



European  
Commission

STATISTICAL POCKETBOOK

2023



# EU TRANSPORT

in figures

**CONNECTING**  
**EUROPE**

Mobility and  
Transport

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## PREFACE

Transport represents a crucial sector of the economy. This publication provides an overview of the most recent and most pertinent annual transport-related statistics in Europe. It covers the European Union and its 27 Member States (EU-27) and, as far as possible, the current EU candidate countries, the EFTA countries and UK.

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

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

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

The publication consists of three parts:

- (1) a general part with general economic and other relevant data,
- (2) a transport part covering both passenger and freight transport 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 energy use and the environment.

Most of the tables have data up to 2021; where available, more recent data have been provided.

The tables of this pocketbook may also be found on the Europa site at: [https://ec.europa.eu/transport/media/media-corner/publications\\_en](https://ec.europa.eu/transport/media/media-corner/publications_en)

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

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

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

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

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## SYMBOLS AND ABBREVIATIONS

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

## COUNTRY ABBREVIATIONS

### EUROPEAN UNION COUNTRIES (EU-27) (ALSO EEA MEMBERS)

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

### OTHER EUROPEAN ECONOMIC AREA (EEA) AND IN EUROPEAN FREE TRADE ASSOCIATION (EFTA)

IS	Iceland	EEA: 1994	EFTA: 1960
LI	Liechtenstein	EEA: 1994	EFTA: 1991
NO	Norway	EEA: 1994	EFTA: 1960

### OTHER EUROPEAN FREE TRADE ASSOCIATION (EFTA)

CH	Switzerland	EFTA: 1960
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### EUROPEAN UNION CANDIDATE COUNTRIES

BA	Bosnia and Herzegovina
ME	Montenegro
MD	Moldova
MK	North Macedonia
AL	Albania
RS	Serbia
TR	Turkey
UA	Ukraine

### OTHER COUNTRIES

CN	China
CS	Czechoslovakia (until 1992)
JP	Japan
RU	Russia
UK	United Kingdom (EU Member 01.01.1973-31.01.2020)
US	United States

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



PART 1

# GENERAL DATA

42.5%

875

4381.4

30.5

111.0

78.9

43.1

357.1

45.2

70.3

62.0

306.0

70.0

4.6

43.3

64.6

60.5

4.6

95.0

87.3

63.9

12.7

92.1

238.4

20.3

49.0

338.4

450.3

243.8

13.8

25.7

88.4

785.3

103.0

323.8

41.3

64.6

65.3

2.6

93.0

0.05

83.1

312.7

15.1

238.4

20.3

312.4

243.8

13.8

88.4

785.3

103.0

323.8

41.3

## PART 1

### SUMMARY

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## General data

1.1

	AREA	POPULA- TION	GDP (NOMINAL)	GDP PER HEAD IN PPS	
	1 000 km <sup>2</sup>	million	billion EUR	EU-27 = 100	
	2022	on 1/1/2022	2021	2020	2021
<b>EU-27</b>	<b>4.225.1</b>	<b>446.7</b>	<b>14 537.7</b>	<b>100</b>	<b>100</b>
BE	30.7	11.6	502.5	119	120
BG	111.0	6.8	71.1	55	57
CZ	78.9	10.5	238.2	93	92
DK	42.9	5.9	336.7	133	133
DE	357.6	83.2	3 601.8	123	120
EE	45.3	1.3	31.4	86	89
IE	69.9	5.1	426.3	205	218
EL	131.7	10.5	181.7	62	64
ES	506.0	47.4	1 206.8	83	83
FR	638.5	67.9	2 502.1	105	104
HR	56.6	3.9	58.3	65	70
IT	302.1	59.0	1 787.7	94	95
CY	9.3	0.9	24.0	90	91
LV	64.6	1.9	33.6	72	72
LT	65.3	2.8	56.2	88	89
LU	2.6	0.6	72.3	261	268
HU	93.0	9.7	154.1	74	75
MT	0.3	0.5	15.0	98	102
NL	37.4	17.6	855.5	130	129
AT	83.9	9.0	406.1	125	123
PL	311.9	37.7	576.4	76	77
PT	92.2	10.4	214.7	76	75
RO	238.4	19.0	241.3	73	74
SI	20.3	2.1	52.2	89	90
SK	49.0	5.4	100.3	72	71
FI	338.4	5.5	250.6	114	112
SE	447.4	10.5	540.7	122	123
IS	102.7	0.4	21.6	118	119
NO	384.5	5.4	414.4	142	167
CH	41.3	8.7	676.8	160	
BA	51.2	3.3	20.0	35	34
ME	13.9	0.6	5.0	45	48
MD	33.9	2.6	12.7		
MK	25.4	1.8	11.7	38	42
AL	28.8	2.8	15.2	31	32
RS	85.0	6.8	53.3	43	44
TR	780.3	84.8	689.5	61	63
UA	603.6	43.8	186.1		
UK	244.4	67.4	291.2		

NB: CY: Area refers to the whole island.

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

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

Sources: Eurostat [reg\_area3, demo\_pjan, nama\_10\_gdp, nama\_10\_pc], World Bank, OECD. Provisional or estimated data are *in italics*

## 1.2 Growth in GDP and industrial production

	GROWTH IN GDP Real growth				GROWTH IN INDUSTRIAL PRODUCTION (excl. construction)			
	% change compared to previous year							
	2018	2019	2020	2021	2018	2019	2020	2021
EU-27	2.1	1.8	-5.6	5.4	1.2	-0.2	-7.3	9.1
BE	1.8	2.3	-5.4	6.3	1.1	4.9	-3.8	16.8
BG	2.7	4.0	-4.0	7.6	0.4	0.6	-6.2	10.1
CZ	3.2	3.0	-5.5	3.6	3.1	-0.4	-7.2	6.6
DK	2.0	1.5	-2.0	4.9	2.4	2.7	-5.9	8.3
DE	1.0	1.1	-3.7	2.6	1.0	-3.2	-9.6	4.7
EE	3.8	3.7	-0.6	8.0	4.8	7.1	-2.8	12.8
IE	8.5	5.4	6.2	13.6	-4.9	7.0	14.5	28.4
EL	1.7	1.9	-9.0	8.4	1.8	-0.7	-2.1	10.3
ES	2.3	2.0	-11.3	5.5	0.4	0.6	-9.8	7.5
FR	1.9	1.8	-7.8	6.8	0.7	0.6	-10.9	5.8
HR	2.8	3.4	-8.6	13.1	-0.7	0.6	-3.4	6.3
IT	0.9	0.5	-9.0	7.0	0.9	-1.1	-11.4	12.2
CY	5.6	5.5	-4.4	6.6	7.3	4.4	-7.3	6.4
LV	4.0	2.6	-2.2	4.1	2.0	0.8	-1.7	6.4
LT	4.0	4.6	0.0	6.0	6.0	2.9	-1.9	20.3
LU	1.2	2.3	-0.8	5.1	-1.2	-3.1	-10.8	8.4
HU	5.4	4.9	-4.5	7.2	4.0	5.5	-7.1	9.9
MT	6.2	7.0	-8.6	11.8	1.5	1.1	-0.3	-0.2
NL	2.4	2.0	-3.9	4.9	0.6	-0.9	-3.9	5.0
AT	2.4	1.5	-6.5	4.6	4.9	-0.1	-5.8	11.3
PL	5.9	4.5	-2.0	6.8	5.8	4.3	-2.1	14.9
PT	2.8	2.7	-8.3	5.5	0.1	-2.2	-7.3	3.4
RO	6.0	3.9	-3.7	5.8	4.3	-3.2	-9.3	6.7
SI	4.5	3.5	-4.3	8.2	5.1	3.1	-5.3	10.3
SK	4.0	2.5	-3.4	3.0	4.5	0.7	-8.1	10.3
FI	1.1	1.2	-2.4	3.0	3.2	1.6	-3.2	4.2
SE	2.0	2.0	-2.2	5.4	2.6	2.4	-4.9	7.0
IS	4.9	1.8	-7.2	4.3	1.8			
NO	0.8	1.1	-1.3	3.9	1.2	-4.9	3.9	3.4
CH	2.9	1.1	-2.4	4.2	5.9	4.4	-3.9	8.9
BA	3.7	2.8	-3.1	7.5	1.6	-5.3	-6.4	9.7
ME	5.1	4.1	-15.3	13.0	22.2	-6.1	-0.9	4.4
MD	4.3	3.7	-7.4	13.9	8.4	2.0	-5.5	12.1
MK	2.9	3.9	-4.7	3.9	5.4	3.7	-9.5	1.5
AL	4.0	2.1	-3.5	8.5	2.1	5.5	-10.0	22.4
RS	4.5	4.3	-0.9	7.5	1.3	0.3	0.4	6.4
TR	3.0	0.8	1.9	11.4	1.3	-0.5	1.6	17.5
UA	3.5	3.2	-3.8	3.4	5.7	-0.5	-4.5	1.9
UK	1.7	1.6	-11.0	7.5	3.4	2.4	1.2	7.3

**NB:** Industrial production: includes NACE Rev. 2 Sections B-D.

Data adjusted by working days.

Growth GDP section: data calculated according to the ESA 2010 methodology.

## Employment and unemployment

1.3

	EMPLOYMENT RATE				UNEMPLOYMENT RATE			
	%							
	2018	2019	2020	2021	2018	2019	2020	2021
EU-27	67.7	68.4	67.5	68.3	7.4	6.8	7.2	7.2
BE	64.5	65.3	64.7	65.3	6.0	5.4	5.6	6.3
BG	67.7	70.1	68.5	68.1	5.3	4.3	5.2	5.3
CZ	74.8	75.1	74.4	74.4	2.3	2.1	2.6	2.9
DK	74.1	75.	74.4	75.5	5.3	5.1	5.8	5.1
DE	75.9	76.7	75.4	75.6	3.5	3.2	3.9	3.7
EE	74.4	74.8	73.2	74.0	5.5	4.6	7.2	6.5
IE	68.6	69.5	67.7	69.8	5.9	5.1	5.8	6.3
EL	54.9	56.5	56.3	57.2	19.5	17.5	16.5	14.9
ES	62.4	63.3	60.9	62.7	15.4	14.2	15.6	14.9
FR	65.3	65.6	65.3	67.2	9.1	8.5	8.1	7.9
HR	60.6	62.1	62.0	63.4	8.5	6.7	7.6	7.6
IT	58.5	59.0	58.1	58.2	10.8	10.2	9.4	9.7
CY	68.6	70.5	69.9	70.8	8.6	7.3	7.8	7.7
LV	71.8	72.3	71.6	69.9	7.6	6.5	8.4	7.9
LT	72.4	73.0	71.6	72.4	6.3	6.5	8.8	7.4
LU	67.1	67.9	67.2	69.4	5.6	5.6	6.8	5.3
HU	69.2	70.1	69.7	73.1	3.7	3.5	4.3	4.1
MT	71.9	73.1	73.7	75.5	3.7	3.7	4.4	3.4
NL	77.2	78.2	77.8	80.1	3.8	3.4	3.9	4.2
AT	73.0	73.6	72.4	72.4	4.9	4.6	5.4	6.3
PL	67.4	68.2	68.7	70.3	3.9	3.3	3.2	3.4
PT	69.7	70.5	69.0	70.1	7.3	6.7	7.1	6.7
RO	64.8	65.8	65.6	61.9	4.3	4.0	5.2	5.6
SI	71.1	71.8	70.9	71.4	5.2	4.5	5.0	4.8
SK	67.6	68.4	67.5	69.4	6.6	5.8	6.8	6.9
FI	72.1	72.9	72.1	72.7	7.5	6.8	7.9	7.8
SE	77.4	77.1	75.5	75.4	6.5	7.0	8.5	9.0
IS	85.1	84.1	80.3	79.8	2.8	3.6	5.7	6.3
NO	74.8	75.3	74.7	76.3	3.9	3.8	4.5	4.5
CH	80.1	80.5	79.9	79.3	4.9	4.5	5.0	5.3
BA	37.5	39.7	39.7	42.4	18.4	15.7	15.9	14.9
ME	54.7	56.0	50.3	49.39	15.5	15.4	18.3	16.6
MD	41.9	40.1	38.8	39.8	3.0	5.1	3.8	3.2
MK	51.7	54.7	54.7	55.1	21.0	17.4	16.6	15.8
AL	59.5	61.2	60.6	60.9	12.8	12.0	12.2	12.0
RS	58.8	60.7	61.3	62.2	13.3	10.9	9.5	11.4
TR	52.0	50.3	47.5	50.3	11.1	14.0	13.4	12.2
UA	51.4	51.7	49.9	49.3	8.8	8.2	9.5	9.8
UK	74.7	75.2	75.4	75.1	4.1	3.8	4.7	4.6

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

## 1.4

Share of gross value added  
and employment – BY SECTOR

	SHARE OF GROSS VALUE ADDED (%)			SHARE OF EMPLOYMENT (%)		
	AGRI- CULTURE	INDUSTRY	SERVICES	AGRI- CULTURE	INDUSTRY	SERVICES
	2021			2021		
<b>EU-27</b>	<b>1.8</b>	<b>25.5</b>	<b>72.7</b>	<b>4.5</b>	<b>20.2</b>	<b>75.4</b>
BE	0.7	22.0	77.2	1.2	12.5	86.3
BG	5.0	23.8	71.2	16.2	35.8	48.0
CZ	2.0	33.3	64.7	3.0	31.3	65.7
DK	1.0	22.2	76.8	2.2	12.8	85.1
DE	0.9	29.6	69.5	1.2	19.2	79.5
EE	2.3	26.4	71.3	2.6	23.0	74.3
IE	1.1	40.1	58.8	4.5	17.5	78.0
EL	4.4	17.5	78.0	10.5	19.6	69.9
ES	2.9	22.5	74.6	3.7	14.6	81.7
FR	1.8	18.5	79.7	2.5	12.7	84.8
HR	3.5	23.8	72.7	6.6	27.4	66.0
IT	2.2	25.3	72.5	3.6	20.4	76.0
CY	1.9	14.9	83.2	3.4	12.8	83.8
LV	4.8	22.8	72.4	7.5	24.1	68.3
LT	3.7	28.3	68.0	5.4	24.2	70.5
LU	0.2	12.4	87.4	0.8	8.6	90.6
HU	4.1	28.7	67.2	3.8	24.1	72.1
MT	1.0	13.8	85.3	1.0	10.7	88.3
NL	1.7	20.1	78.1	2.1	11.1	86.8
AT	1.4	28.9	69.8	3.4	19.2	77.3
PL	2.6	32.3	65.1	9.0	31.5	59.6
PT	2.5	22.7	74.8	7.4	24.1	68.5
RO	5.0	29.6	65.4	22.0	42.3	35.6
SI	1.9	32.4	65.7	6.6	29.6	63.8
SK	2.0	33.4	64.6	2.9	26.3	70.9
FI	2.7	27.8	69.6	3.3	17.1	79.6
SE	1.5	25.6	73.0	1.9	14.3	83.8
IS	4.8	22.7	72.4	3.5	15.7	80.8
NO	1.8	40.5	57.7	2.4	13.4	84.2
CH	0.6	25.3	74.0	2.4	16.0	81.6
BA	6.0	29.6	64.4	11.3	34.3	54.4
ME	8.0	18.3	73.8	0.9	17.6	81.5
MD	12.3	24.0	63.6	21.5	22.1	56.4
MK	8.4	25.9	65.8	12.0	30.9	57.1
AL	21.1	23.9	55.0	36.1	20.2	43.7
RS	7.6	30.2	62.2	15.0	29.7	55.3
TR	6.2	34.8	59.0	17.6	26.2	56.2
UA	12.4	27.3	60.3	14.7	24.5	60.9
UK	0.8	19.3	79.9	0.9	16.9	82.3

**NB:** Agriculture covers agriculture, hunting, forestry and fishing.  
 Industry includes mining and quarrying, manufacturing, energy, gas and water supply as well as construction.  
 All other sectors are included in services.

## Population

1.5

AT 1 JANUARY									
	million								%
	1995	2000	2005	2010	2015	2020	2021	2022	change '21/'22
<b>EU-27</b>	<b>425.22</b>	<b>428.47</b>	<b>434.42</b>	<b>440.66</b>	<b>443.67</b>	<b>447.32</b>	<b>447.21</b>	<b>446.74</b>	<b>-0.11</b>
BE	10.13	10.24	10.45	10.84	11.24	11.52	11.55	11.62	0.5
BG	8.43	8.19	7.69	7.42	7.20	6.95	6.92	6.84	-1.1
CZ	10.33	10.28	10.20	10.46	10.54	10.69	10.70	10.52	-1.7
DK	5.22	5.33	5.41	5.53	5.66	5.82	5.84	5.87	0.6
DE	81.54	82.16	82.50	81.80	81.20	83.17	83.16	83.24	0.1
EE	1.45	1.40	1.36	1.33	1.31	1.33	1.33	1.33	0.1
IE	3.60	3.78	4.11	4.55	4.68	4.96	5.01	5.06	1.1
EL	10.54	10.78	10.97	11.12	10.86	10.72	10.68	10.46	-2.0
ES	39.34	40.47	43.30	46.49	46.45	47.33	47.40	47.43	0.1
FR	59.32	60.55	62.77	64.66	66.46	67.32	67.66	67.87	0.3
HR	4.66	4.50	4.31	4.30	4.23	4.06	4.04	3.86	-4.3
IT	56.84	56.92	57.87	59.19	60.80	59.64	59.24	59.03	-0.3
CY	0.65	0.69	0.73	0.82	0.85	0.89	0.90	0.90	1.0
LV	2.50	2.38	2.25	2.12	1.99	1.91	1.89	1.88	-0.9
LT	3.64	3.51	3.36	3.14	2.92	2.79	2.80	2.81	0.4
LU	0.41	0.43	0.46	0.50	0.56	0.63	0.63	0.65	1.7
HU	10.34	10.22	10.10	10.01	9.86	9.77	9.73	9.69	-0.4
MT	0.37	0.39	0.40	0.41	0.44	0.51	0.52	0.52	0.9
NL	15.42	15.86	16.31	16.57	16.90	17.41	17.48	17.59	0.7
AT	7.94	8.00	8.20	8.35	8.58	8.90	8.93	8.98	0.5
PL	38.58	38.26	38.17	38.02	38.01	37.96	37.84	37.65	-0.5
PT	10.01	10.25	10.49	10.57	10.37	10.30	10.30	10.35	0.5
RO	22.71	22.46	21.38	20.29	19.87	19.33	19.20	19.04	-0.8
SI	1.99	1.99	2.00	2.05	2.06	2.10	2.11	2.11	-0.1
SK	5.36	5.40	5.37	5.39	5.42	5.46	5.46	5.43	-0.5
FI	5.10	5.17	5.24	5.35	5.47	5.53	5.53	5.55	0.3
SE	8.82	8.86	9.01	9.34	9.75	10.33	10.38	10.45	0.7
IS	0.27	0.28	0.29	0.32	0.33	0.36	0.37	0.38	2.0
LI	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.6
NO	4.35	4.48	4.61	4.86	5.17	5.37	5.39	5.43	0.6
CH	7.02	7.16	7.42	7.79	8.24	8.61	8.67	8.74	0.8
BA	3.75	4.18	4.09	3.81	3.52	3.32	3.27	3.45	5.6
ME	0.63	0.60	0.61	0.62	0.62	0.62	0.62	0.62	-0.5
MD	4.35	3.64	3.60	3.56	2.85	2.64	2.63	2.60	-0.9
MK	1.96	2.02	2.04	2.05	2.07	2.08	2.07	1.84	-11.2
AL	3.25	3.06	3.13		2.89	2.85	2.83	2.79	-1.3
RS	7.63	7.53	7.46	7.31	7.11	6.93	6.87	6.80	-1.1
TR	61.20	66.89	68.01	72.56	77.70	83.15	83.61	84.68	1.3
UA	51.51	49.11	47.10	45.78	42.76	41.73	41.42	41.00	-1.0
UK	57.94	58.79	60.18	62.51	64.85	67.08	67.02	67.35	0.5

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

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

UK: as of 2020 stand in June.

## 1.6a Member States external trade of goods

### IMPORTS

YEAR 2021 (VALUE = billion EUR)

	IMPORTS FROM:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 8	EFTA	CHINA	UNITED STATES	RUSSIA	UNITED KINGDOM	JAPAN
EU-27	5 509.89	3 383.93	2 125.96	131.86	203.47	473.81	233.53	163.65	147.55	62.29
BE	446.51	279.60	166.91	6.49	15.86	24.81	27.83	7.80	15.52	9.29
BG	39.13	23.69	15.44	5.07	0.32	2.12	0.29	2.98	0.31	0.20
CZ	179.33	132.25	47.08	3.82	1.46	18.56	3.83	2.98	2.11	2.01
DK	101.81	69.26	32.55	1.37	5.61	8.59	3.69	1.85	2.26	0.39
DE	1202.93	765.69	437.24	24.12	62.25	98.23	53.82	28.96	28.51	17.35
EE	20.02	14.44	5.59	0.23	0.36	0.92	0.30	2.11	0.18	0.08
IE	101.94	38.75	63.18	0.98	5.61	7.05	17.14	0.58	19.20	1.03
EL	65.37	33.73	31.63	3.49	0.96	5.01	1.43	4.30	0.67	0.17
ES	355.44	194.12	161.32	10.39	10.52	30.58	14.93	5.97	8.64	2.30
FR	605.25	399.49	205.77	9.36	17.71	40.75	26.78	9.74	20.19	5.85
HR	29.23	21.72	7.51	2.65	0.21	1.04	0.58	0.49	0.14	0.03
IT	480.44	272.22	208.22	17.36	12.72	38.58	15.81	18.65	8.07	4.45
CY	8.72	5.63	3.09	0.25	0.06	0.43	0.12	0.09	0.30	0.09
LV	20.69	15.15	5.54	0.38	0.19	0.86	0.19	1.98	0.17	0.02
LT	37.69	25.83	11.86	0.79	0.27	1.59	0.95	4.51	0.33	0.09
LU	22.15	19.65	2.50	0.06	0.18	0.28	0.74	0.02	0.34	0.38
HU	120.93	86.16	34.77	5.36	0.64	9.90	1.76	4.29	0.84	1.38
MT	6.04	3.61	2.43	0.23	0.07	0.29	0.10	0.01	0.28	0.07
NL	641.48	264.35	377.13	7.64	30.68	111.41	45.10	26.50	25.25	11.07
AT	185.73	141.85	43.88	4.21	9.52	7.90	3.29	3.69	2.13	1.22
PL	289.66	192.23	97.43	8.59	2.46	31.10	5.24	16.71	3.19	2.22
PT	83.15	61.23	21.91	1.55	0.51	3.94	2.00	1.07	0.99	0.60
RO	98.33	71.26	27.07	7.57	1.29	6.20	0.93	3.16	0.89	0.36
SI	48.78	27.33	21.45	5.29	4.46	5.87	0.21	0.42	0.38	0.12
SK	87.90	68.77	19.13	2.05	0.38	3.58	0.41	4.21	0.91	0.13
FI	72.87	50.77	22.09	0.68	1.86	3.36	1.41	8.55	0.91	0.30
SE	158.37	105.15	53.22	1.86	17.32	10.85	4.66	2.03	4.82	1.08

**NB:** Candidate 8: Bosnia and Herzegovina, Montenegro, Moldova, North Macedonia, Albania, Serbia, Turkey and Ukraine.

EFTA: Iceland, Liechtenstein, Norway, Switzerland.



# Member States external trade of goods 1.6b

## EXPORTS

YEAR 2021 (VALUE = billion EUR)

	EXPORTS TO:									
	WORLD	EU-27	EXTRA-EU-27	OF WHICH:						
				CANDIDATE 8	EFTA	UNITED STATES	UNITED KINGDOM	CHINA	RUSSIA	JAPAN
EU-27	5 623.5	3 442.5	2 181.0	145.8	217.9	399.5	283.4	223.5	89.2	62.3
BE	464.7	310.0	154.7	7.6	7.9	27.6	26.2	8.0	4.4	7.5
BG	34.8	23.1	11.7	4.0	0.3	0.9	0.6	1.1	0.4	0.1
CZ	191.6	154.1	37.5	4.5	3.8	4.5	7.3	2.5	3.6	1.2
DK	106.5	56.4	50.1	1.7	8.1	9.9	5.6	6.0	1.0	2.1
DE	1 384.1	751.4	632.7	33.9	71.4	122.6	66.4	104.6	26.8	18.5
EE	18.2	12.2	6.0	0.3	0.8	1.7	0.6	0.2	0.8	0.1
IE	161.2	61.5	99.7	0.9	3.7	49.7	17.9	11.2	0.5	2.7
EL	40.0	21.5	18.5	4.5	0.3	1.6	1.3	0.7	0.2	0.2
ES	321.4	199.6	121.9	6.9	7.4	14.8	18.9	8.7	2.2	2.9
FR	494.9	270.4	224.5	9.6	18.7	35.1	28.5	24.1	6.4	6.6
HR	18.5	12.5	6.0	3.4	0.3	0.6	0.2	0.1	0.2	0.0
IT	520.8	274.6	246.2	16.7	29.2	49.3	23.4	15.7	7.7	7.5
CY	3.3	0.9	2.4	0.0		0.1	0.2	0.1	0.1	0.0
LV	17.7	11.2	6.4	0.5	0.4	0.4	1.3	0.2	1.9	0.1
LT	34.5	19.9	14.6	1.9	1.2	2.2	1.3	0.2	3.7	0.1
LU	14.2	11.5	2.7	0.2	0.3	0.4	0.4	0.2	0.2	0.1
HU	119.9	93.7	26.2	8.2	1.3	3.2	3.2	1.7	1.7	0.5
MT	2.6	1.2	1.3	0.0	0.0	0.1	0.1	0.1	0.0	0.1
NL	711.1	493.6	217.4	9.5	16.3	29.7	39.9	16.0	8.0	4.3
AT	171.5	118.5	53.0	3.8	9.3	10.8	4.5	4.9	2.0	1.7
PL	288.2	216.2	72.0	10.7	6.0	7.6	14.4	3.1	8.0	0.7
PT	63.6	45.5	18.1	0.7	0.9	3.5	3.3	0.7	0.2	0.3
RO	73.9	54.1	19.8	5.8	1.1	1.5	2.1	0.9	1.0	0.4
SI	48.5	32.9	15.7	4.4	5.5	0.8	0.7	0.4	0.9	0.1
SK	87.9	70.7	17.1	2.3	1.5	2.7	3.2	2.2	1.3	0.2
FI	69.5	39.0	30.4	1.3	3.1	4.8	2.7	3.6	3.8	1.7
SE	160.3	86.1	74.3	2.2	19.2	13.6	9.0	6.7	2.2	2.4

**NB:** Candidate 8: Bosnia and Herzegovina, Montenegro, Moldova, North Macedonia, Albania, Serbia, Turkey and Ukraine.

EFTA: Iceland, Liechtenstein, Norway, Switzerland.

## 1.7 Comparison EU-27 – World

### DATA FOR 2021

	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
<b>Population</b> million	447.0	331.9	125.7	1412.4	143.4
<b>Population growth</b> % change since previous year	-0.1 %	0.1 %	-0.5 %	0.1 %	-0.4 %
<b>Urban population</b> % of total	75.2	82.9	91.9	62.5	74.9
<b>Area</b> 1 000 km <sup>2</sup>	4 225	9 832	378	9 600	17 098
<b>Population density</b> Persons/km <sup>2</sup>	106	36	346	150	9
<b>GDP (nominal)</b> billion EUR	14 538	19 713	4 177	14 994	1 504
<b>Real GDP growth</b> %	5.4	5.9	1.7	8.1	4.7
<b>Relative GDP per capita</b> in PPS (EU-27 = 100)	100	142	86	40	68
<b>Exports of goods</b> billion EUR	2 181	1 489	633	2 719	418
<b>Imports of goods</b> billion EUR	2 126	2 411	620	2 243	257

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

PART 2

# TRANSPORT



## PART 2

### SUMMARY

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## Statistical overview – EU transport 2.1.1

### Gross Value Added:

With around EUR 636 billion in Gross Value Added (GVA) at current prices, the transport and storage services sector (including postal and courier activities) accounted for about 5 % of total GVA in the EU-27 in 2021 <sup>(1)</sup>. It should be noted, however, that this figure only includes the GVA of companies whose main activity is the provision of transport (and transport-related) services and that own account transport operations are not included.

### Employment:

In 2021, the transport and storage services sector (including postal and courier activities) in the EU-27 employed around 10 million persons <sup>(2)</sup>, some 5.3 % of the total workforce <sup>(3)</sup>. Around 53 % of them worked in land transport (road, rail and pipelines), 3 % in water transport (sea and inland waterways), 3 % in air transport and 27 % in warehousing and supporting activities (such as cargo handling, storage and warehousing) and the remaining 15 % in postal and courier activities. 22 % of the employed persons in the transport sector were women.

### Household expenditure:

In 2021, private households in the EU-27 spent EUR 880 billion or roughly 12.1 % of their total consumption on transport-related items.

Around 29 % of this sum (around EUR 258 billion) was used to purchase vehicles, 58 % (EUR 509 billion) was spent on the operation of personal transport equipment (e.g. to buy fuel for the car) and the rest (EUR 112 billion) was spent for transport services (e.g. bus, train, plane tickets).

### Goods transport:

In 2021, the total goods transport activities in the EU-27 are estimated to amount to 3 432 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 54.3 % of this total, rail for 11.9 %, inland waterways for 4 % and oil pipelines for 2.6 %. Intra-EU maritime transport was the second most important mode with a share of 27.2 % while intra-EU air transport only accounted for 0.1 % of the total.

### Passenger transport:

In 2021, total passenger transport activities in the EU-27 by any motorized means of transport are estimated to amount to 4 779 billion pkm or on average around 10 700 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 78.3 % of this total, powered two-wheelers for 2.2 %, buses & coaches for 6.8 %, railways for 5.6 % and tram and metro for 1.2 %. Intra-EU air and intra-EU maritime transport contributed for 5.7 % and 0.3 % respectively.

- NB:** <sup>(1)</sup> The transport share amounts of 4.6 % of total GVA if postal and courier activities are not included. Estimations based on Eurostat National Account (2019 data).  
<sup>(2)</sup> Figures on number of persons employed in transport, total workforce and shares per mode based on Eurostat Labour Force Survey (age 15-64 years).  
<sup>(3)</sup> 4.5 % of total employment if postal and courier activities are not included.

## 2.1.1 Statistical overview – EU transport

### Safety:

**Road:** 19917 persons were killed in road accidents (fatalities within 30 days) in 2021, 5.7 % more than in 2020 (when 18836 people lost their lives). In comparison with 2001, the number of road fatalities was lower by about two thirds (-61.2 %).

**Rail:** 5 passengers lost their lives in 2021; this figure does not include casualties among railway employees or other people run over by trains.

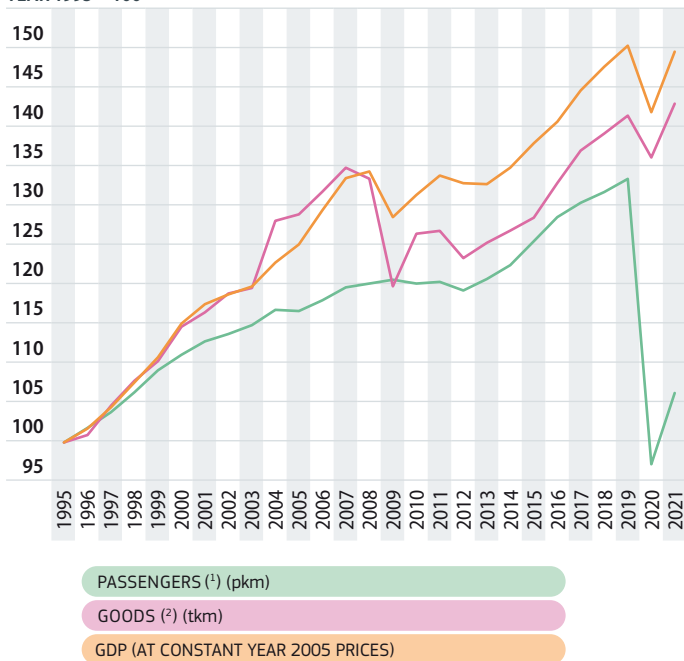
**Air:** 18 lives were lost in 2022: 8 fatalities occurred on EU territory and involved a non-EU operator, and 10 fatalities involved an EU registered aircraft (2 business flights).

## Transport growth – EU-27

2.1.2

### PASSENGERS, GOODS, GDP 1995–2021

YEAR 1995 = 100



- NB:** <sup>(1)</sup> Passenger cars, powered two-wheelers, buses & coaches, tram & metro, railways, intra-EU air, intra-EU sea.  
<sup>(2)</sup> Road, rail, inland waterways, oil pipelines, intra-EU air, intra-EU sea.

GDP: at constant year 2005 prices and exchange rates.

### ANNUAL GROWTH RATES EU-27

	1995–2021 p.a.	2000–2021 p.a.	2020–2021
GDP at year 2005 prices and exchange rates	1.6 %	1.3 %	5.4 %
Passenger transport (pkm)	0.2 %	-0.2 %	9.3 %
Freight transport (tkm)	1.4 %	1.1 %	5.0 %

## 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	0.5
CZ	50	90/110	130	0.0
DK	50	80	130	0.5
DE	50	100	(130)	0.5
EE	50	90	90	0.2
IE	50	80/100	120	0.5
EL	50	90	110/130	0.5
ES	50	80/90	90/120	0.5
FR	50	80/90	110/130	0.5
HR	50	90	130	0.5
IT	50	90	130	0.5
CY	30/50	80	100	0.5
LV	50	90	-	0.5
LT	50	70/90	110/130	0.4
LU	50	90	130	0.5
HU	50	90	110/130	0.0
MT	40/50	60/80	80	0.8
NL	50	80	100/120/130	0.5
AT	50	100	130	0.5
PL	50/60	90/100	120/140	0.2
PT	50	90	100/120	0.5
RO	50	90/100	130	0.0
SI	50	90	110/130	0.5
SK	50	90	130	0.0
FI	50	80	80/120	0.22
SE	50	70	110	0.2
IS	50	80/90	-	0.5
NO	50	80	100	0.2
CH	50	80/100	100/120	0.5
BA	60	100	130	0.3
ME	50	80/100	130	0.3
MD	50	90/110	-	0.3
MK	50	80/100	120	0.5
AL	40	80/90	110	0.1
RS	60	80/100	120	0.5
TR	50	90/110	120	0.5
UA	50	90	130	0.0
UK	48	96	112	0.8

**NB:** Situation as of 1 June 2022, the date of accessing the source: Going abroad - European Commission (europa.eu)

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).

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: 70km/h outside built-up areas in the Flemish Region.

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

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

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



## Road transport

### MAXIMUM GROSS VEHICLE WEIGHT

2.1.4

tonnes	WEIGHT PER BEARING AXLE	WEIGHT PER DRIVE AXLE	LORRIES		ROAD TRAIN		ARTICULATED VEHICLES
			2 axles	3 axles	4 axles	5 axles and more	5 axles and more
BE <sup>(1)</sup>	10	12	19	26	39	44	44
BG	10	11.5	18	26 <sup>(2)</sup>	36	40	40
CZ	10	11.5	18	26 <sup>(2)</sup>	32	48	48
DK <sup>(3)</sup>	10	11.5	18	24/26	38	44/50/56	44/50/56
DE	10	11.5	18/19	26/27	36	40/44	40/44
EE	10	11.5	18	26 <sup>(2)</sup>	35/36	40/44	40/44
IE	10	10.5/11.5	18	26	36	42 <sup>(2)</sup>	40/44/46
EL	7/10	13	19	26	33/38/40	40/42	40/42/44
ES	10	11.5	18	25/26	36/38	40	40/42/44
FR	12/13	12/13	19	26	32/38	40/44	40/44
HR	10	11.5	18	25/26	36	40	40/44
IT	12	12	18	26 <sup>(2)</sup>	40	44	44
CY	10	11.5	18	25	36	40	40/44
LV	10	11.5	18	25/26	36	40	40/42/44
LT	10	11.5	18	25/26/27	36	40/42	40/44
LU	10	11.5/12	19	26	44	44	44
HU	10 <sup>(4)</sup>	11.5 <sup>(4)</sup>	18/20	25/26	36/38	40	40/42/44
MT	10	11.5	18	25	36	40	40/44
NL <sup>(3)</sup>	10	11.5	21.5	21.5 - 30.5	40	50	50
AT	10	11.5	18	26	36	40/44	40/44
PL	10	11.5	18	26 <sup>(2)</sup>	36	40	40
PT <sup>(3)</sup>	10 <sup>(4)</sup>	12	19	26	37/38	44 <sup>(4)</sup>	44/60
RO	10	11.5	18	25/26	36	40	40/42/44
SI	10	11.5	18	25/26	36	40	40/44
SK	10	11.5	18	26 <sup>(2)</sup>	40	40	40
FI <sup>(5)</sup>	10	11.5	18	28 <sup>(2)</sup>	36	44 <sup>(6)</sup>	44 <sup>(6)</sup>
SE	10	11.5	18	25/28	38	40 <sup>(7)</sup>	44
IS	10	11.5	18	26 <sup>(2)</sup>	36	40	44
LI	10	11.5	18	26 <sup>(2)</sup>	36	40	40
NO <sup>(3)</sup>	10	11.5	19	26 <sup>(4)</sup>	39	46 - 50	46 - 50
CH	10	11.5	18	26 <sup>(2)</sup>	36	40	40
BA	10	11.5	18	25/26	36/38	40/42	42/44
ME	10	11.5	18	26 <sup>(2)</sup>	36	40	40/44
MD	10	11.5	18	25	36	40	40
MK	10	11.5	18	25	35/36	40	40
AL	10	10/11.5	18	24/26 <sup>(2)</sup>	36	40	44
RS	10	11.5	18 <sup>(4)</sup>	25/26 <sup>(4)</sup>	36/38	40	40/42/44
TR	10	11.5	18	25/26	32/36/38	40	40/44
UA	11	11	16	22	38	40	40
UK	10	11.5	18	26	36	40/44	40/44

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

The permissible maximum weight varies according to different conditions: distance between the axles, number of driven axles, type of suspension, single or double mounted tyres, the vehicle is performing national or international traffic, performing combined transport operations, type of road, type of fuel or type of goods. For a more complete country overview please consult the International Transport Forum website.

