.3	0.6	2.0	0.7		0.5	2.5	2.9	1.8			24.7	HR
114.9	82.5	23.3	51.5	7.8	0.5	7.2	32.1	30.4	18.3			438.2	IT
2.9	0.5	0.1	0.4	0.1	0.0	0.0	1.3	0.5	0.6			9.7	CY
3.6	1.4	0.4	0.5	0.5	0.0	0.1	0.7	2.7	0.7		0.0	11.7	LV
5.8	1.4	0.3	0.9	0.2	0.0	0.3	3.3	4.4	1.0			20.4	LT
7.0	1.6	0.6	1.1	0.0	0.0	0.0	0.7	0.8	0.1			11.5	LU
13.1	12.9	3.3	8.1	1.5	0.0	0.8	6.5	6.9	3.5			62.1	HU
1.0	0.2	0.1	0.0	0.0	0.0		0.3	0.1	0.2			2.3	MT
42.3	35.3	7.9	17.5	9.9	0.2	1.7	10.7	19.2	3.3		0.2	207.0	NL
25.8	9.0	1.5	6.6	0.9	0.1	0.4	16.5	7.3	1.6			82.0	AT
55.4	58.5	8.6	38.8	11.0		22.9	28.7	30.1	10.6			397.8	PL
20.1	4.3	1.1	2.0	1.2	0.0	1.2	7.3	6.8	6.5		0.2	71.2	PT
17.7	10.4	2.1	7.2	1.1	0.5	10.6	12.9	18.3	5.8			113.4	RO
5.8	1.6	0.5	0.9	0.2	0.0	0.4	1.1	1.8	0.6			17.8	SI
6.9	4.8	1.5	2.9	0.4	0.1	1.7	9.3	2.7	1.5			41.2	SK
14.6	3.9	1.1	1.5	1.4	1.1	0.1	6.1	6.5	2.0		0.1	60.8	FI
19.5	3.2	0.8	1.0	1.4	0.2	0.7	6.9	6.9	1.3			55.5	SE
157.5	93.2	19.9	68.1	5.3	1.6	9.9	30.7	41.7	20.0			516.8	UK
													MK
92.6	66.5	23.1	33.8	9.7		8.3	62.4	56.5	16.2			506.8	TR
1.9	0.5	0.0	0.0	0.5		0.2	2.0	0.6	0.2			5.6	IS
14.4	3.5	1.2	0.7	1.6	0.3	3.4	8.6	4.5	1.3			54.7	NO
20.3	13.6	4.3	8.9	0.4	0.1	0.2	4.0	6.0	0.7	0.0	0.1	53.5	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 (*) 2016

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	35.0	85.6	9.9	4.5	13.9	20.4	1.8	13.4	5.2	8.2	51.0
BE	73.9	99.3	22.3	75.7	23.5	0.8	14.9	8.9	3.4	23.8	4.7	17.2	42.1
BG	72.1	97.6	64.6	94.1	5.9	0.0	6.9	3.9	5.6	13.1	4.5	8.3	64.6
CZ	77.1	96.0	56.0	87.5	0.7	11.7	9.7	18.7	1.4	14.4	4.7	10.9	49.9
DK	73.3	98.9	36.3	84.3	6.2	9.5	10.2	2.4		9.2	1.5	25.7	61.3
DE	85.3	98.8	42.1	91.2	6.0	2.8	16.0	29.6	0.1		0.0	0.1	70.2
EE	89.3	99.9	78.7	90.6		9.4	3.0	0.5	0.6	1.5	4.8	2.2	90.3
IE	63.2	99.9	30.9	96.5	2.5	1.0	11.2	0.1	30.8	6.0	0.4	19.1	43.6
EL	73.8	98.8	53.6	84.9	15.0	0.1	7.8	2.3	10.5	1.7	1.5	11.9	72.1
ES	76.3	98.3	27.8	82.6	16.3	1.1	16.0	13.6	3.0	16.4	9.8	11.0	46.3
FR	71.3	98.8	13.5	77.6	16.3	6.1	14.7	23.2	1.8	22.2	5.3	15.3	32.2
HR	70.7	97.2	29.0	69.4	26.5	4.1	13.1	1.5	0.5	13.4	4.8	17.1	62.8
IT	81.6	98.0	29.8	73.2	20.3	6.5	13.7	22.4	2.1	17.8	8.5	7.7	41.5
CY	76.3	100.0	45.0	100.0		0.0	8.2		1.0	1.1	0.5	8.3	89.1
LV	65.2	98.5	24.8	97.4		2.6	8.2	0.4	0.3	5.1	0.9	18.0	75.3
LT	57.3	97.4	26.0	49.3	48.3	2.4	10.4			24.7	2.5	20.9	51.9
LU	87.1	99.7	2.5	100.0			11.2	23.7	4.5	14.6	0.6	1.8	54.9
HU	72.8	98.1	30.6	87.1	10.7	2.2	10.7	3.6	3.7	9.1	9.1	14.3	60.2
MT	78.9	100.0	32.2	100.0			1.9						100.0
NL	83.9	99.0	39.4	81.6	14.2	4.2	15.4	17.9	0.6	48.4	3.3	13.7	16.1
AT	69.1	99.3	18.8	71.0	26.4	2.6	19.2	13.1	3.3	12.8	16.0	9.2	45.6
PL	82.6	93.0	53.4	94.7	3.3	2.0	9.3	17.7	3.9	21.1	5.6	14.0	37.7
PT	70.9	97.7	35.3	86.3	13.7		15.1	1.2		14.1	17.1	10.7	56.9
RO	67.3	86.1	39.3	88.5	7.6	3.9	17.2	11.3		14.3	1.6	7.9	64.9
SI	80.5	97.2	35.5	99.9		0.1	11.4	12.7	6.5	4.6	19.3	5.5	51.4
SK	67.2	93.9	29.0	63.0	19.7	17.3	25.8	41.6	1.7	7.5	6.3	4.8	38.1
FI	75.8	99.7	41.6	89.4	8.8	1.8	15.6	12.9	1.4	11.1	38.6	2.4	33.6
SE	72.8	98.2	23.2	73.7	21.8	4.5	19.1	16.2	1.3	16.5	10.7	5.3	49.9
UK	82.1	97.7	26.6	74.2	12.3	13.4	12.5	19.3	1.0	9.7	4.1	8.3	57.6
MK													
TR	73.3	97.8	39.8	94.2	4.4	1.4	16.4	4.8	2.4	9.6	1.8	8.4	73.0
IS	49.7	94.5	0.1	100.0			7.6	0.8	2.9			13.3	83.1
NO	73.7	91.6	40.8	11.3	5.0	83.7	10.3	2.0	3.6	33.4	2.2	8.5	50.4
CH	79.8	99.5	8.0	89.3	10.7	0.0	11.7	5.1	1.9	16.6	3.7	13.4	59.4

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

GHG Emissions (*) 2016

BY SECTOR (SHARES %)

3.2.4

TRANSPORT (**)	OTHER SECTORS	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	AGRICULTURE	WASTE	OTHER	INDIRECT CO ₂	TOTAL EMISSIONS	
31.6	19.2	24.4	63.2	12.3	0.2	2.4	8.4	9.7	3.1		0.0	100	EU-28
34.4	28.4	23.2	67.7	9.1	0.1	0.7	16.8	8.1	1.2			100	BE
23.8	4.6	16.1	59.2	24.7	0.1	2.4	10.2	10.9	6.8			100	BG
20.0	13.9	21.2	69.6	9.2	0.4	4.0	11.6	6.5	4.2		0.6	100	CZ
40.9	12.0	16.1	49.7	34.2	0.5	1.1	4.0	19.8	2.4		0.5	100	DK
24.5	17.2	27.7	67.5	4.9	0.1	1.2	6.6	7.0	1.1			100	DE
13.9	4.2	14.7	44.2	41.0	0.3	0.1	2.5	6.6	1.6			100	EE
36.8	21.0	21.9	71.0	7.1		0.1	5.3	30.0	1.5			100	IE
29.7	8.7	11.6	80.4	8.0	0.3	1.2	13.1	8.3	4.8			100	EL
39.9	16.1	27.9	43.9	28.2	0.2	1.7	9.3	10.1	4.2			100	ES
44.8	27.0	27.7	58.9	13.4		1.2	9.1	16.1	3.4			100	FR
38.6	19.3	18.7	59.8	21.5		2.8	10.0	11.9	7.4			100	HR
32.8	23.6	28.2	62.4	9.4	0.2	2.0	7.3	6.9	4.2			100	IT
39.5	7.1	15.8	69.0	15.3	0.3	0.0	12.9	5.1	5.7			100	CY
47.7	19.3	30.4	37.9	31.7	0.2	1.5	5.7	22.8	6.2		0.2	100	LV
50.9	12.4	23.2	61.0	15.8	0.2	2.6	16.0	21.8	4.9			100	LT
69.8	16.5	34.8	63.7	1.5	0.0	0.3	5.7	6.5	0.7			100	LU
29.5	29.2	25.8	62.5	11.7	0.0	1.9	10.4	11.1	5.6			100	HU
56.0	9.7	69.2	24.1	6.7	0.2		11.3	2.8	7.0			100	MT
24.6	20.5	22.5	49.4	28.1	0.1	1.0	5.2	9.3	1.6		0.1	100	NL
45.9	16.0	16.7	73.1	10.2	0.1	0.7	20.1	8.9	1.9			100	AT
18.1	19.1	14.7	66.4	18.8		7.0	7.2	7.6	2.7			100	PL
40.7	8.8	26.4	46.8	26.8	0.1	2.3	10.2	9.5	9.1		0.2	100	PT
27.0	15.8	19.9	69.2	11.0	0.7	13.9	11.4	16.2	5.2			100	RO
41.7	11.4	29.4	55.3	15.3	0.0	2.8	6.4	10.0	3.2			100	SI
26.5	18.4	30.4	61.6	8.0	0.3	6.1	22.7	6.5	3.6			100	SK
31.8	8.5	26.8	38.3	34.8	2.4	0.3	10.1	10.8	3.3		0.1	100	FI
49.1	8.1	24.3	31.1	44.6	0.5	1.8	12.4	12.4	2.4			100	SE
38.0	22.5	21.3	73.0	5.7	0.4	2.3	5.9	8.1	3.9			100	UK
													MK
25.5	18.3	34.7	50.7	14.6		2.2	12.3	11.1	3.2			100	TR
72.2	20.1	0.3	1.1	98.5		5.5	35.3	10.8	4.2			100	IS
38.9	9.3	35.4	18.8	45.7	0.7	8.4	15.8	8.3	2.3			100	NO
47.9	32.1	31.7	65.2	3.1	0.3	0.5	7.5	11.1	1.4	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.