<sup>(1)</sup> Differences between regions. For a complete overview please consult the International Transport Forum website.

<sup>(2)</sup> Only for air suspension or similar, twin tyres or ABS (Anti-lock Braking System).

<sup>(3)</sup> Under specific conditions EMS (European Modular System) combinations may have a maximum length of 25.25m and maximum mass of 60t.

<sup>(4)</sup> Increased values are applicable for certain type of transport.

<sup>(5)</sup> For vehicles registered in an EEA member country.

<sup>(6)</sup> Five-axle: 44 t; six-axle: 56 t; seven-axle: 60 t; eight-axle: 64-68 t (restrictions for ADR, 69-76 t (not for ADR).

<sup>(7)</sup> 74 t on some roads.

## 2.1.5 Employment by mode of transport (\*) 2020 – in 1000

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	10243.2	3283.3	1792.3	579.9	26.8	39.9	153.1	300.0	2438.8	1629.2
BE	218.8	62.3	19.6	31.9	1.0	0.7	1.3	7.1	57.8	37.1
BG	168.1	72.9	27.5	10.1	0.8	0.7	0.7	2.1	33.3	20.1
CZ	286.6	129.0	40.0	26.7	0.5	0.6	0.0	2.3	52.0	35.4
DK	137.6	32.0	23.3	5.4	0.8	0.2	12.4	4.4	29.4	29.6
DE	2217.3	432.5	394.3	54.0	2.6	9.7	18.9	64.3	680.6	560.2
EE	39.6	16.8	3.0	0.9	0.0	0.6	2.1	0.6	12.2	3.4
IE	104.4	24.2	26.6	5.2	0.4	0.1	1.4	9.2	18.4	19.1
EL	179.6	38.4	56.6	1.2	0.41	0.2	17.6	3.7	44.7	16.8
ES	927.5	349.1	184.6	16.1	1.1	0.5	6.7	32.6	238.7	98.1
FR	1493.6	409.0	279.4	213.2	1.8	4.0	14.4	66.1	243.4	262.3
HR	90.2	26.5	18.7	3.9	0.7	0.1	4.6	1.1	23.8	10.8
IT	1123.4	359.1	155.3	44.8	2.1	2.9	40.2	20.7	355.9	142.4
CY	17.4	2.1	3.2	0.0	0.0	0.0	0.2	0.2	9.6	2.1
LV	70.1	26.1	7.1	9.2	0.5	0.2	0.7	1.6	19.3	5.4
LT	157.9	98.6	18.4	8.7	0.1	0.1	1.1	0.8	22.5	7.7
LU	22.9	7.9	4.3	0.8	0.0	0.3	0.0	3.0	3.3	3.4
HU	252.7	80.9	56.4	13.4	0.5	0.8	0.0	1.4	62.1	37.2
MT	13.0	1.3	3.7	0.0	0.0	0.0	0.6	2.3	4.0	1.1
NL	426.1	127.2	55.2	19.3	0.1	12.9	8.0	26.5	109.3	67.6
AT	211.1	62.5	50.6	19.6	0.6	0.5	0.0	9.7	41.3	26.4
PL	946.3	488.4	130.4	48.6	6.0	0.8	2.1	10.1	159.5	100.3
PT	186.6	75.1	41.6	0.5	0.3	0.2	1.5	13.4	34.2	19.9
RO	383.4	158.2	75.6	24.4	5.7	2.1	0.3	3.6	68.6	45.0
SI	53.8	28.9	5.6	1.2	0.2	0.1	0.2	0.3	10.1	7.2
SK	114.6	48.3	14.7	6.6	0.3	0.4	0.0	0.4	26.3	17.6
FI	136.2	44.6	25.8	5.9	0.2	0.2	8.1	6.4	26.2	18.7
SE	264.2	81.2	70.8	8.4	0.0	1.1	10.1	6.1	52.3	34.3

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

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

The above figures refer to those companies whose main activity lies in the mode concerned. Economic activity according to NACE Rev. 2 classification.

## Number of enterprises by mode of transport (\*) 2020

2.1.6

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	1 279 440	559 057	406 231	896	192	9 518	9 083	5 331	144 028	145 104
BE	18 830	8 650	3 917	35	45	346	106	205	3 289	2 237
BG	22 422	13 547	5 150	10	2	27	45	67	2 583	991
CZ	42 430	32 500	4 609	53	2	92	2	50	4 817	305
DK	11 353	4 686	3 520	13	6	19	254	85	1 466	1 304
DE	98 486	36 412	26 631	212	31	883	553	565	19 272	13 926
EE	5 905	3 279	768	4	0	6	38	28	1 583	199
IE	24 127	4 730	14 356	13	2	38	125	157	1 902	2 804
EL	58 701	16 029	33 815	6	11	38	2 179	60	5 332	1 231
ES	218 298	106 882	63 285	18	9	110	637	163	16 149	31 045
FR	163 436	34 342	70 329	26	31	907	886	677	7 694	48 544
HR	12 878	5 886	4 322	13	2	31	1 094	13	1 403	114
IT	115 293	59 789	29 014	24	11	1 107	721	192	21 506	2 929
CY	3 094	755	1 193	0	0	0	74	5	813	254
LV	8 085	3 206	1 328	11	2	19	54	29	2 285	1 151
LT	24 240	6 518	10 211	6	1	42	14	141	2 742	4 565
LU	1 028	409	257	1	0	23	3	21	224	90
HU	36 266	15 862	9 807	38	3	118	10	100	4 872	5 456
MT	1 944	364	990	0	0	0	93	35	402	60
NL	55 622	16 180	13 347	63	11	4 364	759	405	10 863	9 630
AT	13 799	6 352	5 104	30	3	92	0	199	1 374	645
PL	170 508	101 080	44 961	141	9	410	234	1 387	16 545	5 741
PT	34 237	7 946	18 556	7	1	58	264	97	2 606	4 702
RO	58 022	34 282	16 995	95	2	203	58	89	3 515	2 783
SI	8 674	5 666	1 017	9	2	54	46	136	1 240	504
SK	22 909	10 893	5 089	16	4	58	5	83	4 458	2 303
FI	19 719	8 564	7 974	9	2	68	243	81	2 006	772
SE	29 134	14 248	9 686	43	0	404	586	261	3 087	819

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

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

The above figures refer to those companies whose main activity lies in the mode concerned. Economic activity according to NACE Rev. 2 classification.

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

### 2020 – MILLION EUR

	TOTAL	ROAD freight transport	ROAD passenger transport (**)	Railways	Pipelines	Inland water transport	Sea transport	Air transport	Warehousing and support activities	Postal and courier activities
EU-27	1 271 195	348 522	105 520	61 241	14 551	7 017	108 556	59 854	442 746	123 188
BE	45 854	11 544	1 076	3 452	712	234	2 141	2 683	18 525	5 487
BG	8 046	4 244	392	211	135	35	36	184	2 293	516
CZ	22 425	9 133	1 358	991	641	34	0.4	377	8 256	1 634
DK	57 370	6 530	2 759	1 153	209	29	31 302	1 488	11 729	2 171
DE	311 077	47 106	32 668	11 242	4 083	1 942	29 749	12 581	118 889	52 819
EE	4 744	1 397	141	34	0	4	402	82	2 473	212
IE	14 737	3 308	2 376	220	36	15	965	2 457	2 912	2 448
EL	12 012	2 634	1 037	107	309	48	1 772	411	4 745	948
ES	100 799	34 934	7 310	1 287	689	15	1 819	5 187	43 877	5 681
FR	197 131	49 192	21 363	23 720	709	474	20 844	10 360	55 557	14 913
HR	4 362	1 798	276	163	90	3	249	83	1 401	301
IT	139 235	47 555	9 416	6 153	3 527	242	7 418	3 785	50 324	10 816
CY	3 074	192	101	0	0	0	40	17	2 635	89
LV	4 578	1 455	87	127	185	10	101	156	2 243	213
LT	11 839	6 732	245	486	60	5	160	142	3 805	206
LU	6 743	1 404	299	39	0	61	26	1 907	1 749	1 259
HU	16 164	5 820	1 304	392	283	68	23	1 231	5 972	1 071
MT	2 021	119	105	0	0	0	131	1 012	597	58
NL	87 875	24 884	3 066	1 970	155	3 286	6 436	6 542	34 447	7 089
AT	40 977	9 523	4 117	3 588	588	61	0	2 342	17 330	3 429
PL	65 549	37 826	3 714	2 046	953	64	801	1 830	14 831	3 483
PT	17 486	6 012	986	118	52	18	550	2 027	6 597	1 126
RO	18 934	10 322	1 380	877	389	116	62	305	4 166	1 318
SI	6 028	3 089	158	216	32	3	31	52	2 049	399
SK	9 854	3 951	258	612	679	83	0.4	41	3 408	821
FI	19 097	6 092	1 830	825	37	17	1 282	1 350	6 176	1 489
SE	43 186	11 729	7 700	1 213	0	149	2 218	1 223	15 762	3 192

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

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

The above figures refer to those companies whose main activity lies in the mode concerned. Economic activity according to NACE Rev. 2 classification.

# Final consumption of households for transport

2.1.8

## BY TYPE OF EXPENDITURE – 2021

	FINAL CONSUMPTION OF HOUSEHOLDS FOR TRANSPORT	of which:			TRANSPORT AS A % OF TOTAL FINAL CONSUMPTION OF HOUSEHOLDS	EXPENDITURE PER HEAD ON TRANSPORT
		purchase of personal transport equipment	operation of personal transport equipment	purchased transport services		
		million EUR			%	EUR
EU-27	880 553	258 294	509 840	112 419	12.1	1 970
BE	22 584	6 097	14 960	1 528	9.6	1 950
BG	5 171	701	3 216	1 254	12.3	750
CZ	10 174	4 195	4 857	1 123	9.5	950
DK	16 473	6 641	8 667	1 165	11.1	2 810
DE	228 781	81 502	113 861	33 418	13.5	2 750
EE	1 532	315	1 017	201	10.5	1 150
IE	9 810	3 700	4 458	1 652	9.9	1 950
EL	15 106	4 470	5 521	5 116	11.6	1 420
ES	74 994	18 192	48 265	8 537	11.0	1 580
FR	161 808	36 954	104 259	20 595	12.7	2 370
HR	3 136	627	1 894	615	7.6	790
IT	121 843	33 857	76 190	11 796	11.8	2 060
CY	1 813	450	1 184	179	12.1	2 010
LV	2 016	459	1 302	255	10.7	1 070
LT	4 983	1 149	3 521	313	15.3	1 770
LU	3 184	836	2 221	127	14.2	4 970
HU	8 520	2 235	5 658	627	11.6	880
MT	740	189	365	187	11.2	1 430
NL	40 395	11 712	24 464	4 219	11.4	2 300
AT	22 511	6 369	12 953	3 189	11.6	2 510
PL	40 389	12 517	23 309	4 563	12.7	1 060
PT	16 127	5 522	9 304	1 300	11.6	1 570
RO	16 636	4 941	7 499	4 196	11.3	870
SI	4 566	1 590	2 818	158	16.9	2 170
SK	2 923	699	1 790	434	5.3	540
FI	13 265	3 736	7 980	1 549	10.8	2 390
SE	27 647	9 011	14 729	3 907	12.1	2 650

NB: BE, DE, EL, HR, CY, NL, PT, RO provisional data.

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

### HARMONISED INDEX OF CONSUMER PRICES

YEAR 2015 = 100	ALL ITEMS	TRANSPORT	of which:		
			PURCHASE OF VEHICLES	Motor cars	Motorcycles, bicycles and animal drawn vehicles
2022	118.8	124.3	116.3	116.3	116.1
2021	108.8	110.9	107.8	107.7	109.1
2020	105.8	103.8	104.6	104.5	105.0
2019	105.0	106.1	103.4	103.4	104.0
2015	100.0	100.0	100.0	100.0	100.0
2010	93.0	93.6	97.3	95.7	109.1
2005	83.5	83.1	96.2	92.4	105.0

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
2022	131.1	111.0	142.8	122.5	117.2
2021	113.6	104.1	114.9	115.2	110.8
2020	103.3	101.9	98.0	111.8	107.0
2019	107.7	101.0	108.6	108.8	105.5
2015	100.0	100.0	100.0	100.0	100.0
2010	93.7	95.0	96.7	89.2	92.8
2005	79.8	87.5	81.8	74.6	82.6

YEAR 2015 = 100	TRANSPORT SERVICES	of which:					
		Passenger transport by railway	Passenger transport by road	Passenger transport by air	Passenger transport by sea and inland waterway	Combined passenger transport	Other purchased transport services
2022	111.3	103.8	113.7	131.9	119.6	98.8	115.4
2021	105.9	103.3	107.3	106.0	108.9	108.4	108.6
2020	104.3	101.6	105.9	102.5	106.0	107.2	106.8
2019	105.7	105.0	104.7	107.0	104.5	106.0	105.1
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	87.2	88.8	87.8	88.0	81.8	84.3	96.1
2005	74.3	73.1	72.5	81.0	68.8	70.5	88.3

## EU-27 External trade by mode of transport – 2022

### PARTNER: EXTRA-EU-27

VALUE (BILLION EUR)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	1 022.8	39.8 %	1 544.6	51.4 %	2 567.3	46.0 %
Road	593.1	23.1 %	484.5	16.1 %	1 077.6	19.3 %
Rail	34.4	1.3 %	46.5	1.5 %	80.9	1.5 %
Inland waterway	6.6	0.3 %	7.2	0.2 %	13.8	0.2 %
Pipeline	20.5	0.8 %	276.8	9.2 %	297.4	5.3 %
Air	679.0	26.4 %	478.9	15.9 %	1 157.9	20.8 %
Self propulsion	201.9	7.8 %	61.5	2.0 %	263.4	4.7 %
Post	1.5	0.1 %	1.8	0.1 %	3.3	0.1 %
Unknown	13.1	0.5 %	101.4	3.4 %	114.5	2.1 %
<b>TOTAL</b>	<b>2 572.9</b>	<b>100.0 %</b>	<b>3 003.1</b>	<b>100.0 %</b>	<b>5 576.0</b>	<b>100.0 %</b>

WEIGHT (MILLION TONNES)						
	EXPORT		IMPORT		EXPORT + IMPORT	
Sea	521.6	75.0 %	1 225.2	73.6 %	1 746.9	74.0 %
Road	115.0	16.5 %	93.0	5.6 %	208.0	8.8 %
Rail	19.2	2.8 %	59.0	3.5 %	78.2	3.3 %
Inland waterway	9.2	1.3 %	11.5	0.7 %	20.7	0.9 %
Pipeline	2.9	0.4 %	229.7	13.8 %	232.6	9.9 %
Air	14.9	2.1 %	3.5	0.2 %	18.4	0.8 %
Self propulsion	8.1	1.2 %	6.0	0.4 %	14.1	0.6 %
Post	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Unknown	4.5	0.6 %	36.6	2.2 %	41.1	1.7 %
<b>TOTAL</b>	<b>695.3</b>	<b>100.0 %</b>	<b>1 664.7</b>	<b>100.0 %</b>	<b>2 360.0</b>	<b>100.0 %</b>

## 2.1.11 Environmental taxes &amp; transport

## ENERGY TAXES AS % OF GDP

## (TRANSPORT FUEL TAXES) (\*)

	%									RANK- ING IN 2021 (EU-27)
	2005	2010	2015	2016	2017	2018	2019	2020	2021	
EU-27	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.1	
BE	1.3	1.2	1.1	1.2	1.2	1.2	1.2	1.0	1.1	18
BG		2.4	2.4	2.1	2.1	1.9	1.9	1.8	1.7	4
CZ	2.2	1.9	1.7	1.7	1.6	1.6	1.5	1.4	1.4	12
DK	1.2	1.0	0.9	0.9	0.7	0.7	0.7	0.6	0.7	25
DE	1.5	1.4	1.2	1.2	1.1	1.1	1.1	1.0	0.9	21
EE	1.8	2.1	2.0	2.2	2.2	2.0	2.3	1.5	1.5	8
IE	1.2	1.3	0.9	0.9	0.8	0.7	0.7	0.5	0.5	27
EL	1.1	1.7	1.8	1.8	1.8	1.9	1.8	1.7	1.7	5
ES	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	19
FR	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.2	1.2	16
HR	2.2	1.8	2.2	2.3	2.2	2.2	2.1	2.0	1.4	9
IT	1.5	1.4	1.6	1.5	1.5	1.5	1.5	1.3	1.4	11
CY	1.5	1.6	2.0	2.0	1.9	1.8	1.5	1.4	1.4	10
LV	2.1	2.0	1.7	1.8	1.8	1.8	1.8	1.8	1.7	3
LT	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.6	6
LU	2.8	2.1	1.6	1.5	1.5	1.5	1.6	1.2	1.0	20
HU	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.4	1.3	13
MT	1.2	1.2	1.1	1.1	1.1	1.1	1.0	0.8	0.7	24
NL	1.2	1.2	1.1	1.1	1.1	1.1	1.0	0.9	0.9	22
AT	1.3	1.2	1.2	1.2	1.2	1.1	1.1	0.9	0.9	23
PL	1.9	1.9	2.0	2.1	2.0	2.0	1.9	1.7	1.8	2
PT	1.9	1.7	1.6	1.7	1.7	1.6	1.6	1.4	1.5	7
RO		1.5	1.8	1.8	1.5	1.4	1.4	1.2	1.2	14
SI	2.1	2.5	2.6	2.6	2.4	2.3	2.1	1.8	1.9	1
SK	2.1	1.5	1.4	1.4	1.4	1.4	1.3	1.2	1.2	15
FI	1.4	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.1	17
SE	1.3	1.1	0.9	1.0	0.9	0.9	0.7	0.7	0.7	26
IS										
NO	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.6	0.5	
CH										

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



# Environmental taxes & transport 2.1.12

## ENVIRONMENTAL TAXES AS % OF GDP

### (TRANSPORT EXCL. FUEL) (\*)

	%									RANK- ING IN 2021 (EU-27)
	1995	2000	2005	2010	2015	2018	2019	2020	2021	
<b>EU-27</b>			0.5	0.5	0.5	0.5	0.4	0.4	0.4	
BE	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.6	8
BG	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	16
CZ	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	26
DK	2.1	1.8	2.1	1.4	1.5	1.5	1.4	1.3	1.2	1
DE	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	18
EE	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	27
IE	1.3	1.4	1.2	0.9	0.7	0.6	0.6	0.5	0.4	13
EL	0.7	0.8	0.9	0.7	0.8	0.8	0.8	0.8	0.8	4
ES	0.4	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	19
FR	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	20
HR			1.1	0.8	0.8	0.8	0.8	0.7	0.7	7
IT	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	9
CY	2.3	2.0	1.4	0.9	0.6	0.6	0.5	0.5	0.5	11
LV	0.0	0.3	0.3	0.3	0.5	0.4	0.4	0.4	0.4	15
LT	0.7	0.7	0.5	0.0	0.1	0.1	0.1	0.1	0.1	24
LU	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	25
HU	0.2	0.4	0.5	0.5	0.4	0.3	0.3	0.3	0.3	17
MT	2.3	2.2	1.7	1.3	1.1	1.0	1.0	0.9	0.7	5
NL	1.3	1.4	1.2	1.1	1.0	1.0	1.0	0.9	0.9	2
AT	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	3
PL	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	22
PT	0.9	1.1	0.9	0.6	0.6	0.7	0.7	0.6	0.5	10
RO	0.0	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.2	23
SI	1.0	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.4	14
SK	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	21
FI	0.8	1.1	1.1	0.9	0.9	1.0	0.9	0.8	0.7	6
SE	0.3	0.3	0.4	0.5	0.4	0.4	0.4	0.4	0.4	12
IS	1.1	1.7	1.6	0.6	0.6	0.7	0.5	0.5	0.4	
NO	1.4	1.2	1.4	1.2	1.0	0.8	0.7	0.6	0.5	
CH										

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

## 2.1.13 Environmental taxes &amp; transport

AS % OF TOTAL TAXATION

(FUEL &amp; OTHER TAXES) (\*)

	%									RANK- ING IN 2021 (EU-27)
	2005	2010	2015	2016	2017	2018	2019	2020	2021	
EU-27		4.7	4.4	4.4	4.3	4.3	4.2	3.8	3.7	
BE	4.8	4.4	4.0	4.2	4.1	4.2	4.1	3.8	3.9	22
BG		10.3	9.3	8.4	8.1	7.4	7.2	6.9	6.4	2
CZ	6.8	6.1	5.3	5.3	4.9	4.7	4.5	4.1	4.0	17
DK	6.9	5.5	5.2	5.3	4.8	5.0	4.5	4.2	3.9	19
DE	5.2	4.6	3.9	3.8	3.6	3.5	3.4	3.2	2.9	21
EE	6.3	6.4	6.3	6.9	6.8	6.2	7.0	4.5	4.6	12
IE	7.8	8.0	6.9	6.7	6.2	5.8	5.6	5.0	4.4	14
EL	6.1	7.3	7.1	6.8	6.8	6.7	6.7	6.4	6.3	2
ES	4.8	4.4	4.0	4.1	4.0	3.8	3.8	3.3	3.3	16
FR	3.8	3.4	3.1	3.2	3.3	3.4	3.4	3.1	3.1	16
HR	8.9	7.5	8.4	8.4	8.4	7.9	7.7	7.5	5.8	3
IT	5.4	4.6	5.0	5.1	5.1	5.0	4.9	4.4	4.6	10
CY	9.2	7.9	8.0	8.1	7.7	7.2	5.9	5.8	5.2	7
LV	8.6	8.2	7.3	7.5	7.1	7.2	7.0	7.3	6.8	1
LT	7.4	6.2	6.0	6.1	6.1	6.1	5.8	5.9	5.3	3
LU	7.7	6.2	4.9	4.5	4.3	4.2	4.3	3.5	2.9	11
HU	6.3	6.1	5.2	5.3	5.2	5.1	4.9	4.8	4.7	6
MT	9.0	8.1	7.4	7.1	7.1	6.9	6.8	6.0	4.9	5
NL	6.8	6.6	5.8	5.5	5.5	5.5	5.2	4.7	4.5	5
AT	5.2	4.9	4.7	4.8	4.8	4.7	4.6	4.2	4.0	6
PL	6.7	6.8	6.7	6.9	6.6	6.4	6.1	5.4	5.3	4
PT	9.0	7.5	6.4	7.0	6.9	6.7	6.6	5.6	5.8	2
RO		7.2	7.2	7.6	6.4	6.1	6.0	5.3	5.3	2
SI	6.8	7.6	8.0	8.0	7.7	7.2	6.9	6.1	6.0	1
SK	7.2	6.1	5.0	5.1	5.0	4.8	4.6	4.2	4.0	2
FI	5.9	5.4	4.8	5.0	5.0	5.0	4.6	4.6	4.1	1
SE	3.6	3.7	3.3	3.2	3.1	3.0	2.8	2.7	2.6	1
IS										
NO	5.2	4.6	4.2	4.2	3.9	3.6	3.3	3.1	2.3	
CH										

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

## Comparison EU-27 – World

### INFRASTRUCTURE AND VEHICLES

2.1.14

TRANSPORT INFRASTRUCTURE					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
1 000 km	2021	2021	2020	2021	2021
Road network (paved)	4 473	4 577 <sup>(1)</sup>	1 069	5 062	1 212
Motorway network	75	92.8 <sup>(1)</sup>	9.2 <sup>(2)</sup>	169.1	64.0 <sup>(3)</sup>
Railway network	203	197.0 <sup>(4)</sup>	18.9	150.7	87.0
Electrified rail lines	114		11.7	110.8	45.0
Navigable inland waterways	42	40.2		127.6	102.0
Oil pipelines	32	370.0		131.2 <sup>(5)</sup>	70.0

VEHICLE STOCK						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2021	2021	2021	2021	2021
Passenger cars stock	million	253.3	258 <sup>(6)</sup>	61.9 <sup>(7)</sup>	167.4	50.3
Motorisation	cars / 1 000 persons	567	776	492	119	351
Commercial freight vehicles	million	36.5	13.9	14.4 <sup>(8)</sup>	32.6	6.6

TRANSPORT SAFETY						
		EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
		2021	2021	2020	2021	2021
Road fatalities	number	19 917	42 939	3 416		14 900
	per million inhabitants	45	129	27		104

**NB:** <sup>(1)</sup> 2020 data; Divided highways with 4 or more lanes (rural or urban interstate, freeways, expressways, arterial and collector) with full access control by the authorities.

<sup>(2)</sup> Japan: national expressways.

<sup>(3)</sup> Russia: roads of federal importance.

<sup>(4)</sup> United States: a sum of partly overlapping networks.

<sup>(5)</sup> China: both oil and gas pipelines.

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

<sup>(7)</sup> Japan: ordinary, small and light four-wheeled vehicles.

<sup>(8)</sup> Japan: including 8.3 million light motor vehicles.

## 2.1.15 Comparison EU-27 – World

### PASSENGER AND FREIGHT TRANSPORT

PASSENGER TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion pkm	2021	2021	2020	2021	2021
Passenger car	3 742.2	7 485.5 <sup>(1)</sup>	5.5	362.7 <sup>(2)</sup>	
Bus + trolley bus + coach	327.0	572.9	25.6		104.4
Railway	265.2	16.5	263.2	956.8	104.2
Tram + metro	55.7	7.6	<sup>(3)</sup>		40.6
Waterborne	13.8	0.4	3.2 <sup>(4)</sup>	3.3	0.4
Air (domestic/intra-EU-27)	270.1	278.1	31.5	652.9	243.3

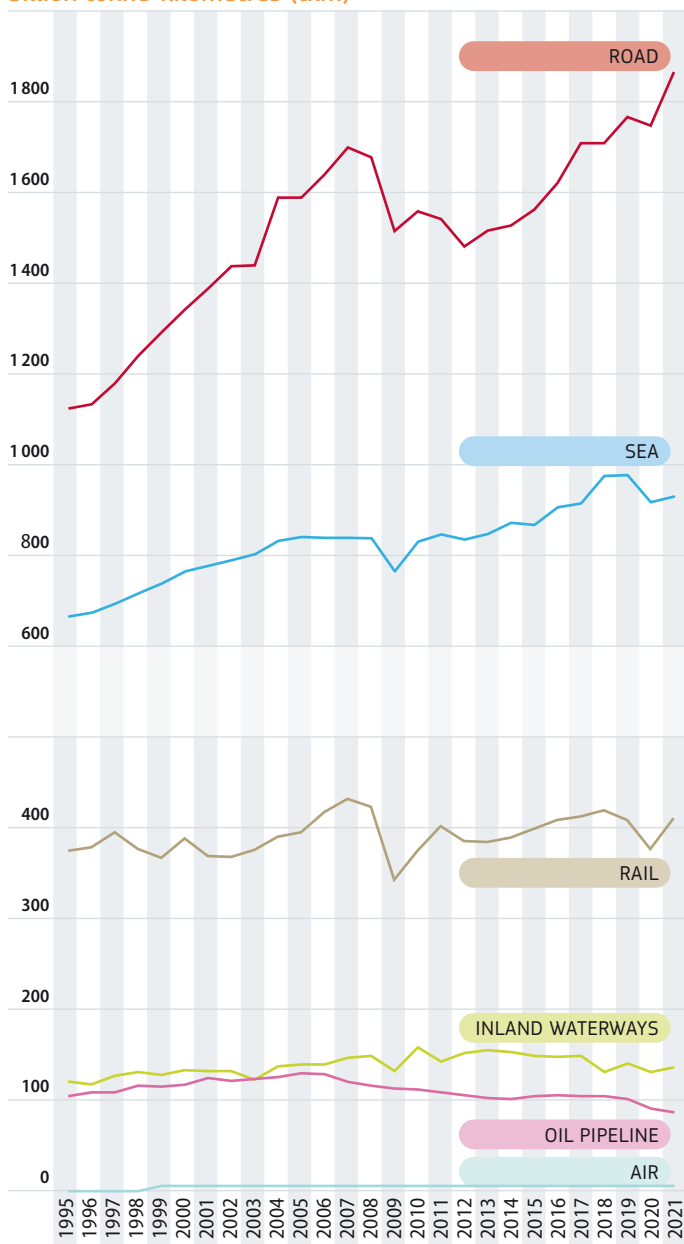
FREIGHT TRANSPORT					
	EU-27	UNITED STATES	JAPAN	CHINA	RUSSIA
billion tkm	2021	2021	2020	2021	2021
Road	1 862.5	3 129.0	213.4	6 908.7	285.0
Rail	409.6	2 239.4 <sup>(5)</sup>	18.3	3 323.8	2 639.0
Inland waterways	136.1	426.7			71.0
Oil pipeline	88.7	1 472.1		541.9 <sup>(6)</sup>	1 230.0
Sea (domestic/intra-EU-27)	932.7	226.4 <sup>(7)</sup>	153.8	11 557.8 <sup>(8)</sup>	44.0 <sup>(9)</sup>

- NB:** <sup>(1)</sup> United States: including light trucks / vans.  
<sup>(2)</sup> China: passenger-kilometers of highways including buses and coaches.  
<sup>(3)</sup> Japan: included in railway pkm.  
<sup>(4)</sup> Japan: 2019 value.  
<sup>(5)</sup> United States: Class I rail.  
<sup>(6)</sup> China: oil and gas pipelines.  
<sup>(7)</sup> United States: refers to coastal shipping.  
<sup>(8)</sup> China: both coastwise and inland waterway transport.  
<sup>(9)</sup> Coastal shipping.

## EU-27 Performance for freight transport 1995–2021 – BY MODE

2.2.1

billion tonne-kilometres (tkm)



## 2.2.2

# EU-27 Performance BY MODE

## FREIGHT TRANSPORT

	billion tkm						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA	AIR	TOTAL
1995	1 127.2	374.8	121.9	103.8	671.4	1.4	2 400
2000	1 343.9	387.9	133.7	115.7	769.8	1.7	2 753
2005	1 588.2	394.6	138.6	126.8	844.5	1.8	3 094
2010	1 558.3	375.0	155.4	111.0	834.1	1.8	3 036
2011	1 541.6	401.1	141.8	108.3	850.1	1.8	3 045
2012	1 481.7	385.2	149.8	105.0	838.4	1.8	2 962
2013	1 516.4	384.3	152.6	102.1	851.0	1.8	3 008
2014	1 527.4	388.9	150.7	101.1	875.1	2.1	3 045
2015	1 562.0	398.5	147.4	104.1	870.8	2.1	3 085
2016	1 619.7	407.5	146.6	104.7	909.3	2.1	3 190
2017	1 707.3	411.3	147.2	104.0	917.0	2.1	3 289
2018	1 707.5	418.3	131.3	104.1	977.0	2.2	3 340
2019	1 764.8	407.9	139.7	101.0	979.5	2.3	3 395
2020	1 745.3	377.3	131.7	91.7	919.9	2.0	3 268
2021	1 862.5	409.6	136.1	88.7	932.7	2.4	3 432
1995–2021 per year	65.2 %	9.3 %	11.6 %	-14.6 %	38.9 %	66.8 %	43.0 %
	2.0 %	0.3 %	0.4 %	-0.6 %	1.3 %	2.0 %	1.4 %
2000–2021 per year	38.6 %	5.6 %	1.8 %	-23.3 %	21.2 %	36.2 %	24.7 %
	1.6 %	0.3 %	0.1 %	-1.3 %	0.9 %	1.5 %	1.1 %
2020–2021	6.7 %	8.6 %	3.3 %	-3.3 %	1.4 %	15.8 %	5.0 %

## MODAL SPLIT

	(%)						
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	SEA	AIR	
1995	47.0	15.6	5.1	4.3	28.0	0.1	
2000	48.8	14.1	4.9	4.2	28.0	0.1	
2005	51.3	12.8	4.5	4.1	27.3	0.1	
2010	51.3	12.4	5.1	3.7	27.5	0.1	
2011	50.6	13.2	4.7	3.6	27.9	0.1	
2012	50.0	13.0	5.1	3.5	28.3	0.1	
2013	50.4	12.8	5.1	3.4	28.3	0.1	
2014	50.2	12.8	4.9	3.3	28.7	0.1	
2015	50.6	12.9	4.8	3.4	28.2	0.1	
2016	50.8	12.8	4.6	3.3	28.5	0.1	
2017	51.9	12.5	4.5	3.2	27.9	0.1	
2018	51.1	12.5	3.9	3.1	29.2	0.1	
2019	52.0	12.0	4.1	3.0	28.9	0.1	
2020	53.4	11.5	4.0	2.8	28.1	0.1	
2021	54.3	11.9	4.0	2.6	27.2	0.1	

**NB:** Air and Sea: only domestic and intra-EU-27 transport; estimates for air and for sea based on Eurostat data. The time series for maritime activity from 1995 to 2004 and for aviation activity from 1995 to 2007 have been recalibrated by DG MOVE in line with the new EU-27 figures to avoid break in series. Following methodological changes, the times series (2005–2020) for maritime activity were backwards revised. Road: national and international haulage by vehicles registered in the EU-27 until 2004, from 2005 onwards the activity performed by European drivers within the EU territory.

## Modal split of freight transport 2.2.3 on land 2021 – BY COUNTRY

tkm in %				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
EU-27	74.6	16.4	5.4	3.6
BE	76.8	9.5	11.5	2.3
BG	54.6	19.2	23.9	2.3
CZ	75.1	22.3	0.0	2.6
DK	87.8	8.4	-	3.8
DE	71.9	18.6	7.2	2.3
EE	59.9	40.1	-	-
IE	99.4	0.6	-	-
EL	97.0	2.8	-	0.1
ES	92.7	4.1	-	3.1
FR	84.9	10.3	2.1	2.7
HR	62.1	21.2	5.6	11.2
IT	83.3	12.0	0.1	4.6
CY	100.0	-	-	-
LV	45.9	52.7	-	1.4
LT	37.2	62.2	0.0	0.6
LU	85.6	6.5	8.0	-
HU	65.8	25.1	4.1	5.0
MT	100.0	-	-	-
NL	49.0	6.0	39.7	5.2
AT	61.7	27.0	1.9	9.5
PL	72.5	20.8	0.0	6.7
PT	87.6	10.5	-	1.9
RO	48.7	24.8	24.6	2.0
SI	66.4	33.6	-	-
SK	54.8	27.2	2.8	15.2
FI	72.7	26.9	0.4	-
SE	71.0	28.8	0.2	-
IS	100.0	-	-	-
NO	62.5	11.1	-	26.5
CH	66.2	33.5	0.1	0.2

**NB:** Territorialised tkm is not available for the candidate countries.

## 2.2.4a

## Road

### NATIONAL HAULAGE (\*)

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

billion tkm								% OF TOTAL HAULAGE 2021	% CHANGE '20/'21
	1995	2000	2005	2010	2015	2020	2021		
EU-27		936.1	1 074.6	1 035.4	1 002.6	1 108.3	1 178.3	61.3	6.3
BE	18.6	19.8	19.3	17.8	21.3	21.5	23.3	64.3	8.0
BG		3.1	5.0	6.1	7.2	7.4	9.0	25.7	21.8
CZ		14.2	15.5	14.8	21.2	28.3	29.8	46.7	5.3
DK	9.3	11.0	11.1	10.6	12.5	12.4	12.9	83.8	3.7
DE	201.3	226.5	237.6	252.5	269.7	269.9	272.0	88.5	0.8
EE	0.4	0.7	1.8	1.4	1.5	1.3	1.8	34.4	41.4
IE	4.7	8.3	14.0	8.2	7.8	9.1	10.2	81.9	13.0
EL	20.0	23.0	19.6	25.3	15.0	12.9	16.5	78.3	27.4
ES	78.7	106.9	166.4	146.2	137.2	163.7	182.5	67.5	11.5
FR	135.3	163.2	177.3	164.3	141.2	158.2	162.6	93.0	2.8
HR		1.9	4.4	4.5	4.1	4.5	4.8	35.2	7.0
IT	150.3	158.3	171.6	149.2	104.1	118.2	128.5	88.7	8.8
CY		1.3	1.4	1.1	0.5	0.7	0.7	96.2	4.6
LV		1.5	2.7	2.6	2.8	3.7	4.1	26.9	9.4
LT		1.5	2.1	2.3	2.9	4.0	3.9	6.7	-3.3
LU	0.5	0.4	0.5	0.6	1.0	0.5	0.6	9.0	21.5
HU		12.1	11.4	11.3	10.4	12.9	14.8	39.8	14.9
MT		0.2	0.2	0.2	0.2	0.2	0.2	80.0	0.0
NL	26.7	31.5	31.8	30.1	32.2	34.8	36.4	51.9	4.8
AT	11.1	12.4	12.5	13.9	15.5	17.1	18.0	66.0	5.3
PL		48.0	60.9	82.2	104.7	123.8	134.7	35.5	8.8
PT	16.5	14.2	17.4	12.9	10.8	8.7	9.4	29.3	7.6
RO		9.9	19.4	12.1	12.1	17.3	20.5	33.1	18.4
SI		1.9	2.4	2.3	2.1	2.3	2.5	9.9	8.3
SK		5.1	5.6	5.2	5.2	6.5	6.3	20.9	-2.8
FI	21.8	27.7	27.8	25.2	21.4	27.9	27.7	93.4	-0.8
SE	28.4	31.5	34.7	32.7	38.1	40.7	44.8	94.3	10.0
IS	0.5	0.6	0.7	0.8	0.9	0.9	1.1		19.9
NO		12.1	15.4	16.3	20.5	19.2	20.4	90.5	6.1
CH	8.4	8.9	9.2	9.6	10.4	10.6	10.8	85.4	1.9
BA									
ME						0.1	0.1	65.8	27.5
MD									
MK			1.4	1.2	1.1	1.5	1.9	16.4	25.5
AL									
RS									
TR	112.5	161.6	166.8	190.4	244.3	272.9	311.8		14.3
UA									
UK	146.7	150.3	151.2	137.8	142.9	140.5	149.4	96.6	6.3

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



## Road

2.2.4b

### INTERNATIONAL HAULAGE (\*)

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

billion tkm								% OF TOTAL HAULAGE 2021	% CHANGE '20/'21
	1995	2000	2005	2010	2015	2020	2021		
<b>EU-27</b>		406.3	558.7	574.3	612.6	695.2	743.2	38.7	6.9
BE	27.0	31.3	24.6	17.2	14.8	12.8	12.9	35.7	0.6
BG		3.3	9.3	13.3	25.1	25.2	26.1	74.3	3.8
CZ		23.1	27.9	37.1	37.5	27.8	34.0	53.3	22.2
DK	13.1	13.0	12.2	4.4	3.0	2.3	2.5	16.2	8.8
DE	36.5	54.2	72.5	60.6	45.2	34.7	35.3	11.5	1.7
EE	1.1	3.2	4.0	4.2	4.7	3.0	3.4	65.6	14.3
IE	0.8	3.9	3.9	2.7	2.1	2.4	2.3	18.1	-4.7
EL	4.0	4.5	4.2	4.6	4.7	12.2	4.6	21.7	-62.6
ES	22.9	41.8	66.8	63.9	72.2	78.6	87.7	32.5	11.6
FR	42.9	40.8	28.0	17.9	12.3	11.5	12.3	7.0	6.7
HR		1.0	4.9	4.2	6.4	7.8	8.8	64.8	13.6
IT	24.1	26.4	40.2	26.5	12.7	15.1	16.4	11.3	9.1
CY		0.0	0.0	0.0	0.0	0.0	0.0	3.8	-24.3
LV		3.3	5.7	8.0	11.9	10.0	11.0	73.1	10.5
LT		6.2	13.8	17.1	23.6	51.3	53.9	93.3	5.1
LU	5.0	7.2	8.3	8.1	6.9	5.7	6.3	91.0	10.9
HU		7.0	13.8	22.4	28.0	19.4	22.3	60.2	15.3
MT		0.1	0.1	0.1	0.1	0.1	0.1	20.0	0.0
NL	40.4	48.0	52.3	46.8	36.7	32.5	33.8	48.1	4.1
AT	15.4	22.7	24.5	14.7	10.0	8.8	9.3	34.0	5.2
PL		27.0	50.9	120.1	156.0	231.1	245.1	64.5	6.0
PT	15.5	12.6	25.2	22.5	21.0	15.5	22.7	70.7	46.0
RO		4.4	32.1	13.8	27.0	37.7	41.4	66.9	9.7
SI		3.4	8.7	13.6	15.8	20.4	22.5	90.1	10.4
SK		9.3	16.9	22.4	28.3	25.2	23.9	79.1	-5.0
FI	2.7	4.3	4.0	4.4	3.1	1.8	2.0	6.6	8.7
SE	3.2	4.2	3.9	3.5	3.4	2.5	2.7	5.7	9.5
IS									
NO		3.0	2.9	3.4	2.7	2.2	2.1	9.5	4.9
CH <sup>(1)</sup>	0.7	0.9	1.0	3.7	2.1	1.8	1.8	14.6	1.2
BA									
ME						0.0	0.0	41.8	42.4
MD									
MK					9.1	9.1	9.6	83.6	4.4
AL									
RS									
TR									
UA									
UK	14.8	15.3	10.1	8.9	7.2	5.0	5.3	3.4	6.9

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

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

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

Sources: Eurostat, International Transport Forum, national statistics (MK), UNECE (UK as of 2020), estimate (*in italics*)

## 2.2.4c Road – NATIONAL & INTERNATIONAL HAULAGE (\*)

### HAULAGE BY VEHICLES REGISTERED IN THE REPORTING COUNTRY

	billion tkm							%
	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>1 127.2</b>	<b>1 343.9</b>	<b>1 633.3</b>	<b>1 609.7</b>	<b>1 615.1</b>	<b>1 803.8</b>	<b>1 921.4</b>	<b>6.5</b>
BE	45.6	51.0	43.8	35.0	36.1	34.4	36.2	5.2
BG	5.2	6.4	14.4	19.4	32.3	32.6	35.1	7.9
CZ	31.3	37.3	43.4	51.8	58.7	56.1	63.8	13.7
DK	22.4	24.0	23.3	15.0	15.5	14.7	15.3	4.5
DE	237.8	280.7	310.1	313.1	314.8	304.6	307.3	0.9
EE	1.5	3.9	5.8	5.6	6.3	4.3	5.2	22.4
IE	5.5	12.3	17.9	10.9	9.9	11.4	12.5	9.4
EL	24.0	29.0	23.8	29.8	19.8	25.2	21.1	-16.3
ES	101.6	148.7	233.2	210.1	209.4	242.3	270.2	11.5
FR	178.2	204.0	205.3	182.2	153.6	169.7	174.9	3.1
HR		2.9	9.3	8.8	10.4	12.3	13.6	11.2
IT	174.4	184.7	211.8	175.8	116.8	133.2	145.0	8.8
CY	1.2	1.3	1.4	1.1	0.6	0.7	0.7	3.1
LV	1.8	4.8	8.4	10.6	14.7	13.7	15.1	10.2
LT	5.2	7.8	15.9	19.4	26.5	55.3	57.8	4.5
LU	5.5	7.6	8.8	8.7	7.8	6.2	6.9	11.8
HU	13.8	19.1	25.2	33.7	38.4	32.2	37.1	15.1
MT	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0
NL	67.1	79.6	84.2	76.8	68.9	67.6	70.2	3.9
AT	26.5	35.1	37.0	28.7	25.5	25.9	27.3	5.3
PL	51.2	75.0	111.8	202.3	260.7	354.9	379.8	7.0
PT	32.0	26.8	42.6	35.4	31.8	24.2	32.1	32.2
RO	19.7	14.3	51.5	25.9	39.0	55.0	61.8	12.4
SI	3.3	5.3	11.0	15.9	17.9	22.7	25.0	10.2
SK	15.9	14.3	22.6	27.6	33.5	31.6	30.2	-4.6
FI	24.5	32.0	31.9	29.5	24.5	29.7	29.6	-0.2
SE	31.6	35.6	38.6	36.3	41.5	43.2	47.5	10.0
IS <sup>(1)</sup>	0.5	0.6	0.7	0.8	0.9	0.9	1.1	19.9
NO	9.7	15.1	18.2	19.8	23.1	21.4	22.6	5.4
CH <sup>(2)</sup>	9.1	9.8	10.2	13.2	12.4	12.5	12.7	1.7
BA					3.4	3.8	4.2	9.1
ME			0.1	0.2	0.1	0.1	0.1	23.5
MD		1.0	2.4	3.2	4.2	5.6	6.3	14.3
MK			5.6	4.2	10.2	10.6	11.4	7.5
AL	2.1	2.2	3.2	4.6	3.4	3.5	3.5	0.0
RS		0.6	0.7	1.7	3.0	7.7	10.1	30.6
TR <sup>(1)</sup>	112.5	161.6	166.8	190.4	244.3	272.9	311.8	14.3
UA		2.5	9.2	53.9	53.3	65.2	67.4	3.4
UK	161.5	165.6	161.3	146.7	150.1	154.5	154.7	0.1

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

(<sup>1</sup>) TR, IS: national transport only.

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

## Road – TRANSPORT PERFORMANCE 2.2.4d

### ADJUSTED FOR TERRITORIALITY (\*)

#### HAULAGE PERFORMED WITHIN THE TERRITORY OF EACH COUNTRY BY ANY VEHICLE

billion tkm						%
	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>1 588.2</b>	<b>1 558.3</b>	<b>1 562.0</b>	<b>1 745.3</b>	<b>1 862.5</b>	<b>6.7</b>
BE	46.8	45.6	50.5	51.9	54.7	5.4
BG	11.0	8.9	11.2	11.0	13.3	20.6
CZ	32.3	32.0	42.7	51.7	55.1	6.6
DK	16.8	17.2	19.1	20.2	20.8	3.0
DE	370.8	404.9	433.1	466.4	480.2	2.9
EE	2.7	2.2	2.8	2.8	3.2	15.3
IE	15.6	9.7	9.2	9.6	10.8	12.5
EL	21.9	27.6	17.7	16.8	19.7	17.4
ES	210.7	184.4	178.0	207.5	231.1	11.4
FR	294.5	275.1	251.2	280.1	295.0	5.3
HR	10.5	7.9	8.2	9.3	9.3	0.2
IT	204.0	183.6	134.0	152.9	167.9	9.8
CY	1.4	1.1	0.5	0.7	0.7	4.6
LV	3.7	3.7	4.8	6.1	6.4	4.4
LT	4.4	5.0	7.3	8.7	8.7	0.7
LU	1.9	2.1	2.5	2.1	2.3	11.8
HU	22.2	21.3	22.1	26.2	29.7	13.4
MT						
NL	49.7	49.2	51.7	56.9	58.5	2.7
AT	32.4	37.9	41.4	47.0	49.8	6.0
PL	86.8	116.2	147.4	175.1	189.8	8.4
PT	23.9	18.9	16.3	13.9	15.6	12.1
RO	32.5	15.6	16.5	21.7	26.8	23.6
SI	7.3	7.3	7.8	9.0	9.8	9.1
SK	10.5	11.8	13.9	16.5	16.5	0.2
FI	28.8	26.5	22.8	28.9	29.0	0.3
SE	45.1	42.4	49.4	52.3	57.7	10.3
IS						
NO	17.1	19.1	23.7	22.8	24.3	6.6
CH	23.0	21.6	20.8	23.0	23.7	3.4
UK	167.3	151.5	157.2			

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

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

EU aggregates do not include road freight transport for **Malta** (negligible, exempted from reporting). BG and RO data for 2005 are based on their reporting for 2006.

Data for HR and CH for 2005-2007 are based on their reporting for 2008. Road transport for CY includes only national transport (international transport is negligible). Territorialised tkm is not available for the candidate countries.

## 2.2.5

## Railways

billion tkm								%
	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>374.8</b>	<b>387.9</b>	<b>394.6</b>	<b>375.0</b>	<b>398.5</b>	<b>377.3</b>	<b>409.6</b>	<b>8.6</b>
BE	7.3	7.7	8.1	7.5	7.3	6.7	6.8	1.0
BG	8.6	5.5	5.2	3.1	3.7	4.5	4.7	3.4
CZ	22.6	17.5	14.9	13.8	15.3	15.3	16.3	7.0
DK	2.0	2.0	2.0	2.2	2.6	2.5	2.0	-18.9
DE	70.5	82.7	95.4	107.3	116.6	109.2	123.9	13.5
EE	3.8	8.1	10.6	6.6	3.1	1.7	2.1	22.8
IE	0.6	0.5	0.3	0.1	0.1	0.1	0.1	-5.4
EL	0.3	0.4	0.6	0.6	0.3	0.6	0.6	4.1
ES	11.0	12.2	11.6	8.9	11.0	8.9	10.3	15.5
FR	48.3	57.7	40.7	30.0	36.3	31.6	35.8	13.3
HR	2.0	1.8	2.8	2.6	2.2	3.3	3.2	-3.3
IT	21.7	22.8	22.8	18.6	20.8	20.8	24.3	16.9
CY	-	-	-	-	-	-	-	-
LV	9.8	13.3	19.8	17.2	18.9	8.0	7.4	-7.7
LT	7.2	8.9	12.5	13.4	14.0	15.9	14.6	-8.2
LU	0.5	0.6	0.4	0.3	0.2	0.2	0.2	8.6
HU	8.4	8.8	9.1	8.8	10.0	11.6	11.3	-2.1
MT	-	-	-	-	-	-	-	-
NL	3.1	4.5	5.9	5.9	6.5	6.7	7.2	7.8
AT	13.2	16.6	19.0	19.8	20.8	20.5	21.8	6.2
PL	68.2	54.0	50.0	48.7	50.6	51.1	54.4	6.4
PT	2.0	2.2	2.4	2.3	2.7	2.3	1.9	-18.3
RO	17.9	16.4	16.6	12.4	13.7	12.3	13.6	10.9
SI	3.1	2.9	3.2	3.4	4.2	4.7	4.9	4.5
SK	13.8	11.2	9.5	8.1	8.4	6.9	8.2	18.6
FI	9.6	10.1	9.7	9.8	8.5	10.1	10.8	6.0
SE	19.4	19.5	21.7	23.5	20.7	22.1	23.4	6.1
IS	-	-	-	-	-	-	-	-
NO	2.7	3.0	3.2	3.5	3.5	4.1	4.3	4.7
CH	8.9	11.1	11.7	11.1	12.4	11.1	12.0	8.6
BA		0.1	0.4	0.9	1.3	1.0	1.2	14.7
ME				0.2	0.1	0.1	0.1	-2.1
MD		1.5	3.0	1.0	1.0	0.6	0.7	10.9
MK		0.5	0.5	0.5	0.3	0.3	0.4	11.4
AL	0.1	0.0	0.0	0.1	0.0	0.0	0.0	-3.4
RS				3.5	3.2	2.7	2.9	6.5
TR	8.5	9.8	9.1	11.3	10.2	15.3	14.6	-4.7
UA		172.8	224.0	218.1	195.1	175.6	181.3	3.2
UK	13.3	18.1	21.4	18.6	19.3	15.2	16.9	11.3

NB: BE: data from UIC, therefore it refers only to companies members of UIC.

## Inland waterways

2.2.6

billion tkm								%
	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>121.9</b>	<b>133.7</b>	<b>138.6</b>	<b>155.4</b>	<b>147.4</b>	<b>131.7</b>	<b>136.1</b>	<b>3.3</b>
BE	5.7	7.2	8.6	9.1	10.4	7.4	8.2	10.7
BG	0.5	0.3	0.8	6.0	5.6	6.3	5.8	-7.4
CZ	0.3	0.1	0.1	0.0	0.0	0.0	0.0	22.2
DK	-	-	-	-	-	-	-	-
DE	64.0	66.5	64.1	62.3	55.3	46.3	48.2	4.0
EE	0.0	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6.6	9.1	8.9	9.5	8.5	7.0	7.2	3.1
HR	0.0	0.1	0.1	0.9	0.9	0.9	0.8	-6.9
IT	0.1	0.2	0.1	0.1	0.1	0.1	0.1	12.9
CY	-	-	-	-	-	-	-	-
LV	-	-	-	-	-	-	-	-
LT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
LU	0.3	0.4	0.3	0.4	0.2	0.2	0.2	8.0
HU	1.2	0.9	2.1	2.4	1.8	2.0	1.9	-6.3
MT	-	-	-	-	-	-	-	-
NL	35.5	41.3	42.2	46.6	48.5	45.2	47.4	4.9
AT	2.0	2.4	1.8	2.4	1.8	1.6	1.5	-6.2
PL	0.9	1.2	0.3	0.1	0.1	0.1	0.1	-29.9
PT	-	-	-	-	-	-	-	-
RO	3.1	2.6	8.4	14.3	13.2	13.6	13.5	-0.9
SI	-	-	-	-	-	-	-	-
SK	1.5	1.4	0.7	1.2	0.7	0.8	0.8	0.6
FI	0.1	0.1	0.1	0.1	0.1	0.1	0.1	16.5
SE	-	-	-	-	-	0.1	0.1	79.7
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	0.0	0.1	0.0	0.0	0.0	0.0	0.0	6.1
BA	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MD	-	0.0	0.0	0.4	0.4	0.5	0.3	-40.0
MK	-	-	-	-	-	-	-	-
AL	-	-	-	-	-	-	-	-
RS	0.3	1.0	1.6	0.9	0.9	0.6	1.9	237.5
TR	-	-	-	-	-	-	-	-
UA	-	5.9	6.3	3.8	1.6	1.4	1.5	9.9
UK	0.2	0.2	0.2	0.2	0.1	0.1	0.1	-20.7

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

IT, LT, FI and UK: data include only national traffic.

BG and RO: data include transit traffic from 2009 (and partially in 2008).

HR: data include transit traffic from 2008 onward.

## 2.2.7

## Oil pipelines

billion tkm								%
	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>103.8</b>	<b>115.7</b>	<b>126.8</b>	<b>111.0</b>	<b>104.1</b>	<b>91.7</b>	<b>88.7</b>	<b>-3.3</b>
BE	1.4	1.6	1.5	1.5	1.6	1.6	1.6	0.0
BG	0.4	0.4	0.4	0.4	0.7	0.6	0.6	0.5
CZ	2.3	1.6	2.3	2.2	2.0	1.7	1.9	13.0
DK	3.1	4.7	5.1	3.5	2.3	1.0	0.9	-6.6
DE	14.8	15.0	16.7	16.3	17.7	16.7	15.7	-5.9
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	0.2	0.2	0.0	0.0	0.0	3.2
ES	5.9	7.5	9.2	8.2	10.1	7.8	7.8	0.3
FR	22.3	21.7	20.9	17.6	11.4	9.5	9.3	-2.1
HR		0.4	1.5	1.3	1.4	1.6	1.7	1.9
IT	9.7	10.3	11.4	10.4	9.2	9.1	9.3	2.3
CY	-	-	-	-	-	-	-	-
LV	5.3	6.5	3.4	2.4	2.0	0.5	0.2	-60.9
LT	2.0	3.5	4.4	0.6	0.5	0.2	0.1	-37.8
LU	-	-	-	-	-	-	-	-
HU	2.2	2.3	2.7	3.2	2.5	2.4	2.3	-5.2
MT	-	-	-	-	-	-	-	-
NL	5.3	5.9	5.9	5.6	6.0	5.2	6.2	19.5
AT	6.8	7.6	7.8	7.0	8.5	7.7	7.7	-0.3
PL	13.5	20.4	25.4	24.2	21.8	20.4	17.4	-14.7
PT	-	0.5	0.5	0.4	0.4	0.3	0.3	7.7
RO	2.9	1.4	2.2	1.0	1.0	1.1	1.1	1.6
SI	-	-	-	-	-	-	-	-
SK	6.1	4.6	5.3	5.0	5.0	4.4	4.6	4.5
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	5.3	3.5	4.6	3.5	3.4	9.4	10.3	9.6
CH	1.2	0.2	0.2	0.2	0.1	0.1	0.1	-14.0
BA								
ME	-	-	-	-	-	-	-	-
MD				0.4				
MK	-	-	0.1	0.1	0.0	0.0	0.1	30.5
AL	-	-	-	-	-	-	-	-
RS	-	-	-	0.4	0.4	0.5	0.5	6.3
TR	3.2	53.1	5.7	39.6	52.5	54.0	52.6	-2.5
UA	37.6	36.6	32.1	18.7	10.8	10.3	10.0	-2.7
UK	11.1	11.4	10.8	10.2	10.0	10.0	10.0	0.0

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

## United States

2.2.8

### PERFORMANCE BY MODE OF TRANSPORT: FREIGHT

	billion tkm				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	TOTAL
1990	2 432.2	1 509.6	515.8	1 519.9	5 977.5
1995	2 239.7	1 906.3	534.4	1 564.1	6 244.5
2000	2 929.1	2 140.3	526.2	1 413.0	7 008.6
2005	3 275.6	2 476.7	476.5	1 263.9	7 492.7
2010	2 672.9	2 468.8	450.6	1 395.7	6 988.0
2015	2 899.4	2 537.8	457.9	1 288.6	7 183.8
2016	3 008.8	2 314.7	445.0	1 269.8	7 038.3
2017	3 293.1	2 445.1	455.0	1 299.2	7 492.4
2018	3 287.6	2 525.2	462.9	1 447.4	7 723.2
2019	3 325.0	2 357.1	425.2	1 522.7	7 630.1
2020	3 290.0	2 102.1	409.7	1 426.3	7 228.1
2021	3 129.0	2 239.4	426.7	1 472.1	7 267.3

### AVERAGE ANNUAL CHANGE

	% PER YEAR				
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES	TOTAL
2001	2.5	2.0	-4.1	-4.5	0.5
2002	7.8	0.8	0.3	-4.7	2.7
2003	1.8	2.9	-6.0	-0.6	1.2
2004	1.1	7.2	4.3	-0.6	2.9
2005	-1.6	2.0	-4.0	-0.6	-0.4
2006	-2.4	4.4	2.5	-0.6	0.5
2007	2.1	-0.1	-3.3	-0.6	0.6
2008	-16.1	0.4	-3.8	14.7	-4.6
2009	9.5	-13.8	-10.4	-3.5	-2.7
2010	-10.9	10.4	10.7	0.9	-0.5
2011	-9.8	2.3	3.0	6.5	-1.5
2012	11.4	-1.0	-0.5	-15.8	0.2
2013	9.0	1.6	-5.2	-4.4	3.0
2014	-2.4	6.4	10.2	4.4	2.7
2015	1.5	-6.1	-5.1	3.3	-1.5
2016	3.8	-8.8	-2.8	-1.5	-2.0
2017	9.4	5.6	2.2	2.3	6.5
2018	-0.2	3.3	1.7	11.4	3.1
2019	1.1	-6.7	-8.1	5.2	-1.2
2020	-1.1	-10.8	-3.7	-6.3	-5.3
2021	-4.9	6.5	4.2	3.2	0.5
1990 - 1995	-1.6	4.8	0.7	0.6	0.9
1995 - 2000	5.5	2.3	-0.3	-2.0	2.3
2000 - 2010	-0.9	1.4	-1.5	-0.1	0.0
2011 - 2021	2.6	-1.2	-0.8	-0.1	0.5

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

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

## 2.2.8

## United States

### MODAL SPLIT – FREIGHT TRANSPORT

	%			
	ROAD	RAIL	INLAND WATERWAYS	PIPELINES
1990	40.7	25.3	8.6	25.4
1991	39.5	26.0	8.7	25.8
1992	40.0	25.9	8.6	25.5
1993	38.9	27.1	8.3	25.8
1994	39.4	27.9	8.3	24.5
1995	35.9	30.5	8.6	25.0
1996	36.4	30.6	8.0	24.9
1997	39.6	29.1	7.7	23.7
1998	41.0	29.1	7.5	22.3
1999	41.2	30.0	7.6	21.2
2000	41.8	30.5	7.5	20.2
2001	42.7	31.0	7.2	19.2
2002	44.8	30.4	7.0	17.8
2003	45.0	31.0	6.5	17.5
2004	44.3	32.3	6.6	16.9
2005	43.7	33.1	6.4	16.9
2006	42.5	34.4	6.5	16.7
2007	43.1	34.1	6.2	16.5
2008	37.9	35.9	6.3	19.8
2009	42.7	31.8	5.8	19.7
2010	38.2	35.3	6.4	20.0
2011	35.0	36.7	6.7	21.6
2012	38.9	36.2	6.7	18.1
2013	41.2	35.8	6.2	16.8
2014	39.2	37.1	6.6	17.1
2015	40.4	35.3	6.4	17.9
2016	42.7	32.9	6.3	18.0
2017	44.0	32.6	6.1	17.3
2018	42.6	32.7	6.0	18.7
2019	43.6	30.9	5.6	20.0
2020	45.5	29.1	5.7	19.7
2021	43.1	30.8	5.9	20.3

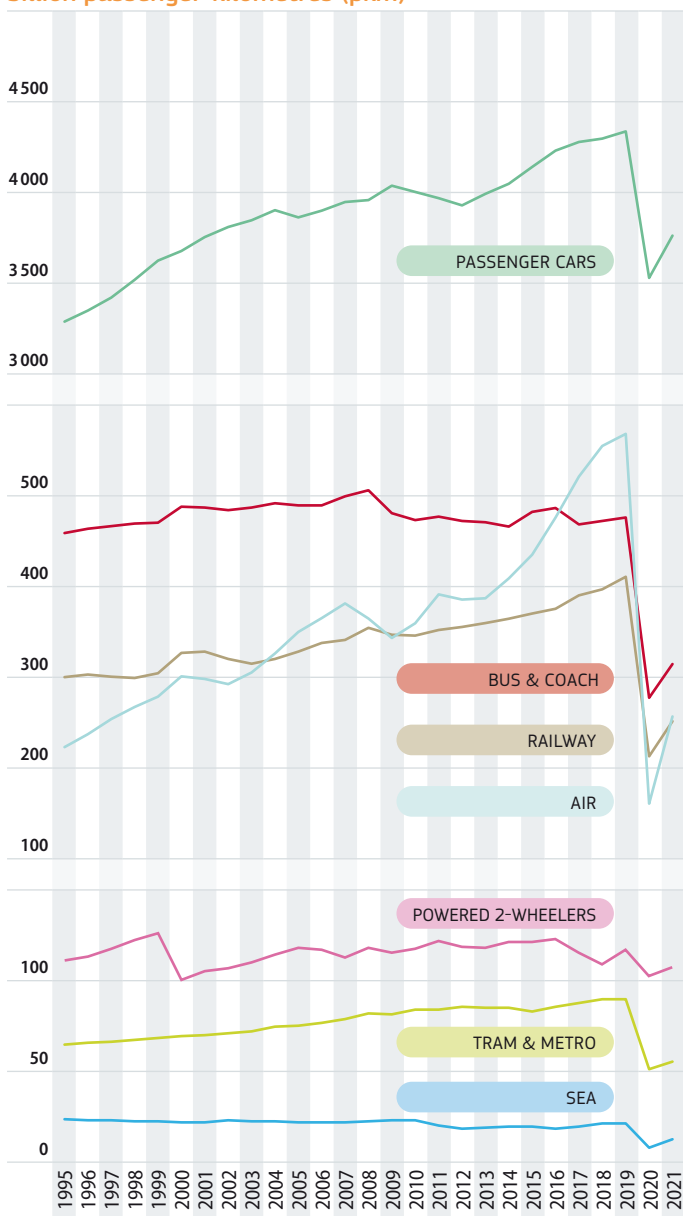
**NB:** Time series for road transport revised according to the estimates based on the Freight Analysis Framework (FAF). From the break onwards, the source is the Bureau of Transportation Statistics.



## EU-27 Performance for passenger transport 1995-2021 – BY MODE

2.3.1

billion passenger-kilometres (pkm)



## 2.3.2

# EU-27 Performance BY MODE

## PASSENGER TRANSPORT

	billion pkm							
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA	TOTAL
1995	3 283.8	108.2	468.0	312.7	63.8	237.2	22.8	4 496
2000	3 660.4	98.9	496.5	338.6	67.8	313.3	21.4	4 997
2005	3 839.2	114.3	497.8	339.8	73.2	361.3	21.3	5 247
2010	3 975.9	113.5	482.2	357.1	80.8	370.8	22.5	5 403
2011	3 943.6	117.4	485.6	363.2	81.2	401.8	20.0	5 413
2012	3 904.5	114.8	481.1	366.4	82.3	396.3	18.5	5 364
2013	3 964.8	114.3	479.6	370.8	81.9	397.7	19.3	5 428
2014	4 020.3	117.0	475.2	375.2	82.0	419.0	19.4	5 508
2015	4 110.5	117.0	490.9	381.1	79.9	445.0	19.4	5 644
2016	4 196.6	118.3	495.3	386.3	82.3	485.0	18.4	5 782
2017	4 241.4	111.8	477.3	400.7	84.1	529.3	19.7	5 864
2018	4 261.0	106.4	481.0	407.1	86.3	562.2	20.8	5 925
2019	4 298.3	113.0	484.9	420.8	86.1	575.4	21.1	6 000
2020	3 516.9	100.5	290.5	227.2	51.6	175.8	10.4	4 373
2021	3 742.2	104.8	327.0	265.2	55.7	270.1	13.8	4 779
'95/'21	14.0 %	-3.1 %	-30.1 %	-15.2 %	-12.8 %	13.9 %	-39.5 %	6.3 %
/year	0.5 %	-0.1 %	-1.4 %	-0.6 %	-0.5 %	0.5 %	-1.9 %	0.2 %
'00/'21	2.2 %	5.9 %	-34.1 %	-21.7 %	-18.0 %	-13.8 %	-35.5 %	-4.4 %
/year	0.1 %	0.3 %	-2.0 %	-1.2 %	-0.9 %	-0.7 %	-2.1 %	-0.2 %
'20/'21	6.4 %	4.2 %	12.6 %	16.7 %	7.8 %	53.6 %	32.8 %	9.3 %

## MODAL SPLIT

	%						
	PASSEN- GER CARS	P2W	BUS & COACH	RAILWAY	TRAM & METRO	AIR	SEA
1995	73.0	2.4	10.4	7.0	1.4	5.3	0.5
2000	73.3	2.0	9.9	6.8	1.4	6.3	0.4
2005	73.2	2.2	9.5	6.5	1.4	6.9	0.4
2010	73.6	2.1	8.9	6.6	1.5	6.9	0.4
2011	72.9	2.2	9.0	6.7	1.5	7.4	0.4
2012	72.8	2.1	9.0	6.8	1.5	7.4	0.3
2013	73.0	2.1	8.8	6.8	1.5	7.3	0.4
2014	73.0	2.1	8.6	6.8	1.5	7.6	0.4
2015	72.8	2.1	8.7	6.8	1.4	7.9	0.3
2016	72.6	2.0	8.6	6.7	1.4	8.4	0.3
2017	72.3	1.9	8.1	6.8	1.4	9.0	0.3
2018	71.9	1.8	8.1	6.9	1.5	9.5	0.4
2019	71.6	1.9	8.1	7.0	1.4	9.6	0.4
2020	80.4	2.3	6.6	5.2	1.2	4.0	0.2
2021	78.3	2.2	6.8	5.6	1.2	5.7	0.3

**NB:** Air and Sea: only domestic and intra-EU-27 transport; estimates for air and for sea based on Eurostat data. The time series for maritime activity from 1995 to 2004 and for aviation activity from 1995 to 2007 have been recalibrated by DG MOVE in line with the new EU-27 figures to avoid break in series. Following change in the methodology the time series 2008-2020 for maritime and air activity have been revised.

P2W: Powered two-wheelers.

Sources: Tables 2.3.4, 2.3.5, 2.3.6, 2.3.7, estimates (*in italics*)

## Modal split of passenger transport 2.3.3 on land 2021 – BY COUNTRY

pkm as %				
	PASSENGER CARS	BUSES & COACHES	RAILWAYS	TRAM & METRO
<b>EU-27</b>	<b>85.2</b>	<b>7.4</b>	<b>6.0</b>	<b>1.3</b>
BE	84.9	8.1	6.1	0.8
BG	88.3	8.4	2.0	1.3
CZ	81.9	8.5	6.3	3.4
DK	86.3	7.1	6.1	0.5
DE	88.5	3.8	6.4	1.3
EE	88.9	8.7	2.0	0.4
IE	85.5	12.9	1.4	0.2
EL	86.3	12.2	0.6	1.0
ES	85.7	7.2	5.2	2.0
FR	85.0	4.8	9.4	0.9
HR	87.5	9.0	2.0	1.4
IT	82.0	12.7	4.4	0.9
CY	87.3	12.7	-	-
LV	88.2	9.0	2.4	0.4
LT	94.7	4.4	0.9	-
LU	86.0	10.2	3.5	0.4
HU	77.7	14.0	6.3	2.0
MT	85.9	14.1	-	-
NL	89.0	2.3	8.3	0.4
AT	75.7	8.4	9.2	6.8
PL	85.3	7.8	5.8	1.1
PT	90.8	5.7	2.9	0.7
RO	80.0	14.5	3.1	2.4
SI	90.0	8.2	1.8	-
SK	83.3	10.1	6.2	0.5
FI	87.1	8.2	4.0	0.7
SE	82.9	8.2	7.4	1.5
IS	89.0	11.0	-	-
NO	92.6	4.1	2.5	0.8
CH	81.7	5.0	12.5	0.7
BA				
ME	98.5	0.7	0.8	-
MD				
MK	98.2	1.6	0.2	-
AL	92.8	7.2	0.0	-
RS	87.2	10.4	0.6	1.9
TR				
UA				
UK	90.7	3.1	4.9	1.3

**NB:** If powered two-wheelers are included, they account for 2.4 % of the total in EU-27, while the share of the other modes becomes:

<b>EU-27</b>	<b>83.3</b>	<b>7.3</b>	<b>5.9</b>	<b>1.2</b>
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## 2.3.4

## Passenger cars

billion pkm									%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
EU-27		3 283.8	3 660.4	3 839.2	3 975.9	4 110.5	3 516.9	3 742.2	6.4
BE	89.5	96.4	102.5	102.8	109.4	107.0	91.4	96.7	5.8
BG		25.0	26.9	35.1	46.9	56.8	50.1	52.0	3.8
CZ		54.5	63.9	68.6	63.6	69.7	68.9	87.9	27.6
DK	47.2	48.4	50.6	49.8	51.7	56.8	58.5	58.9	0.7
DE	683.1	815.3	831.3	856.9	887.0	927.0	785.4	791.2	0.7
EE		5.1	6.7	9.9	10.1	12.3	12.2	13.1	7.3
IE	28.5	31.6	34.6	44.4	48.1	51.9	50.8	53.8	5.9
EL	35.0	44.0	63.0	85.0	99.6	98.3	91.0	97.6	7.2
ES	174.4	250.4	302.6	337.8	341.6	317.6	265.5	281.3	5.9
FR	592.5	641.2	687.7	704.6	695.9	782.3	629.8	718.4	14.1
HR		12.5	20.0	24.0	25.7	26.4	20.2	23.1	14.4
IT	522.6	614.7	713.9	677.0	698.4	676.4	488.3	518.3	6.1
CY		3.4	3.9	4.8	5.9	6.2	6.0	6.5	7.6
LV		7.5	11.5	12.1	12.3	13.5	14.8	13.4	-9.1
LT		16.0	26.0	34.8	32.6	24.9	28.5	30.9	8.2
LU	4.0	4.7	5.6	6.3	6.5	7.3	7.1	7.6	6.7
HU	47.0	45.4	46.2	49.4	52.6	54.6	63.9	67.4	5.4
MT		1.7	1.8	2.0	2.2	2.5	2.4	2.5	6.7
NL	137.3	131.4	141.1	148.8	144.2	139.5	105.2	115.8	10.1
AT	53.7	59.4	64.7	68.5	68.4	72.9	65.2	69.2	6.1
PL		110.7	130.1	152.3	188.8	200.6	224.1	231.7	3.4
PT	40.0	52.5	71.0	85.0	83.7	84.5	85.2	90.6	6.4
RO		40.0	51.0	61.0	75.5	89.9	99.1	109.0	10.0
SI	13.3	16.3	20.3	22.5	25.6	26.0	23.9	25.5	6.8
SK		18.0	23.9	25.8	26.9	27.5	24.8	26.7	7.4
FI	51.2	50.0	55.7	61.9	64.7	66.3	64.1	63.6	-0.8
SE	85.9	87.6	103.7	108.0	108.0	111.9	90.2	89.5	-0.8
IS		3.0	3.8	4.6	5.0	5.6	6.2	7.0	12.7
NO	43.5	44.7	51.2	54.0	58.8	64.7	62.8	65.3	4.1
CH	73.3	69.6	75.0	77.8	85.9	92.0	80.1	92.7	15.6
BA									
ME					4.1	4.1	4.2	4.7	10.8
MD			0.0	0.0	0.1	0.1	0.2	0.2	37.7
MK	3.7	4.6	4.8	4.0	4.7	7.0	9.7	10.8	11.6
AL		4.8	5.1	6.6	5.5	9.1	10.9	12.5	15.6
RS					30.6	28.6	27.7	30.1	8.6
TR	34.3	52.7	79.0	100.0	137.9	199.9	215.3	236.8	10.0
UA									
UK	588.0	617.9	638.6	664.6	644.3	661.9	505.3	566.1	12.0

**NB:** Data is not harmonised and therefore not fully comparable. 2021 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; data revision since 2000.