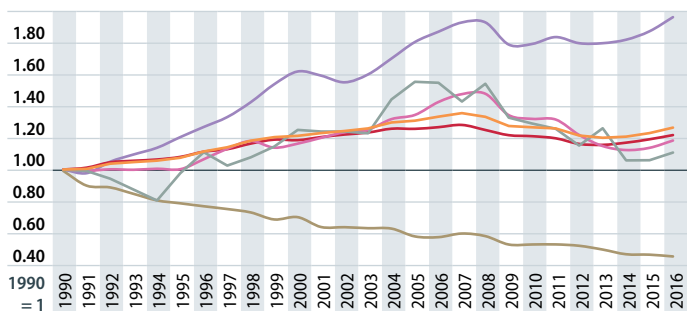
(**) Excluding international maritime (international traffic departing from the EU), including international aviation.

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	83.5	14.3	69.2	723.1	14.1	141.1	30.3	110.8	5.3	967.1	5830.4
1995	100.6	15.1	85.5	781.8	11.2	141.5	29.9	111.6	5.2	1040.3	5498.3
2000	135.1	19.9	115.3	859.6	9.9	164.4	27.9	136.4	6.7	1175.7	5414.2
2005	150.6	19.8	130.8	912.2	8.2	190.1	27.4	162.7	8.3	1269.5	5513.9
2010	149.6	18.0	131.6	877.9	7.5	186.6	24.7	161.9	6.9	1228.5	5070.9
2011	153.2	17.9	135.3	868.2	7.5	186.0	22.4	163.5	6.7	1221.6	4918.3
2012	150.0	16.7	133.3	842.0	7.4	172.1	21.2	151.0	6.2	1177.7	4841.1
2013	150.0	15.4	134.6	837.8	7.0	162.2	19.4	142.9	6.7	1163.8	4739.2
2014	151.8	15.1	136.8	847.9	6.6	158.6	18.8	139.8	5.7	1170.6	4567.1
2015	156.3	15.3	141.0	863.6	6.6	160.6	19.6	141.0	5.7	1192.7	4601.5
2016	163.7	15.7	148.0	883.2	6.4	167.2	20.3	146.9	5.9	1226.4	4587.7

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



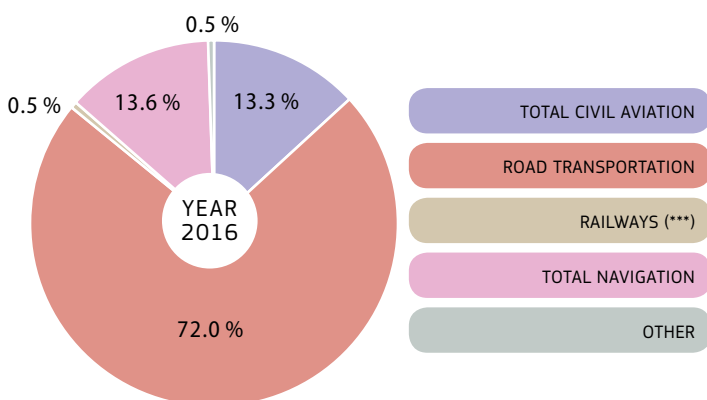
Notes: (*) Excluding International Bunkers (international traffic departing from the EU)
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities 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 TRANSPORTATION (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.6	17.1	82.9	74.8	1.5	14.6	21.5	78.5	0.6	16.6	100
1995	9.7	15.0	85.0	75.2	1.1	13.6	21.1	78.9	0.5	18.9	100
2000	11.5	14.7	85.3	73.1	0.8	14.0	17.0	83.0	0.6	21.7	100
2005	11.9	13.1	86.9	71.9	0.6	15.0	14.4	85.6	0.7	23.0	100
2010	12.2	12.0	88.0	71.5	0.6	15.2	13.2	86.8	0.6	24.2	100
2011	12.5	11.7	88.3	71.1	0.6	15.2	12.1	87.9	0.6	24.8	100
2012	12.7	11.1	88.9	71.5	0.6	14.6	12.3	87.7	0.5	24.3	100
2013	12.9	10.3	89.7	72.0	0.6	13.9	12.0	88.0	0.6	24.6	100
2014	13.0	9.9	90.1	72.4	0.6	13.6	11.9	88.1	0.5	25.6	100
2015	13.1	9.8	90.2	72.4	0.6	13.5	12.2	87.8	0.5	25.9	100
2016	13.3	9.6	90.4	72.0	0.5	13.6	12.1	87.9	0.5	26.7	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 – 2016

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	163.7	15.7	148.0	883.2	6.4	167.2	20.3	146.9	5.9	1226.4	4587.7
BE	4.4	0.0	4.4	25.8	0.1	22.1	0.4	21.6	0.2	52.4	143.8
BG	0.7	0.1	0.6	8.9	0.0	0.3	0.0	0.2	0.3	10.2	59.9
CZ	1.0	0.0	1.0	18.1	0.3	0.0	0.0		0.1	19.4	131.3
DK	3.0	0.1	2.9	11.9	0.3	2.6	0.7	2.0		17.8	55.3
DE	28.8	2.4	26.4	160.3	1.0	10.3	2.0	8.3	1.2	201.5	944.1
EE	0.1	0.0	0.1	2.3	0.1	0.9	0.1	0.8		3.3	20.5
IE	2.6	0.0	2.6	11.8	0.1	0.8	0.3	0.5	0.1	15.4	64.7
EL	3.5	0.4	3.1	15.0	0.1	7.6	1.9	5.7	0.0	26.3	100.5
ES	18.5	2.7	15.8	81.1	0.2	26.4	2.0	24.4	0.1	126.4	364.9
FR	21.9	4.7	17.2	126.0	0.4	6.4	1.3	5.1	0.4	155.1	480.4
HR	0.4	0.0	0.4	5.9	0.1	0.1	0.1	0.0		6.6	24.7
IT	12.6	2.2	10.4	97.7	0.1	10.7	3.9	6.8	0.7	121.7	445.1
CY	0.9	0.0	0.9	2.0		0.9	0.0	0.9		3.8	10.6
LV	0.4	0.0	0.4	3.0	0.2	1.1	0.0	1.1		4.6	12.8
LT	0.3	0.0	0.3	5.2	0.2	0.5	0.0	0.5	0.1	6.3	20.9
LU	1.5	0.0	1.5	5.5	0.0	0.0	0.0	0.0		7.0	11.5
HU	0.6	0.0	0.6	12.2	0.1	0.0	0.0		0.1	13.1	62.1
MT	0.4	0.0	0.4	0.5		5.6	0.1	5.5		6.5	7.8
NL	11.8	0.0	11.8	29.3	0.1	41.5	1.0	40.5	0.1	82.7	247.5
AT	2.4	0.0	2.3	22.8	0.1	0.1	0.0	0.1	0.6	25.9	82.1
PL	2.1	0.1	2.0	52.1	0.3	0.6	0.0	0.6	0.9	56.0	398.4
PT	3.8	0.5	3.4	15.9	0.0	2.3	0.3	2.1		22.1	73.2
RO	1.0	0.1	0.9	16.2	0.4	0.2	0.1	0.1	0.0	17.8	113.5
SI	0.1	0.0	0.1	5.7	0.0	0.4		0.4	0.0	6.2	18.2
SK	0.2	0.0	0.2	6.3	0.1	0.0	0.0	0.0	0.3	6.9	41.2
FI	2.2	0.2	2.0	11.9	0.1	1.3	0.4	0.9	0.0	15.5	61.7
SE	3.1	0.6	2.6	15.8	0.0	7.1	0.3	6.8	0.2	26.3	62.3
UK	35.5	1.6	34.0	114.0	2.0	17.3	5.4	11.9	0.6	169.4	528.7
MK											
TR	15.0	4.3	10.7	75.6	0.4	4.0	1.0	3.0	0.6	95.6	509.8
IS	0.9	0.0	0.9	0.9		0.2	0.0	0.2		2.1	5.8
NO	2.7	1.2	1.5	9.9	0.1	2.4	1.7	0.7		15.0	55.4
CH	5.3	0.1	5.2	14.9	0.0	0.1	0.1	0.0	0.0	20.4	53.5

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

2016 – 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	13.3	9.6	90.4	72.0	0.5	13.6	12.1	87.9	0.5	26.7	100
BE	8.4	0.2	99.8	49.1	0.1	42.1	1.9	98.1	0.3	36.5	100
BG	6.9	8.7	91.3	87.0	0.4	2.5	2.9	97.1	3.3	17.1	100
CZ	5.0	1.0	99.0	93.0	1.6	0.1	100.0		0.3	14.8	100
DK	16.8	4.5	95.5	67.0	1.4	14.7	24.9	75.1		32.2	100
DE	14.3	8.3	91.7	79.5	0.5	5.1	19.0	81.0	0.6	21.3	100
EE	2.0	2.1	97.9	68.9	1.6	27.4	6.7	93.3		16.0	100
IE	17.0	0.4	99.6	76.3	0.8	5.0	34.9	65.1	0.9	23.8	100
EL	13.4	11.8	88.2	57.0	0.5	29.1	24.9	75.1	0.0	26.2	100
ES	14.7	14.6	85.4	64.2	0.2	20.9	7.6	92.4	0.1	34.6	100
FR	14.1	21.5	78.5	81.3	0.3	4.1	20.3	79.7	0.3	32.3	100
HR	6.2	7.6	92.4	90.5	1.0	2.2	90.9	9.1		26.6	100
IT	10.3	17.3	82.7	80.3	0.0	8.8	36.2	63.8	0.6	27.3	100
CY	23.1	0.1	99.9	52.8		24.0	0.3	99.7		36.2	100
LV	8.1	0.5	99.5	64.3	4.2	23.4	1.4	98.6		36.4	100
LT	4.6	0.5	99.5	83.0	2.8	8.4	2.5	97.5	1.2	30.2	100
LU	21.5	0.0	100.0	78.4	0.1	0.0	89.4	10.6		60.6	100
HU	4.6	0.7	99.3	93.4	1.1	0.1	100.0		0.7	21.1	100
MT	5.9	1.1	98.9	8.4		85.7	1.4	98.6		83.6	100
NL	14.3	0.3	99.7	35.4	0.1	50.1	2.5	97.5	0.1	33.4	100
AT	9.2	2.0	98.0	87.9	0.5	0.3	14.8	85.2	2.1	31.5	100
PL	3.8	5.5	94.5	93.0	0.5	1.1	3.6	96.4	1.5	14.1	100
PT	17.4	11.7	88.3	72.0	0.2	10.5	11.4	88.6		30.2	100
RO	5.4	8.8	91.2	91.1	2.2	1.3	56.5	43.5	0.0	15.7	100
SI	1.0	3.2	96.8	91.9	0.6	6.5		100.0	0.0	34.1	100
SK	2.3	2.3	97.7	91.6	1.4	0.3	20.2	79.8	4.3	16.8	100
FI	14.0	8.7	91.3	77.1	0.4	8.4	31.4	68.6	0.1	25.1	100
SE	11.8	17.8	82.2	60.0	0.2	27.2	4.3	95.7	0.8	42.2	100
UK	21.0	4.4	95.6	67.3	1.2	10.2	31.2	68.8	0.3	32.0	100
MK											
TR	15.7	28.5	71.5	79.1	0.4	4.2	24.2	75.8	0.7	18.8	100
IS	45.4	2.4	97.6	44.3		10.3	13.0	87.0		36.1	100
NO	18.0	44.3	55.7	65.9	0.3	15.8	71.5	28.5		27.1	100
CH	26.1	2.7	97.3	72.9	0.1	0.7	81.9	18.1	0.1	38.1	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.

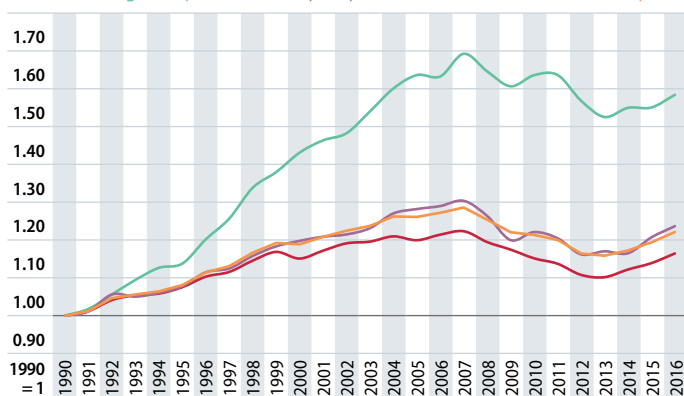
3.2.7 GHG Emissions from Road Transport

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	723.1	459.8	66.1	187.8	9.1	0.3	967.1	5830.4
1995	781.8	494.6	75.1	202.4	9.5	0.1	1040.3	5498.3
2000	859.6	529.5	94.5	224.9	10.6	0.1	1175.7	5414.2
2005	912.2	551.9	108.0	240.7	11.1	0.4	1269.5	5513.9
2010	877.9	529.8	108.0	229.3	10.5	0.3	1228.5	5070.9
2011	868.2	523.2	108.0	226.2	10.5	0.3	1221.6	4918.3
2012	842.0	509.6	103.5	218.2	10.4	0.3	1177.7	4841.1
2013	837.8	506.8	100.7	219.8	10.2	0.3	1163.8	4739.2
2014	847.9	516.2	102.3	218.8	10.4	0.3	1170.6	4567.1
2015	863.6	524.0	102.3	226.7	10.4	0.3	1192.7	4601.5
2016	883.2	535.7	104.5	232.3	10.4	0.2	1226.4	4587.7

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



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

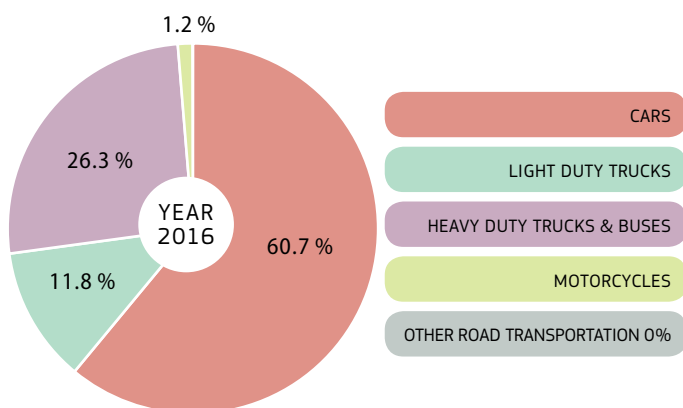
(**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.

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	74.8	63.6	9.1	26.0	1.3	0.0	16.6	100.0
1995	75.2	63.3	9.6	25.9	1.2	0.0	18.9	100.0
2000	73.1	61.6	11.0	26.2	1.2	0.0	21.7	100.0
2005	71.9	60.5	11.8	26.4	1.2	0.0	23.0	100.0
2010	71.5	60.3	12.3	26.1	1.2	0.0	24.2	100.0
2011	71.1	60.3	12.4	26.1	1.2	0.0	24.8	100.0
2012	71.5	60.5	12.3	25.9	1.2	0.0	24.3	100.0
2013	72.0	60.5	12.0	26.2	1.2	0.0	24.6	100.0
2014	72.4	60.9	12.1	25.8	1.2	0.0	25.6	100.0
2015	72.4	60.7	11.8	26.2	1.2	0.0	25.9	100.0
2016	72.0	60.7	11.8	26.3	1.2	0.0	26.7	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
EU-28	4 544.9	4 301.4	4 293.9	4 434.5	4 071.0	3 651.9	3 637.3
BE	123.6	129.0	131.5	129.2	117.8	104.6	104.6
BG	79.4	58.4	45.5	51.2	48.3	48.7	45.9
CZ	166.9	134.3	128.6	127.3	119.4	106.5	108.3
DK	56.5	64.5	57.4	54.7	52.2	38.2	40.2
DE	1 065.0	954.8	920.1	889.9	857.7	821.3	827.9
EE	37.2	18.3	15.4	17.3	19.1	16.0	17.6
IE	33.9	36.9	47.0	50.6	44.0	41.0	42.5
EL	85.9	89.6	105.5	116.5	99.9	77.8	74.5
ES	236.7	274.3	321.5	380.4	296.2	285.8	276.7
FR	407.0	405.7	428.0	439.9	404.8	355.8	357.5
HR	23.9	17.3	20.0	23.7	21.5	18.4	18.6
IT	444.2	457.8	478.7	503.7	433.7	365.1	360.6
CY	5.4	6.7	7.9	8.8	8.8	7.7	8.2
LV	20.1	9.3	7.2	8.0	9.0	7.7	7.7
LT	36.2	15.1	11.9	14.2	13.9	13.4	13.4
LU	12.2	9.7	9.6	13.3	12.4	10.6	10.5
HU	74.0	62.2	59.3	61.3	52.8	47.2	48.2
MT	2.1	2.8	2.9	2.9	2.9	2.1	1.8
NL	167.7	181.1	182.2	188.7	192.6	176.6	177.4
AT	63.2	65.5	68.0	81.3	74.4	68.8	69.7
PL	376.4	361.8	317.6	322.0	333.1	312.4	323.2
PT	47.2	56.7	68.3	72.0	55.7	55.5	53.8
RO	172.0	125.5	94.0	101.3	84.0	78.5	75.9
SI	15.1	15.3	15.5	17.0	16.4	13.7	14.5
SK	62.1	44.9	41.6	43.0	38.8	34.0	34.2
FI	58.1	59.2	58.2	58.4	65.7	46.4	49.9
SE	58.8	60.7	56.7	55.8	55.0	45.5	45.1
UK	614.1	584.0	594.0	601.7	540.6	452.7	428.9
MK							
TR	147.1	179.1	227.6	264.2	325.4	391.9	413.5
IS	2.5	2.7	3.3	3.4	4.0	4.2	4.4
NO	36.3	39.1	43.1	44.5	47.1	46.2	45.5
CH	47.6	47.3	48.5	49.4	49.4	43.7	44.5