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

2021 provisional figures;

CH: includes activity of foreign vehicles in the country.

TR: excludes urban traffic.

DK: figures exclude activity of vans with a mass higher than 2 000 kg.

MD: includes activity of taxis only.

## Buses & coaches

2.3.5

billion pkm									%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>		<b>468.0</b>	<b>496.5</b>	<b>497.8</b>	<b>482.2</b>	<b>490.9</b>	<b>290.5</b>	<b>327.0</b>	<b>12.6</b>
BE	11.4	13.1	13.3	17.5	17.4	14.4	8.9	9.3	4.5
BG	26.0	11.6	14.6	13.7	10.6	12.5	5.0	5.0	-1.7
CZ		18.6	16.2	15.6	17.0	16.3	9.4	9.1	-2.9
DK	6.4	7.3	7.4	7.2	6.8	6.9	4.5	4.8	6.3
DE	73.1	68.5	69.0	67.1	61.8	65.1	34.0	34.3	0.9
EE	4.5	2.0	2.6	2.7	2.1	2.4	1.4	1.3	-6.3
IE	3.9	5.2	7.0	7.9	8.5	8.5	7.4	8.1	10.4
EL	17.7	20.2	21.7	21.7	21.1	21.1	13.3	13.8	3.4
ES	33.4	39.6	50.3	53.2	50.9	46.4	18.9	23.7	25.0
FR	52.3	53.2	49.6	50.1	54.0	57.0	36.9	40.2	8.9
HR	7.0	4.1	3.3	3.4	3.2	3.4	2.1	2.4	15.1
IT	84.0	87.1	93.4	101.0	102.2	102.5	57.8	80.3	39.0
CY		1.0	1.1	1.3	1.3	1.4	0.9	0.9	7.9
LV	5.9	1.8	2.3	2.9	2.3	2.6	1.7	1.4	-17.2
LT	7.9	4.2	2.8	3.7	2.7	2.7	1.5	1.5	-5.4
LU	0.5	0.5	0.6	0.8	0.9	1.1	0.8	0.9	7.6
HU	19.3	16.6	18.7	17.8	16.5	17.8	12.4	12.2	-1.9
MT		0.4	0.5	0.5	0.5	0.5	0.4	0.4	8.0
NL	13.0	12.0	4.6	4.8	4.8	4.9	2.4	2.9	20.7
AT	5.7	7.1	9.0	9.2	8.6	9.1	7.4	7.7	3.1
PL	46.3	34.0	59.2	49.2	41.7	37.6	19.3	21.1	9.3
PT	10.3	11.3	11.8	6.4	6.1	5.5	3.8	5.7	49.3
RO	24.0	12.3	7.7	11.8	15.8	24.9	18.7	19.7	5.4
SI	6.5	4.1	3.5	3.1	3.2	3.6	2.0	2.3	16.5
SK		14.4	9.3	8.5	5.3	5.4	3.7	3.2	-13.9
FI	8.5	8.0	7.7	7.5	7.5	7.5	6.8	6.0	-11.8
SE	9.7	9.7	9.2	9.3	9.4	9.8	9.0	8.9	-1.3
IS		0.4	0.5	0.6	0.6	0.7	0.7	0.9	20.5
NO	3.9	3.8	4.1	4.3	4.5	4.1	2.8	2.9	1.9
CH	3.3	5.5	4.8	5.3	5.5	6.0	5.4	5.7	6.2
BA	2.7	0.1			1.7	1.7	0.7	0.8	12.7
ME					0.1	0.1	0.0	0.0	6.7
MD		2.3	1.8	2.7	2.8	3.2	2.1	2.5	17.5
MK		0.9	1.0	0.7	0.5	1.0	0.3	0.2	-42.7
AL	2.2	0.2	0.2	0.3	2.4	1.2	0.9	1.0	6.5
RS	7.2	3.7	3.1	4.8	4.7	4.6	3	3.6	16.2
TR		85.7	87.4	95.0	89.1	90.8	73.7	74.8	1.5
UA			28.8	52.5	58.4	40.7	22.5	22.6	0.4
UK	47.1	44.8	48.0	44.0	46.2	40.9	15.2	19.4	27.7

**NB:** Data is not harmonised and therefore not fully comparable. 2021 data may be provisional.  
Data sometimes includes activity of foreign vehicles performed within the country, therefore EU aggregates might be affected by double-counting.  
CZ: 1990: 43.4

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.

NO: includes scheduled bus transport.

RO: includes interurban and international road transport, local public transport by buses and minibuses, and trolleybuses (since 2015). Data for 2019 for buses and minibuses and trolleybuses are provisional and don't include pensioners residents in Bucarest.

## 2.3.6

## Tram & metro

billion pkm									%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>		<b>63.8</b>	<b>67.8</b>	<b>73.2</b>	<b>80.8</b>	<b>79.9</b>	<b>51.6</b>	<b>55.5</b>	<b>7.6</b>
BE	0.7	0.8	0.9	0.9	1.1	1.2	0.9	0.9	0.0
BG	0.6	0.3	0.4	0.4	0.9	0.7	0.7	0.8	8.7
CZ		7.7	8.1	7.9	9.0	9.4	3.8	3.6	-3.7
DK	-	-	-	0.2	0.2	0.3	0.3	0.3	14.5
DE	15.1	14.4	14.6	15.5	16.3	16.7	11.7	11.2	-4.3
EE		0.1	0.1	0.1	0.1	0.1	0.1	0.1	12.8
IE	-	-	-	0.1	0.1	0.2	0.1	0.1	1.1
EL	0.8	0.7	1.2	1.5	1.7	1.7	1.1	1.1	3.4
ES	4.4	4.3	5.2	6.0	7.6	7.2	5.1	6.4	25.0
FR	6.8	6.2	7.7	9.4	9.8	10.2	5.5	7.3	33.2
HR		0.5	0.5	0.5	0.5	0.6	0.4	0.4	-6.4
IT	4.2	5.2	5.6	6.0	7.1	6.8	4.4	5.7	30.0
CY	-	-	-	-	-	-	-	-	-
LV	0.7	0.3	0.3	0.3	0.4	0.4	0.2	0.1	-71.0
LT	-	-	-	-	-	-	-	-	-
LU	-	-	-	-	-	-	0.0	0.0	7.6
HU		2.5	2.6	2.4	2.5	2.9	1.8	1.8	-4.2
MT	-	-	-	-	-	-	-	-	-
NL	1.3	1.4	0.7	0.7	0.9	0.9	0.5	0.6	20.7
AT	4.2	5.1	6.0	6.4	6.9	7.2	5.9	6.2	5.0
PL		5.0	4.7	4.4	4.3	4.2	2.6	2.9	10.1
PT	0.7	0.5	0.5	0.8	1.1	1.0	0.7	0.6	-2.4
RO		6.0	6.0	6.6	7.1	4.9	3.4	3.2	-6.8
SI	-	-	-	-	-	-	-	-	-
SK		0.4	0.4	0.4	0.3	0.3	0.2	0.1	-13.9
FI	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.5	-11.8
SE	2.0	1.9	2.0	2.0	2.3	2.5	1.7	1.6	-5.7
IS	-	-	-	-	-	-	-	-	-
NO	0.4	0.4	0.5	0.5	0.6	0.8	0.5	0.6	6.0
CH		1.5	1.4	0.8	1.0	1.2	0.8	0.8	3.0
BA							0.1	0.1	12.7
ME	-	-	-	-	-	-	-	-	-
MD	-	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-	-
AL	-	-	-	-	-	-	-	-	-
RS					0.4	0.4	0.6	0.6	16.2
TR									
UA					9.8	9.6	9.2	9.2	0.4
UK	6.5	6.8	8.3	8.7	10.2	13.3	3.2	7.9	145.8

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

Data for 2021 are mostly provisional.

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

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

RO: new methodology as of 2015.

## Railways

2.3.7

	billion pkm							% UNDER PSO (*) 2020	% CHANGE '20/'21
	1995	2000	2005	2010	2015	2020	2021		
<b>EU-27</b>	<b>312.7</b>	<b>338.6</b>	<b>339.8</b>	<b>381.1</b>	<b>381.1</b>	<b>227.2</b>	<b>265.2</b>	<b>66.3</b>	<b>16.7</b>
BE	6.8	7.7	8.5	9.9	9.9	7.4	7.0	88.5	-5.8
BG	4.7	3.5	2.4	1.5	1.5	1.1	1.2	99.6	7.6
CZ	8.0	7.3	6.7	8.1	8.1	6.6	6.8	91.6	1.9
DK	4.9	5.5	6.0	6.5	6.5	3.9	4.2	100.0	6.1
DE	71.0	75.4	76.8	91.7	91.7	57.8	57.5	59.9	-0.5
EE	0.4	0.3	0.2	0.3	0.3	0.3	0.3	100.0	10.3
IE	1.3	1.4	1.8	1.9	1.9	0.8	0.9	100.0	4.3
EL	1.6	1.9	1.9	1.3	1.3	0.6	0.7	94.1	2.0
ES	16.6	20.1	21.6	26.1	26.1	12.1	17.0	47.9	41.0
FR	46.8	74.9	82.3	94.7	94.7	59.4	79.5	32.1	34.0
HR	1.1	1.3	1.2	0.9	0.9	0.4	0.5	90.2	20.1
IT	46.7	49.6	50.1	52.2	52.2	22.3	27.7	54.6	24.4
CY	-	-	-	-	-	-	-	-	-
LV	1.4	0.7	0.9	0.6	0.6	0.4	0.4	100.0	-12.6
LT	1.1	0.6	0.3	0.3	0.3	0.2	0.3	87.2	21.1
LU	0.3	0.3	0.3	0.4	0.4	0.3	0.3	100.0	13.4
HU	8.4	9.7	9.9	7.6	7.6	4.9	5.4	99.3	12.0
MT	-	-	-	-	-	-	-	-	-
NL	16.4	14.7	15.2	17.5	17.5	9.2	10.9	100.0	18.4
AT	10.1	8.7	8.7	12.1	12.1	7.4	8.4	85.5	13.6
PL	26.6	24.1	18.2	17.4	17.4	12.5	15.8	90.8	26.9
PT	4.8	4.0	3.8	4.0	4.0	2.6	2.9	98.0	13.6
RO	18.9	11.6	8.0	5.1	5.1	3.7	4.3	100.0	14.8
SI	0.6	0.7	0.7	0.6	0.6	0.3	0.5	99.3	49.1
SK	4.2	2.9	2.2	3.4	3.4	2.1	2.0	5.7	-7.7
FI	3.2	3.4	3.5	4.1	4.1	2.8	2.9	40.4	2.9
SE	6.8	8.2	8.9	12.7	12.7	8.1	8.0	55.0	-1.3
IS	-	-	-	-	-	-	-	-	-
NO	2.4	2.6	2.7	3.6	3.6	1.8	1.8	99.9	-1.2
CH	11.7	12.6	16.1	20.2	20.2	13.3	14.2		7.3
BA				0.0	0.0	0.0	0.0		28.6
ME				0.1	0.1	0.0	0.0		32.5
MD		0.3	0.4	0.2	0.2	0.0	0.0		-20.2
MK	0.1	0.1	0.1	0.2	0.2	0.0	0.0		0.0
AL	0.2	0.1	0.1	0.0	0.0	0.0	0.0		0.0
RS	2.3	1.2	0.7	0.5	0.5	0.2	0.2		21.7
TR	5.8	5.8	5.0	4.8	4.8	6.1	8.5		40.2
UA		51.8	52.7	35.4	35.4	10.7	12.5		16.7
UK	30.3	38.4	44.6	66.6	66.6	24.5	30.8		25.7

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

FR: includes RER trains exploited by RATP and Tramline 4.

## 2.3.8

## Rail

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

billion pkm													
	BE	CZ	DE	ES	FR	IT	NL	PL	PT	SI	FI	SE	EU-27
1990	-	-	-	-	14.92	0.30	-	-	-	-	-	0.01	15.2
1995	-	-	8.70	1.29	21.43	1.10	-	-	-	-	-	0.42	32.9
2000	0.87	-	13.93	1.94	34.75	5.09	0.11	-	-	-	0.07	2.05	58.8
2005	0.98	0.01	20.85	2.32	43.13	8.55	0.69	-	0.49	-	0.31	2.33	79.7
2010	1.06	0.27	23.90	11.72	51.89	11.61	0.29	-	0.52	0.02	0.65	2.94	104.9
2011	0.91	0.29	23.31	11.23	51.37	12.28	0.31	-	0.47	0.01	0.71	2.83	103.7
2012	0.91	0.27	24.75	11.18	51.09	12.79	0.32	-	0.46	0.01	0.71	2.95	105.4
2013	0.91	0.25	25.18	12.74	50.79	12.79	0.36	-	0.47	0.01	0.76	3.06	107.3
2014	0.91	0.25	24.32	12.79	50.66	12.79	0.24	-	0.54	0.01	0.65	3.23	106.4
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	109.9
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	114.3
2017	1.56	0.77	28.50	15.54	58.28	12.79	0.41	1.44	0.65	0.00	0.68	3.60	124.2
2018	1.56	0.79	31.07	16.13	56.81	12.79	0.40	1.55	0.66	0.00	0.80	3.52	126.1
2019	1.56	0.88	33.20	16.07	59.95	12.79	0.45	1.68	0.70	0.00	0.81	3.90	132.0
2020	0.99	0.54	18.15	5.61	35.80	5.03	0.14	0.76	0.22	0.00	0.33	1.80	69.4
2021	0.93	0.55	19.57	6.37	47.70	6.26	0.14	1.12	0.27	0.03	0.34	1.94	85.2

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

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

														%
	BE	CZ	DE	ES	FR	IT	NL	PL	PT	SI	FI	SE	EU-27	
2000	11.2	-	18.5	9.6	46.4	10.3	0.8	-	-	-	2.1	24.8	17.4	
2005	11.5	0.1	27.2	10.7	52.4	17.1	4.5	-	12.9	-	8.9	26.2	23.4	
2010	10.0	4.1	28.5	52.2	56.2	24.6	1.7	-	12.6	2.1	16.4	26.3	29.3	
2011	8.5	4.3	27.3	49.3	53.7	26.2	1.7	-	11.0	1.9	18.3	24.8	28.5	
2012	8.3	3.8	27.9	49.7	53.3	27.4	1.8	-	12.1	1.8	17.5	25.0	28.7	
2013	8.3	3.3	28.1	53.6	53.4	26.3	1.9	-	12.7	1.6	18.7	25.8	28.9	
2014	8.3	3.2	26.7	51.0	53.7	25.6	1.2	-	14.0	1.2	16.8	26.6	28.3	
2015	12.1	7.0	27.6	54.0	52.8	24.5	5.7	2.7	14.4	0.9	13.9	26.4	28.8	
2016	15.2	8.0	28.9	56.5	53.8	24.5	2.0	7.5	14.4	0.6	15.8	27.2	29.6	
2017	15.4	8.2	29.8	56.5	58.1	24.0	2.2	7.1	14.5	0.3	15.9	27.0	31.0	
2018	14.9	7.8	31.6	56.7	58.4	23.0	2.1	7.4	14.5	0.3	17.5	26.0	31.0	
2019	14.4	8.1	33.1	55.7	58.8	22.6	2.3	7.6	13.8	0.3	16.5	26.7	31.4	
2018	13.4	8.1	31.4	46.5	60.3	22.6	1.5	6.1	8.7	0.3	11.5	22.1	30.5	
2019	13.4	8.1	34.0	37.5	60.0	22.6	1.3	7.1	9.3	0.5	11.7	24.2	32.1	



## United States

2.3.9

### PERFORMANCE BY MODE OF TRANSPORT: PASSENGERS

	billion pkm						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	TOTAL
1990	5 280.5	20.0	28.2	195.4	12.3	563.6	6 100.0
1995	5 702.0	17.3	25.9	219.0	14.7	647.6	6 626.5
2000	6 372.2	24.9	31.1	259.0	17.3	829.8	7 534.3
2005	6 952.4	28.2	31.9	238.2	18.0	921.9	8 190.5
2010	7 131.7	34.6	36.7	469.8	20.8	892.7	8 586.4
2015	7 495.0	36.6	40.1	553.7	23.2	1 017.4	9 166.0
2016	7 684.7	38.2	40.0	557.8	23.4	1 064.5	9 408.6
2017	7 751.0	37.6	38.9	587.8	24.2	1 103.2	9 542.6
2018	7 804.1	37.5	37.5	624.5	24.7	1 162.6	9 690.8
2019	7 876.7	36.8	38.3	613.4	24.8	1 214.2	9 804.2
2020	6 936.7	34.8	20.0	515.3	12.6	489.6	8 009.0
2021	7 485.5	38.3	16.5	572.9	7.6	278.1	8 398.9

### AVERAGE ANNUAL CHANGE

	% per year						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	TOTAL
2005	1.0	-8.0	-0.3	2.6	-1.1	4.6	1.4
2010	0.6	-11.1	0.5	-4.3	-2.8	2.6	0.5
2015	2.6	-1.8	-0.3	1.4	0.9	5.9	2.8
2016	2.5	4.3	-0.2	0.7	0.8	4.6	2.6
2017	0.9	-1.4	-2.9	5.4	3.5	3.6	1.4
2018	0.7	-0.4	-3.6	6.2	2.1	5.4	1.6
2019	0.9	-1.9	2.2	-1.8	0.4	4.4	1.2
2020	-11.9	-5.4	-47.9	-16.0	-49.0	-59.7	-18.3
2021	7.9	10.0	-17.2	11.2	-39.6	-43.2	4.9
'90/'95	1.5	-2.8	-1.7	2.3	3.5	2.8	1.7
'95/'00	2.2	7.5	3.7	3.4	3.4	5.1	2.6
'00/'10	1.1	3.3	1.7	6.1	1.9	0.7	1.3
'11/'21	0.5	1.0	-8.1	2.0	-10.0	-11.2	-0.3

### MODAL SPLIT

	%						
	PASSENGER CARS (*)	MOTOR- CYCLES	RAILWAY	BUS (**)	LIGHT AND COMMUTER RAIL	AIR	
1990	86.6	0.3	0.5	3.2	0.2	9.2	
1995	86.0	0.3	0.4	3.3	0.2	9.8	
2000	84.6	0.3	0.4	3.4	0.2	11.0	
2005	84.9	0.3	0.4	2.9	0.2	11.3	
2010	83.1	0.4	0.4	5.5	0.2	10.4	
2015	81.8	0.4	0.4	6.0	0.3	11.1	
2016	81.7	0.4	0.4	5.9	0.2	11.3	
2017	81.2	0.4	0.4	6.2	0.3	11.6	
2018	80.5	0.4	0.4	6.4	0.3	12.0	
2019	80.3	0.4	0.4	6.3	0.3	12.4	
2020	86.6	0.4	0.2	6.4	0.2	6.1	
2021	89.1	0.5	0.2	6.8	0.1	3.3	

NB: Revision of bus data.

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

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

## 2.4

### 2.4.1

## Air – PASSENGER TRAFFIC BETWEEN MEMBER STATES

REPORTER	TOTAL PASSENGERS CARRIED (*)													
	PARTNER													
	BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY	
BE	23.8	132.0	84.7	174.1	516.9	13.3	124.4	728.8	2 963.8	971.9	116.0	1 458.9	28.3	
BG	125.9	207.7	205.7	60.7	1 033.3	20.4	47.5	115.8	241.5	186.5	8.2	321.2	66.1	
CZ	84.4	206.2	9.4	76.9	255.4	0.4	41.6	512.0	457.2	279.3	52.7	388.7	19.5	
DK	173.9	59.0	76.9	1 093.0	743.5	20.9	79.0	619.3	1 495.5	567.9	102.5	517.9	67.3	
DE	511.2	1 025.5	252.9	786.0	4 767.0	184.1	486.8	5 878.1	12 349.3	2 317.4	1 026.0	4 582.7	257.7	
EE	13.0	20.7	0.4	20.5	185.6	38.7	10.4	37.5	38.0	32.1	0.1	84.8	21.2	
IE	124.0	48.6	41.6	78.9	486.2	10.5	37.7	128.0	1 341.2	516.1	57.1	437.4	12.9	
EL	872.8	122.3	515.3	619.6	6 029.4	38.3	129.9	5 803.2	402.2	2 131.2	16.3	1 863.7	933.1	
ES	3 018.6	241.4	459.2	1 496.8	12 514.9	39.0	1 341.6	387.2	25 974.2	7 268.8	120.4	5 966.5	4.2	
FR	938.9	170.0	269.4	531.6	2 329.2	32.2	497.5	1 920.6	6 585.3	18 978.7	382.6	4 206.8	50.2	
HR	115.5	7.9	51.6	102.6	1 033.3	0.1	57.2	14.2	119.8	441.1	239.1	147.4	2.3	
IT	1 454.8	316.7	382.2	502.1	4 430.2	84.9	436.1	1 767.9	5 936.4	4 432.7	147.7	21 057.9	60.7	
CY	28.3	63.8	19.8	67.4	260.9	21.2	13.0	875.4	3.7	52.7	2.6	60.9	0.0	
LV	37.9	11.3	27.7	68.7	282.7	104.9	67.3	79.3	116.8	67.5	20.8	136.3	28.2	
LT	33.4	20.3	0.1	139.1	226.0	10.9	112.9	133.5	101.9	59.3	3.6	135.1	28.0	
LU	0.7	15.2	0.0	13.2	140.5		17.8	98.5	397.4	191.6	6.4	175.7	0.0	
HU	130.0	29.1	36.6	100.6	515.6		93.6	281.2	361.7	277.1	7.8	420.8	91.1	
MT	83.6	26.9	15.2	32.3	309.4	2.6	33.3	52.2	124.2	240.2	2.2	490.8	6.0	
NL	138.9	241.4	269.5	637.4	1 360.2	40.7	446.5	1 473.2	4 607.2	1 532.7	432.6	2 098.8	59.2	
AT	192.2	227.8	35.9	143.1	1 742.8	26.2	49.6	968.9	1 006.3	427.8	154.8	731.6	163.3	
PL	207.9	378.5	83.3	263.1	1 371.1	59.7	491.3	1 492.3	1 307.7	626.3	222.2	1 222.8	242.8	
PT	808.2	12.5	76.4	169.6	2 054.2	1.0	440.2	30.8	1 904.5	3 788.4	14.9	917.2	0.2	
RO	298.6	18.2	26.4	123.0	1 183.2		171.3	424.0	1 009.7	589.7	10.3	1 707.1	103.0	
SI	35.5	0.0	0.2	0.1	77.1	0.1		45.0	5.4	35.4	2.4	0.4	0.1	
SK	16.7	25.8	25.2	4.8	0.4	0.1	33.6	96.2	33.8	0.4	5.6	46.1	26.3	
FI	54.1	3.3	29.6	162.3	530.5	105.5	27.8	110.9	371.0	167.5	14.3	101.7	8.1	
SE	149.3	3.8	59.4	419.0	955.8	81.7	49.7	399.2	1 316.7	424.0	123.1	178.8	69.2	

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

## Air – PASSENGER TRAFFIC BETWEEN MEMBER STATES

2.4.1

2021

### INCLUDING DOMESTIC FLIGHTS (1 000)

LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE
37.9	33.3	0.8	130.2	84.3	144.0	227.2	208.5	809.2	298.6	35.6	16.9	54.1	149.7
11.2	20.3	13.6	28.8	27.3	241.3	233.7	374.1	12.5	18.0	0.2	27.6	3.3	3.8
27.7	0.0	0.0	37.2	15.4	268.6	36.5	82.1	76.1	26.8	0.2	26.1	29.5	59.4
68.6	139.3	13.4	100.6	32.7	637.9	143.2	263.2	169.4	122.4	0.1	4.8	162.1	421.2
280.5	224.3	138.1	513.3	310.4	1 352.4	1 735.5	1 364.0	2 035.2	1 179.4	77.0	0.3	527.0	954.5
104.5	10.5			2.6	40.7	26.1	59.8	1.3	0.1	0.1	0.1	104.2	81.6
67.1	114.6	18.1	93.7	33.2	447.0	49.6	492.8	439.0	172.2		34.2	27.6	49.7
77.5	130.5	105.1	296.6	53.8	1 551.2	988.7	1 475.4	34.9	437.5	71.0	96.7	111.1	401.0
116.6	102.0	402.7	362.3	124.9	4 616.1	1 009.6	1 306.5	1 895.6	994.3	4.9	34.3	372.3	1 357.6
67.4	59.2	191.4	276.9	240.1	1 524.5	427.3	590.6	3 448.9	564.7	34.9	0.3	165.5	418.8
20.9	3.7	6.5	7.8	1.9	433.9	152.2	221.8	14.8	10.3	2.5	2.8	14.3	122.8
136.0	133.9	177.3	421.5	491.5	2 088.1	728.7	1 203.1	912.9	1 730.2	0.2	36.6	103.8	177.1
28.5	28.5	0.0	91.3	10.3	58.4	163.3	243.4	0.2	100.0	0.1	26.7	8.1	69.9
0.1	86.1		12.3	17.8	103.8	49.2	41.8	17.8		0.2	0.2	87.7	83.8
86.0	0.1		4.5	18.2	71.7	21.5	88.7	19.4	0.0	0.6	0.0	25.8	59.8
0.0		0.6	10.4	24.6	95.7	40.7	13.0	503.6	9.6	0.1	0.1	0.3	10.5
12.4	4.5	10.7	2.2	46.3	339.0	6.4	88.8	88.6	27.3	0.0	0.2	38.2	96.0
17.7	18.1	24.6	46.0		54.5	68.3	146.0	39.5	19.4	0.8	12.3	0.0	7.4
103.9	71.5	96.1	339.6	54.8	2.3	390.8	754.5	1 162.0	384.2	22.4	4.0	234.2	528.9
49.3	21.5	40.9	6.5	68.9	391.1	114.3	130.4	210.4	246.1	0.0	22.2	47.0	139.0
41.7	88.5	13.2	88.6	147.1	755.5	130.5	740.5	283.2	69.6	20.5	1.6	79.5	532.4
17.8	18.9	510.7	89.0	39.9	1 163.3	210.6	283.2	3 123.8	47.6	2.2	0.1	33.6	105.7
	0.0	9.1	27.0	19.8	385.0	246.7	70.5	46.8	678.3	0.0	0.2	19.2	96.3
0.1	0.4	0.0	0.1	0.5	22.6	0.1	20.7	1.8			0.4	1.2	
0.2	0.0	0.2	0.3	12.3	4.0	21.9	1.9	0.0	0.3	0.3	0.9	0.1	6.1
87.9	26.0	0.3	35.1	0.0	234.2	45.3	81.4	33.7	19.0	1.2	0.2	868.3	331.1
83.9	60.2	10.5	96.1	7.6	529.7	138.7	532.4	105.6	96.0	0.2	6.1	330.4	2 212.3

## 2.4.2

## Air

### MAJOR EUROPEAN AIRLINES

#### DOMESTIC + INTERNATIONAL

RANKING	BILLION REVENUE PASSENGER-KILOMETRES								%
	AIRLINE		2000	2005	2010	2015	2020	2021	CHANGE '20/'21
1	Ryanair <sup>(1)</sup>	IE	4.772	31.205	72.149	130.564	34.982	120.563	244.6
2	Turkish Airlines	TR	17.396	21.318	47.950	119.372	53.252	86.708	62.8
3	Air France	FR	91.848	115.163	125.165	142.487	47.339	60.180	27.1
4	Lufthansa	DE	92.160	108.185	129.668	146.317	40.064	50.067	25.0
5	Wizz Air	HU			12.278	30.786	16.692	43.679	161.7
6	KLM Royal Dutch Airlines	NL	60.336	68.322	76.065	93.228	33.873	40.912	20.8
7	British Airways	UK	119.385	107.892	106.082	142.016	39.117	30.698	-21.5
8	Iberia	ES	40.049	49.060	51.242	48.569	17.757	27.976	57.5
9	EasyJet <sup>(2)</sup>	UK	3.926	27.448	56.128	77.619	58.914	23.594	-60.0
10	Pegasus	TR			10.662	21.223	15.304	22.624	47.8
11	Vueling Airlines	ES		1.661	9.932	24.775	9.179	15.554	69.5
12	SWISS	CH	3.481	21.164	29.522	40.047	13.069	15.007	14.8
13	TAP Air Portugal	PT	10.414	14.536	23.651	29.552	11.876	14.917	25.6
14	Anadolu Jet	TR			3.664	7.196	5.703	12.401	117.4
15	Air Europa	ES	8.831	13.442	17.180	22.502	9.074	11.927	31.4
16	SunExpress	TR	1.969	3.938	10.840	12.210	6.246	11.894	90.4
17	Eurowings <sup>(3)</sup>	DE		4.519	6.966	15.870	7.501	10.240	36.5
18	Condor	DE		22.245	19.888	27.903	7.642	9.745	27.5
19	LOT Polish Airlines	PL		6.284	7.554	7.232	5.577	8.360	49.9
20	SAS	SE	22.922	27.724	23.497	33.780	14.127	8.256	-41.6
21	Jet2.com	UK		3.105	6.219	12.222	7.060	7.686	8.9
22	Transavia Airlines	NL	7.921	8.726	10.644	12.593	5.338	7.460	39.7
23	Brussels Airlines	BE	3.418	4.559	7.313	11.833	4.428	7.073	59.7
24	Austrian	AT	17.967	22.894	17.494	18.190	4.412	7.011	58.9
25	Transavia France	FR			2.764	6.058	4.068	6.995	72.0
26	Virgin Atlantic Airways	UK	31.315	32.118	38.158	37.157	7.793	6.934	-11.0
27	Norwegian	NO		2.703	13.774	42.284	13.680	6.869	-49.8
28	Aegean Airlines	GR	0.487	2.639	5.741	11.130	3.518	6.422	82.5
29	TUI UK <sup>(4)</sup>	UK				33.395	7.378	6.262	-15.1
30	TUIfly <sup>(4)</sup>	DE		18.626	10.708	11.210	4.203	5.864	39.5

**NB:** Scheduled and non-scheduled flights.

<sup>(1)</sup> Figures refer to the **Ryanair Group** (Ryanair, Ryanair UK, Malta Air, Buzz); Year up to 30 March of the following year.

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

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

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

<sup>(4)</sup> Part of **TUI Group** (TUI UK, TUIfly, TUI Airlines Netherlands, TUIfly Belgium and TUIfly Nordic).

## Air – PASSENGER TRAFFIC AT MAJOR EU AIRPORTS

2.4.3

### PASSENGERS CARRIED (\*)

RANKING	(arriving + departing + in transit)		MILLION PASSENGERS						%
	AIRPORT		2000	2005	2010	2015	2020	2021	CHANGE '20/'21
1	Paris / Charles de Gaulles	FR	64.29	53.38	57.93	65.67	22.24	26.19	17.7
2	Amsterdam / Schiphol	NL	39.27	44.08	45.15	58.17	20.88	25.49	22.1
3	Frankfurt (Main)	DE	48.96	51.79	52.65	60.89	18.74	24.77	32.2
4	Madrid / Barajas	ES	24.38	41.72	49.80	46.30	16.49	23.19	40.6
5	Barcelona / El Prat	ES	14.39	27.02	29.18	39.42	12.44	18.48	48.5
6	Paris / Orly	FR	23.83	24.85	25.16	29.66	10.78	15.72	45.8
7	Palma De Mallorca	ES	16.87	21.22	21.08	23.72	6.10	14.47	137.4
8	Athina / Eleftherios Venizelos	EL	13.35	14.34	15.39	18.09	8.77	13.36	52.3
9	München	DE	22.87	28.45	34.52	40.86	11.09	12.47	12.4
10	Lisboa	PT	9.21	11.24	14.05	20.11	9.27	12.15	31.2
11	Roma / Fiumicino	IT		27.78	35.95	40.23	9.77	11.59	18.6
12	Wien / Schwechat	AT	11.92	15.80	19.62	22.74	7.85	10.47	33.4
13	Berlin / Brandenburg	DE	2.09	5.00	7.25	8.51	3.22	9.93	208.5
14	Milano / Malpensa	IT	20.55	19.49	18.71	18.44	7.21	9.58	32.9
15	Brussel-Bruxelles	BE	21.60	15.95	16.98	23.27	6.71	9.33	39.0
16	København / Kastrup	DK	18.11	19.82	21.39	26.51	7.49	9.15	22.1
17	Malaga / Costa del Sol	ES	8.26	12.61	12.02	14.36	5.07	8.75	72.4
18	Dublin	IE	13.66	18.33	18.41	24.92	7.26	8.26	13.8
19	Düsseldorf	DE	15.91	15.39	18.91	22.45	6.56	7.94	21.0
20	Stockholm / Arlanda	SE	18.61	17.16	16.96	23.15	6.53	7.49	14.7
21	Warszawa / Chopina	PL	4.33	7.08	8.73	11.21	5.47	7.44	36.0
22	Bucuresti / Henri Coanda	RO		2.98	4.92	9.27	4.45	6.89	54.8
23	Las Palmas / Gran Canaria	ES	7.66	9.69	9.28	10.44	5.08	6.79	33.8
24	Nice / Côte d'Azur	FR	9.33	9.74	9.59	12.01	4.57	6.53	42.7
25	Bergamo / Orio Al Serio	IT	1.24	4.29	7.66	10.40	3.83	6.47	68.7
26	Catania / Fontanarossa	IT	3.97	5.17	6.30	7.09	3.65	6.11	67.6
27	Alicante	ES	5.29	8.93	9.37	10.56	3.72	5.81	56.1
28	Porto	PT	2.73	3.11	5.28	8.09	4.45	5.79	30.1
29	Hamburg	DE	9.82	10.57	12.88	15.58	4.56	5.31	16.6
30	Iraklion / Nikos Kazantzakis	EL	5.15	4.97	4.95	6.10	2.37	4.98	110.1

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

## 2.4.4a Air – MAIN INTRA-EU AIRPORT PAIRS IN PASSENGER TRANSPORT

### PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport) 1 000						CHANGE '20/'21
	AIRPORT PAIRS	2005	2010	2015	2020	2021	
1	Paris / Orly - Nice / Côte d'Azur	2 262.9	2 104.6	2 113.3	818.6	1 393.0	70.2
2	Palma De Mallorca - Barcelona	1 689.3	1 532.5	1 576.1	820.7	1 220.5	48.7
3	Palma de Mallorca - Madrid / Barajas	1 641.5	1 698.9	1 411.2	793.8	1 140.8	43.7
4	Catania / Fontanarossa - Roma / Fiumicino	1 368.7	1 717.8	1 987.7	649.4	1 059.8	63.2
5	Toulouse / Blagnac - Paris / Orly	2 327.1	2 193.7	2 318.1	736.9	1 048.0	42.2
6	Madrid / Barajas - Barcelona	4 358.3	3 083.8	2 251.7	754.1	1 013.0	34.3
7	Las Palmas / Gran Canaria - Madrid / Barajas	1 388.1	1 553.7	1 305.7	638.1	937.1	46.9
8	Milano / Malpensa - Catania / Fontanarossa	308.4	543.5	380.2	509.1	877.0	72.2
9	Tenerife Norte - Madrid / Barajas	1 359.4	1 319.7	1 149.5	617.7	875.4	41.7
10	Athinai / Eleftherios Venizelos - Thessaloniki	1 054.3	1 176.3	1 639.5	551.9	826.6	49.8
11	Ibiza - Barcelona	843.0	737.1	938.8	473.5	762.4	61.0
12	Palermo / Punta Raisi - Roma / Fiumicino	1 106.7	1 406.8	1 476.9	551.4	742.9	34.7
13	Ponte-à-Pitre (Guadeloupe) - Paris / Orly	987.6	1 033.8	1 159.6	723.7	734.7	1.5
14	Madrid / Barajas - Paris / Orly	964.3	1 105.9	1 169.1	460.8	707.7	53.6
15	Paris / Charles de Gaulle - Nice / Côte d'Azur	909.2	789.0	806.1	744.2	698.2	-6.2
16	Palma de Mallorca - Düsseldorf	980.5	911.9	1 214.0	283.5	697.0	145.8
17	Palermo / Punta Raisi - Milano / Malpensa	257.5	464.4	304.6	356.1	686.5	92.8
18	Athinai / Eleftherios Venizelos - Iraklion	778.6	798.6	734.5	504.1	650.4	29.0
19	Menorca - Barcelona	719.8	679.7	619.4	356.8	648.3	81.7
20	Palma de Mallorca - Frankfurt (Main)	784.5	652.8	778.3	208.9	644.9	208.7
21	Lisboa - Madeira		865.9	822.1	384.1	630.3	64.1
22	Athinai / Eleftherios Venizelos - Larnaka	801.8	831.0	673.9	427.3	622.1	45.6
23	Barcelona - Paris / Orly	528.0	743.2	960.2	322.7	610.6	89.2
24	Barcelona - Amsterdam / Schiphol	1 108.0	1 066.1	1 204.8	379.4	610.4	60.9
25	Ibiza - Madrid / Barajas	526.2	612.6	667.1	368.2	610.2	65.7
26	Roland Garros (La Réunion) - Paris / Orly	595.8	532.5	693.2	482.8	599.2	24.1
27	Tenerife Norte - Las Palmas / Gran Canaria	655.3	646.1	604.6	473.3	594.3	25.6
28	Aime Cesaire (Martinique) - Paris / Orly	934.5	954.4	1 001.0	626.0	583.4	-6.8
29	Lanzarote - Las Palmas / Gran Canaria	551.8	534.8	525.6	461.9	580.8	25.8
30	Sevilla - Barcelona	1 164.8	864.0	827.7	337.9	579.5	71.5

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

### TOTAL PASSENGERS CARRIED

RANKING	(arriving + departing from first named airport) 1 000						%
	AIRPORT PAIRS	2005	2010	2015	2020	2021	CHANGE '20 / '21
1	Paris / Charles de Gaulle - Dubai Intl, United Arab Emirates	439	716	1 077	417	568	36.1
2	Düsseldorf - Antalya, Türkiye	802	684	1 013	187	510	173.3
3	Madrid / Barajas - Mexico, Mexico	454	520	599	268	509	89.5
4	Paris / Charles de Gaulle - Montreal / Pierre Elliot Trudeau Intl, Canada	929	1 148	1 147	364	498	36.7
5	Köln - Antalya, Türkiye	266	376	607	109	484	345.8
6	Paris / Charles de Gaulle - New York / J.F. Kennedy Intl, NY, USA	1 730	1 190	1 503	352	484	37.7
7	Amsterdam / Schiphol - Istanbul / Havalimani, Türkiye (¹)				322	474	47.5
8	Amsterdam / Schiphol - Hato, Curaçao	271	392	459	289	458	58.7
9	Amsterdam / Schiphol - Atlanta / Hartfield Jackson Intl, GA, USA	253	345	777	307	432	40.7
10	Madrid / Barajas - London / Heathrow, United Kingdom	1 073	1 089	1 321	454	426	-6.3
11	Madrid / Barajas - Santo Domingo / Las Américas Intl, Dominican Republic	302	330	354	188	425	125.6
12	Paris / Charles de Gaulle - Atlanta / Hartfield Jackson Intl, GA, USA	620	532	769	222	420	89.2
13	Madrid / Barajas - Bogota / Cundinamarca, Colombia		578	535	246	413	67.7
14	Frankfurt (Main) - Dubai Intl, United Arab Emirates	491	679	903	325	413	27.2
15	København / Kastrup - Oslo / Gardermoen, Norway	1 247	1 132	1 423	410	411	0.3
16	Paris / Charles de Gaulle - Istanbul / Havalimani, Türkiye (¹)				318	411	29.2
17	Dublin - London / Heathrow, United Kingdom	2 086	1 491	1 683	445	404	-9.3
18	Athinai / Eleftherios Venizelos - London / Heathrow, United Kingdom		777	694	306	389	26.9
19	Frankfurt (Main) - Istanbul / Havalimani, Türkiye (¹)				282	429	52.0
20	Porto - Geneva, Switzerland	76	324	545	294	382	29.9
21	Düsseldorf - Istanbul / Sabiha Gökçen, Türkiye	0	191	328	214	377	75.8
22	Amsterdam / Schiphol - Istanbul / Sabiha Gökçen, Türkiye	13	225	354	211	376	78.1
23	Amsterdam / Schiphol - Dubai Intl, United Arab Emirates	231	434	775	326	369	13.2
24	Palma De Mallorca - Zurich, Switzerland	257	333	465	91	361	297.1
25	Amsterdam / Schiphol - London / Heathrow, United Kingdom	1 894	1 333	1 549	525	350	-33.4
26	Köln - Istanbul / Sabiha Gökçen, Türkiye	52	228	335	193	348	79.8
27	Paris / Charles de Gaulle - Dakar / Blaise-Diagne Intl, Senegal				226	346	52.8
28	Paris / Charles de Gaulle - London / Heathrow, United Kingdom		1 313	1 282	373	339	-9.1
29	Lisboa - Geneva, Switzerland	188	377	531	262	336	28.2
30	Madrid / Barajas - Zurich, Switzerland	355	488	490	186	330	77.4

NB: (¹) Istanbul / Ataturk airport was closed in course of 2019 and has been replaced by Istanbul / Havalimani airport.

## 2.4.5

# Air – FREIGHT TRAFFIC AT MAJOR EU AIRPORTS

## CARGO AND MAIL LOADED AND UNLOADED

RANKING	1 000 TONNES								%
	AIRPORT		2000	2005	2010	2015	2020	2021	CHANGE '20/'21
1	Frankfurt / Main	DE	1 703.4	1 950.6	2 270.2	2 075.7	1 911.3	2 270.8	18.8
2	Paris / Charles de Gaulle	FR	1 067.0	1 217.8	1 290.9	2 090.6	1 740.0	2 055.3	18.1
3	Amsterdam / Schiphol	NL	1 222.5	1 495.6	1 538.0	1 655.3	1 455.4	1 679.9	15.4
4	Leipzig / Halle	DE	13.7	12.3	637.8	982.5	1 377.4	1 587.3	15.2
5	Liège	BE	270.3	325.7	508.5	625.3	1 026.4	1 324.9	29.1
6	Luxembourg	LU	499.9	624.8	705.8	736.9	905.3	1 088.0	20.2
7	Köln / Bonn	DE	438.3	646.8	638.2	739.5	841.7	967.0	14.9
8	Milano / Malpensa	IT	295.7	383.8	432.7	511.2	516.5	747.0	44.6
9	Brussel-Bruxelles / Brussels	BE	687.4	694.5	385.0	483.1	511.9	693.1	35.4
10	Madrid / Barajas	ES	280.4	360.3	400.5	382.6	371.1	483.3	30.2
11	Frankfurt / Hahn	DE	75.0	100.9	164.5	73.2	203.4	233.7	14.9
12	København / Kastrup	DK	419.4	355.1	138.1	196.6	159.9	222.9	39.4
13	Helsinki / Vantaa	FI	96.1	114.8	157.5	177.4	142.7	176.4	23.7
14	Wien / Schwechat	AT	65.9	180.0	231.8	209.1	154.7	176.2	13.9
15	München	DE	148.4	218.2	291.1	336.0	150.3	173.2	15.2
16	Dublin	IE	35.5	64.1	105.3	137.3	123.2	144.3	17.1
17	Zaragoza	ES	3.2	3.8	42.1	65.1	90.1	136.9	51.9
18	Lisboa	PT	114.6	100.0	105.2	100.8	96.0	133.4	39.0
19	Maastricht / Aachen	NL	44.3	54.6	62.0	56.6	136.0	128.0	-5.9
20	Budapest / Liszt	HU	43.5	55.5	65.3	65.8	88.9	125.8	41.6
21	Barcelona / El Prat	ES	75.5	94.5	105.9	102.2	94.0	109.3	16.3
22	Athinai / Eleftherios Venizelos	EL	123.4	101.4	84.0	58.1	71.1	106.9	50.5
23	Warszawa / Chopina	PL	44.6	31.1	57.1	72.3	82.1	105.1	28.0
24	Stockholm	SE	154.0	158.0	99.4	90.7	86.7	101.2	16.8
25	Roma / Fiumicino	IT	153.3	131.9	164.4	145.0	76.0	101.0	32.8
26	Paris / Orly	FR	107.3	80.0	53.8	126.3	62.2	81.1	30.3
27	Oostende / Brugge	BE			60.0	16.6	45.5	63.5	39.5
28	Praha / Ruzyně	CZ		51.6	58.2	50.5	52.6	62.4	18.6
29	Stuttgart	DE	34.7	26.0	29.5	29.3	26.7	48.6	82.2
30	Marseille / Provence	FR	36.0	51.0	58.6	55.2	52.3	48.2	-7.9

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



## Air – AIRCRAFT TRAFFIC AT MAJOR EU AIRPORTS

2.4.6

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

RANKING	(not including general aviation)		1 000					%
	AIRPORT		2005	2010	2015	2020	2021	CHANGE '20/'21
1	Amsterdam / Schiphol	NL	408.2	390.4	455.2	222.8	262.2	17.7
2	Frankfurt / Main	DE	475.6	456.0	460.5	206.2	255.4	23.9
3	Paris / Charles de Gaulle	FR	543.8	477.9	468.5	205.9	240.9	17.0
4	Madrid / Barajas	ES	406.3	426.9	357.7	154.0	202.9	31.8
5	Athinai / Eleftherios Venizelos	EL	170.4	181.6	167.9	110.0	153.9	39.9
6	Barcelona / El Prat	ES	294.3	268.5	279.0	114.1	152.6	33.7
8	München	DE	382.3	368.2	365.7	135.7	140.7	3.7
7	Palma De Mallorca	ES	170.5	165.2	170.0	69.5	130.8	88.3
9	Paris / Orly	FR	231.0	215.5	231.3	82.9	118.6	43.1
10	Milano / Malpensa	IT	222.2	187.8	154.6	90.6	115.7	27.7
11	Roma / Fiumicino	IT	299.6	327.3	311.8	102.5	113.8	11.1
12	Lisboa	PT	125.9	136.9	162.8	87.3	112.5	28.8
13	Wien / Schwechat	AT	227.5	243.0	224.8	94.1	110.3	17.2
14	Brussel-Bruxelles / Brussels	BE	228.7	205.2	221.1	85.7	107.4	25.2
15	Kopenhagen / Kastrup	DK	262.1	240.6	250.2	95.1	106.6	12.1
16	Berlin / Brandenburg	DE	46.5	65.5	67.5	36.6	95.0	159.6
17	Stockholm / Arlanda	SE	222.2	185.4	216.9	80.7	85.6	6.1
18	Warszawa / Chopina	PL	131.1	133.0	136.4	71.5	84.5	18.2
19	Nice / Côte d'Azur	FR	158.1	132.1	139.8	58.7	82.8	41.1
20	Dublin	IE	169.6	156.4	188.8	80.5	82.5	2.5
21	Malaga / Costa Del Sol	ES	111.1	97.3	101.0	51.1	79.4	55.4
22	Köln / Bonn	DE	139.9	120.6	114.8	69.0	79.1	14.7
23	Gran Canaria	ES	98.4	93.2	89.9	59.5	76.5	28.6
24	Düsseldorf	DE	189.0	211.4	202.8	71.8	74.8	4.2
25	Leipzig / Halle	DE	30.2	57.2	58.5	56.4	67.9	20.3
26	Bucuresti / Henri Coanda	RO	90.2	128.1	90.8	46.2	65.0	40.7
27	Helsinki / Vantaa	FI	163.1	169.9	165.3	67.0	64.9	-3.0
28	Milano / Linate	IT	93.1	91.5	95.9	33.9	55.5	63.5
29	Hamburg	DE	134.2	138.4	142.1	51.5	53.0	2.8
30	Marseille / Provence	FR	90.3	95.9	89.8	42.0	52.4	24.9
31	Porto	PT	45.3	54.6	68.6	42.3	52.1	23.2
32	Ibiza	ES	39.8	49.1	55.9	27.3	51.6	89.3
33	Lyon / Saint-Exupéry	FR	130.1	115.4	105.0	42.5	51.6	21.2
34	Tenerife Norte	ES	53.2	56.1	46.2	42.5	51.1	20.3
35	Bergamo / Orio Al Serio	IT	47.8	65.3	74.3	36.1	49.3	36.4
36	Alicante	ES	70.2	72.0	72.2	35.2	49.2	39.7
37	Catania / Fontanarossa	IT	51.4	55.6	52.6	32.4	47.8	47.4
38	Praha / Ruzyně	CZ	150.2	147.9	120.1	41.9	46.0	9.9
39	Budapest / Liszt Ferenc	HU	116.7	99.6	86.0	41.2	43.7	6.0
40	Toulouse / Blagnac	FR	80.2	80.4	81.1	35.3	41.4	17.3

## 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		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
<b>EU-27</b>	<b>201545</b>	<b>114466</b>	<b>132411</b>	<b>7194</b>					
BE	155	19	2	397	15	42			
BG	1	1	1				1		0
CZ	-	-	-	-	-	-	-	-	-
DK	21924	15470	16801	209		1	672	0	39
DE	14138	8106	9477	1318	56	284			
EE	7498	4310	4144	13		0	676	1	63
IE	1328	404	493	22			388	2	
EL	36715	20452	26004	265	8	132			
ES	15406	6945	9143	1788	253	272	9428	894	1658
FR	12029	5160	5427	421	111	147	3981	420	363
HR	17063	9388	13541	40	1	2	1434	7	244
IT	40761	27457	28452	2403	182	487	3838	229	595
CY	15		4	13	3	11			
LV	522	224	118				70		2
LT	165	143	145				68		1
LU	-	-	-	-	-	-	-	-	-
HU	-	-	-	-	-	-	-	-	-
MT	5918	3774	4452	136	0	10			
NL	998	533	465						
AT	-	-		-	-	-	-	-	-
PL	1409	956	1158	0	0	0			
PT	370	417	524	41	6	6	712	149	140
RO									
SI	13	0	1				118		5
SK	-	-		-	-	-	-	-	-
FI	9642	3696	3543	16	13	15	626	13	27
SE	15476	7010	8514	112	0	12	699	36	181
IS	414	255	350	0			369	76	231
NO	3012	927	844	32	3	1	563	2	27
ME	43	0	2					3	9
TR	751	160	142		0	2			
UK	11553			1090					

## 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		
	2019	2020	2021	2019	2020	2021
<b>EU-27</b>	<b>200 872</b>	<b>114 070</b>	<b>132 132</b>			
BE	156	21	2	384	15	42
BG	4	2	3	0		
CZ	-	-		-	-	-
DK	21 880	15 389	16 711	213		1
DE	14 627	8 157	9 439	1 329	54	297
EE	7 535	4 313	4 070	13		0
IE	1 316	410	526	22		
EL	36 685	20 427	25 987	266	8	138
ES	15 334	6 862	9 180	1 796	222	286
FR	11 798	5 076	5 336	418	98	94
HR	17 000	9 390	13 533	39	1	3
IT	40 751	27 383	28 495	2 615	125	482
CY	15		4	11	2	11
LV	550	242	131			
LT	178	166	167			
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT	5 918	3 774	4 452	135	0	8
NL	1 011	435	420			
AT	-	-	-	-	-	
PL	1 378	948	1 158	0	0	0
PT	371	418	527	41	5	2
RO						
SI	13	0	1			
SK	-	-	-	-	-	-
FI	9 530	3 647	3 531			
SE	14 823	7 010	8 459	112	0	2
IS	414	255	350			
NO	3 354	967	879	6	1	0
ME	46	0	3			
TR	861	146	144			1
UK	11 779			1 082		

## 2.4.8

# Sea – PASSENGER TRAFFIC AT MAJOR EU SEAPORTS

## PASSENGERS EMBARKED AND DISEMBARKED

RANKING	1 000							%
	PORT	2000	2005	2010	2015	2020	2021	
1	Messina IT	11 898	9 802	10 765	7 021	7 737	8 251	6.6
2	Reggio di Calabria IT	11 839	9 645	9 891	6 053	7 528	8 109	7.7
3	Peiraias EL	7 289	11 076	10 944	8 169	4 370	5 972	36.7
4	Paloukia Salaminas EL		11 663	12 705	7 050	5 730	5 964	4.1
5	Perama EL		11 663	12 705	7 050	5 730	5 964	4.1
6	Palma Mallorca ES	1 864	4 817	4 496	5 496	3 726	5 816	56.1
7	Napoli IT	6 748	6 084	8 356	6 484	5 318	4 628	-13.0
8	Mgarr, Gozo MT		3 463	4 031	4 740	3 774	4 452	18.0
9	Stockholm SE	7 746	8 211	9 147	9 887	1 906	4 433	132.6
10	Santa Cruz de Tenerife ES	4 927	4 249	4 110	4 320	2 964	4 281	44.4
11	Cirkewwa MT		3 463	4 031	4 740	3 774	4 087	8.3
12	Helsingborg SE	13 525	11 102	8 540	7 670	3 562	4 009	12.5
13	Helsingør (Elsinore) DK	13 322	11 023	8 534	7 644	3 548	3 985	12.3
14	Split HR	1 952	3 267	3 523	3 992	2 523	3 745	48.4
15	Helsinki FI	9 251	8 854	9 849	11 214	4 754	3 737	-21.4
16	Tallinn EE		6 701	7 523	9 299	4 331	3 475	-19.8
17	Sjællands Odde DK	2 283	2 310	1 777	2 690	2 506	3 081	22.9
18	Århus DK	1 143	1 710	1 284	2 532	2 436	3 007	23.4
19	Piombino IT	3 161	3 277	3 477	3 517	2 594	2 870	10.6
20	Isola d' Elba <sup>(1)</sup> IT	2 641	2 829	2 769	2 945	2 384	2 712	13.8
21	Olbia IT	2 359	3 253	3 863	2 598	2 087	2 697	29.2
22	Puttgarden DE	5 430	6 760	6 261	6 141	2 329	2 696	15.8
23	Rødby (Færgenhavn) DK	5 430	6 761	6 261	6 139	2 331	2 686	15.2
24	Livorno IT	1 886	2 103	2 782	2 001	1 743	2 426	39.2
25	Calais FR	15 066	11 695	10 237	9 757	3 269	2 388	-27.0
26	Ystad SE	1 136	1 815	1 770	1 983	2 018	2 373	17.6
27	Capri IT	5 404	3 860	6 517	4 355	2 714	2 089	-23.0
28	Zadar HR	1 376	1 924	2 145	1 873	1 609	2 081	29.3
29	Ischia <sup>(2)</sup> IT	3 686	3 169	2 589	2 769	2 645	2 048	-22.6
30	Esbjerg DK	1 896	1 796	1 790	1 631	1 810	1 921	6.1
31	Nordby Havn, Fanø DK	1 734	1 709	1 667	1 631	1 810	1 921	6.1
32	Igoumenitsa EL	933	2 338	2 726	2 532	1 235	1 874	51.7
33	Norddeich DE	2 253	2 257	2 287	2 497	1 688	1 828	8.3
34	Rostock DE	1 767	2 417	2 195	2 863	1 364	1 821	33.5
35	Preko HR	939	1 266	1 495	1 617	1 418	1 782	25.7
36	Rønne DK	1 304	1 464	1 385	1 490	1 616	1 756	8.7
37	Genova IT	2 444	2 406	2 991	2 344	1 410	1 746	23.8
38	Gotland - Ports <sup>(3)</sup> SE	1 291	1 460	1 653	1 653	1 235	1 727	39.8
39	Korcula HR	453	1 133	1 474	1 672	1 122	1 679	49.6
40	Norderney DE	2 015	1 990	2 093	2 162	1 460	1 613	10.5

**NB:** The three Italian ports Ischia (containing Casamicciola, Forio and Porto D'Ischia), Isola d'Alba (containing Cavo, Porto Azzuro, Portoferraio and Rio Marina) and Egadi (containing Favignana, Levanzo and Marettimo) started reporting data as statistical ports in 2019.

<sup>(1)</sup> Data up to 2018 for Portoferraio.

<sup>(2)</sup> Data up to 2018 for Porto D'Ischia.

<sup>(3)</sup> As of 2021, Gotland Ports include ports of Klintehamn, Slite and Visby. Values up to 2020 refer to Visby only.

## Sea – FREIGHT TRAFFIC AT MAJOR EU SEAPORTS

2.4.9

### TONNES LOADED AND UNLOADED

RANKING	MILLION								%
	PORT		2000	2005	2010	2015	2020	2021	CHANGE '20/'21
1	Rotterdam	NL	302.5	345.8	395.8	436.9	409.2	434.8	6.3
2	Antwerpen	BE	116.0	145.8	160.0	190.1	206.3	215.9	4.6
3	Hamburg	DE	77.0	108.3	104.5	120.2	109.2	111.2	1.8
4	Amsterdam	NL	61.3	69.3	89.9	98.8	89.5	88.0	-1.7
5	Algeciras	ES	38.3	55.2	58.6	79.4	88.5	83.1	-6.2
6	Marseille	FR	91.3	93.3	82.4	77.5	71.6	70.1	-2.1
7	Valencia	ES	22.0	35.0	53.1	57.6	65.6	69.1	5.3
8	Trieste	IT	44.0	43.4	40.6	49.1	57.8	60.7	4.9
9	Le Havre	FR	63.9	70.8	65.8	62.9	49.0	57.1	16.5
10	Barcelona	ES	25.8	37.1	35.3	38.0	48.8	53.6	10.0
11	Constanta	RO		44.4	30.4	36.3	39.4	49.9	26.4
12	Genova	IT	43.8	42.6	41.4	43.4	44.2	48.2	9.2
13	Peiraias	EL	16.5	18.7	13.1	38.3	52.4	47.0	-10.4
14	Bremerhaven	DE	24.8	33.7	45.9	49.8	46.6	46.8	0.5
15	Gdansk	PL		22.5	26.4	31.7	40.6	45.0	11.0
16	Sines	PT	20.0	24.9	24.7	41.2	38.9	42.9	10.3
17	Klaipeda	LT		20.0	28.9	34.4	43.7	41.4	-5.2
18	Zeebrugge	BE	32.7	28.4	33.9	23.8	31.7	40.1	26.5
19	Dunkerque	FR	44.3	48.5	36.3	36.9	35.1	38.8	10.7
20	Zeeland Seaports	NL				33.6	34.3	38.0	10.8
21	Göteborg	SE	33.3	36.5	42.9	37.8	38.5	36.8	-4.2
22	Livorno	IT	19.8	24.0	22.7	29.3	30.8	34.3	11.4
23	Gent (Ghent)	BE	24.7	22.1	27.6	26.1	29.4	31.7	7.7
24	Ravenna	IT	22.5	24.3	22.2	25.3	27.1	31.1	14.8
25	Cartagena	ES	17.2	26.7	19.0	32.4	32.6	30.9	-5.1
26	Tarragona	ES	27.2	30.7	32.1	32.8	26.2	30.9	17.9
27	Wilhelmshaven	DE	43.4	46.0	24.7	27.4	27.8	30.4	9.5
28	Huelva	ES	17.2	20.9	22.1	27.2	29.3	30.1	2.6
29	Bilbao	ES	26.6	32.2	32.4	31.0	28.3	29.8	5.1
30	Venezia	IT	26.3	30.5	26.2	25.1	24.3	26.3	8.5
31	Agioi Theodoroi	EL	11.2	13.0	17.4	23.4	23.1	26.1	13.3
32	Gioia Tauro	IT	21.6	29.6	35.4	26.1	24.2	25.7	6.4
33	Dublin	IE	15.9	19.2	19.5	22.2	25.2	24.5	-2.9
34	Porto Foxi	IT	23.8	22.8	23.9	24.6	21.7	23.6	8.8
35	Augusta	IT	29.9	33.0	25.8	19.9	22.3	23.1	3.4
36	Gdynia	PL		11.0	12.3	15.4	21.2	22.7	7.2
37	Rostock	DE	18.6	17.1	19.5	20.3	20.1	22.3	11.3
38	Tallinn	EE		38.8	36.3	22.3	21.2	22.3	5.2
39	Rouen	FR	22.6	21.6	26.5	22.3	23.4	21.1	-9.6
40	Las Palmas	ES	12.4	19.1	17.2	17.8	19.0	20.9	9.9

2.4.10a

Sea – INTRA-EU

MARITIME TRANSPORT – BY COUNTRY

(1) RELEVANCE OF INTRA-EU TRANSPORT  
IN TOTAL MARITIME TRANSPORT BY EU COUNTRY 2021

	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	152.5	39.1	25.6%	136.3	33.0	24.2%
BG	12.1	1.8	14.9%	13.5	3.9	28.9%
DK	49.4	30.8	62.4%	34.3	23.5	68.6%
DE	170.1	56.7	33.3%	119.0	51.0	42.9%
EE	12.5	7.3	58.7%	25.0	14.7	58.7%
IE	34.5	14.3	41.5%	17.0	9.1	53.8%
EL	88.1	34.9	39.7%	77.6	42.7	55.0%
ES	280.7	84.5	30.1%	196.3	80.1	40.8%
FR	183.5	47.4	25.8%	87.6	27.3	31.1%
HR	14.2	3.4	23.6%	5.8	3.6	62.3%
IT	316.8	128.7	40.6%	176.1	127.9	72.6%
CY(**)	5.2	3.8	74.1%	1.8	0.3	14.6%
LV	8.8	4.3	49.2%	28.9	14.9	51.6%
LT	18.8	6.1	32.6%	30.6	13.5	44.1%
MT	3.0	2.4	79.1%	0.4	0.2	52.0%
NL	392.9	58.6	14.9%	196.8	35.0	17.8%
PL	62.1	20.7	33.3%	34.1	21.7	63.6%
PT	50.0	20.2	40.4%	33.1	16.1	48.7%
RO(**)	25.2	1.9	7.7%	27.2	7.3	26.9%
SI	14.5	2.9	19.8%	5.5	1.3	24.1%
FI	46.6	32.1	68.9%	53.7	40.9	76.0%
SE	90.8	61.1	67.3%	79.8	61.9	77.6%

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

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

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

## Sea – MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT

2.4.10b

### (2) MAIN ROUTES IN INTRA-EU MARITIME TRANSPORT 2021

	TOTAL			RANKING	country of loading port	country of unloading port	million tonnes transported
	total goods transported (*)	of which to/from EU	share of EU in total				
	million tonnes	million tonnes	(%)				
				1	ITALY	ITALY	91.264
				2	SPAIN	SPAIN	38.238
BE	288.2	71.5	24.8%	3	GREECE	GREECE	26.125
BG	25.6	5.7	22.3%	4	SWEDEN	SWEDEN	23.462
DK	81.9	52.6	64.2%	5	SWEDEN	GERMANY	18.131
DE	285.9	104.5	36.5%	6	FRANCE	FRANCE	17.517
EE	37.5	22.0	58.6%	7	SPAIN	ITALY	15.939
IE	51.0	23.0	45.1%	8	GERMANY	SWEDEN	15.198
EL	145.4	57.4	39.4%	9	ITALY	SPAIN	14.095
				10	NETHERLANDS	FRANCE	14.091
ES	444.1	131.7	29.7%	11	FINLAND	GERMANY	13.646
FR	267.7	71.3	26.6%	12	SWEDEN	FINLAND	11.799
HR	19.4	6.3	32.7%	13	GREECE	ITALY	11.738
IT	406.0	169.7	41.8%	14	DENMARK	DENMARK	10.840
CY (**)	7.0	4.1	58.6%	15	SPAIN	NETHERLANDS	9.880
LV	37.6	19.2	51.0%	16	DENMARK	SWEDEN	9.357
LT	49.4	19.6	39.7%	17	GERMANY	DENMARK	8.704
MT	3.4	2.6	75.9%	18	FINLAND	SWEDEN	8.697
NL	589.7	93.6	15.9%	19	NETHERLANDS	GERMANY	8.659
PL	94.7	40.8	43.1%	20	SWEDEN	DENMARK	8.631
PT	77.4	30.7	39.6%	21	NETHERLANDS	SPAIN	8.630
RO (**)	52.4	9.2	17.7%	22	SPAIN	FRANCE	8.471
SI	20.1	4.2	21.0%	23	SWEDEN	BELGIUM	7.924
FI	96.9	69.5	71.8%	24	FINLAND	NETHERLANDS	7.899
SE	169.1	121.5	71.9%	25	SWEDEN	POLAND	7.698
				26	NETHERLANDS	SWEDEN	7.661
				27	SWEDEN	NETHERLANDS	7.458
				28	ITALY	GREECE	7.118
				29	POLAND	SWEDEN	6.855
				30	DENMARK	GERMANY	6.130

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

## 2.4.11

## Sea – CONTAINER TRAFFIC AT MAJOR EU SEAPORTS

RANKING	1 000 TEU							%
	PORT		2005	2010	2015	2020	2021	CHANGE '20/'21
1	Rotterdam	NL	9 194.6	11 017.5	11 577.2	13 294.1	13 406.4	0.8
2	Antwerpen	BE	6 220.9	8 144.4	9 370.3	11 970.0	12 007.0	0.3
3	Hamburg	DE	8 084.3	7 905.5	8 847.9	8 577.6	8 799.2	2.6
4	Valencia	ES	2 415.2	4 211.2	4 608.7	5 413.2	5 586.7	3.2
5	Bremerhaven	DE	3 696.1	4 858.3	5 466.8	4 766.7	5 013.6	5.2
6	Algeciras	ES	3 179.8	2 772.7	4 515.8	5 107.9	4 799.5	-6.0
7	Piraeus	EL	1 401.1	850.3	3 359.6	5 202.0	4 731.0	-9.1
8	Barcelona	ES	2 071.4	1 928.0	1 950.1	2 949.8	3 522.0	19.4
9	Gioia Tauro	IT	3 123.2	3 896.7	3 030.0	3 319.6	3 385.9	2.0
10	Le Havre	FR	2 144.3	2 369.3	2 560.1	2 170.3	3 061.5	41.1
11	Genova	IT	1 037.6	1 020.0	2 079.1	2 491.3	2 664.1	6.9
12	Gdansk	PL	63.3	509.9	1 041.3	1 623.0	1 846.1	13.8
13	Sines	PT	51.0	382.1	1 332.2	1 612.0	1 823.8	13.1
14	Marseille	FR	910.6	1 030.9	1 255.8	1 717.1	1 454.4	-15.3
15	La Spezia	IT	915.6	1 180.6	1 578.9	1 333.0	1 268.7	-4.8
16	Las Palmas de Gran Canaria	ES	1 210.4	1 118.0	900.5	1 000.0	1 140.2	14.0
17	Zeebrugge	BE	682.3	1 436.8	393.0	577.7	1 033.2	78.8
18	Gdynia	PL	392.9	477.0	676.4	890.3	984.1	10.5
19	Koper	SI	210.3	481.0	802.7	918.1	961.3	4.7
20	Livorno	IT	461.4	369.9	652.8	1 165.1	938.8	-19.4
21	Dublin	IE	590.2	554.0	627.7	758.0	844.4	11.4
22	Goteborg	SE	771.7	891.5	809.6	770.7	824.0	6.9
23	Trieste	IT	182.7	261.1	628.0	890.6	767.2	-13.9
24	Arhus	DK	397.2	446.3	445.2	622.7	718.7	15.4
25	Wilhelmshaven	DE	2.7	0.0	611.0	422.3	710.7	68.3
26	Thessaloniki	EL	372.5	289.2	591.4	699.2	706.3	1.0
27	Napoli	IT	178.5	224.2	210.0	600.0	701.0	16.8
28	Klaipeda	LT	214.3	295.2	350.4	639.0	667.1	4.4
29	Constanta	RO	867.0	546.1	689.5	643.0	657.0	2.2
30	Dunkerque	FR	201.6	200.8	292.1	474.4	652.2	37.5
31	Leixoes	PT	351.8	481.8	568.3	638.1	649.0	1.7
32	Hamina Kotka (¹)	FI	376.5	402.4	487.4	584.3	558.2	-4.5
33	Bilbao	ES	862.8	532.0	627.9	485.8	538.9	10.9
34	Helsinki	FI	460.2	400.7	411.1	474.3	427.4	-9.9
35	Riga	LV	157.8	254.6	355.4	458.2	422.5	-7.8
36	Santa Cruz de Tenerife	ES	416.9	308.6	310.4	313.0	410.8	31.2
37	Savona	IT	135.0	111.1	42.4	186.7	393.8	110.9
38	Le Port (Réunion)	FR	80.1	86.7	113.0	357.0	393.6	10.2
39	Lisboa	PT	512.2	512.0	482.6	300.2	360.1	20.0
40	Rijeka	HR	76.1	121.1	152.7	310.1	337.8	8.9

NB: <sup>(1)</sup> 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

YEAR	Billion	TONNE-KILOMETRES		
		% of which:		
		< 300 km	300 - 900 km	> 900 km
1990	18.7	1 %	68 %	31 %
1995	25.0	2 %	56 %	42 %
2000	35.2	2 %	71 %	27 %
2005	38.8	3 %	63 %	34 %
2010	42.4	5 %	58 %	37 %
2011	42.6	7 %	56 %	37 %
2012	39.1	3 %	59 %	38 %
2013	40.7	2 %	60 %	38 %
2014	52.2	2 %	53 %	45 %
2015	55.0	1 %	50 %	49 %
2016	58.3	1 %	46 %	53 %
2017	75.1	1 %	42 %	57 %
2018	83.6	2 %	45 %	54 %
2019	83.5	1 %	51 %	48 %
2020	90.3	1 %	49 %	50 %
2021	100.2	1 %	48 %	51 %
2022	88.8	1 %	52 %	46 %

TRAFFIC % OF CONSIGNMENTS (*)			
YEAR	Semi-trailers	Rolling motorway	Swap bodies and containers
1990	20 %	18 %	61 %
1995	14 %	19 %	67 %
2000	9 %	23 %	68 %
2005	7 %	13 %	80 %
2010	10 %	15 %	75 %
2011	10 %	14 %	76 %
2012	13 %	5 %	82 %
2013	14 %	5 %	81 %
2014	13 %	5 %	82 %
2015	13 %	5 %	82 %
2016	16 %	4 %	80 %
2017	11 %	8 %	81 %
2018	15 %	6 %	81 %
2019	15 %	6 %	80 %
2020	15 %	5 %	80 %
2021	14 %	5 %	80 %
2022	16 %	4 %	80 %

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

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

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

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

From 2015 figures include RCO CZ.

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

From 2018 figures include CargoBeamer and VIIA.

## 2.4.13

## Road

### ALPS CROSSING FREIGHT TRAFFIC

#### ALPINE ARC: MONTGENÈVRE TO BRENNER

MILLION TONNES					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
1985	1.9	0.8	15.0	12.3	30.0
1990	3.1	1.1	14.6	21.8	40.6
1995	5.5	1.1	21.0	25.8	53.4
2000	7.6	1.3	26.6	27.2	62.7
2005	10.2	2.8	33.6	20.8	67.4
2010	10.8	3.5	28.7	20.2	63.2
2011	10.6	3.8	29.3	20.7	64.4
2012	10.0	3.6	30.5	19.5	63.6
2013	9.3	3.5	30.1	18.8	61.7
2014	9.1	3.3	31.3	19.0	62.8
2015	8.7	3.3	32.2	19.5	63.7
2016	8.4	3.3	34.6	19.8	66.2
2017	8.6	3.1	37.3	21.2	70.2
2018	8.4	3.3	39.8	21.9	73.4
2019	7.3	2.9	40.8	21.1	72.1
2020	7.1	2.7	38.2	19.3	67.3
2021	7.0	2.5	40.5	21.9	71.9
AVERAGE ANNUAL CHANGE					
'85/'00	9.7 %	3.3 %	3.9 %	5.4 %	5.0 %
'00/'21	-0.4 %	3.2 %	2.0 %	-1.0 %	0.7 %
'20/'21	-2.3 %	-5.1 %	6.1 %	13.4 %	6.9 %

NB: France: Montgenèvre: from 1999 to 2018.

NUMBER OF HEAVY GOODS VEHICLES (1 000)					
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon Gr. St. Bernard St. Bernardino	Brenner Reschen	Montgenèvre Fréjus Mont-Blanc	
2000	1 187	217	1 653	1 672	4 729
2005	925	279	2 121	1 435	4 760
2010	928	308	1 947	1 356	4 539
2011	898	322	1 980	1 389	4 589
2012	843	307	2 058	1 307	4 516
2013	766	282	2 028	1 264	4 341
2014	758	274	2 112	1 276	4 420
2015	730	280	2 160	1 307	4 477
2016	701	274	2 315	1 330	4 620
2017	698	257	2 453	1 419	4 827
2018	677	264	2 602	1 472	5 014
2019	643	255	2 660	1 400	4 958
2020	628	234	2 465	1 277	4 604
2021	637	223	2 627	1 448	4 934

NB: Internal, import, export and transit traffic.  
Since 2019 no data available on the traffic at Montgenèvre.