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
EU-28	950.8	1 022.2	1 158.3	1 254.9	1 215.3	1 179.4	1 212.7
BE	37.0	38.4	45.4	55.1	55.2	49.7	52.1
BG	7.3	6.0	5.9	8.6	8.7	9.9	10.1
CZ	7.6	9.6	12.2	17.7	17.6	18.2	19.0
DK	15.4	18.7	18.7	18.4	17.7	17.5	17.6
DE	180.2	195.6	205.6	189.9	184.9	192.5	199.4
EE	3.1	1.9	2.0	2.6	3.0	3.3	3.2
IE	6.1	7.6	12.9	15.7	14.1	14.7	15.2
EL	24.7	30.1	32.4	33.2	33.4	25.5	25.8
ES	74.7	85.7	113.9	138.2	129.5	120.3	125.0
FR	135.3	146.3	161.0	163.3	155.9	153.5	153.2
HR	4.4	3.6	4.6	5.8	6.2	6.2	6.5
IT	109.0	121.3	133.4	141.8	129.6	119.9	120.4
CY	2.1	2.5	3.2	3.8	3.7	3.3	3.7
LV	4.7	2.6	2.3	4.1	4.5	4.3	4.5
LT	6.4	3.6	3.5	4.7	4.9	5.5	6.2
LU	2.9	3.8	5.7	8.4	7.7	6.9	6.9
HU	9.2	7.9	9.6	12.7	12.2	12.6	12.9
MT	1.4	2.3	3.0	2.9	5.4	6.1	6.5
NL	67.2	72.4	84.8	96.3	89.2	81.8	81.9
AT	14.7	17.1	20.4	26.8	24.5	24.6	25.7
PL	21.9	23.7	28.9	36.6	49.6	48.8	55.4
PT	13.0	16.0	22.8	23.4	23.0	21.4	21.9
RO	12.8	8.9	10.0	12.7	14.6	16.3	17.6
SI	2.7	3.7	3.7	4.5	5.3	5.6	6.1
SK	6.8	5.5	5.7	7.7	7.6	6.9	6.8
FI	14.7	13.1	15.0	15.7	14.9	13.9	15.4
SE	22.3	24.2	26.2	29.5	29.0	25.9	26.0
UK	143.1	150.1	165.4	174.9	163.3	164.2	167.6
MK							
TR	27.2	34.6	38.4	47.7	52.6	88.1	93.8
IS	0.8	0.8	1.1	1.2	1.2	1.7	2.0
NO	12.2	13.8	15.2	15.7	16.0	15.3	14.7
CH	17.5	17.7	20.4	19.2	20.5	20.1	20.2

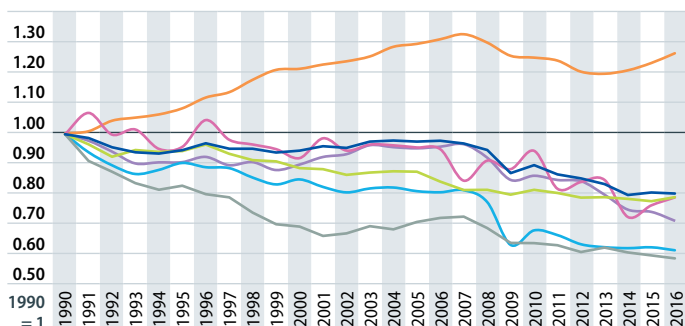
Note: (*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries. For EU-28, changes in international maritime emissions between 2010 and 2011 show 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	4194.6	4165.4	1668.3	1431.7	122.1	114.5	833.6	183.0	16.6	112.2	34.2	51.9	435.8
1995	3977.6	3948.3	1512.2	1282.6	129.6	100.0	743.6	163.2	16.8	108.6	38.1	60.3	356.6
2000	3972.3	3945.4	1498.6	1284.5	133.2	80.9	679.1	145.2	17.4	91.4	36.0	54.4	334.6
2005	4107.7	4080.8	1589.6	1367.0	142.8	79.8	628.1	128.4	15.8	85.2	33.3	49.5	315.9
2010	3799.1	3773.9	1436.2	1229.4	134.2	72.6	529.5	110.8	13.9	71.8	28.2	39.8	264.9
2011	3658.0	3632.8	1412.3	1210.6	131.6	70.1	512.2	108.2	13.2	70.3	27.0	37.9	255.6
2012	3611.3	3586.6	1405.2	1219.2	126.8	59.3	490.7	103.8	12.2	68.2	26.2	38.1	242.4
2013	3526.7	3500.5	1329.4	1153.1	120.1	56.3	481.6	102.9	9.4	68.8	26.8	37.5	236.2
2014	3354.7	3329.2	1245.7	1073.7	116.7	55.4	473.5	102.8	8.9	65.0	24.7	37.0	235.0
2015	3393.7	3368.3	1233.5	1064.0	115.9	53.6	477.5	104.0	9.0	63.4	24.6	38.0	238.5
2016	3380.7	3356.1	1183.4	1012.1	118.2	53.1	468.2	96.2	8.7	63.0	24.0	38.5	237.8

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

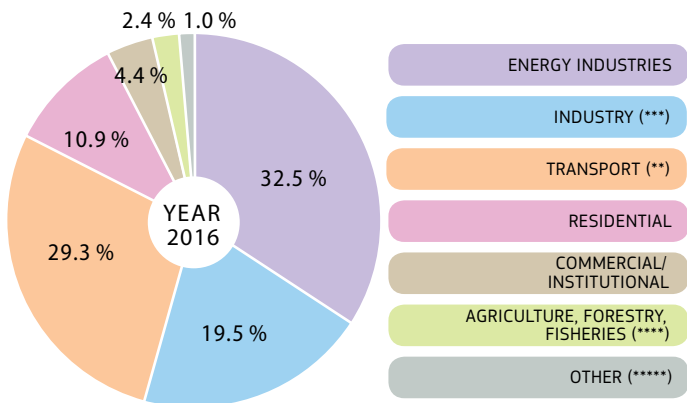


- Notes:** (*) Excluding LULUCF (Land Use, Land – Use Change and Forestry) emissions and international maritime, including international aviation and indirect CO₂.
 (**) Excluding international maritime (international traffic departing from the EU), including international aviation.
 (***) Emissions 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	
841.2	799.1	199.1	506.1	93.9	23.0	29.2	326.1	14.8	5.3		4.3	4544.9	1990
912.0	766.9	175.4	499.8	91.8	13.6	29.3	304.8	10.7	4.6		3.7	4301.4	1995
1023.4	734.6	174.0	474.5	86.0	9.7	26.9	305.3	10.2	3.4		2.7	4293.9	2000
1093.8	758.6	185.1	488.6	85.0	10.7	27.0	310.7	9.9	3.8		2.3	4434.5	2005
1055.0	744.7	187.3	478.4	79.0	8.5	25.1	257.1	9.3	3.7		2.0	4071.0	2010
1046.6	653.4	166.4	409.5	77.5	8.3	25.2	255.8	9.7	3.5		1.8	3928.7	2011
1015.4	667.9	164.9	427.1	75.9	7.4	24.7	241.8	9.6	3.5		1.8	3868.0	2012
1009.5	672.7	166.9	430.2	75.6	7.2	26.2	239.6	10.0	3.4		1.6	3781.2	2013
1019.3	583.8	147.6	361.6	74.5	6.9	25.5	243.9	10.4	3.4		1.6	3614.0	2014
1039.9	610.7	154.9	382.0	73.9	6.7	25.4	243.3	10.3	3.0		1.6	3651.9	2015
1067.3	630.5	158.8	396.7	75.0	6.7	24.6	241.1	10.7	3.4		1.5	3637.3	2016



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				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	92.3	99.3	40.1	85.8	7.3	6.9	20.0	22.0	2.0	13.5	4.1	6.2	52.3
1991	92.9	99.3	39.4	86.2	7.2	6.6	19.1	21.6	2.3	13.6	4.7	7.0	50.9
1992	93.0	99.3	39.2	86.3	7.4	6.2	18.8	21.2	2.2	12.8	4.7	7.2	51.8
1993	93.1	99.3	38.2	85.6	8.0	6.4	18.5	20.9	2.3	12.8	4.8	7.7	51.5
1994	92.6	99.3	38.7	85.2	8.2	6.7	18.6	22.0	2.3	13.7	5.2	7.9	48.9
1995	92.5	99.3	38.3	84.8	8.6	6.6	18.8	21.9	2.3	14.6	5.1	8.1	48.0
1996	92.8	99.3	37.9	85.1	8.6	6.2	18.1	20.8	2.4	14.5	5.1	8.3	48.9
1997	92.6	99.3	37.6	84.7	8.9	6.4	18.3	21.8	2.5	14.1	5.2	8.1	48.2
1998	92.6	99.3	38.0	85.1	9.0	5.9	17.4	21.9	2.6	13.4	5.2	8.1	48.8
1999	92.7	99.3	37.4	85.5	8.9	5.7	17.1	21.3	2.6	13.3	5.2	8.3	49.4
2000	92.5	99.3	38.0	85.7	8.9	5.4	17.2	21.4	2.6	13.5	5.3	8.0	49.3
2001	92.9	99.4	38.3	86.1	8.8	5.1	16.4	20.4	2.8	13.9	5.2	8.4	49.3
2002	92.9	99.3	38.9	86.1	8.8	5.1	16.0	20.2	2.8	13.6	5.4	8.5	49.5
2003	92.8	99.3	39.3	86.6	8.5	4.9	15.8	19.9	2.7	13.8	5.4	8.3	49.9
2004	92.6	99.4	39.0	86.4	8.7	4.9	15.6	20.6	2.6	13.6	5.2	8.1	49.9
2005	92.6	99.3	39.0	86.0	9.0	5.0	15.4	20.4	2.5	13.6	5.3	7.9	50.3
2006	92.6	99.3	39.1	86.2	8.7	5.0	15.2	21.3	2.5	13.3	5.3	7.2	50.4
2007	92.4	99.3	39.9	86.5	8.7	4.8	15.4	21.9	2.5	12.8	5.2	7.2	50.5
2008	92.7	99.3	38.8	85.8	9.2	4.9	15.1	21.4	2.5	13.5	5.0	7.1	50.5
2009	93.7	99.3	38.4	85.9	9.5	4.6	13.5	18.7	2.7	14.2	5.4	7.6	51.4
2010	93.3	99.3	38.1	85.6	9.3	5.1	14.0	20.9	2.6	13.6	5.3	7.5	50.0
2011	93.1	99.3	38.9	85.7	9.3	5.0	14.1	21.1	2.6	13.7	5.3	7.4	49.9
2012	93.4	99.3	39.2	86.8	9.0	4.2	13.7	21.1	2.5	13.9	5.3	7.8	49.4
2013	93.3	99.3	38.0	86.7	9.0	4.2	13.8	21.4	2.0	14.3	5.6	7.8	49.0
2014	92.8	99.2	37.4	86.2	9.4	4.4	14.2	21.7	1.9	13.7	5.2	7.8	49.6
2015	92.9	99.3	36.6	86.3	9.4	4.3	14.2	21.8	1.9	13.3	5.2	8.0	49.9
2016	92.9	99.3	35.3	85.5	10.0	4.5	13.9	20.5	1.9	13.5	5.1	8.2	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				OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESS- ES & PRODUCT USE		AGRICULTURE	WASTE	OTHER	INDIRECT CO ₂	TOTAL EMISSIONS	
20.2	19.2	24.9	63.3	11.7	0.6	0.7	7.2	0.3	0.1			0.1	100	1990
20.5	20.5	24.5	64.5	10.9	0.5	0.7	6.6	0.3	0.1			0.1	100	1991
21.8	19.8	23.8	64.9	11.3	0.4	0.7	6.5	0.2	0.1			0.1	100	1992
22.5	20.5	23.0	65.5	11.5	0.4	0.7	6.5	0.2	0.1			0.1	100	1993
22.9	19.5	22.7	65.1	12.1	0.4	0.7	6.9	0.2	0.1			0.1	100	1994
23.1	19.4	22.9	65.2	12.0	0.3	0.7	7.1	0.2	0.1			0.1	100	1995
23.2	20.5	23.1	65.5	11.3	0.3	0.7	6.7	0.2	0.1			0.1	100	1996
24.1	19.7	22.8	65.5	11.6	0.3	0.7	7.0	0.2	0.1			0.1	100	1997
25.0	19.3	23.5	65.0	11.5	0.3	0.7	7.0	0.2	0.1			0.1	100	1998
26.0	19.3	23.9	64.5	11.6	0.3	0.7	6.9	0.2	0.1			0.1	100	1999
25.9	18.6	23.7	64.6	11.7	0.2	0.7	7.1	0.2	0.1			0.1	100	2000
25.7	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	0.7	6.7	0.2	0.1			0.1	100	2002
25.9	18.7	23.4	65.6	11.0	0.2	0.7	6.8	0.2	0.1			0.1	100	2003
26.5	18.6	24.1	64.8	11.1	0.3	0.6	7.1	0.2	0.1			0.1	100	2004
26.8	18.6	24.4	64.4	11.2	0.3	0.7	7.0	0.2	0.1			0.1	100	2005
27.1	18.4	25.4	63.7	10.9	0.3	0.7	7.1	0.2	0.1			0.1	100	2006
27.7	16.7	25.2	63.2	11.7	0.3	0.7	7.2	0.2	0.1			0.0	100	2007
27.7	18.2	25.9	63.2	10.9	0.3	0.7	7.0	0.2	0.1			0.0	100	2008
28.8	19.0	25.5	63.5	11.0	0.2	0.7	5.9	0.2	0.1			0.0	100	2009
28.0	19.7	25.2	64.2	10.6	0.2	0.7	6.3	0.2	0.1			0.0	100	2010
28.8	18.0	25.5	62.7	11.9	0.2	0.7	6.5	0.2	0.1			0.0	100	2011
28.3	18.6	24.7	63.9	11.4	0.2	0.7	6.3	0.2	0.1			0.0	100	2012
28.8	19.2	24.8	64.0	11.2	0.2	0.7	6.3	0.3	0.1			0.0	100	2013
30.6	17.5	25.3	61.9	12.8	0.2	0.8	6.8	0.3	0.1			0.0	100	2014
30.9	18.1	25.4	62.5	12.1	0.2	0.7	6.7	0.3	0.1			0.0	100	2015
31.8	18.8	25.2	62.9	11.9	0.2	0.7	6.6	0.3	0.1			0.0	100	2016

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 (*) 2016

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	3380.7	3356.1	1183.4	1012.1	118.2	53.1	468.2	96.2	8.7	63.0	24.0	38.5	237.8
BE	88.5	88.5	19.8	15.0	4.6	0.2	13.2	1.2	0.4	3.1	0.6	2.3	5.5
BG	41.4	41.4	27.0	25.4	1.6	0.0	2.9	0.1	0.2	0.4	0.1	0.2	1.9
CZ	95.5	95.4	54.2	47.4	0.4	6.4	9.3	1.7	0.1	1.3	0.4	1.0	4.6
DK	38.3	38.0	13.9	11.7	0.9	1.3	3.9	0.1		0.4	0.1	1.0	2.4
DE	780.3	777.9	326.5	297.7	19.8	9.1	125.3	37.2	0.1		0.0	0.2	87.8
EE	17.3	17.3	13.7	12.4		1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.5
IE	39.9	39.9	12.4	11.9	0.3	0.1	4.5	0.0	1.4	0.3	0.0	0.9	2.0
EL	68.4	68.4	36.9	31.3	5.6	0.0	5.3	0.1	0.6	0.1	0.1	0.6	3.8
ES	255.3	251.5	70.6	58.2	11.6	0.8	39.9	5.5	1.2	6.4	3.8	4.3	18.6
FR	332.1	329.1	44.9	34.8	7.4	2.7	48.5	11.3	0.9	10.8	2.6	7.5	15.4
HR	16.7	16.4	4.9	3.4	1.3	0.2	2.2	0.0	0.0	0.3	0.1	0.4	1.4
IT	345.2	342.7	103.8	76.0	21.0	6.8	47.0	10.6	1.0	8.5	4.0	3.5	19.3
CY	7.3	7.3	3.3	3.3			0.6		0.0	0.0	0.0	0.0	0.5
LV	7.2	7.2	1.8	1.8		0.0	0.6	0.0	0.0	0.0	0.0	0.1	0.4
LT	11.0	11.0	2.9	1.4	1.4	0.1	1.2			0.3	0.0	0.2	0.6
LU	9.9	9.9	0.2	0.2			1.1	0.3	0.1	0.2	0.0	0.0	0.6
HU	43.5	43.3	13.5	11.7	1.4	0.3	4.7	0.2	0.2	0.4	0.4	0.7	2.8
MT	1.8	1.8	0.6	0.6			0.0						0.0
NL	170.7	169.6	67.3	54.9	9.6	2.8	26.5	4.8	0.2	12.8	0.9	3.6	4.2
AT	55.4	55.3	10.4	7.4	2.8	0.3	10.7	1.4	0.4	1.4	1.7	1.0	4.8
PL	302.8	299.4	162.4	153.7	5.4	3.2	28.2	5.0	1.1	6.0	1.5	4.0	10.6
PT	49.5	48.4	17.3	14.9	2.4		7.3	0.1		1.0	1.2	0.8	4.2
RO	65.2	64.3	25.7	22.7	1.9	1.0	11.3	1.3		1.6	0.2	0.9	7.3
SI	13.7	13.6	4.9	4.9		0.0	1.6	0.2	0.1	0.1	0.3	0.1	0.8
SK	25.6	25.6	7.5	4.7	1.5	1.3	6.7	2.8	0.1	0.5	0.4	0.3	2.5
FI	45.2	45.1	18.8	16.8	1.7	0.3	7.0	0.9	0.1	0.8	2.6	0.2	2.4
SE	39.2	38.6	8.9	6.5	2.0	0.4	7.4	1.2	0.1	1.2	0.7	0.4	3.7
UK	413.7	409.2	109.3	81.3	13.6	14.4	50.9	10.0	0.5	5.0	2.1	4.3	29.0
MK													
TR	357.5	357.4	143.3	134.9	6.4	2.1	59.5	2.9	1.4	5.7	1.1	5.0	43.4
IS	2.7	2.6	0.0	0.0			0.2	0.0	0.0			0.0	0.2
NO	38.8	36.3	14.9	1.7	0.8	12.5	3.7	0.1	0.1	1.3	0.1	0.3	1.9
CH	42.1	42.1	3.4	3.0	0.4		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.