## 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	5657	6729	880	13 266
1998	6447	7413	905	14 765
1999	6914	8018	914	15 846
2000	8224	8200	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	1 316	19 674
2013	9 165	9 163	1 307	19 634
2014	8 605	9 501	1 242	19 348
2015	9 280	10 066	1 387	20 733
2016	10 745	10 097	1 454	22 295
2017	10 170	10 463	1 243	21 876
2018	10 480	10 907	1 508	22 894

#### PASSENGER CAR TRAFFIC

VEHICLES PER DAY				
	West coast Irun Biriattou	East coast La Jonquera Le Perthus	Other crossings	TOTAL
1997	30 200	19 400	27 800	77 400
1998	30 230	20 601	33 168	83 999
1999	33 188	20 678	33 412	87 278
2000	40 923	24 390	31 962	97 275
2001	41 847	25 201	34 096	101 144
2002	41 812	28 544	37 654	108 010
2003	44 165	29 201	41 267	114 633
2004	45 041	30 923	41 196	117 160
2005	47 142	31 896	42 465	121 503
2006	47 172	32 180	43 228	122 580
2008	47 266	30 847	41 924	120 037
2009	47 907	31 465	42 452	121 823
2011	48 787	30 900	40 508	120 194
2013	47 110	30 529	38 612	116 250
2014	48 780	31 623	40 190	120 593
2015	49 150	32 458	41 496	123 104
2016	47 421	33 049	40 611	121 080
2017	50 130	33 441	44 587	128 158
2018	51 260	33 559	46 421	131 239

**NB:** Between 2006 -2013, these statistics were available every two years.  
Goods traffic: other crossing: data revised back to 2013 due to a computation error.

## 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	2020	2021	CHANGE '20/'21	2021	2021
<b>EU-27</b>	<b>3485.3</b>	<b>3461.5</b>	<b>3579.1</b>	<b>3334.1</b>	<b>3594.0</b>	<b>7.8</b>	<b>78.0</b>	<b>21.9</b>
BE	92.6	95.1	95.2	92.7	103.8	12.0	87.2	12.8
BG	33.5	29.3	28.6	28.1	27.9	-1.0	68.5	31.5
CZ	147.7	155.1	157.3	167.0	165.2	-1.1	81.8	18.2
DK	75.0	78.3	78.8	76.2	77.8	2.1	96.1	3.9
DE	986.7	992.4	1032.6	1049.8	1125.9	7.2	75.4	24.6
EE	8.9	7.4	8.0	6.6	7.2	10.1	79.7	20.3
IE	16.0	18.3	18.2	15.0	17.2	14.9	99.2	0.8
EL	17.7	17.0	10.8	8.5	8.2	-4.2	86.4	13.6
ES	199.4	206.0	209.1	158.2	172.3	8.9	86.3	13.7
FR	505.8	458.0	460.0	338.7	406.6	20.1	85.3	14.7
HR	26.1	25.8	19.7	18.6	19.2	3.4	70.9	29.1
IT	373.3	356.1	366.4	319.5	367.7	15.1	85.9	14.1
CY	-	-	-	-	-	-	-	-
LV	18.9	16.6	17.2	10.7	10.4	-2.8	57.5	42.5
LT	14.3	14.4	14.0	15.6	15.0	-4.1	39.2	60.8
LU	7.6	8.0	8.9	7.4	7.8	4.7	94.6	5.4
HU	102.8	100.6	164.8	123.0	108.4	-11.9	30.0	70.0
MT	-	-	-	-	-	-	-	-
NL	133.8	139.1	149.4	148.8	153.1	2.9	94.1	5.9
AT	143.9	151.8	153.4	153.3	165.5	7.9	74.6	25.4
PL	207.2	211.7	204.6	224.2	246.5	9.9	69.4	28.8
PT	37.7	40.0	37.1	33.3	35.5	6.6	82.5	17.5
RO	94.5	86.3	79.9	77.6	80.9	4.2	74.8	25.2
SI	18.6	18.6	17.7	16.0	18.8	17.6	55.6	44.4
SK	47.3	44.0	46.0	46.2	46.5	0.8	74.5	25.5
FI	48.2	51.0	48.6	47.7	47.4	-0.6	69.0	31.0
SE	127.7	140.6	152.7	151.4	159.2	5.2	77.2	22.8
IS	-	-	-	-	-	-	-	-
NO	41.1	43.8	48.6	44.7	46.8	4.6	80.3	19.7
CH	0.0	210.5	222.7	221.5	232.7	5.0	88.3	11.7
BA			4.0	2.9	3.3	12.4	38.4	61.6
ME			1.4	1.1	1.2	7.8		
MD		0.8	0.7	0.6	0.7	7.8	0.1	99.9
MK		2.8	2.2	1.4	1.5	4.8	58.8	41.2
AL				0.1	0.1	43.3	67.1	32.9
RS		23.0	22.2	12.7	13.7	7.8	57.3	42.7
TR	44.9	38.8	41.1	38.6	45.5	18.0	40.6	59.4
UA			204.8	183.4	197.7	7.8	33.1	58.5
UK	491.4	544.0	569.8	485.5	493.8	1.7	93.3	6.7

## Rail – DEGREE OF MARKET OPENING – PASSENGERS

2.4.16a

### SHARE OF ALL BUT THE PRINCIPAL UNDERTAKINGS

	%				Of which: Market share PSO (*)	Of which: Market share Commercial
	2010	2015	2020	2021	2021	2021
BE	0.2 %	3.3 %	2.2 %	7.7 %	0.0 %	66.8 %
BG	2.6 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
CZ	0.2 %	5.0 %	14.5 %	16.3 %	11.2 %	71.3 %
DK	18.0 %	7.0 %	9.8 %	10.5 %	10.5 %	
DE	8.0 %	13.5 %	20.7 %	22.2 %	34.7 %	3.6 %
EE	50.0 %	0.0 %	0.7 %	0.0 %	0.0 %	0.0 %
IE	0.0 %		0.0 %	0.0 %	0.0 %	0.0 %
EL	0.0 %	0.0 %	1.6 %	5.9 %	0.0 %	100.0 %
ES	0.0 %	0.0 %	0.1 %	2.1 %	0.1 %	4.0 %
FR	1.0 %	5.0 %	1.3 %	1.0 %	0.0 %	1.5 %
HR	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
IT	8.3 %	23.0 %	28.7 %	33.5 %	20.0 %	49.7 %
CY	-	-	-	-	-	-
LV	10.5 %	8.3 %	1.1 %	0.1 %	0.1 %	0.0 %
LT	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
LU		0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
HU	1.8 %	3.5 %	0.3 %	0.4 %	0.0 %	56.1 %
MT	-	-	-	-	-	-
NL	4.8 %	14.9 %	5.0 %	6.0 %	6.0 %	0.0 %
AT	5.4 %	12.2 %	9.7 %	10.0 %	8.6 %	18.5 %
PL	48.3 %	51.7 %	46.3 %	46.0 %	50.6 %	0.6 %
PT	9.0 %	5.4 %	5.2 %	5.0 %	16.5 %	0.0 %
RO	3.9 %		12.3 %	12.0 %	8.6 %	n/a
SI	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SK	0.0 %	6.0 %	9.9 %	9.0 %	0.0 %	0.0 %
FI	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
SE		33.5 %	49.7 %	38.6 %	59.3 %	13.3 %
NO	12.0 %	10.7 %	24.5 %	24.5 %	24.5 %	

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

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	2015	2016	2017	2018	2019	2020	2021
BE	0.0	6.1	11.8	25.1	48.6	27.1	18.2	19.2	35.5	42.0
BG	3.2	14.3	21.6	51.4	54.5	58.6	52.7	42.8	45.7	54.7
CZ			13.2	33.5	34.9	36.8	35.1	39.8	41.3	43.6
DK			25.0	29.0	26.1	17.7	26.3	38.0	36.8	21.9
DE	16.4	22.0	25.0	40.9	45.5	47.5	51.3	54.0	54.7	57.6
EE	30.6	49.0	45.0	29.0	20.1	23.7	1.4	0.0	0.2	0.9
IE	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0
EL	0.0	0.0		0.0	0.0	0.0	0.0	3.0	3.0	3.4
ES	4.9	5.0	8.1	26.0	29.5	30.8	34.3	37.0	38.3	41.0
FR	0.6	10.0	20.0	25.6	41.0	43.0	46.0	47.0	47.6	51.0
HR	0.0	0.0	0.0	2.0	14.7	23.9	32.0	38.0	45.6	45.9
IT	11.5		24.1	41.2	55.1	55.4	57.0	57.0	59.2	62.4
CY	-	-	-	-	-	-	-	-	-	-
LV	10.6	9.6	23.3	31.1	25.5	33.6	31.6	31.0	24.4	29.7
LT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
LU	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HU	9.0	14.4	19.5	39.6	42.1	47.5	50.6	51.0	55.0	54.9
MT	-	-	-	-	-	-	-	-	-	-
NL	14.0	25.0	40.0		45.0	56.5	59.0	51.0	58.0	53.0
AT	10.0	14.0	14.6	23.6	26.1	24.5	30.7	32.0	33.1	36.6
PL	16.9	24.0	35.8	38.1	48.6	42.9	45.9	50.7	54.5	54.1
PT	0.0		9.0	11.8	15.4	14.2	13.6	17.9	19.3	19.3
RO	26.7	41.0	54.7	60.2	62.9	63.4	63.9	71.0	78.4	78.4
SI	0.0	0.0	0.0	12.1	13.0	13.3	14.8	16.8	18.8	22.2
SK	2.9	2.0	2.0	17.6	19.9	22.1	24.6	27.8	29.5	29.1
FI	0.0	0.0	0.0	0.0	0.1	0.4	1.3	2.0	2.2	4.4
SE	32.5		40.0	48.0	46.0	46.0	48.0	51.0	51.0	51.1
NO		21.0	25.0	42.2	49.8	51.1	51.5	56.0	55.8	55.1

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

## Rail

2.4.17

### ALPS CROSSING FREIGHT TRAFFIC

#### ALPS CROSSING FREIGHT TRAFFIC

Alpine Arc: Mont-Cenis to Brenner					MILLION TONNES
	Switzerland		Austria	France	TOTAL
	St. Gotthard	Simplon	Brenner	Mont-Cenis	
1985	11.2	2.8	4.7	7.5	26.2
1990	13.6	4.3	5.5	7.2	30.6
1994	13.2	4.7	8.3	7.7	33.9
1995	13.6	4.4	8.4	8.0	34.4
1996	11.7	4.0	7.9	9.7	33.3
1997	13.7	4.3	7.8	10.1	35.9
1998	15.0	4.3	8.6	9.3	37.2
1999	14.9	3.5	8.3	8.4	35.1
2000	16.8	3.8	8.7	8.6	37.9
2001	15.8	4.8	10.7	8.6	39.9
2002	14.2	4.8	10.5	8.6	38.1
2003	14.3	5.6	10.7	7.8	38.4
2004	16.1	6.8	10.7	6.4	40.0
2005	15.6	8.1	10.0	5.2	38.9
2006	16.2	9.0	11.6	4.8	41.6
2007	15.5	9.7	13.3	5.7	44.2
2008	15.5	9.9	14.0	4.6	44.0
2009	11.6	9.2	13.1	2.4	36.3
2010	14.4	9.6	14.4	3.0	41.4
2011	14.4	11.3	14.1	3.4	43.2
2012	13.9	9.8	11.2	3.4	38.3
2013	15.0	10.1	11.7	3.2	40.1
2014	15.6	10.5	11.9	3.3	41.3
2015	15.3	11.7	12.6	3.2	42.7
2016	15.3	13.5	13.4	2.9	45.2
2017	13.6	13.6	13.8	2.7	43.7
2018	15.3	12.6	14.0	2.6	44.6
2019	15.1	11.5	13.8	2.9	43.3
2020	15.3	9.7	13.6	2.4	41.0
2021	17.9	10.4	14.9	2.7	45.9
AVERAGE ANNUAL CHANGE					
'85/'00	2.7%	2.1%	4.2%	0.9%	2.5%
'00/'21	0.3%	4.9%	2.6%	-5.4%	0.9%
'20/'21	17.1%	7.5%	9.6%	11.3%	12.0%

## 2.5.1

## Road

### LENGTH OF MOTORWAYS

km (at end of year)								
	1990	1995	2000	2005	2010	2015	2020	2021
<b>EU-27</b>	<b>38 995</b>	<b>44 889</b>	<b>51 530</b>	<b>59 474</b>	<b>67 450</b>	<b>71 585</b>	<b>74 555</b>	<b>74 862</b>
BE	1 666	1 666	1 702	1 747	1 763	1 763	1 763	1 763
BG	273	277	319	331	437	734	806	806
CZ	357	414	501	564	734	776	1 298	1 346
DK	611	796	923	1 032	1 130	1 237	1 354	1 355
DE	10 854	11 190	11 712	12 363	12 819	12 993	13 192	13 155
EE	41	65	93	99	115	147	199	199
IE	26	70	103	247	900	916	995	995
EL	190	421	615	917	1 558	1 589	2 145	2 159
ES	4 976	6 962	9 049	11 432	14 262	15 336	15 774	15 860
FR	6 824	8 275	9 766	10 798	11 392	11 599	11 660	11 664
HR	291	302	411	1 016	1 244	1 310	1 310	1 316
IT	6 193	6 435	6 478	6 542	6 668	6 943	6 978	6 978
CY	120	167	257	276	257	257	257	257
LV	-	-	-	-	-	-	-	-
LT	421	394	417	417	309	309	400	400
LU	78	123	114	147	152	161	165	163
HU	267	335	448	859	1 477	1 621	1 774	1 860
MT	-	-	-	-	-	-	-	-
NL	2 092	2 208	2 265	2 600	2 651	2 730	2 789	2 790
AT	1 445	1 596	1 633	1 677	1 719	1 719	1 749	1 749
PL	257	246	358	552	857	1 559	1 712	1 761
PT	316	687	1 482	2 341	2 737	3 065	3 065	3 065
RO	113	113	113	228	332	747	920	931
SI	228	293	427	569	771	610	616	616
SK	192	198	296	328	416	463	521	545
FI	225	394	549	693	779	881	933	944
SE	939	1 262	1 499	1 700	1 971	2 119	2 179	2 185
IS	-	-	-	11	11	11	41	41
NO	73	107	144	264	381	392	580	580
CH	1 148	1 197	1 270	1 358	1 406	1 440	1 544	1 544
BA							218	218
AL							22	25
ME	-	-	-	-	-	-	-	-
MD		-	-	-	-	-	-	-
MK	83			216	251	259	335	335
RS				603	603	693	928	932
TR	281			1 667	2 080	2 282	3 523	3 523
UA								199
UK	3 181	3 380	3 581	3 633	3 672	3 768	3 838	3 851

**NB:** BE: situation at the end of 2015. IT: data for 2020. IS: data for 2018.

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

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

CY: from 2006: without urban M-ways.

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

UK: data refer to the 1st of April.

Sources: Eurostat [road\_if\_motorwa], International Road Federation (www.irfnet.ch) (EL, IS provided in 2020), ASECAP (European Association of Operators of Toll Road Infrastructures) statistical bulletin (EL), national sources (UA), estimates (*in italics*)



## Road

### LENGTH OF ROAD NETWORK

2.5.2

	km (at end of 2021) (*)			
	Motorways	Main or national roads	Secondary or regional roads	Other roads (**)
BE	1 763	13 229	1 349	138 869
BG	806	2 883	4 019	12 217
CZ	1 346	5 800	48 692	74 919
DK	1 355	2 606	70 935	
DE	13 155	37 824	178 622	
EE	199	3 813	12 921	48 723
IE	995	5 419	13 382	83 386
EL	2 159	9 229	30 864	75 600
ES	15 860	14 880	134 945	501 053
FR	11 664	9 581	378 906	704 942
HR	1 316	7 180	9 422	8 494
IT	6 978	28 307	132 626	67 532
CY	257	5 461	2 461	5 047
LV	-	20 034	28 967	8 457
LT	400	6 679	14 559	52 139
LU	163	850	1 877	19
HU	1 860	30 662		183 989
MT	-	2 855		
NL	2 790	2 743	7 905	127 804
AT	1 749	10 762	23 555	91 916
PL	1 761	19 498	153 782	256 536
PT	3 065	6 469		4 791
RO	931	16 599	35 096	33 573
SI	616	5 925	32 259	
SK	545	3 643	13 964	39 670
FI	944	12 514	13 461	50 987
SE	2 185	13 497	141 187	43 156
IS	41	4 370	3 380	5 158
NO	580	10 511	44 730	39 879
CH	1 544	710	17 219	64 640
BA	218		9 659	
AL	25		3 606	
ME	-		8 453	
MD	-	5 835	3 335	
MK	335	897	3 794	9 719
RS	932	13 527		30 453
TR	3 523	30 974	34 136	187 695
UA	199	46 639	53 999	63 575
UK	3 851	49 835	33 252	337 693

NB: (\*) BE: end of 2015; EL: 2018; LU: 2018 (other roads); IT, RS and TR: 2020 data.

(\*\*) The definition of road types varies from country to country, the data are therefore not fully comparable.

CY: other road network includes forest gravel roads.

## 2.5.3

# Railways

## LENGTH OF LINES IN USE

								km	%
								OF WHICH: ELECTRIFIED 2021	
	1990	2000	2005	2010	2015	2020	2021		
EU-27	214 725	202 952	202 457	202 424	201 068	202 557	202 596	113 722	56.1
BE	3 479	3 471	3 544	3 582	3 607	3 615	3 612	3 127	86.6
BG	4 299	4 320	4 154	4 098	4 019	4 029	4 031	3 001	74.4
CZ	9 451	9 444	9 614	9 568	9 566	9 542	9 523	3 234	34.0
DK	2 344	2 768	2 779	2 092	2 552	2 485	2 485	803	32.3
DE	40 981	36 588	38 206	37 877	38 466	39 773	39 799	21 100	53.0
EE	1 026	968	925	1 196	1 164	1 167	1 167	225	19.3
IE	1 944	1 919	1 912	1 927	1 931	2 045	2 045	53	2.6
EL	2 484	2 385	2 576	2 552	2 240	2 345	2 339	731	31.3
ES	12 560	12 310	12 839	13 853	15 384	16 135	16 280	10 428	64.1
FR	34 260	31 397	30 871	30 335	28 808	27 213	27 057	16 054	59.3
HR	2 444	2 726	2 726	2 722	2 604	2 617	2 617	994	38.0
IT	16 005	15 974	16 225	16 704	16 752	16 782	16 832	12 160	72.2
CY	-	-	-	-	-	-	-	-	-
LV	2 397	2 331	2 270	1 897	1 860	1 859	1 859	251	13.5
LT	2 007	1 905	1 771	1 768	1 877	1 911	1 911	152	8.0
LU	271	271	271	275	275	263	263	254	96.7
HU	7 772	7 668	7 685	7 352	7 197	7 787	7 889	3 221	40.8
MT	-	-	-	-	-	-	-	-	-
NL	2 780	2 802	2 810	3 013	3 031	3 041	3 041	2 264	74.4
AT	5 624	5 563	5 642	5 828	5 522	5 607	5 603	4 003	71.4
PL	26 228	22 560	20 253	20 228	19 231	19 383	19 287	12 101	62.7
PT	3 126	2 814	2 801	2 843	2 546	2 526	2 527	1 791	70.9
RO	11 348	11 015	10 948	10 785	10 770	10 769	10 764	4 035	37.5
SI	1 196	1 201	1 228	1 228	1 209	1 209	1 209	610	50.5
SK	3 660	3 662	3 658	3 622	3 626	3 627	3 626	1 585	43.7
FI	5 846	5 854	5 732	5 919	5 923	5 918	5 918	3 359	56.8
SE	11 193	11 037	11 017	11 160	10 908	10 909	10 912	8 186	75.0
IS	-	-	-	-	-	-	-	-	-
NO	4 044	4 179	4 114	3 958	3 896	3 851	3 851	2 483	64.5
CH	3 215	3 216	3 399	3 597	3 592	4 106	4 122	4 112	99.8
BA	944	1 031	1 032	1 027	1 027	1 018	1 018	748	73.5
AL						251	251	227	90.5
ME				1 157	1 151	1 150	1 150	0	0.0
MD	696	699	699	699	699	683	683	234	34.3
MK	674	400			379	204	224	0	0.0
RS				3 809	3 766	3 354	3 369	1 290	38.3
TR	8 429	8 671	8 697	9 594	10 131	10 378	10 378	5 070	48.9
UA					20 954	19 790	19 790	9 332	47.2
UK	16 924	17 008	15 810	15 884	16 241	16 377	16 316	6 151	37.7

**NB:** UIC data refer only to UIC members.

# Railways

## HIGH-SPEED RAIL NETWORK

2.5.4

### LENGTH OF LINES

km (at end of year)													
	BE	DE	DK	ES	FR	IT	NL	AT	PL	FI	SE	UK	EU-27
1985	-	-	-	-	425	174	-	-	-	-	-	-	599
1990	-	90	-	-	717	194	-	24	-	-	-	-	1 025
1995	-	426	-	471	1 290	238	-	24	-	156	-	-	2 605
2000	72	576	-	471	1 290	238	-	24	-	156	187	-	3 014
2005	137	1 089	-	1 038	1 549	238	-	105	-	882	187	74	5 225
2010	209	1 178	-	2 102	1 912	856	90	121	-	1 120	680	113	8 268
2015	209	1 381	-	3 002	2 058	856	90	237	224	1 120	860	113	10 037
2020	209	1 571	56	3 454	2 735	921	90	254	224	1 120	860	113	11 494
2021	209	1 571	56	3 627	2 735	921	89	254	224	1 120	860	113	11 666

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

### HIGH-SPEED LINES CURRENTLY UNDER CONSTRUCTION

	LINE	LENGTH km	START OF OPERATION
DE	Wendlingen - Ulm	60	2022
DE	Stuttgart - Wendlingen	25	2024
DE	Karlsruhe - Raststatt (Basel)	17	2024
DE	Buggingen - Katzenbergtunnel (Basel)	32	2025
DE	(Karlsruhe) Katzenbergtunnel - Basel	13	2025
ES	Beniel - Murcia	15	2022
ES	Venta de Banos - Burgos	91	2022
ES	León-Pola de Lena (Pajares New Pass)	76	2022
ES	Navalmoral - Plasencia/Badajos	246	2022
ES	Vitoria Gasteiz - Bilbao - San Sebastian	175	2028
ES	Murcia - Almeria	188	-
ES	Castejon - Pamplona	75	-
ES	La Encina - Valencia	107	-
ES	Palencua - Alar del Rey	82	-
IT	Genova - Milano (Tortona)	53	2022
IT	Brescia - Verona	45	-
IT	Napoli - Bari	150	-
IT	Verona - Padova	79	-
AT	Wien Stadlau - Staatsgrenze (AT/SK)	38	2022
AT	Wien Inzersdorf Ort - Wr. Neustadt	47	2023
AT	Graz - Klagenfurt	122	2025
AT	Gloggnitz - Mürrzuschlag	28	2026
AT	Volders - Baumkirchen / Innsbruck - Staatsgrenze AT/IT	46	2027
SE	Umeå - Dävdå	12	2024
SE	Lund - Arlöv	11	2024
SE	Varberg - Hamra (Varberg tunnel)	7	2025
SE	Ängelholm - Maria	24	2025
SE	Järna - Linköping	160	2035

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

## 2.5.5 Railways – MAIN RAILWAY GAUGE AND ELECTRIC CURRENT USED

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

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

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

## Air

### NUMBER OF AIRPORTS

2.5.6

#### BY NUMBER OF PASSENGERS CARRIED (\*) IN 2021

	more than 10 million	5 to 10 million	1 to 5 million	500 000 to 1 million	100 000 to 500 000	15 000 to 100 000
EU-27	12	17	79	31	86	59
BE		1	1		2	1
BG			2	1		
CZ			1		2	1
DK		1	1	1	2	3
DE	2	3	5	6	4	3
EE			1			
IE		1			4	
EL	1		9	0	11	11
ES	3	3	10	6	12	
FR	2	1	12	6	10	10
HR			2	2	1	1
IT	1	3	15	3	9	3
CY			2			
LV			1			
LT			1		1	1
LU			1			
HU			1			1
MT			1			
NL	1		1	1		2
AT	1				3	2
PL		1	6		3	3
PT	1	1	3		4	4
RO		1	1	2	4	2
SI					1	
SK					2	
FI			1		4	7
SE		1	1	3	7	4
IS			1		2	
NO		1	5	2	9	11
CH	1	1	1			3
BA				1	2	
AL			1			
ME				2		
MD			1			
MK			1			
RS			1		1	
TR	7	2	9	10	15	9
UA	n.a.					
UK	1	3	9	4	9	9

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

## 2.5.7

# Maritime

## NUMBER OF PORTS

## BY WEIGHT OF GOODS TRANSPORTED IN 2021

	more than 50 million tonnes	10 to 50 million tonnes	5 to 10 million tonnes	1 to 5 million tonnes	500 000 to 1 million tonnes	less than 500 000 tonnes
<b>EU-27</b>	<b>11</b>	<b>63</b>	<b>48</b>	<b>124</b>	<b>49</b>	<b>385</b>
BE	1	2		1		
BG		2				
CZ	-	-	-	-	-	-
DK			6	19	10	78
DE	1	5	5	5	1	40
EE		1	1	3	2	1
IE		2	1	4	1	10
EL		5	1	19	13	136
ES	3	8	6	10	1	7
FR	2	4	3	10	5	15
HR			1	4	1	19
IT	1	16	8	16	7	30
CY				3		1
LV		2	1	1		2
LT		1	1			
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT				2		
NL	2	2	2	1		2
AT	-	-	-	-	-	-
PL		3	1	1		5
PT		2	3	3	1	10
RO		1		1		4
SI		1				
SK	-	-	-	-	-	-
FI		3	5	10	2	21
SE	1	3	3	11	5	4
IS				3	1	23
NO	1	4	4	18	12	56
CH	-	-	-	-	-	-
BA	-	-	-	-	-	-
AL				1		2
ME				1		1
MD	-	-	-	-	-	-
MK	-	-	-	-	-	-
RS	-	-	-	-	-	-
TR	4	8	4	10	3	12
UA	n.a.					
UK	2	8	9	19	6	7

## Inland waterways

### LENGTH IN USE

2.5.8

#### NAVIGABLE CANALS, RIVERS AND LAKES REGULARLY USED FOR TRANSPORT

	km							
	1990	1995	2000	2005	2010	2015	2020	2021
EU-27		37 458	39 658	40 783	40 738	40 601	42 007	42 131
BE	1 515	1 540	1 534	1 516	1 516	1 516	1 516	1 516
BG	470	470	470	470	470	470	470	470
CZ		677	664	664	676	720	726	726
DK	-	-	-	-	-	-	-	-
DE	4 350	6 663	6 754	7 565	7 728	7 675	7 675	7 675
EE		520	320	320	335	416	449	437
IE	-	-	-	-	-	-	-	-
EL	-	-	-	-	-	-	-	-
ES	-	-	-	-	-	-	-	-
FR	6 197	5 962	5 789	5 788	5 110	4 822	4 984	5 216
HR	933	933	720	804	805	1 017	1 017	1 017
IT	1 366	1 466	1 477	1 562	1 562	1 562	1 562	1 562
CY	-	-	-	-	-	-	-	-
LV	-	-	-	-	-	-	-	-
LT	369	369	380	290	448	446	512	467
LU	37	37	37	37	37	37	37	37
HU	1 373	1 373	1 373	1 587	1 864	1 575	1 575	1 575
MT	-	-	-	-	-	-	-	-
NL	5 046	5 046	6 183	6 211	6 219	6 261	6 297	6 297
AT	351	351	351	351	351	351	351	351
PL	3 997	3 980	3 813	3 638	3 659	3 655	3 768	3 768
PT	-	-	-	-	-	-	-	-
RO	1 782	1 779	1 779	1 779	1 779	1 779	2 763	2 763
SI	-	-	-	-	-	-	-	-
SK	2 379	172	172	172	172	172	172	172
FI	6 072	6 120	7 842	8 029	8 006	8 127	8 133	8 082
SE	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	-	-	-	-	-	-	-
CH	-	-	-	-	-	-	-	-
BA								
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MD		40	42	42	42	42	8	8
MK	-	-	-	-	-	-	-	-
RS					1 364	1 593	1 593	1 593
TR	-	-	-	-	-	-	-	-
UA	4 005	3 662	2 414	2 191	2 185	1 563	1 888	1 888
UK	1 631	1 153	1 153	1 065	1 050	1 050	1 050	1 050

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

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

## 2.5.9

## Pipelines

## LENGTH OF OIL PIPELINES

km								
	1990	1995	2000	2005	2010	2015	2020	2021
EU-27		28 497	30 578	31 338	31 168	31 612	31 783	31 796
BE	301	294	294	294	294	294	294	294
BG	578	578	578	578	578	570	570	570
CZ		581	675	675	674	642	642	631
DK	444	330	330	330	330	330	330	330
DE	2 222	2 460	2 370	2 370	2 370	2 370	2 370	2 370
EE	-	-	-	-	-	-	-	-
IE	-	-	-	-	-	-	-	-
EL	-	-	-	267	267	53	53	53
ES	2 678	3 691	3 780	3 833	4 365	4 736	4 722	4 722
FR	4 948	4 983	5 746	5 746	6 293	7 142	7 142	7 142
HR	865	601	601	610	610	610	610	610
IT	4 086	4 235	4 346	4 328	4 291	4 022	3 931	3 955
CY	-	-	-	-	-	-	-	-
LV	766	766	766	860	417	339	339	339
LT		400	500	500	500	500	500	500
LU	-	-	-	-	-	-	-	-
HU	2 574	2 071	2 061	2 032	2 209	2 215	2 236	2 236
MT	-	-	-	-	-	-	-	-
NL	391	391	391	391	391	391	582	582
AT	777	777	777	777	1 214	1 214	1 214	1 214
PL	2 039	2 278	2 278	2 278	2 362	2 483	2 483	2 483
PT	-	-	147	147	147	147	147	147
RO	3 694	3 546	4 423	4 807	3 346	3 048	3 112	3 112
SI	-	-	-	-	-	-	-	-
SK		515	515	515	510	506	506	506
FI	-	-	-	-	-	-	-	-
SE	-	-	-	-	-	-	-	-
IS	-	-	-	-	-	-	-	-
NO	-	3 701	7 908	1 189	1 260	1 245	1 571	1 571
CH	239	239	109	109	109	48	48	48
BA								
AL	-	-	-	-	-	-	-	-
ME	-	-	-	-	-	-	-	-
MD								
MK				155	144	144	144	144
RS					374	370	280	280
TR		1 126	2 112	3 065	3 038	3 053	3 060	3 060
UA						4 767	4 767	4 767
UK	2 462	3 470	3 954	4 501	4 446	4 446	4 446	4 446

**NB:** Including oil pipelines under the sea.

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

CZ: 1990 = 1 090 km.



## Road MOTORISATION

2.6.1

NUMBER OF PASSENGER CARS PER 1 000 INHABITANTS									%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>339</b>	<b>377</b>	<b>412</b>	<b>443</b>	<b>480</b>	<b>513</b>	<b>560</b>	<b>567</b>	<b>1.2</b>
BE	387	421	456	468	480	497	510	510	0.1
BG	152	196	245	333	353	442	414	414	-0.1
CZ	234	295	336	387	429	485	565	579	2.4
DK	309	320	347	362	389	419	466	475	1.8
DE	461	495	475	493	527	548	580	583	0.5
EE	154	269	333	366	416	514	608	620	2.0
IE	228	276	348	400	416	425	446	445	-0.4
EL	169	208	295	391	469	474	514	536	4.2
ES	309	360	429	460	475	481	521	525	0.7
FR	464	468	489	482	487	558	569	571	0.4
HR	121	155	262	321	353	358	433	465	7.4
IT	483	533	572	597	619	616	670	675	0.6
CY	304	335	384	477	551	575	645	655	1.4
LV	106	134	237	333	307	345	390	404	3.6
LT	133	199	336	442	554	431	560	574	2.5
LU	477	556	622	655	659	661	682	681	-0.2
HU	187	218	232	287	299	325	403	415	3.0
MT	337	487	483	525	581	611	597	601	0.6
NL	367	364	409	434	464	477	503	502	-0.3
AT	388	452	511	504	530	546	570	572	0.3
PL	138	195	261	323	453	546	664	687	3.5
PT	185	255	333	400	444	457	540	544	0.7
RO	56	97	124	158	214	261	379	400	5.5
SI	294	357	435	479	518	523	555	564	1.7
SK	166	189	237	243	310	375	447	459	2.7
FI	388	371	412	462	535	594	656	661	0.7
SE	419	411	450	459	460	474	476	477	0.2
IS	468	445	561	625	643	681	731	768	5.1
LI	582	609	663	699	744	766	768	777	1.1
NO	380	386	411	437	469	501	544	554	1.7
CH	442	457	492	518	518	535	537	539	0.3
BA						238	286	285	-0.6
ME					266	283	338	358	5.9
MD				82	114	188	258	275	6.7
MK		145	148	124	151	185	207	260	25.4
AL		18	37	65	101	140	191	213	11.5
RS				200	216	259	315	329	4.4
TR		49	68	84	102	134	157	162	3.3
UA									
UK	361	378	425	467	465	477	487	491	0.7

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

## 2.6.2

# Road

## PASSENGER CARS

## STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>142 906</b>	<b>160 511</b>	<b>176 926</b>	<b>193 282</b>	<b>211 305</b>	<b>228 295</b>	<b>250 546</b>	<b>253 272</b>	<b>1.1</b>
BE	3 864	4 273	4 678	4 919	5 276	5 624	5 889	5 928	0.7
BG	1 317	1 648	1 993	2 538	2 602	3 162	2 867	2 830	-1.3
CZ	2 410	3 043	3 439	3 959	4 496	5 115	6 049	6 089	0.7
DK	1 590	1 679	1 854	1 965	2 164	2 391	2 724	2 788	2.3
DE	36 772	40 499	39 059	40 660	42 302	45 071	48 249	48 541	0.6
EE	241	383	464	494	553	677	809	826	2.1
IE	801	998	1 333	1 684	1 899	2 007	2 234	2 250	0.7
EL	1 736	2 205	3 195	4 303	5 217	5 108	5 492	5 604	2.0
ES	11 996	14 212	17 449	20 250	22 147	22 356	24 717	24 913	0.8
FR	27 072	27 872	29 808	30 497	31 657	37 180	38 481	38 739	0.7
HR	580	711	1 125	1 385	1 515	1 500	1 746	1 795	2.8
IT	27 416	30 301	32 584	34 667	36 751	37 351	39 718	39 823	0.3
CY	179	220	268	355	463	488	578	592	2.4
LV	283	332	557	742	637	679	739	759	2.6
LT	493	718	1 172	1 455	1 692	1 244	1 565	1 611	2.9
LU	183	229	273	307	337	381	433	440	1.5
HU	1 944	2 245	2 365	2 889	2 984	3 197	3 921	4 020	2.5
MT	120	181	189	213	241	275	308	313	1.6
NL	5 509	5 633	6 539	7 092	7 736	8 101	8 794	8 828	0.4
AT	2 991	3 594	4 097	4 157	4 441	4 748	5 092	5 134	0.8
PL	5 261	7 517	9 991	12 339	17 240	20 723	25 114	25 870	3.0
PT	1 849	2 560	3 443	4 200	4 692	4 723	5 566	5 633	1.2
RO	1 292	2 197	2 778	3 364	4 320	5 155	7 275	7 611	4.6
SI	587	711	866	960	1 062	1 079	1 171	1 189	1.6
SK	880	1 016	1 274	1 304	1 669	2 035	2 440	2 493	2.2
FI	1 939	1 901	2 135	2 430	2 877	3 258	3 633	3 667	0.9
SE	3 601	3 631	3 999	4 154	4 335	4 669	4 943	4 986	0.9
IS	120	119	159	187	205	226	270	289	7.2
LI	17	19	22	24	27	29	30	31	1.8
NO	1 613	1 685	1 852	2 029	2 309	2 610	2 935	3 003	2.3
CH	2 985	3 229	3 545	3 861	4 076	4 458	4 658	4 709	1.1
BA						829	936	983	5.0
ME					165	176	210	221	5.4
MD				293	404	530	678	717	5.8
MK		286	300	253	310	384	429	478	11.3
AL		59	115	195	295	404	539	593	10.0
RS				1 481	1 566	1 835	2 165	2 236	3.3
TR		3 059	4 422	5 773	7 545	10 589	13 099	13 706	4.6
UA		4 603		5 539	6 769				
UK	20 722	21 951	25 067	28 326	29 334	31 171	32 697	32 889	0.6

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

Taxis are usually included.

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

FR: 2013-2019 data were revised; data until 2012 included private cars < 15 years old; provisional data for 2021.