CO₂ Emissions (*) 2016

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	
10673	630.5	158.8	396.7	75.0	6.7	24.6	241.1	10.7	3.4		1.5	36373	EU-28
30.5	24.9	5.9	16.9	2.2	0.1	0.1	15.7	0.2	0.2			104.6	BE
9.9	1.5	0.3	0.8	0.4	0.0	0.0	4.5	0.0	0.0			45.9	BG
19.0	12.5	2.9	8.5	1.2	0.4	0.2	11.5	0.4	0.1		0.8	108.3	CZ
15.7	4.4	0.7	2.1	1.5	0.2	0.3	1.4	0.2	0.0		0.3	40.2	DK
191.2	133.8	37.4	90.3	6.1	1.0	2.4	44.9	2.8				827.9	DE
2.4	0.6	0.1	0.2	0.3	0.0	0.0	0.3	0.0	0.0			17.6	EE
14.7	8.3	1.9	5.9	0.5		0.0	2.1	0.5	0.0			42.5	IE
20.2	5.8	0.7	4.7	0.4	0.2	0.0	6.0	0.0	0.0			74.5	EL
100.9	39.7	11.3	17.0	11.4	0.5	3.8	20.8	0.5	0.0			276.7	ES
148.2	87.6	25.0	51.6	11.0		3.0	21.8	2.0	1.6			357.5	FR
6.5	2.8	0.6	1.5	0.6		0.3	1.9	0.1	0.0			18.6	HR
113.7	77.8	22.8	48.0	7.0	0.5	2.5	14.8	0.5	0.1			360.6	IT
2.8	0.5	0.1	0.4	0.1	0.0	0.0	0.9	0.0				8.2	CY
3.5	1.3	0.4	0.5	0.4	0.0	0.0	0.4	0.0	0.0		0.0	7.7	LV
5.7	1.2	0.3	0.7	0.2	0.0	0.0	2.4	0.0	0.0			13.4	LT
6.9	1.6	0.6	1.0	0.0	0.0	0.0	0.6	0.0				10.5	LU
12.9	12.2	3.3	7.4	1.5	0.0	0.1	4.5	0.2	0.0			48.2	HU
1.0	0.2	0.1	0.0	0.0	0.0		0.0		0.0			1.8	MT
41.9	33.9	7.9	17.0	9.0	0.2	1.1	6.4	0.1			0.2	177.4	NL
25.6	8.6	1.5	6.3	0.8	0.0	0.1	14.2	0.1	0.0			69.7	AT
54.8	54.0	8.5	35.7	9.9		3.4	18.6	1.0	0.8			323.2	PL
19.9	4.0	1.1	1.7	1.1	0.0	1.1	4.1	0.0	0.0		0.2	53.8	PT
17.5	9.4	2.1	6.2	1.1	0.4	0.9	10.6	0.1	0.0			75.9	RO
5.7	1.4	0.5	0.7	0.2	0.0	0.1	0.7	0.0	0.0			14.5	SI
6.8	4.5	1.4	2.8	0.3	0.1	0.0	8.5	0.1	0.0			34.2	SK
14.5	3.7	1.0	1.3	1.3	1.1	0.1	4.4	0.3			0.1	49.9	FI
19.2	2.8	0.8	0.7	1.4	0.2	0.7	5.7	0.1	0.1			45.1	SE
155.8	91.6	19.8	67.0	4.8	1.5	4.5	13.7	1.3	0.3			428.9	UK
													MK
90.8	63.8	22.9	32.1	8.7		0.2	54.6	1.3	0.0			413.5	TR
1.9	0.5	0.0	0.0	0.5		0.1	1.7	0.0	0.0			4.4	IS
14.1	3.3	1.2	0.5	1.6	0.2	2.5	6.7	0.1				45.5	NO
20.2	13.5	4.3	8.8	0.4	0.1	0.0	2.2	0.0	0.0	0.0	0.1	44.5	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 (*) 2016

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	92.9	99.3	35.3	85.5	10.0	4.5	13.9	20.5	1.9	13.5	5.1	8.2	50.8
BE	84.6	99.9	22.4	75.9	23.3	0.8	14.9	8.9	3.4	23.8	4.6	17.3	42.0
BG	90.1	100.0	65.3	94.1	5.9	0.0	6.9	4.0	5.7	13.2	4.1	8.4	64.7
CZ	88.2	99.8	56.8	87.5	0.7	11.7	9.8	18.8	1.5	14.5	4.3	11.0	49.9
DK	95.2	99.3	36.4	84.2	6.3	9.6	10.2	2.4		9.2	1.5	25.7	61.2
DE	94.2	99.7	42.0	91.2	6.1	2.8	16.1	29.7	0.1		0.0	0.1	70.1
EE	98.4	100.0	79.5	90.5		9.5	3.0	0.5	0.6	1.6	4.9	2.3	90.2
IE	93.9	100.0	31.0	96.5	2.5	1.0	11.3	0.1	31.0	6.1	0.4	19.1	43.5
EL	91.9	100.0	53.9	84.8	15.1	0.1	7.7	2.3	10.6	1.7	1.5	11.9	71.9
ES	92.3	98.5	28.1	82.5	16.4	1.1	15.9	13.8	3.1	16.1	9.6	10.8	46.5
FR	92.9	99.1	13.6	77.5	16.4	6.1	14.7	23.4	1.8	22.4	5.3	15.4	31.8
HR	89.5	98.3	29.9	69.3	26.6	4.1	13.5	1.5	0.5	13.4	4.8	17.1	62.7
IT	95.7	99.3	30.3	73.2	20.3	6.5	13.7	22.6	2.2	18.1	8.6	7.4	41.2
CY	88.9	100.0	45.4	100.0			8.2		1.0	1.1	0.5	8.3	89.1
LV	94.1	100.0	25.3	97.3		2.7	8.1	0.4	0.4	5.3	0.9	18.8	74.2
LT	81.9	100.0	26.3	48.4	49.1	2.5	10.6			25.0	2.5	21.1	51.5
LU	94.5	100.0	2.5	100.0			11.2	23.9	4.5	14.7	0.6	1.8	54.5
HU	90.3	99.7	31.1	87.0	10.7	2.2	10.8	3.6	3.7	9.2	9.0	14.3	60.2
MT	99.9	100.0	32.3	100.0			1.9						100.0
NL	96.2	99.4	39.7	81.6	14.3	4.1	15.6	18.0	0.6	48.5	3.3	13.7	16.0
AT	79.5	99.8	18.9	70.8	26.6	2.6	19.3	13.3	3.3	12.9	15.9	9.3	45.3
PL	93.7	98.9	54.2	94.7	3.3	2.0	9.4	17.9	3.9	21.1	5.4	14.1	37.6
PT	92.0	97.8	35.7	86.2	13.8		15.0	1.2		14.4	16.5	10.8	57.1
RO	85.8	98.6	40.0	88.5	7.6	3.9	17.6	11.3		14.4	1.6	7.9	64.8
SI	94.8	99.1	36.1	99.9		0.1	11.6	12.8	6.5	4.5	19.5	5.6	51.0
SK	75.0	99.9	29.3	62.8	19.8	17.4	26.0	41.8	1.7	7.5	6.0	4.8	38.1
FI	90.5	99.8	41.8	89.4	8.8	1.8	15.6	13.2	1.5	11.2	37.8	2.4	34.0
SE	87.0	98.3	23.1	72.9	22.4	4.7	19.2	16.6	1.4	16.9	9.7	5.4	50.1
UK	96.4	98.9	26.7	74.4	12.4	13.2	12.4	19.7	1.0	9.8	4.2	8.4	56.9
MK													
TR	86.5	100.0	40.1	94.1	4.4	1.4	16.6	4.8	2.4	9.6	1.8	8.4	73.0
IS	61.5	94.5	0.1	100.0			7.2	0.8	3.1			14.1	82.0
NO	85.2	93.5	41.2	11.1	5.0	83.9	10.3	2.0	3.7	33.5	2.0	8.6	50.2
CH	94.8	99.9	8.0	89.3	10.7		11.7	5.1	1.9	16.7	3.7	13.5	59.1

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

CO₂ Emissions (*) 2016 BY SECTOR (SHARES %)

3.2.11

TRANSPORT (**)	OTHER SECTORS	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	AGRICULTURE	WASTE	OTHER	INDIRECT CO ₂	TOTAL EMISSIONS	
31.8	18.8	25.2	62.9	11.9	0.2	0.7	6.6	0.3	0.1		0.0	100	EU-28
34.4	28.1	23.5	67.8	8.7	0.1	0.1	15.0	0.2	0.2			100	BE
23.9	3.7	19.7	52.5	27.8	0.1	0.0	9.8	0.1	0.0			100	BG
19.9	13.1	22.8	67.5	9.7	0.4	0.2	10.6	0.3	0.1		0.7	100	CZ
41.2	11.6	16.6	48.5	34.9	0.5	0.7	3.5	0.5	0.0		0.7	100	DK
24.6	17.2	27.9	67.5	4.6	0.1	0.3	5.4	0.3				100	DE
14.0	3.2	18.7	32.7	48.7	0.3	0.0	1.5	0.1	0.0			100	EE
36.9	20.8	22.3	71.1	6.6		0.0	5.0	1.1	0.1			100	IE
29.5	8.5	12.0	80.6	7.4	0.3	0.0	8.0	0.0	0.0			100	EL
40.1	15.8	28.5	42.8	28.7	0.2	1.5	7.5	0.2	0.0			100	ES
45.0	26.6	28.5	58.9	12.6		0.9	6.1	0.6	0.4			100	FR
39.6	17.1	21.8	55.4	22.9		1.7	10.0	0.4	0.0			100	HR
33.2	22.7	29.3	61.7	9.0	0.2	0.7	4.1	0.1	0.0			100	IT
39.0	7.1	15.6	69.0	15.4	0.3	0.0	11.1	0.0				100	CY
48.9	17.6	31.5	35.7	32.8	0.2	0.0	5.3	0.4	0.0		0.2	100	LV
51.9	10.9	26.1	56.9	17.0	0.2	0.0	17.8	0.2	0.0			100	LT
69.8	16.5	35.0	63.6	1.4	0.0	0.0	5.5	0.1				100	LU
29.8	28.2	27.1	60.7	12.2	0.0	0.3	9.3	0.4	0.1			100	HU
55.9	9.8	69.2	24.2	6.6	0.2		0.0		0.0			100	MT
24.7	20.0	23.2	50.1	26.7	0.1	0.6	3.6	0.0			0.1	100	NL
46.3	15.5	17.3	73.1	9.6	0.1	0.2	20.3	0.2	0.0			100	AT
18.3	18.0	15.7	66.0	18.3		1.1	5.8	0.3	0.2			100	PL
41.0	8.2	28.8	44.2	27.0	0.1	2.2	7.6	0.1	0.0		0.3	100	PT
27.2	14.6	21.9	66.1	12.0	0.7	1.4	14.0	0.1	0.0			100	RO
42.1	10.1	33.6	50.6	15.8	0.0	0.9	4.9	0.1	0.2			100	SI
26.6	17.8	31.6	60.7	7.7	0.3	0.1	24.8	0.2	0.0			100	SK
32.1	8.1	28.2	35.3	36.5	2.5	0.2	8.9	0.5			0.1	100	FI
49.9	7.3	26.9	24.1	49.0	0.5	1.7	12.6	0.3	0.1			100	SE
38.1	22.4	21.6	73.1	5.2	0.4	1.1	3.2	0.3	0.1			100	UK
													MK
25.4	17.8	36.0	50.4	13.6		0.0	13.2	0.3	0.0			100	TR
72.2	20.4	0.3	1.1	98.5		5.5	38.2	0.1	0.2			100	IS
38.8	9.0	37.1	14.8	48.0	0.7	6.5	14.6	0.2				100	NO
47.9	32.0	31.8	65.1	3.1	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.

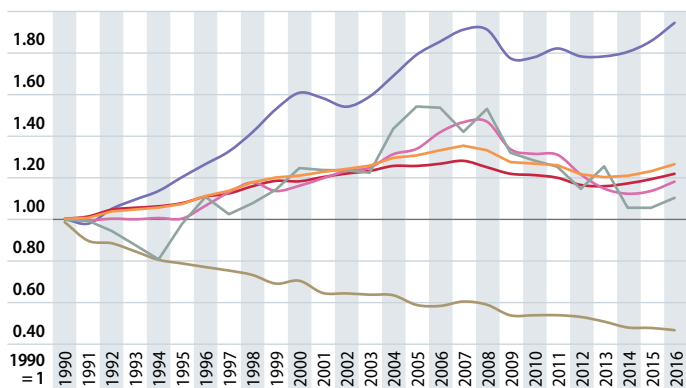
3.2.12 CO₂ Emissions from Transport

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	82.7	14.2	68.6	710.2	13.3	139.4	29.8	109.6	5.2	950.8	4654.5
1995	99.7	15.0	84.7	767.1	10.6	139.6	29.4	110.2	5.1	1022.2	4411.6
2000	133.9	19.7	114.2	846.1	9.4	162.4	27.5	134.9	6.6	1158.3	4428.8
2005	149.3	19.6	129.7	901.5	7.8	188.0	27.0	161.1	8.2	1254.9	4595.5
2010	148.3	17.8	130.4	868.6	7.1	184.6	24.3	160.3	6.8	1215.3	4231.3
2011	151.8	17.8	134.1	858.9	7.1	184.0	22.1	161.9	6.6	1208.5	4090.6
2012	148.6	16.5	132.1	832.8	7.0	170.3	20.9	149.4	6.0	1164.8	4017.5
2013	148.6	15.3	133.4	828.5	6.7	160.5	19.1	141.4	6.6	1151.0	3922.6
2014	150.5	14.9	135.5	838.4	6.3	156.9	18.5	138.4	5.6	1157.6	3752.4
2015	154.9	15.1	139.7	853.8	6.3	158.8	19.3	139.5	5.6	1179.4	3791.4
2016	162.2	15.5	146.7	873.2	6.2	165.3	19.9	145.4	5.8	1212.7	3782.6

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



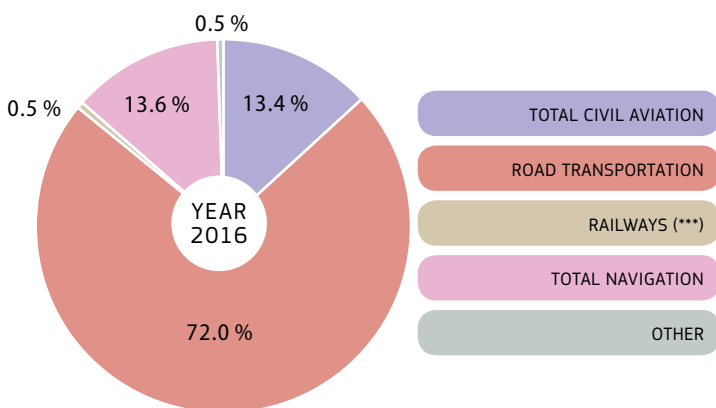
Notes: (*) Excluding International Bunkers (international traffic departing from the EU).
 (**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.
 (***) Excluding indirect emissions from electricity consumption.
 (****) Combustion emissions from all remaining transport activities 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	8.7	17.1	82.9	74.7	1.4	14.7	21.4	78.6	0.6	20.4	100
1995	9.8	15.0	85.0	75.1	1.0	13.7	21.1	78.9	0.5	23.2	100
2000	11.6	14.7	85.3	73.0	0.8	14.0	16.9	83.1	0.6	26.2	100
2005	11.9	13.1	86.9	71.8	0.6	15.0	14.3	85.7	0.7	27.3	100
2010	12.2	12.0	88.0	71.5	0.6	15.2	13.2	86.8	0.6	28.7	100
2011	12.6	11.7	88.3	71.1	0.6	15.2	12.0	88.0	0.5	29.5	100
2012	12.8	11.1	88.9	71.5	0.6	14.6	12.2	87.8	0.5	29.0	100
2013	12.9	10.3	89.7	72.0	0.6	13.9	11.9	88.1	0.6	29.3	100
2014	13.0	9.9	90.1	72.4	0.5	13.6	11.8	88.2	0.5	30.9	100
2015	13.1	9.8	90.2	72.4	0.5	13.5	12.2	87.8	0.5	31.1	100
2016	13.4	9.6	90.4	72.0	0.5	13.6	12.1	87.9	0.5	32.1	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 2016 – 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	162.2	15.5	146.7	873.2	6.2	165.3	19.9	145.4	5.8	1212.7	3782.6
BE	4.4	0.0	4.4	25.5	0.1	22.0	0.4	21.6	0.1	52.1	126.3
BG	0.7	0.1	0.6	8.8	0.0	0.2	0.0	0.2	0.3	10.1	46.2
CZ	1.0	0.0	1.0	17.7	0.3	0.0	0.0		0.1	19.0	108.3
DK	3.0	0.1	2.8	11.8	0.3	2.6	0.6	2.0		17.6	42.2
DE	28.5	2.4	26.2	158.6	0.9	10.1	1.9	8.2	1.2	199.4	836.1
EE	0.1	0.0	0.1	2.2	0.0	0.9	0.1	0.8		3.2	18.4
IE	2.6	0.0	2.6	11.6	0.1	0.8	0.3	0.5	0.1	15.2	43.0
EL	3.5	0.4	3.1	14.8	0.1	7.4	1.8	5.6	0.0	25.8	80.0
ES	18.4	2.7	15.7	80.1	0.2	26.1	2.0	24.2	0.1	125.0	300.9
FR	21.7	4.7	17.1	124.4	0.4	6.3	1.3	5.0	0.4	153.2	362.5
HR	0.4	0.0	0.4	5.9	0.1	0.1	0.1	0.0		6.5	18.6
IT	12.5	2.2	10.3	96.7	0.0	10.6	3.8	6.8	0.7	120.4	367.4
CY	0.9	0.0	0.9	2.0		0.9	0.0	0.9		3.7	9.1
LV	0.4	0.0	0.4	3.0	0.2	1.0	0.0	1.0		4.5	8.7
LT	0.3	0.0	0.3	5.2	0.2	0.5	0.0	0.5	0.1	6.2	14.0
LU	1.5	0.0	1.5	5.4	0.0	0.0	0.0	0.0		6.9	10.5
HU	0.6	0.0	0.6	12.1	0.1	0.0	0.0		0.1	12.9	48.2
MT	0.4	0.0	0.4	0.5		5.5	0.1	5.5		6.5	7.3
NL	11.7	0.0	11.7	29.0	0.1	41.1	1.0	40.1	0.1	81.9	217.5
AT	2.4	0.0	2.3	22.5	0.1	0.1	0.0	0.1	0.6	25.7	69.8
PL	2.1	0.1	2.0	51.5	0.3	0.6	0.0	0.6	0.9	55.4	323.8
PT	3.8	0.4	3.4	15.8	0.0	2.3	0.3	2.0		21.9	55.8
RO	1.0	0.1	0.9	16.0	0.4	0.2	0.1	0.1	0.0	17.6	76.0
SI	0.1	0.0	0.1	5.6	0.0	0.4		0.4	0.0	6.1	14.9
SK	0.2	0.0	0.2	6.3	0.1	0.0	0.0	0.0	0.3	6.8	34.2
FI	2.2	0.2	2.0	11.8	0.1	1.3	0.4	0.9	0.0	15.4	50.8
SE	3.1	0.5	2.5	15.6	0.0	7.0	0.3	6.7	0.2	26.0	51.8
UK	35.2	1.5	33.6	112.8	2.0	17.1	5.3	11.8	0.5	167.6	440.7
MK											
TR	14.9	4.2	10.6	74.1	0.3	4.0	1.0	3.0	0.6	93.8	416.5
IS	0.9	0.0	0.9	0.9		0.2	0.0	0.2		2.0	4.6
NO	2.7	1.2	1.5	9.8	0.0	2.2	1.5	0.7		14.7	46.2
CH	5.3	0.1	5.1	14.7	0.0	0.1	0.1	0.0	0.0	20.2	44.5