## Road

### BUSES AND COACHES

2.6.3

#### STOCK OF REGISTERED VEHICLES

	1 000								%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>	<b>665.3</b>	<b>678.4</b>	<b>693.1</b>	<b>689.8</b>	<b>706.1</b>	<b>713.5</b>	<b>737.5</b>	<b>748.1</b>	<b>1.4</b>
BE	15.6	14.6	14.7	15.4	16.2	16.1	16.4	16.6	1.3
BG	34.6	41.8	43.0	37.8	24.5	24.1	19.5	17.7	-8.8
CZ	20.5	20.5	19.0	20.9	20.4	20.7	20.0	20.6	2.9
DK	8.1	13.7	14.0	14.4	14.5	13.4	12.3	11.9	-3.0
DE	100.4	85.4	77.2	75.2	76.5	78.3	75.5	80.2	6.2
EE	7.9	7.0	6.1	5.2	4.2	4.8	5.3	5.4	1.7
IE	4.0	5.3	7.0	7.6	8.2	9.3	10.4	11.1	6.9
EL	21.4	24.6	27.0	26.8	27.3	26.6	26.5	26.6	0.2
ES	45.8	47.4	54.7	58.2	62.4	60.3	63.4	64.3	1.4
FR	70.0	79.0	85.7	90.1	89.7	86.6	90.8	92.3	1.7
HR	5.8	3.9	4.7	4.9	4.9	5.3	5.2	5.2	-0.6
IT	77.7	75.0	88.0	94.4	99.9	98.0	99.9	100.2	0.3
CY	2.3	2.7	2.9	3.2	3.4	2.7	2.7	2.8	4.5
LV	12.1	16.5	11.5	10.6	5.4	4.8	4.1	4.0	-2.8
LT	15.2	17.6	15.5	15.3	13.7	6.9	7.7	7.6	-0.8
LU	0.8	0.9	1.1	1.3	1.6	1.9	2.3	2.3	4.2
HU	26.4	20.5	17.9	17.5	17.6	18.1	17.0	17.8	4.6
MT	1.0	1.0	1.1	1.1	1.8	2.0	2.2	2.3	4.6
NL	12.1	11.6	11.4	11.0	11.3	9.4	9.3	8.5	-8.0
AT	9.4	9.8	9.9	9.3	9.6	9.7	10.1	10.1	0.7
PL	92.4	85.4	82.6	79.6	97.0	109.8	124.5	126.5	1.6
PT	12.1	15.0	19.8	14.7	15.4	14.7	15.2	15.5	1.8
RO	28.3	42.0	40.7	39.3	40.9	47.3	54.2	54.4	0.3
SI	3.1	2.5	2.3	2.3	2.4	2.6	2.3	2.6	12.8
SK	14.3	12.1	11.1	9.4	9.6	9.3	8.2	8.4	2.5
FI	9.3	8.1	9.9	10.9	13.7	16.9	19.3	19.5	1.3
SE	14.6	14.6	14.4	13.5	13.9	14.1	13.5	13.6	0.8
IS	1.3	1.3	1.7	1.9	1.9	2.5	3.1	3.6	16.7
LI			0.1	0.1	0.1	0.1	0.1	0.1	16.0
NO	21.2	32.5	36.7	28.8	20.3	16.7	16.1	15.6	-3.1
CH	31.2	36.5	40.3	45.8	52.8	65.7	88.3	97.8	10.8
BA							3.6	3.9	9.1
ME						1.3	1.0	1.2	25.1
MD				19.8	21.4	21.1	21.0	21.1	0.3
MK	2.3	2.5	2.5	2.3	2.7	3.2	2.6	2.9	12.8
AL		6.7	16.8	29.5	7.0	6.4	7.6	7.9	3.1
RS				9.7	8.0	9.5	9.9	10.4	5.0
TR	188.1	263.2	354.3	501.9	595.5	666.3	705.8	693.7	-1.7
UA			145.5	167.9	175.2	253.4	253.4	253.4	
UK	75.0	75.9	88.6	105.6	111.5	113.3	98.4	102.6	4.3

**NB:** Stock at end of year, except for BE: 1 August, CH: 30 September, LI: 1 July.  
 Data include buses, coaches, minibuses and sometimes also trolleybuses  
 (BG: includes trolleybuses).  
 FR: 2015-2019 data were revised due to change in methodology.

## 2.6.4

# Road

## GOODS VEHICLES

## STOCK OF REGISTERED VEHICLES

1 000									%
	1990	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
EU-27		20 297	23 988	27 389	30 538	32 254	35 887	36 512	1.7
BE	380	442	548	662	738	815	963	1 000	3.9
BG	162	223	259	334	334	444	461	459	-0.6
CZ		219	298	439	598	652	732	736	0.5
DK	287	334	385	470	485	437	419	417	-0.5
DE	1 653	2 379	2 419	2 405	2 619	2 995	3 629	3 773	4.0
EE	68	66	82	86	81	102	135	140	3.5
IE	143	142	206	287	327	331	378	385	1.9
EL	766	884	1 057	1 186	1 319	1 323	1 374	1 392	1.3
ES	2 401	3 024	3 923	4 850	5 303	5 047	5 266	5 284	0.3
FR	4 840	5 116	5 152	5 347	5 841	6 432	6 876	6 865	-0.2
HR		73	123	163	158	149	202	214	5.7
IT	2 208	2 510	3 087	3 786	4 142	4 098	4 417	4 495	1.8
CY	74	101	115	118	121	104	116	118	1.4
LV		69	97	113	72	86	92	95	2.5
LT	83	109	99	122	134	103	143	153	6.9
LU	11	16	25	30	36	40	49	50	3.8
HU	262	278	353	413	451	496	616	638	3.6
MT		41	51	44	42	44	52	53	1.4
NL	553	654	899	1 005	1 004	963	1 104	1 118	1.3
AT	262	303	344	358	397	444	532	568	6.8
PL		1 354	1 879	2 305	2 982	3 428	3 999	4 140	3.5
PT	781	912	1 313	1 308	1 337	1 313	1 396	1 396	0.0
RO	259	343	427	494	667	856	1 142	1 191	4.4
SI	31	43	54	66	84	91	118	124	4.4
SK	92	103	114	174	276	303	327	333	2.0
FI	264	252	304	364	464	561	669	685	2.4
SE	310	308	374	461	526	596	680	691	1.7
IS	13	15	19	26	30	33	43	44	3.3
LI			2	3	3	3	4	4	2.1
NO	308	350	414	465	527	554	586	594	1.5
CH	252	262	279	307	335	394	452	467	3.2
BA							80	85	5.9
ME						14	20	21	7.9
MD				82	131	165	186	191	2.7
MK		23	25	18	33	39	45	49	10.2
AL		29	46	47	84	50	49	59	21.6
RS				118	152	140	256	269	4.9
TR		830	1 352	2 152	3 125	4 060	4 798	5 002	4.2
UA									
UK	2 706	2 565	2 928	3 552	3 797	4 242	4 858	5 070	4.4

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

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

HR: from 2009 light vans are included in passenger cars and no longer in Goods Vehicles.

EE, FR: include special purpose vehicles.

## Road

2.6.5

## POWERED TWO-WHEELERS

## STOCK OF REGISTERED VEHICLES

	1 000							%
	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>		<b>22 848.7</b>	<b>29 056.9</b>	<b>31 604.4</b>	<b>32 789.3</b>	<b>36 260.9</b>	<b>37 309.7</b>	<b>2.9</b>
BE		277.8	346.3	419.0	465.8	718.56	762.58	6.1
BG	519.3	520.5	146.5	125.4	163.3	206.30	212.90	3.2
CZ	915.0	1 178.6	1 254.0	1 402.0	1 531.7	1 680.3	1 701.1	1.2
DK	58.0	138.3	171.9	203.6	198.0	195.9	196.9	0.6
DE	3 995.5	4 438.1	5 202.9	3 827.9	4 228.2	4 661.6	4 780.9	2.6
EE	3.3	6.7	10.2	19.7	45.5	60.7	63.6	4.9
IE	23.5	30.6	34.3	38.1	37.0	44.8	46.6	4.1
EL		781.4	1 124.2	1 499.1	1 619.6	1 637.6	1 675.8	2.3
ES	1 301.2	1 445.6	4 117.6	4 997.7	5 102.7	5 627.7	5 724.6	1.7
FR	2 289.0	2 410.0	2 475.3	3 561.0	2 694.2	2 700.0	2 778.0	2.9
HR	9.9	21.9	128.4	176.8	151.3	158.9	161.5	1.6
IT	6 228.3	7 826.9	9 298.4	8 855.0	8 965.6	9 630.9	10 129.3	5.2
CY	50.4	43.3	40.4	40.7	39.3	40.4	41.1	2.0
LV	15.8	20.7	32.5	36.7	49.3	64.4	69.1	7.3
LT	20.0	19.8	24.0	56.3	37.8	60.9	69.5	14.1
LU	28.4	32.8	37.7	42.1	28.3	32.2	33.7	4.5
HU		91.2	122.7	142.3	162.8	194.6	202.5	4.1
MT	17.4	12.4	12.0	14.7	19.2	32.1	35.9	11.7
NL	855.0	970.8	1 112.9	1 664.3	1 803.4	1 993.1	1 887.3	-5.3
AT	546.4	632.7	627.7	727.9	799.9	884.5	909.5	2.8
PL	929.0	803.0	1 091.2	1 935.1	2 531.5	3 069.2	3 169.0	3.3
PT	216.3	345.9	588.4	498.0	527.6	691.3	727.5	5.2
RO	327.7	239.2	197.4	85.2	112.9	162.1	175.8	8.5
SI	8.5	11.2	48.7	91.0	100.3	140.3	145.4	3.6
SK	81.8	45.6	56.4	87.9	120.6	154.4	162.1	5.0
FI	159.5	193.4	301.8	486.8	581.1	636.5	646.1	1.5
SE	264.2	310.1	453.1	570.2	672.5	781.8	801.2	2.5
IS	1.9	2.3	4.2	9.7	10.4	13.0	13.0	0.0
LI		2.6	3.1	3.7	4.3	4.9	4.9	-0.6
NO	158.6	201.6	257.5	315.5	354.3	384.6	387.7	0.8
CH	688.5	712.7	748.0	790.8	871.3	1 001.0	1 033.3	3.2
BA								
ME					4.2	5.8	6.3	8.6
MD								
MK			1.7	7.8	10.1	12.8	15.8	23.4
AL	6.9	3.8	7.2	24.0	33.1	40.9	45.2	10.4
RS			16.0	37.9	64.2	77.0	80.1	4.0
TR	819.9	1 011.3	1 441.1	2 389.5	2 938.4	3 512.6	3 744.4	6.6
UA								
UK	714.0	971.0	1 235.0	1 264.4	1 253.1	1 297.8	1 341.6	3.4

**NB:** Stock at end of year, except for BE:1 August, CH:30 September, LI:1 July.  
 National vehicle stock data do not always include all powered two-wheelers and are therefore not fully comparable between countries.  
 Tricycles and quads are sometimes included in the data.  
 SE data includes cross-country scooters.  
 CH: mopeds include fast e-bikes.  
 Break in time series due to inclusion of mopeds from 2001 in ES, from 2002 in SI and HR, from 2004 in LV, from 2005 in PL, from 2007 in LT, from 2009 in SK, from 2011 in EE, from 2017 in BE.  
 CZ: Revision in 2022 of the whole time series due to inclusion of the mopeds.

Sources: Eurostat [road\_eqs\_carage, tran\_r\_vehst], national statistics, Association des constructeurs européens de motocycles (ACEM) for FR (2017 data)

## 2.6.6

# Road

## PASSENGER CARS

## NEW VEHICLE REGISTRATIONS

1 000						%			CHANGE '21/'22
						Zero-emission vehicles*			
	2010	2015	2020	2021	2022	2020	2021	2022	
EU-27	11 407.4	11 100.9	9 952.7	9 711.4	9 267.2	5.4	9.1	12.0	-4.6
BE	547.3	501.1	431.5	383.1	366.3	3.5	5.9	10.3	-4.4
BG	15.6	23.5	22.4	24.5	28.7	1.2	0.1	3.6	16.9
CZ	169.6	230.8	203.0	206.9	192.1	1.6	1.5	2.0	-7.1
DK	153.6	207.7	198.2	185.3	148.3	7.2	13.5	20.8	-20.0
DE	2 916.3	3 206.0	2 917.7	2 622.1	2 651.4	6.7	13.6	17.5	1.1
EE	10.3	20.3	18.8	22.3	21.6	1.8	2.2	3.2	-3.4
IE	88.4	124.7	89.9	104.6	105.4	4.5	8.8	14.9	0.7
EL	141.5	72.9	80.9	101.0	105.3	0.8	2.2	2.8	4.3
ES	982.0	1 041.3	851.2	859.5	813.4	2.2	2.8	3.9	-5.4
FR	2 251.7	1 917.5	1 650.1	1 659.0	1 529.0	6.7	9.7	13.3	-7.8
HR	46.2	34.8	36.0	44.9	43.0	1.5	2.5	3.0	-4.4
IT	1 961.6	1 578.6	1 379.5	1 457.2	1 316.4	2.2	4.7	3.8	-9.7
CY	15.1	10.3	10.1	10.6	11.6	0.4	0.7	3.1	9.4
LV	6.4	13.8	13.9	14.3	16.7	2.5	3.3	6.4	16.7
LT	8.0	17.1	40.2	31.4	25.5	1.2	4.1	5.9	-18.6
LU	49.7	46.5	45.2	44.4	42.1	5.5	10.5	15.8	-5.1
HU	43.5	77.2	128.0	121.9	111.5	2.4	3.5	1.2	-8.5
MT	4.1	13.0	11.1	10.4	9.6	1.6	4.0	1.9	-7.2
NL	482.6	449.4	358.0	323.9	313.6	20.4	19.7	23.3	-3.2
AT	328.6	308.6	248.7	239.8	215.1	6.4	13.9	15.9	-10.3
PL	333.5	355.0	428.3	447.6	419.7	0.9	1.6	2.7	-6.2
PT	223.5	178.5	145.4	146.6	156.3	5.4	9.2	11.4	6.6
RO	106.3	81.2	126.4	120.7	129.3	2.3	5.3	8.9	7.2
SI	61.1	59.5	53.5	54.0	46.3	3.2	3.2	4.9	-14.2
SK	64.0	78.0	76.3	75.7	79.1	1.2	1.5	1.9	4.4
FI	107.3	108.8	96.4	98.5	81.7	4.4	10.3	17.8	-17.1
SE	289.7	345.0	292.0	301.0	288.1	9.6	19.1	33.1	-4.3
IS	3.1	14.0	9.4	12.8	16.6	27.0	33.5	41.2	30.4
LI		2.0	1.7	1.7	1.7	3.3	3.3	6.0	0.0
NO	127.8	150.7	141.4	176.3	174.3	54.3	64.5	79.3	-1.1
CH	292.5	323.9	236.8	238.5	226.0	8.2	13.3	17.7	-5.2
ME	8.6	13.7	16.4	14.3					
MK	49.3	29.3	30.0	39.4					
AL			43.7	58.2					
RS		112.6	166.2	181.0	159.6				-11.8
TR	485.6	725.6	772.8	709.9	694.4	0.1	0.4	1.0	-2.2
UK	2 030.8	2 633.5	1 631.1	1 647.2	1 614.1	6.6	11.6	16.6	-2.0

NB: 2022 figures are provisional.

(\*) Zero-emission vehicles include battery electric vehicles and fuel cell electric vehicles, powered by hydrogen.

## Road

### GOODS VEHICLES

2.6.7

#### NEW VEHICLE REGISTRATIONS

	LIGHT GOODS VEHICLES (< 3.5 T)			HEAVY GOODS VEHICLES (>3.5 T)		TOTAL GOODS VEHICLES		% CHANGE '20/'21
	2020	2021	% Zero-emission vehicles	2020	2021	2020	2021	
<b>EU-27</b>	<b>1 287 460</b>	<b>1 422 796</b>	<b>2.8</b>	<b>234 404</b>	<b>270 972</b>	<b>1 521 864</b>	<b>1 693 768</b>	<b>11.3</b>
BE	71 499	71 769	0.9	7 622	8 295	79 121	80 064	1.2
BG	5 000	6 155	0.1	6 501	3 483	11 501	9 638	-16.2
CZ	15 045	19 407	0.8	8 392	7 963	23 437	27 370	16.8
DK	31 079	31 551	4.5	5 031	6 097	36 110	37 648	4.3
DE	259 580	257 742	4.8	61 454	65 200	321 034	322 942	0.6
EE	3 302	4 183	0.6	505	775	3 807	4 958	30.2
IE	20 191	26 914	2.5	1 768	1 840	21 959	28 754	30.9
EL	6 833	10 431	0.1	563	568	7 396	10 999	48.7
ES	135 170	146 263	1.8	19 373	20 544	154 543	166 807	7.9
FR	302 332	321 676	2.5	37 989	40 173	340 321	361 849	6.3
HR	6 756	4 763	0.0	906	957	7 662	5 720	-25.3
IT	140 783	172 259	2.0	14 999	21 903	155 782	194 162	24.6
CY	1 440	1 940	0.1	85	83	1 525	2 023	32.7
LV	2 164	2 604	1.0	778	1 500	2 942	4 104	39.5
LT	2 239	3 139	0.3	4 597	7 806	6 836	10 945	60.1
LU	4 420	4 560	2.5	991	1 054	5 411	5 614	3.8
HU	21 972	22 932	1.2	5 419	7 059	27 391	29 991	9.5
MT	557	604	6.6	79	13	636	617	-3.0
NL	60 395	68 405	4.6	9 402	10 700	69 797	79 105	13.3
AT	36 545	58 806	4.0	5 676	6 680	42 221	65 486	55.1
PL	59 649	74 290	0.1	20 686	32 684	80 335	106 974	33.2
PT	26 993	28 097	1.3	4 635	4 457	31 628	32 554	2.9
RO	13 730	16 168	0.2	4 504	6 389	18 234	22 557	23.7
SI	8 033	9 688	0.5	1 346	1 925	9 379	11 613	23.8
SK	6 371	8 252	0.5	1 719	2 868	8 090	11 120	37.5
FI	12 842	12 893	2.6	3 808	3 936	16 650	16 829	1.1
SE	32 540	37 305	7.3	5 576	6 020	38 116	43 325	13.7
IS	1 326	1 595	6.0	425	513	1 751	2 108	20.4
LI	194	208	4.8	36	30	230	238	3.5
NO	30 807	32 723	17.0	5 919	5 751	36 726	38 474	4.8
CH	28 504	29 502	5.3	3 926	3 912	32 430	33 414	3.0

**NB:** Heavy goods vehicles include lorries > 3.5 t and road tractors.

## 2.6.8

# Road

## BUSES AND COACHES

## NEW VEHICLE REGISTRATIONS

									%	
									Zero-emission vehicles	CHANGE '20/'21
	2014	2015	2016	2017	2018	2019	2020	2021	2021	
<b>EU-27</b>	<b>31 338</b>	<b>37 043</b>	<b>35 096</b>	<b>36 640</b>	<b>37 177</b>	<b>38 868</b>	<b>29 717</b>	<b>31 296</b>	<b>8.8</b>	<b>5.3</b>
BE	1 142	925	714	871	1 062	1 313	792	944	3.1	19.2
BG	511	379	363	363	416	362	181	270	25.6	49.2
CZ	1 452	1 428	1 070	828	318	1 301	1 383	1 253	0.2	-9.4
DK	798	835	1 039	1 293	762	884	440	746	30.0	69.5
DE	5 651	6 137	6 683	6 697	6 687	6 437	6 460	6 474	9.4	0.2
EE	187	232	171	212	142	201	223	269	0.0	20.6
IE	286	417	555	468	599	574	267	513	0.6	92.1
EL	168	123	191	176	238	361	289	446	0.0	54.3
ES	2 115	2 890	3 564	3 834	3 705	3 530	2 169	1 951	6.7	-10.1
FR	5 896	7 344	6 594	6 338	6 228	6 738	6 026	6 808	9.1	13.0
HR	98	133	182	200	242	314	106	119	1.3	12.3
IT	2 493	2 479	2 586	3 405	4 451	4 312	2 961	4 091	6.5	38.2
CY	10	37	55	47	45	19	246	20	0.0	-91.9
LV	212	281	222	287	178	130	164	258	13.2	57.3
LT	291	195	263	392	696	515	315	139	2.1	-55.9
LU	159	251	205	239	218	283	214	167	17.4	-22.0
HU	524	625	488	713	761	789	700	1 086	4.3	55.1
MT	10	179	65	49	22	75	148	87	6.9	-41.2
NL	669	344	840	887	562	935	643	338	55.9	-47.4
AT	900	899	1 043	1 244	1 125	1 163	872	887	1.2	1.7
PL	3 616	5 695	4 203	4 237	4 847	3 598	1 486	1 362	5.4	-8.3
PT	237	252	350	354	535	518	469	586	5.7	24.9
RO	1 177	2 468	1 116	1 027	1 323	1 953	819	717	13.4	-12.5
SI	178	171	198	191	181	195	64	99	0.0	54.7
SK	453	375	368	401	356	308	297	533	0.2	79.5
FI	691	526	586	514	475	593	284	382	50.0	34.5
SE	1 414	1 423	1 382	1 373	1 003	1 467	1 699	751	24.4	-55.8
IS	104	110	85	272	180	119	44	43	0.0	-2.3
LI	4	8	10	4	6	5	2	21		950.0
NO	1 094	1 111	1 483	1 293	1 099	2 387	1 441	1 118	9.2	-22.4
CH	847	1 153	886	874	850	804	797	827	6.7	3.8

NB: 'Buses and coaches' includes trolleybuses



## Road MOTORCYCLES

2.6.9

### NEW VEHICLE REGISTRATIONS

	1 000							%
	1995	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>			<b>1229.0</b>	<b>1000.0</b>	<b>794.7</b>	<b>1014.9</b>	<b>1086.5</b>	<b>7.1</b>
BE		25.3	25.0	26.4	21.6	25.1	24.7	-1.5
BG		1.2	0.6	0.9	0.8	0.8	0.9	14.2
CZ	6.9	3.9	7.6	5.4	13.4	17.4	17.8	2.3
DK	2.3	3.3	5.8	2.6	2.2	3.7	3.8	3.7
DE	218.2	252.6	168.7	122.3	151.7	220.4	199.1	-9.7
EE		0.1	0.3	0.5	0.5	0.8	0.9	20.9
IE		3.8	2.4	1.1	1.0	1.6	2.3	38.9
EL		64.0	83.1	61.5	32.5	34.6	43.3	25.3
ES		72.0	205.6	134.3	132.5	156.2	166.5	6.6
FR		179.6	196.6	231.6	153.2	190.7	207.0	8.5
HR			6.7	2.9	1.5	2.7	1.0	-63.9
IT		524.6	420.5	306.3	172.1	218.1	269.6	23.6
CY			2.5	3.1	1.7	2.5	2.9	15.7
LV			0.4	0.3	0.6	1.0	1.2	19.7
LT		0.4	1.7	0.2	0.3	0.7	1.1	57.9
LU	1.0	1.3	1.3	1.6	1.7	2.4	2.6	5.9
HU			12.5	3.2	2.1	4.3	4.7	7.7
MT			0.4	0.6	1.3	2.4	4.2	77.5
NL	17.8	19.6	16.8	15.2	11.7	14.9	16.1	8.6
AT	18.7	23.8	19.1	21.4	24.9	32.5	33.0	1.6
PL			3.8	8.7	23.9	21.8	21.8	-0.2
PT	12.1	17.7	11.2	18.9	17.6	29.0	34.0	17.4
RO			0.8	1.6	1.3	5.8	6.2	7.2
SI		1.2	2.5	2.7	1.9	2.0	0.0	-99.4
SK			1.2	2.3	5.3	5.2	6.0	14.4
FI		5.2	9.2	9.5	3.2	3.7	3.7	-0.2
SE		18.4	22.8	14.8	14.4	14.4	12.0	-17.0
IS		0.2	1.1			0.2	0.2	-2.2
NO			6.2	7.0	6.8	11.4	11.8	3.3
CH		30.6	40.2	38.2	47.7	46.2	52.8	14.4
BA						0.4	0.7	57.2
ME					0.7	0.8	1.3	71.5
MD								
MK	1.0	0.5	0.1	3.2	2.4	4.1	4.7	15.1
AL								
RS				8.0	3.9	5.9	5.9	-0.1
TR			227.7	135.6	162.8	107.9	139.8	29.5
UA								
UK		121.9	108.1	81.3	105.7	97.3	107.3	10.2

NB: SE: Since 2010 national figures are used.

MT: including e-bicycles.

## 2.6.10

Road  
MOPEDS

## NEW VEHICLE DELIVERIES

	1 000						%
	2000	2005	2010	2015	2020	2021	CHANGE '20/'21
<b>EU-27</b>				<b>337.8</b>	<b>373.3</b>	<b>350.0</b>	<b>-6.2</b>
BE	33.2	17.3	14.2	12.4	28.5	26.8	-6.0
BG	2.1	1.1	2.1	0.8	0.4	0.5	3.2
CZ		8.0	2.9	1.5	1.2	1.2	2.3
DK	9.8	4.9	17.6	8.0	8.6	7.9	-8.3
DE	108.7	97.3	64.9	32.6	23.9	24.1	0.8
EE		8.0	0.0	0.7	0.5	0.5	-1.9
IE	3.0	0.8	0.2	0.2	0.2	0.2	29.7
EL	19.2	24.1	18.9	8.6	2.7	3.4	25.3
ES	248.6	115.1	34.2	16.0	22.7	18.9	-16.8
FR	192.3	154.9	144.5	89.6	99.1	100.9	1.9
HR		13.2	6.4	2.6	2.1	0.5	-74.8
IT	311.8	128.3	90.2	24.6	21.4	20.2	-5.6
CY		2.1	0.5	0.2	0.2	0.2	0.4
LV		0.6	1.0	1.0	0.7	0.6	-7.9
LT			1.2	1.7	0.6	0.9	45.0
LU	0.5	0.5	0.7	0.9	0.4	0.4	0.0
HU			3.6	3.3	3.7	4.0	7.7
MT				0.0	0.1	0.9	616.7
NL	66.9	40.9	90.7	66.0	84.7	74.0	-12.7
AT	21.3	27.7	24.9	13.8	14.0	23.0	64.5
PL		23.3	72.2	30.4	18.3	18.6	1.6
PT	15.0		4.6	2.6	2.3	1.8	-20.5
RO			1.1	0.0	0.0	0.0	9.1
SI		3.1	3.5	2.3	5.2	5.7	8.4
SK		2.0	1.8	0.4	0.2	0.3	23.9
FI	6.4	20.9	17.9	7.0	6.9	4.4	-36.5
SE	10.0	15.4	13.3	10.6	24.7	10.3	-58.1
IS					0.5	0.2	-60.0
NO		11.9	8.1	7.4	3.4	3.0	-11.6
CH	19.4	3.1	3.1	0.8	1.0	1.4	36.8
BA					0.8	0.8	3.8
ME							
MD							
MK							
AL					3.4	4.1	20.0
RS			8.8	2.4	2.0	1.9	-7.2
TR			1.5	2.3	100.5	116.2	15.5
UA							
UK	48.2	24.7	14.5	9.4	6.1	7.1	

**NB:** Official statistics on mopeds are often unavailable, therefore data and estimates should be considered as indicative.

SI: Since May 2017 obligatory registration of mopeds with the maximum speed of 25 km/h.

## Sea

### EU MERCHANT FLEET

2.6.11

#### SHIPS OF 1000 gt AND OVER

On 1 January 2022								
	TOTAL FLEET CONTROLLED		NATIONAL FLAG (*)		FOREIGN FLAG (INCLUDING OTHER EU)		% OF FOREIGN FLAG IN TOTAL FLEET	
	Number	dwt (1 000)	Number	dwt (1 000)	Number	dwt (1 000)	Number	dwt
<b>EU-27</b>	<b>12 452</b>	<b>680 022</b>	<b>2 749</b>	<b>119 429</b>	<b>9 703</b>	<b>560 593</b>	<b>77.9</b>	<b>82.4</b>
BE	245	28 045	76	8 938	169	19 107	69.0	68.1
BG	67	1 786	12	104	55	1 682	82.1	94.2
CZ	-	-	-	-	-	-	-	-
DK	827	43 481	377	21 917	450	21 564	54.4	49.6
DE	2 312	79 184	157	6 850	2 155	72 334	93.2	91.3
EE	89	690	9	17	80	673	89.9	97.5
IE	98	1 765	38	368	60	1 397	61.2	79.2
EL	5 129	413 604	628	59 094	4 501	354 510	87.8	85.7
ES	194	3 815	82	451	112	3 364	57.7	88.2
FR	374	18 950	123	4 171	251	14 779	67.1	78.0
HR	81	2 470	55	1 477	26	993	32.1	40.2
IT	1 109	49 027	383	7 523	726	41 504	65.5	84.7
CY	218	8 947	53	1 750	165	7 197	75.7	80.4
LV	59	354	3	7	56	347	94.9	98.0
LT	56	254	18	104	38	150	67.9	59.1
LU	19	1 847	-	-	19	1 847	100.0	100.0
HU	-	-	-	-	-	-	-	-
MT	66	1 208	33	421	33	787	50.0	65.1
NL	899	12 765	536	4 533	363	8 232	40.4	64.5
AT	4	31	-	-	4	31	100.0	100.0
PL	99	2 637	5	15	94	2 622	94.9	99.4
PT	41	886	22	122	19	764	46.3	86.2
RO	95	1 165	2	24	93	1 141	97.9	97.9
SI	1	6	-	-	1	6	100.0	100.0
SK	-	-	-	-	-	-	-	-
FI	111	2 062	66	778	45	1 284	40.5	62.3
SE	259	5 043	71	765	188	4 278	72.6	84.8
IS	14	111	3	1	11	110	78.6	99.1
NO	1 697	76 723	663	17 072	1 034	59 651	60.9	77.7
CH	174	8 136	15	870	159	7 266	91.4	89.3
BA	-	-	-	-	-	-	-	-
ME	4	140	4	140	-	-	0.0	0.0
MK	-	-	-	-	-	-	-	-
MD	-	-	-	-	-	-	-	-
AL	26	87	8	20	18	67	69.2	77.0
RS	2	12	-	-	2	12	100.0	100.0
TR	1 517	30 680	353	5 157	1 164	25 523	76.7	83.2
UA	291	3 290	68	273	223	3 017	76.6	91.7
UK	831	42 085	167	6 534	664	35 551	79.9	84.5

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

Source: ISL, based on updates from Clarkson Research Services Limited (CRSL)

## 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	2020	2021	2022
Europe (*)	311.246	350.136	400.947	518.276	739.100	866.235	871.766	878.785
of which: EU-27 (**)	223.564	257.975	316.850	432.246	578.157	680.419	680.419	680.022
North America	51.024	49.413	45.414	50.539	82.881	87.887	91.691	90.586
Latin America	18.691	15.679	14.422	30.867	29.608	33.609	29.746	29.418
Asia / Oceania	246.722	292.722	361.311	532.446	805.594	983.390	1037.398	1050.414
Africa	6.742	7.121	5.142	6.981	13.451	15.529	15.291	16.316
Unknown	37.956	38.115	52.687	86.555	4.561	5.607	14.304	25.600
<b>TOTAL</b>	<b>672.381</b>	<b>753.226</b>	<b>879.923</b>	<b>1225.665</b>	<b>1675.195</b>	<b>1961.597</b>	<b>2024.433</b>	<b>2086.712</b>

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

EU-27 (**)	%							
Control of total	33.2	34.2	36.0	35.3	34.5	34.7	33.6	32.6
Foreign flag share (***)	56.5	68.1	67.8	69.4	75.5	82.2	82.2	82.4

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

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

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

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

## Sea – WORLD MERCHANT FLEET BY TYPE OF SHIP

2.6.12b

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

NUMBERS AND DEADWEIGHT						
On 1 January 2022	Number			dwt (1 000)		
(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
<b>TOTAL FLEET</b>	47 290	12 452	26	2 086 712	680 022	33
<b>Tankers</b>	13 791	3 503	25	756 565	260 676	34
of which:						
Crude oil and oil product tankers	6 405	1 505	23	544 082	191 166	35
Oil / chemical tankers	5 305	1 517	29	126 821	44 608	35
Liquid gas tankers	1 951	482	25	83 502	14 627	18
<b>Bulk carriers</b>	12 365	3 172	26	907 610	252 404	28
<b>Container ships</b>	5 523	2 337	42	292 166	138 022	47
<b>General cargo</b>	12 619	2 628	21	115 600	27 890	24
of which:						
Conventional cargo	8 753	1 491	17	46 175	8 380	18
Special cargo (*)	1 823	658	36	47 062	13 644	29
Pure car carriers	760	70	9	12 317	839	7
Reefer	600	128	21	3 733	1 171	31
Ro-Ro cargo	945	281	30	7 552	3 855	51
<b>Passenger and passenger cargo</b>	2 554	729	29	7 015	2 456	35

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

NUMBERS AND GROSS TONS						
On 1 January 2021	Number			gt (1 000)		
(ships of 300 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
<b>TOTAL</b>	5 369	1 400	26	45 861	17 735	39
<b>Cargo passenger and Ro-Ro passenger ships</b>	3 142	873	28	19 188	9 795	51
<b>Passenger (not Ro-Ro)</b>	2 227	527	24	26 673	7 940	30

As mid 2022 (\*\*)

(ships of 1 000 gt and over)	WORLD	EU-27	%	WORLD	EU-27	%
<b>Cruise ships by registered flag</b>	360	69	19	25 500	4 161	16

NB: (\*) Including open hatch carriers.

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

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

Reefer: refrigerated ships.

## 2.6.13

# Air

## PASSENGER AIRCRAFT

### NUMBER OF CIVIL AIRCRAFT IN SERVICE

PASSENGER AIRCRAFT					
On 31 December 2022					
	50 seats or less	51 to 150 seats	151 to 250 seats	251 seats and more	TOTAL
EU-27	109	688	1 862	442	3 101
BE		20	34	14	68
BG		11	23	2	36
CZ	4	2	31		37
DK	11	11	14	2	38
DE	3	97	211	98	409
EE	7		3		10
IE		5	287	7	299
EL	9	20	53		82
ES	5	83	215	66	369
FR	31	92	124	98	345
HR	1	11	4		16
IT		30	35	10	75
CY		1	2		3
LV	1	27	4		32
LT	3	1	4	1	9
LU		14	4		18
HU	1		128		129
MT	3	3	202	4	212
NL	3	66	76	63	208
AT	3	23	150	5	181
PL	5	43	87	12	147
PT	6	27	53	27	113
RO		16	19		35
SI	2				2
SK			2		2
FI	1	29	19	17	66
SE	10	56	78	16	160
IS	10	2	23	4	39
LI					0
NO	28	12	32		72
CH	10	41	69	16	136
BA	1				1
ME		1			1
AL		1	4		5
RS		12	2		14
TR	1	5	357	89	452
UK	46	72	357	104	579

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

## Air

2.6.14

## FREIGHT, SPECIAL, BUSINESS AIRCRAFT

## NUMBER OF CIVIL AIRCRAFT IN SERVICE

FREIGHT, SPECIAL, BUSINESS AIRCRAFT					
On 31 December 2022					
	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		
<b>EU-27</b>	<b>106</b>	<b>299</b>	<b>12</b>	<b>150</b>	<b>1 785</b>
BE		45		1	66
BG	1	6			13
CZ				1	65
DK		15	5	1	67
DE	7	95		50	446
EE	9				11
IE	7	22		1	23
EL	7			3	13
ES	28	13	3	23	54
FR		19	1	1	133
HR					7
IT	2	10		19	71
CY					9
LV	4				4
LT		1		1	8
LU		27		6	74
HU	7	1	1		19
MT	1	20			215
NL		4			33
AT	2	9		6	215
PL	14	2	2		39
PT		1		5	121
RO		1			10
SI		2			9
SK					14
FI	2	2			13
SE	15	4		32	33
IS		18		2	
LI					4
NO					11
CH	7			6	124
BA					1
ME					2
AL					1
RS					26
TR		33		20	85
UK	10	36		15	304

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

## 2.6.15

## Rail

## LOCOMOTIVES AND RAILCARS

## STOCK OF VEHICLES

	1990	2000	2005	2010	2015	2020	2021	% CHANGE '20/'21
<b>EU-27</b>		<b>49 674</b>	<b>46 374</b>	<b>53 322</b>	<b>53 495</b>	<b>56 682</b>	<b>52 477</b>	<b>-7.4</b>
BE	1 727	1 670	1 518	1 341	1 188	1 188	1 188	
BG	1 119	762	669	624	440	311	309	-0.6
CZ		3 596	3 163	2 258	2 285	2 161	1 850	-14.4
DK	524	415	464	495	881	725	725	
DE	14 437	9 656	7 742	15 613	16 613	17 010	17 314	1.8
EE	300	196	344	374	358	238	210	-11.8
IE	166	224	412	572	482	482	482	
EL	400	244	289	306	258	217	217	
ES	1 922	1 693	1 946	1 732	1 634	1 595	3 162	98.2
FR	7 422	7 158	6 948	6 849	7 614	7 838	2 331	-70.3
HR	563	480	377	284	298	267	229	-14.2
IT	4 818	4 697	4 674	4 494	2 631	1 947	2 048	5.2
CY	-	-	-	-	-	-	-	-
LV	739	433	358	196	204	157	133	-15.3
LT	389	419	365	275	240	227	231	1.8
LU	97	124	145	91	126	134	137	2.2
HU	2 040	1 453	1 385	1 275	1 225	1 071	1 035	-3.4
MT	-	-	-	-	-	-	-	-
NL	2 372	1 965	2 078	2 411	2 780	3 349	3 670	9.6
AT	1 543	1 530	1 500	2 081	1 972	2 006	2 193	9.3
PL	5 483	5 293	5 828	5 657	5 526	7 846	7 127	-9.2
PT	530	589	439	363	363	383	394	2.9
RO	4 515	3 440	2 186	2 158	2 095	2 779	2 917	5.0
SI	358	300	261	267	401	410	498	21.5
SK		1 570	1 204	1 035	978	780	439	-43.7
FI	669	735	702	644	650	641	641	0.0
SE	1 234	1 032	1 377	1 927	2 422	2 920	2 997	2.6
IS	-	-	-	-	-	-	-	-
NO	502	299	289	544	270	279	279	
CH	1 254	1 528	2 198	1 745	1 694	1 509	1 605	6.4
BA					187	188	187	-0.5
ME						37	37	
MD		193	187	182	166	166	166	
MK	92	101	73	63	53	59	67	13.6
AL					63	38	38	0.0
RS					506	255	42	-83.5
TR	897	849	735	673	864	901	901	
UA								
UK	5 610		3 177	10 710	11 347	11 347	11 347	

**NB:** Data relates to main railway undertakings.

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

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

BE: 2013 data.