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

2016 – 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	13.4	9.6	90.4	72.0	0.5	13.6	12.1	87.9	0.5	32.1	100
BE	8.4	0.2	99.8	48.9	0.1	42.3	1.8	98.2	0.3	41.3	100
BG	6.9	8.7	91.3	86.9	0.4	2.5	2.9	97.1	3.3	21.9	100
CZ	5.1	1.0	99.0	93.1	1.4	0.1	100.0		0.3	17.5	100
DK	16.8	4.5	95.5	67.0	1.4	14.8	24.8	75.2		41.8	100
DE	14.3	8.3	91.7	79.5	0.5	5.1	19.1	80.9	0.6	23.9	100
EE	2.0	2.1	97.9	69.0	1.4	27.5	6.7	93.3		17.6	100
IE	17.1	0.4	99.6	76.3	0.7	5.0	34.9	65.1	0.9	35.4	100
EL	13.5	11.8	88.2	57.3	0.5	28.6	24.4	75.6	0.0	32.2	100
ES	14.7	14.6	85.4	64.1	0.2	20.9	7.6	92.4	0.1	41.6	100
FR	14.2	21.5	78.5	81.2	0.3	4.1	20.1	79.9	0.3	42.3	100
HR	6.3	7.6	92.4	90.6	0.9	2.2	90.9	9.1		34.9	100
IT	10.3	17.3	82.7	80.3	0.0	8.8	36.2	63.8	0.6	32.8	100
CY	23.5	0.1	99.9	52.3		24.3	0.3	99.7		41.2	100
LV	8.3	0.5	99.5	65.4	3.9	22.5	1.3	98.7		52.2	100
LT	4.6	0.5	99.5	83.2	2.5	8.4	2.5	97.5	1.2	44.6	100
LU	21.5	0.0	100.0	78.4	0.1	0.0	89.5	10.5		66.0	100
HU	4.7	0.7	99.3	93.5	1.0	0.1	100.0		0.7	26.8	100
MT	5.9	1.1	98.9	8.4		85.7	1.4	98.6		89.1	100
NL	14.3	0.3	99.7	35.4	0.1	50.1	2.5	97.5	0.1	37.7	100
AT	9.2	2.0	98.0	87.9	0.4	0.3	15.2	84.8	2.2	36.8	100
PL	3.8	5.5	94.5	93.1	0.5	1.1	3.6	96.4	1.6	17.1	100
PT	17.4	11.7	88.3	71.9	0.1	10.5	11.4	88.6		39.2	100
RO	5.4	8.8	91.2	91.2	2.0	1.3	56.5	43.5	0.0	23.1	100
SI	1.0	3.2	96.8	91.9	0.5	6.5		100.0	0.0	41.2	100
SK	2.3	2.3	97.7	91.7	1.3	0.3	20.2	79.8	4.4	20.0	100
FI	14.0	8.7	91.3	77.1	0.4	8.4	31.2	68.8	0.1	30.2	100
SE	11.8	17.7	82.3	60.1	0.2	27.1	4.3	95.7	0.8	50.1	100
UK	21.0	4.4	95.6	67.3	1.2	10.2	31.3	68.7	0.3	38.0	100
MK											
TR	15.8	28.5	71.5	78.9	0.4	4.2	24.2	75.8	0.7	22.5	100
IS	46.1	2.4	97.6	43.4		10.5	13.0	87.0		44.3	100
NO	18.2	44.3	55.7	66.6	0.3	15.0	69.6	30.4		31.9	100
CH	26.1	2.7	97.3	72.9	0.1	0.7	81.8	18.2	0.1	45.4	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.

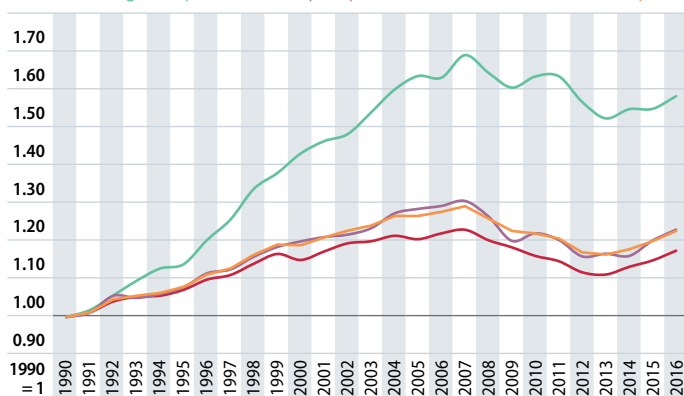
3.2.14

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	710.2	450.2	65.4	185.7	8.5	0.3	950.8	4654.5
1995	767.1	483.1	74.6	200.4	9.0	0.1	1022.2	4411.6
2000	846.1	519.1	93.7	223.1	10.1	0.1	1158.3	4428.8
2005	901.5	544.2	107.1	239.2	10.7	0.4	1254.9	4595.5
2010	868.6	524.0	107.0	227.1	10.2	0.3	1215.3	4231.3
2011	858.9	517.6	107.0	223.8	10.2	0.3	1208.5	4090.6
2012	832.8	504.2	102.6	215.7	10.1	0.3	1164.8	4017.5
2013	828.5	501.5	99.7	217.0	9.9	0.3	1151.0	3922.6
2014	838.4	510.8	101.3	215.9	10.1	0.3	1157.6	3752.4
2015	853.8	518.6	101.4	223.5	10.1	0.2	1179.4	3791.4
2016	873.2	530.3	103.6	228.9	10.1	0.2	1212.7	3782.6

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



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

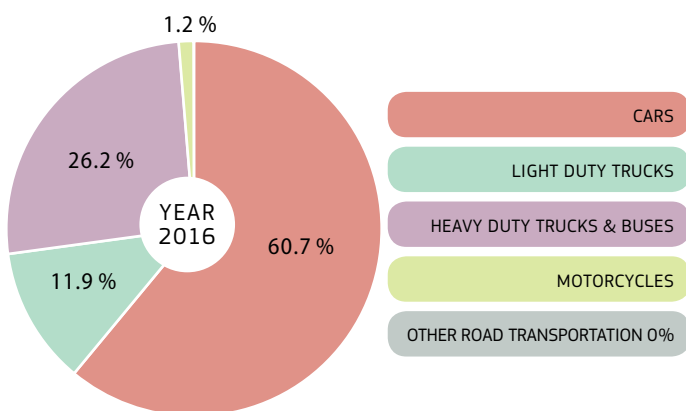
(**) Including International Bunkers and Indirect CO₂ but excluding LULUCF.

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	74.7	63.4	9.2	26.1	1.2	0.0	20.4	100.0
1995	75.1	63.0	9.7	26.1	1.2	0.0	23.2	100.0
2000	73.0	61.4	11.1	26.4	1.2	0.0	26.2	100.0
2005	71.8	60.4	11.9	26.5	1.2	0.0	27.3	100.0
2010	71.5	60.3	12.3	26.1	1.2	0.0	28.7	100.0
2011	71.1	60.3	12.5	26.1	1.2	0.0	29.5	100.0
2012	71.5	60.5	12.3	25.9	1.2	0.0	29.0	100.0
2013	72.0	60.5	12.0	26.2	1.2	0.0	29.3	100.0
2014	72.4	60.9	12.1	25.8	1.2	0.0	30.9	100.0
2015	72.4	60.7	11.9	26.2	1.2	0.0	31.1	100.0
2016	72.0	60.7	11.9	26.2	1.2	0.0	32.1	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
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
2009		7	2	3 000
2008		7	1	2 000
2007		12	3	15 000
2006		12	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
Hawaiian Patriot	1977	300 miles off Honolulu	95 000
Khark 5	1989	off Atlantic Coast of Morocco	70 000
Nova	1985	off Kharg Island, Gulf of Iran	70 000
Katina P	1992	Off Maputo, Mozambique	67 000
Exxon Valdez	1989	Prince William Sound, Alaska	37 000
Hebei Spirit	2007	Taeon, Republic of Korea	11 000

SELECTED MAJOR OIL SPILLS – Europe

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

NOTES

NOTES

NOTES

NOTES

Getting in touch with the EU

IN PERSON

All over the European Union there are hundreds of Europe Direct information centres. You can find the address of the centre nearest you at: https://europa.eu/european-union/contact_en

ON THE PHONE OR BY E-MAIL

Europe Direct is a service that answers your questions about the European Union. You can contact this service:

- by freephone: 0080067891011 (certain operators may charge for these calls),
- at the following standard number: +32 22999696 or
- by email via: https://europa.eu/european-union/contact_en

Finding information about the EU:

ONLINE

Information about the European Union in all the official languages of the EU is available on the Europa website at: https://europa.eu/european-union/index_en

EU PUBLICATIONS

You can download or order free and priced EU publications at: <https://publications.europa.eu/en/publications>. Multiple copies of free publications may be obtained by contacting Europe Direct or your local information centre (see https://europa.eu/european-union/contact_en).

EU LAW AND RELATED DOCUMENTS

For access to legal information from the EU, including all EU law since 1952 in all the official language versions, go to EUR-Lex at: <http://eur-lex.europa.eu>

OPEN DATA FROM THE EU

The EU Open Data Portal (<http://data.europa.eu/euodp/en>) provides access to datasets from the EU. Data can be downloaded and reused for free, for both commercial and non-commercial purposes.