UK: 2014 data.

DE: includes former GDR: 1990 = 6 331.

CZ: 1990: 6 010.



## Rail

2.6.16

## PASSENGER TRANSPORT VEHICLES

## STOCK OF COACHES, RAILCARS AND TRAILERS

	1990	2000	2005	2010	2015	2020	2021	% CHANGE '20/'21
<b>EU-27</b>		<b>100 981</b>	<b>90 831</b>	<b>90 248</b>	<b>94 149</b>	<b>93 578</b>	<b>93 749</b>	<b>0.2</b>
BE	3 286	3 494	3 251	3 412	2 345	3 838	3 838	
BG	2 386	2 099	1 558	1 369	756	667	572	-14.2
CZ		5 252	4 895	4 514	4 139	3 771	3 738	-0.9
DK	1 594	1 590	1 473	2 069	2 755	2 171	2 173	0.1
DE	24 139	21 097	20 169	18 565	18 990	17 874	17 913	0.2
EE	596	241	234	217	280	199	106	-46.7
IE	314	421	581	592	426	426	426	
EL	810	505	564	718	707	312	312	0.0
ES	3 839	4 315	5 236	5 365	4 292	4 323	4 238	-2.0
FR	15 798	15 694	15 879	13 521	23 958	26 506	25 679	-3.1
HR	1 052	720	579	523	545	527	543	3.0
IT	14 025	11 914	10 066	12 465	9 762	8 598	8 273	-3.8
CY	-	-	-	-	-	-	-	-
LV	1 226	702	490	238	374	370	370	0.0
LT	664	563	467	337	217	165	157	-4.8
LU	114	149	185	214	242	255	255	0.0
HU	4 385	3 232	2 787	3 136	2 495	2 042	1 682	-17.6
MT	-	-	-	-	-	-	-	-
NL	2 268	2 742	852	2 824	2 791	3 274	3 593	9.7
AT	3 689	3 468	3 112	2 974	2 646	2 935	2 916	-0.6
PL	11 928	9 761	8 843	7 885	7 409	6 392	7 113	11.3
PT	1 232	1 303	1 125	965	977	988	1 100	11.3
RO	6 352	6 234	3 310	3 037	2 329	1 702	2 317	36.1
SI	606	461	401	355	349	356	442	24.2
SK		2 273	1 808	1 530	1 406	1 377	1 377	
FI	957	1 003	1 084	1 071	1 101	1 226	1 226	
SE	1 747	1 748	1 882	2 352	2 858	3 284	3 390	3.2
IS	-	-	-	-	-	-	-	-
NO	900	918	191	210	386	394	394	
CH	4 136	3 333	4 293	4 949	5 245	5 940	5 707	-3.9
BA		300	180	187	132	188	188	0.0
ME			83	68	68	27	24	-11.1
MD		582	548	458	324	264	264	
MK	175	164	125	64	67	67	40	-40.3
AL		99	88	88	88	88	88	
RS			784	784	817	464	464	
TR	1 443	1 415	1 312	1 342	1 467	1 338	640	-52.2
UA		8 667	11 812	7 315	5 226	4 032	4 032	
UK		10 424	10 934	11 751	12 304	12 304	12 304	

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

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

BE: 2017 data.

UK: 2014 data.

DE: includes former GDR: 1990=9635.

CZ: 1990=8597.

## 2.6.17

## Rail

## GOODS TRANSPORT WAGONS

## STOCK OF VEHICLES

	1990	2000	2005	2010 (*)	2015 (*)	2020	2021
<b>EU-27</b>							
BE	30 332	18 790	17 375	11 612	11 612	7 123	5 225
BG	42 459	29 720	16 511	11 751	4 572	4 838	4 873
CZ		58 524	44 545	27 416	25 863	21 611	20 600
DK	4 632	2 236					
DE	366 724	189 558	158 247	108 840	88 066	78 101	76 873
EE		5 857	18 971	17 575	21 501	22 852	22 678
IE	1 830	1 856	926	502	254	254	254
EL	10 967	3 453	3 491	3 158	3 522	715	715
ES	37 687	26 452	23 842	14 337	11 353	10 162	9 980
FR	148 100	94 789	95 738	25 314	14 052	13 976	11 734
HR	13 720	9 986	7 330	6 674	5 519	5 251	4 969
IT	99 728	70 115	45 730	30 331	20 270	13 173	10 168
CY	-	-	-	-	-	-	-
LV	11 085	9 146	8 871	9 033	9 807	6 107	5 981
LT	12 860	13 155	13 192	9 238	8 574	7 514	7 176
LU	2 719	2 626	3 222	4 147	3 006	3 154	3 154
HU		23 528	19 130	11 357	8 916	8 640	8 806
MT	-	-	-	-	-	-	-
NL	6 697	4 700					
AT	34 330	23 970	22 655	21 015	19 294	17 511	17 510
PL	275 582	130 116	103 234	89 270	86 364	83 011	81 776
PT	4 579	4 162	3 495	3 194	3 283	2 719	2 298
RO	166 086	117 982	65 175	72 605	36 858	32 905	32 840
SI	8 692	6 258	4 465	3 211	3 049	2 693	2 581
SK		26 975	25 515	15 260	15 533	12 968	11 520
FI	15 200	12 630	11 216	10 464	8 854	8 741	8 741
SE	27 470	17 596	16 637	15 166			
IS	-	-	-	-	-	-	-
NO							
CH	27 104	19 894	18 339	8 794	6 467	5 344	5 057
BA					4 792	4 243	4 243
ME	-	-	-	-	-	561	561
MD		10 577		7 835	6 866	4 586	4 586
MK			1 525	1 144	1 161	1 204	1 204
AL					360	165	165
RS					8 486	4 727	4 727
TR	21 941	17 872	17 499	17 773	19 077	16 951	16 476
UA		185 741	150 254	184 107	173 370	105 859	105 859
UK	34 403						

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

Data relate to main railways (UIC members).

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

BE: 2009 data (UIC).

DE: includes former GDR: 1990 = 163 158.

## Road fatalities

## 2.7.1

	1990	2000	2005	2010	2015	2020	2021	CHANGE '20/'21	% CHANGE '01/'21
<b>EU-27</b>	<b>71 774</b>	<b>53 502</b>	<b>42 607</b>	<b>29 611</b>	<b>24 358</b>	<b>18 836</b>	<b>19 917</b>	<b>5.7</b>	<b>-61.2</b>
BE	1 976	1 470	1 089	850	762	499	516	3.4	-65.3
BG	1 567	1 012	957	776	708	463	561	21.2	-44.5
CZ	1 291	1 486	1 286	802	734	518	532	2.7	-60.1
DK	634	498	331	255	178	163	130	-20.2	-69.8
DE	11 046	7 503	5 361	3 648	3 459	2 719	2 562	-5.8	-63.3
EE	436	204	170	79	67	59	55	-6.8	-72.4
IE	478	418	400	212	162	147	137	-6.8	-66.7
EL	1 737	2 037	1 658	1 258	793	584	624	6.8	-66.8
ES	9 032	5 777	4 442	2 479	1 689	1 370	1 533	11.9	-72.2
FR	11 215	8 079	5 318	3 992	3 459	2 538	2 931	15.5	-64.1
HR	1 360	655	597	426	348	237	292	23.2	-54.9
IT	7 151	7 061	5 818	4 114	3 428	2 395	2 875	20.0	-59.5
CY	101	111	102	60	57	48	45	-6.3	-54.1
LV	947	635	442	218	188	139	147	5.8	-73.7
LT	1 001	641	773	299	242	175	148	-15.4	-79.0
LU	71	76	47	32	36	26	24	-7.7	-65.7
HU	2 432	1 200	1 278	740	644	460	544	18.3	-56.1
MT	4	15	17	13	11	12	9	-25.0	-43.8
NL	1 376	1 082	750	537	531	515	509	-1.2	-48.7
AT	1 558	976	768	552	479	344	362	5.2	-62.2
PL	7 333	6 294	5 444	3 908	2 938	2 491	2 245	-9.9	-59.4
PT	2 646	1 877	1 247	937	593	536	561	4.7	-66.4
RO	3 782	2 466	2 629	2 377	1 893	1 644	1 779	8.2	-27.4
SI	517	314	258	138	120	80	114	42.5	-59.0
SK	662	628	606	371	310	247	247	0.0	-59.8
FI	649	396	379	272	270	223	225	0.9	-48.0
SE	772	591	440	266	259	204	210	2.9	-64.0
IS	24	32	19	8	16	8	9	12.5	-62.5
NO	332	341	224	208	117	93	80	-14.0	-70.9
CH	954	592	409	327	253	227	200	-11.9	-63.2
BA		302	371	355	341	243	263	8.2	3.5
ME				95	51	48	55	14.6	
MD		406	391	452	300	245	257	4.9	-38.8
MK		162	143	162	148	125	116	-7.2	8.4
AL		280	307	352	270	181	197	8.8	-33.7
RS				656	601	492	521	5.9	
TR	6 317	5 510	4 505	4 045	7 530	4 866	5 362	10.2	22.3
UA		5 185	7 229	4 875	4 003	3 541	3 238	-8.6	-45.9
UK	5 402	3 580	3 336	1 905	1 804	1 528	1 528		

**NB:** Persons killed are all persons deceased within 30 days of the crash. 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 crash (break in series). As of 2018 PT includes data for Azores and Madeira. For the NL, the number of fatalities registered by the police is under-reported and equates to around 85-90% of the total number of fatalities published nationally (total in 2021 was 582).

## 2.7.2 Road fatalities country rankings

### FATALITIES

2021					
per million inhabitants		per 10 billion pkm		per million passenger cars	
MT	17	DK	22	MT	29
SE	20	SE	23	SE	42
DK	22	IE	25	DK	47
IE	27	LU	31	DE	53
NL	29	DE	32	LU	55
DE	31	MT	34	NL	58
ES	32	FI	35	IE	61
LU	37	FR	40	FI	62
AT	40	EE	40	ES	62
FI	41	NL	43	EE	67
EE	41	SI	44	AT	71
FR	43	LT	47	IT	72
BE	45	AT	51	FR	76
EU-27	45	EU-27	52	CY	77
SK	45	IT	52	EU-27	79
IT	49	ES	52	BE	87
CY	50	BE	53	CZ	88
CZ	51	CZ	58	PL	88
LT	53	EL	60	LT	93
SI	54	PT	62	SI	97
PT	54	CY	68	SK	100
HU	56	HU	79	PT	100
EL	59	SK	88	EL	112
PL	59	PL	95	HU	137
HR	74	LV	104	HR	165
LV	78	BG	105	LV	196
BG	82	HR	118	BG	197
RO	93	RO	156	RO	239

**NB:** Fatalities: all fatalities on the road: car drivers and passengers, bus and coach occupants, powered two-wheelers' riders and passengers, cyclists, pedestrians, commercial vehicle drivers, etc. indicated in table 2.7.1.  
 Pkm: indicator of traffic volume (in the absence of consistent vehicle-kilometre data); passenger-kilometres of cars indicated in table 2.3.4 plus (mostly estimated) passenger-kilometres of motorised two-wheelers.  
 Inhabitants: the average population in 2021, Eurostat [demo\_gind]  
 Passenger cars: the average stock of vehicles indicated in table 2.6.2 for 2020 and 2021.

## Road fatalities

### BY TYPE OF USER

2.7.3a

	YEAR	TOTAL	DRIVERS	PASSENGERS	CYCLISTS	MOPED/MOTOR-BIKE RIDERS AND PASSENGERS	PEDESTRIANS	VULNERABLE ROAD USERS AS % OF TOTAL	PEDESTRIANS AS % OF TOTAL
BE	2021	516	218	51	87	78	75	47%	15%
BG	2021	561	232	167	17	49	94	29%	17%
CZ	2021	532	205	70	64	89	104	48%	20%
DK	2021	130	61	8	25	17	19	47%	15%
DE	2021	2 562	1 052	265	372	529	344	49%	13%
EE	2021	55	29	2	7	3	13	42%	24%
IE	2018	137	52	19	9	15	40	47%	29%
EL	2021	624	217	63	14	235	95	55%	15%
ES	2021	1 533	585	189	63	395	301	50%	20%
FR	2021	2 931	1 248	387	227	668	401	44%	14%
HR	2021	292	111	51	28	64	37	44%	13%
IT	2021	2 875	1 132	290	220	762	471	51%	16%
CY	2020	45	16	4	1	14	13	62%	29%
LV	2020	147	48	23	17	8	43	46%	29%
LT	2021	148	61	37	11	11	28	34%	19%
LU	2021	24	10	6	0	3	5	33%	21%
HU	2021	544	202	125	53	67	97	40%	18%
MT	2020	9	1	0	0	10	1	122%	11%
NL	2021	509	185	-	145	91	43	55%	8%
AT	2021	362	132	55	50	88	37	48%	10%
PL	2021	2 245	871	393	185	269	527	44%	23%
PT	2021	561	209	76	34	142	100	49%	18%
RO	2021	1 779	578	381	149	86	583	46%	33%
SI	2021	114	42	14	10	33	15	51%	13%
SK	2021	247	97	42	17	31	60	44%	24%
FI	2021	225	119	26	24	32	24	36%	11%
SE	2020	210	98	33	16	32	25	35%	12%

**NB:** Persons deceased within 30 days of the crash.  
 Totals include the victims labelled as 'Unknown'.  
 Vulnerable road users comprise pedestrians, cyclists, moped and motorbike riders.  
 NL - 2021 data on passengers not available.

## 2.7.3b Road fatalities of vehicle occupants

### BY TYPE OF VEHICLE

	YEAR	TOTAL	CAR & TAXI	MOTOR CYCLE	MOPED	BUS AND COACH	PEDAL CYCLE	AGRICULTURAL TRACTOR	HEAVY GOODS VEHICLE	LORRY, <3.5 TONNES	OTHER OR UNKNOWN
BE	2021	441	213	62	16	3	87	2	15	28	15
BG	2021	467	307	45	4	49	17	0	22	0	23
CZ	2021	428	244	85	4	1	64	0	15	12	3
DK	2021	111	54	12	5	0	25	0	2	10	3
DE	2021	2 218	1 118	473	56	5	372	16	76	64	38
EE	2021	42	22	3	0	0	7	0	2	-	8
IE	2018	95	59	15	-	1	9	1	7	-	3
EL	2021	529	226	214	21	1	14	7	6	39	1
ES	2021	1 232	611	357	38	5	63	17	33	83	25
FR	2021	2 530	1 414	572	96	4	227	13	44	103	57
HR	2021	255	129	58	6	10	28	5	1	10	8
IT	2021	2 404	1 192	695	67	2	220	17	75	94	42
CY	2020	35	18	14	0	0	1	1	1	0	0
LV	2020	96	64	6	2	0	17	2	3	1	1
LT	2021	120	87	10	1	0	11	2	7	0	2
LU	2021	19	15	3	0	0	0	0	0	1	0
HU	2021	447	267	55	12	17	53	-	10	32	1
MT	2020	11	1	10	0	0	0	-	0	0	0
NL	2021	466	180	53	38	1	145	0	1	11	37
AT	2021	325	161	75	13	1	50	4	4	15	2
PL	2021	1 718	1 094	215	54	11	185	15	34	94	16
PT	2021	461	203	113	29	0	34	17	5	41	19
RO	2021	1 196	800	62	24	8	149	7	13	69	64
SI	2021	99	32	27	6	0	10	3	1	4	16
SK	2021	187	129	23	8	0	17	1	1	4	4
FI	2021	201	127	28	4	0	24	1	3	9	5
SE	2020	179	106	28	4	0	16	1	1	15	8

**NB:** Persons deceased within 30 days of the crash.  
 Pedestrians killed are excluded from this table (see 2.7.3a).  
 For SK, motor cycle figures are included under 'Other or unknown'.

## Road accidents

2.7.4

## NUMBER OF ACCIDENTS INVOLVING PERSONAL INJURY

	1 000								% CHANGE '20/'21
	1990	1995	2000	2005	2010	2015	2020	2021	
<b>EU-27</b>	<b>1236.477</b>	<b>1195.684</b>	<b>1263.536</b>	<b>1138.269</b>	<b>973.596</b>	<b>944.253</b>	<b>750.855</b>	<b>822.454</b>	<b>9.5</b>
BE	62.446	50.744	49.065	49.307	45.745	40.300	30.232	34.640	14.6
BG	6.478	7.435	6.886	8.224	6.610	7.226	5.710	6.080	6.5
CZ	21.910	28.746	25.445	25.239	19.675	21.561	18.419	18.156	-1.4
DK	9.155	8.373	7.346	5.413	3.498	2.853	2.527	2.402	-4.9
DE	389.350	388.003	382.949	336.618	288.297	305.659	264.499	258.987	-2.1
EE	2.099	1.644	1.504	2.341	1.348	1.391	1.409	1.538	9.2
IE	6.067	8.117	7.749	6.533	5.779	5.831	6.057	6.057	
EL	19.609	22.798	23.001	16.914	15.032	11.440	9.083	10.454	15.1
ES	101.507	83.586	101.729	91.187	85.503	97.756	72.959	89.862	23.2
FR	162.573	132.949	121.223	84.525	67.288	56.600	45.117	53.521	18.6
HR	14.471	12.668	14.430	15.679	13.274	11.038	7.709	9.146	18.6
IT	161.782	182.761	256.546	240.011	212.997	174.539	118.298	151.875	28.4
CY	3.172	3.052	2.411	1.382	1.198	660	341	341	
LV	4.325	4.056	4.482	9.310	3.193	3.692	3.403	3.403	
LT	5.135	4.144	5.807	6.772	3.530	3.031	2.826	2.808	-0.6
LU	1.216	1.145	0.899	0.775	876	983	771	916	18.8
HU	27.801	19.817	17.493	20.777	16.308	16.331	13.778	14.233	3.3
MT	0.238	0.969	1.253	0.848	577	1.377	1.004	1.004	
NL	44.892	42.641	42.271	27.007	10.778	18.523	17.043	18.449	8.2
AT	46.338	38.956	42.126	40.896	35.348	37.960	30.670	32.774	6.9
PL	50.532	56.904	57.331	48.100	38.832	32.967	23.540	22.816	-3.1
PT	45.110	48.339	44.463	37.066	35.426	31.953	27.725	30.691	10.7
RO	9.708	9.119	7.889	19.819	25.995	28.944	22.806	26.805	17.5
SI	5.177	6.567	8.951	10.509	7.659	6.578	4.776	5.326	11.5
SK	8.236	8.713	7.884	7.903	6.131	5.172	4.302	4.302	
FI	10.175	7.812	6.633	7.020	6.072	5.185	3.608	3.243	-10.1
SE	16.975	15.626	15.770	18.094	16.627	14.703	12.243	12.625	
IS	0.564	1.057	0.979	0.671	883	912	727	873	20.1
NO	8.801	8.625	8.440	8.088	6.434	4.563	3.502	3.620	3.4
CH	23.834	23.030	23.737	21.706	19.609	17.736	16.897	17.436	3.2
BA				4.417	7.127	7.627	6.317	6.874	8.8
ME					9.138	4.944	4.595	6.109	32.9
MD		2.695	2.580	2.290	2.929	2.559	2.005	2.548	27.1
MK	2.300	2.436	1.667	2.821	4.223	3.854	3.696	4.069	10.1
AL		0.399	0.428	0.853	1.564	1.992	1.234	1.376	11.5
RS					14.179	13.638	12.311	13.786	12.0
TR	55.771	66.029	75.201	87.273	116.804	183.011	150.275	187.963	25.1
UA		43.152	33.339	46.485	31.914	25.493	26.140	24.521	-6.2
UK	265.600	237.336	242.117	203.712	160.080	146.203	95.422	95.422	

**NB:** The definition of a crash involving personal injury differs from country to country.

RO: only serious accidents before 2005.

As of 2018 PT includes data for Azores and Madeira.

2020 figures for CY, LV, MT, SK; 2019 figure for UK; 2018 figure for IE.

Sources: CARE, UNECE (BA, MK, MD, MK, AL, RS, TR, UA, UK for 2019), ITF (SE for 2021, UK as of 2020), national statistics (ME), estimates (*in italics*)

## 2.7.5

## Railway fatalities

NUMBER OF RAILWAY PASSENGERS KILLED  
IN ACCIDENTS INVOLVING RAILWAY

	1990	2000	2005	2010	2015	2018	2019	2020	2021
EU-27			58	63	27	13	16	10	5
BE	0	3	0	18	0	0	0	0	0
BG			3	0	2	0	0	0	0
CZ		1	4	2	6	0	1	2	2
DK	1	3	0	0	0	0	8	0	0
DE	50	38	7	0	3	1	0	1	0
EE			0	0	0	0	0	0	0
IE	1	2	0	0	0	0	0	0	0
EL	0	20	0	1	0	0	1	0	0
ES	4	0	1	15	0	0	0	0	1
FR	30	15	5	2	4	0	2	2	0
HR			1	1	0	0	0	0	0
IT	9	8	22	7	2	4	1	1	1
CY	-	-	-	-	-	-	-	-	-
LV			0	0	0	0	1	0	0
LT			0	0	0	0	0	0	0
LU	0	0	0	0	0	0	0	0	0
HU	33	11	6	3	3	3	1	3	0
MT	-	-	-	-	-	-	-	-	-
NL	2	0	0	0	0	0	0	0	0
AT	6	4	1	0	1	1	0	0	0
PL	21	20	0	7	3	2	0	0	1
PT	22	2	7	1	0	0	0	0	0
RO		0	1	4	3	0	0	1	0
SI		0	0	0	0	1	0	0	0
SK		0	0	0	0	1	1	0	0
FI	0	2	0	0	0	0	0	0	0
SE	3	0	0	2	0	0	0	0	0
IS	-	-	-	-	-	-	-	-	
NO	4	32	0	0	0	1	0	0	0
CH	8	2	3	0	0	0	0	0	0
BA									
ME					0	0	0	0	0
MD									
MK			0	0	0	0	0	0	0
AL									
RS					0	0	0	0	0
TR	17	9	10	3	0	32	1	0	0
UA						0			
UK	37	20	8	0	0	3 (*)	0	1	

NB: (\*) Includes the figure for Channel Tunnel (2 in 2018).



## Air LIVES LOST

2.7.6

PERIOD	Lives lost over EU-27 territory by any operator	Lives lost by EU-27 operators anywhere
1990	0	46
1991	32	264
1992	154	147
1993	8	6
1994	3	7
1995	119	70
1996	12	11
1997	71	1
1998	24	62
1999	40	63
2000	112	110
2001	120	123
2002	96	25
2003	3	3
2004	0	0
2005	144	128
2006	3	4
2007	0	0
2008	154	154
2009	9	228
2010	0	0
2011	6	6
2012	1	1
2013	0	0
2014	0	120
2015	150	150
2016	2	2
2017	0	0
2018	0	0
2019	0	0
2020	0	0
2021	0	0
2022	12 (**)	10 (***)
1970 - 1979/yr.(*)	312	328
1980 - 1989/yr.(*)	179	128
1990 - 1999/yr.	46	68
2000 - 2009/yr.	64	78
2010 - 2021/yr.	12	23

NB: (\*) UK is included.

(\*\*) 4 fatalities in international waters - Baltic Sea by an EU operator (business flight), 8 fatalities by foreign AN12-BK cargo flight in Greece

(\*\*\*) 2 business flights; 4 fatalities occurred on EU territory and are also included in the column 'Lives lost over EU territory by any operator'.

Onboard fatalities, and only those in complex aeroplanes with a maximum certificated take-off mass exceeding 5 700 kg or equipped with (a) turbofan engine(s) or more than one turboprop engine.

Data include fatalities from Commercial Air Transport (passenger, cargo, air taxi, ferry/positioning and emergency medical service) and fatalities from General Aviation (only 'Business' flights).

## 2.7.7

## Sea

## SHIPS LOST (WORLD) – BY TYPE

YEAR	TANKERS		BULKERS AND COMBINED CARRIERS		OTHER SHIPS	
	N°	1 000 gt	N°	1 000 gt	N°	1 000 gt
1996	13	58	14	247	59	294
1997	13	308	6	137	58	274
1998	5	26	11	160	62	323
1999	6	71	11	277	55	283
2000	10	173	21	394	68	248
2001	9	202	12	341	88	319
2002	10	119	10	234	77	454
2003	9	158	8	107	74	274
2004	18	104	6	103	62	277
2005	11	103	8	117	79	309
2006	11	35	9	397	70	294
2007	6	34	11	197	70	311
2008	9	105	7	105	55	259
2009	14	214	15	335	67	353
2010	12	35	16	431	82	375
2011	8	102	20	452	56	281
2012	12	93	4	83	43	314
2013	3	10	11	257	46	291
2014	6	17	2	43	46	267
2015	6	41	10	133	40	267
2016	1	2	4	124	35	123
2017	3	7	4	196	41	168
2018	3	90	5	92	30	97
2019	3	9	2	69	40	225
2020	5	8	2	254	27	152
2021	0	0	2	69	35	159

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

PART 3

# ENERGY AND ENVIRONMENT



## PART 3

### SUMMARY

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## Glossary

### 3.1.1

**Conventional thermal power:**

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

**Energy dependency:**

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

**Energy intensity:**

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

**Final energy consumption (FEC):**

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

**Gross calorific value (GCV):**

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

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

**Gross inland consumption (GIC):**

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

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

**Net calorific value (NCV):**

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

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

**Primary energy production:**

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

**Solid fuels: hard coal, lignite**

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

## 3.1.1

## Glossary

**Crude oil:**

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

**Natural gas:**

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

**Nuclear heat:**

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

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

Quantities of electricity generated. Production is calculated on the basis of the gross electricity generated and a conversion factor of 3600 kJ/kWh.

**Geothermal energy:**

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

**Biomass / wastes:**

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

**Pumped storage:**

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

**Renewable energy sources (RES):**

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

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

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

1 ktoe = 1 000 toe

1 Mtoe = 1 000 000 toe

## Average calorific values – Energy content

3.1.2

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

## 3.1.3

## Conversion factors

## ENERGY

FROM:	TO:	TJ	Gcal	Mtoe	GWh
TJ		1	238.8	$2.388 \times 10^{-5}$	0.2778
Gcal		$4.1868 \times 10^{-3}$	1	$1 \times 10^{-7}$	$1.163 \times 10^{-3}$
Mtoe		$4.1868 \times 10^4$	$1 \times 10^7$	1	11 630
GWh		3.6	860	$8.6 \times 10^{-5}$	1

## VOLUME

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

## MASS

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

## DECIMAL PREFIXES

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



## Energy statistics for EU-27

3.1.4

Mtoe	1990	1995	2000	2005	2010	2015	2020	2021
<b>Production (*)</b>	<b>741.6</b>	<b>705.4</b>	<b>675.6</b>	<b>702.7</b>	<b>694.7</b>	<b>656.2</b>	<b>571.8</b>	<b>596.5</b>
Solid fuels	315.1	246.1	194.9	183.4	153.8	139.1	86.9	93.8
Oil & petroleum products	40.4	39.5	44.6	45.9	33.1	28.3	21.3	20.1
Gas	123.1	127.3	112.2	111.1	109.5	72.4	41.2	38.0
Nuclear	188.6	204.5	222.1	236.8	219.6	203.8	175.2	186.7
Renewables	70.7	82.5	96.0	118.3	168.1	200.4	233.3	244.0
Waste, non-renewable	3.7	5.5	5.9	7.2	10.6	12.4	13.9	13.9
<b>Net imports</b>	<b>744.8</b>	<b>773.8</b>	<b>865.7</b>	<b>954.5</b>	<b>895.4</b>	<b>834.5</b>	<b>792.3</b>	<b>812.1</b>
Solid fuels	71.5	67.8	83.3	97.9	93.7	96.0	50.3	61.0
Oil & petroleum products	540.7	560.4	578.5	606.1	550.2	514.6	460.4	459.0
Gas	129.5	144.9	202.8	248.2	245.9	220.6	273.5	283.9
Electricity	2.9	0.4	0.8	0.6	0.4	-0.6	1.2	0.6
Renewables	0.2	0.3	0.3	1.7	5.1	3.6	6.4	6.9
Other (**)	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.6
<b>Gross inland consumption</b>	<b>1 456.7</b>	<b>1 451.6</b>	<b>1 498.2</b>	<b>1 603.8</b>	<b>1 559.0</b>	<b>1 448.2</b>	<b>1 340.0</b>	<b>1 421.6</b>
Solid fuels	392.6	317.7	284.4	280.4	252.5	239.6	144.8	166.7
Oil & petroleum products	547.9	570.1	579.8	598.6	538.9	491.6	437.2	460.4
Gas	249.8	270.6	308.6	359.7	362.8	296.1	327.0	340.2
Nuclear	188.6	204.5	222.1	236.8	219.6	203.8	175.2	186.7
Renewables	71.0	82.8	96.4	119.9	173.3	204.0	239.2	251.5
Other (***)	6.7	5.9	6.9	8.3	11.8	13.2	16.7	16.2
<b>Gross electricity generation (TWh)</b>	<b>2 275.0</b>	<b>2 408.7</b>	<b>2 656.9</b>	<b>2 916.3</b>	<b>2 979.7</b>	<b>2 900.6</b>	<b>2 784.9</b>	<b>2 906.5</b>
<b>Bunker fuels</b>								
International maritime	33.2	32.8	40.4	47.2	46.7	40.3	39.0	40.8
International aviation	18.2	22.5	28.6	31.1	32.1	34.6	18.0	21.5
<b>Final energy consumption by fuel/product</b>	<b>906.5</b>	<b>892.5</b>	<b>926.1</b>	<b>986.7</b>	<b>973.2</b>	<b>909.0</b>	<b>885.1</b>	<b>939.9</b>
Solid fuels	104.3	64.0	42.2	35.6	33.0	28.9	23.6	23.7
Oil & petroleum products	374.6	381.5	397.1	405.5	366.5	338.6	309.8	327.5
Gas	170.8	186.9	205.1	222.8	217.7	192.4	194.1	212.2
Electricity	162.2	168.7	189.0	209.4	215.9	210.7	205.0	213.9
Renewables	38.6	43.6	48.8	60.7	85.8	89.6	103.7	110.4
Other (**)	56.0	47.8	43.9	52.6	54.4	48.8	48.9	52.3
<b>by sector</b>								
Industry	310.3	271.6	271.0	275.1	243.9	233.5	230.9	240.4
Transport (****)	220.7	235.9	262.9	281.6	280.0	272.5	251.4	274.8
Rail	7.5	7.5	7.4	6.8	6.3	5.4	4.7	5.2
Road	201.6	218.0	243.2	260.2	260.6	255.2	237.8	259.0
Domestic aviation	5.0	4.3	5.7	5.8	5.6	5.4	3.0	4.3
Domestic navigation	5.2	5.1	5.2	5.6	5.0	3.9	3.6	4.0
Consumption in pipeline transport, etc.	1.4	1.0	1.4	3.2	2.4	2.5	2.3	2.3
Households	239.8	249.7	248.6	266.3	278.9	245.0	248.1	261.8
Agriculture and fishing	33.4	31.4	28.4	28.4	26.7	25.9	29.8	29.8
Services, etc.	102.4	104.0	115.2	135.2	143.7	132.1	124.8	133.2
<b>CO<sub>2</sub> emissions (Mt) (*****)</b>	<b>3 933.7</b>	<b>3 712.9</b>	<b>3 697.3</b>	<b>3 842.8</b>	<b>3 544.2</b>	<b>3 213.1</b>	<b>2 697.4</b>	<b>2 886.3</b>
Primary energy intensity 2020-2030 (toe/M€ '15)	166.5	153.2	137.0	135.2	125.3	110.7	98.4	99.0
CO <sub>2</sub> intensity (tCO <sub>2</sub> /toe)	2.70	2.56	2.47	2.40	2.27	2.22	2.01	2.03
Import dependency, %	50.0	52.1	56.3	57.8	55.8	56.1	57.5	55.5
RES share in transport, % (*****)	0.0	0.0	0.0	1.8	5.5	6.8	10.3	9.1

**NB:** (\*) Including recovered products. (\*\*) Derived heat & industrial waste. (\*\*\*) Electrical energy & industrial waste. (\*\*\*\*) Excluding international aviation, in line with changes in the energy balance methodology. (\*\*\*\*\* Source: European Environment Agency (EEA), April 2023, including international aviation and indirect CO<sub>2</sub>, but excluding international maritime and LULUCF (land use, land-use change and forestry). (\*\*\*\*\* Renewable share in transport, according to the definition of the Directive 2009/28/EC for years up to 2020 and according to Directive (EU) 2018/2001 for 2021.

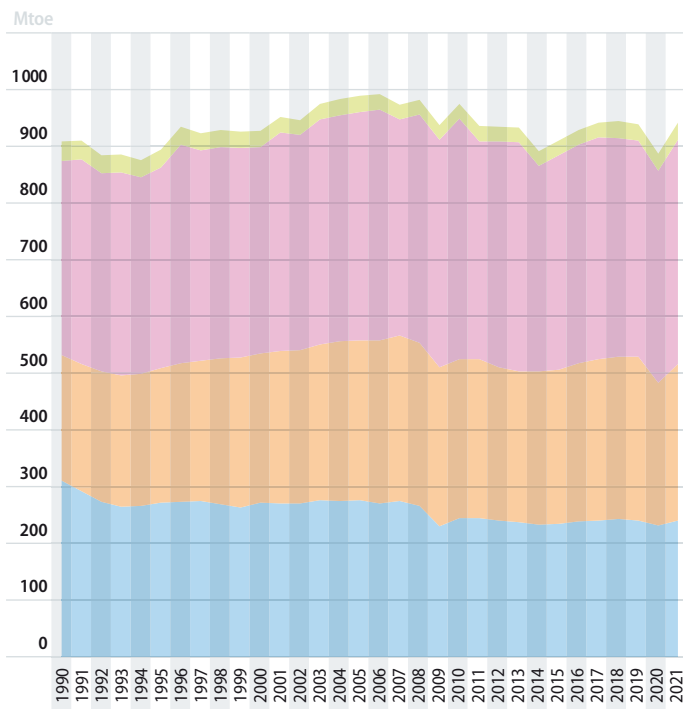
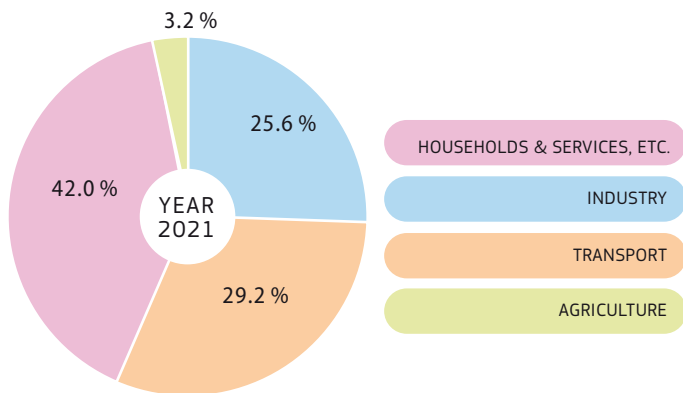
## 3.1.5

## Final energy consumption 2021 – BY SECTOR (MTOE)

	ALL SECTORS	INDUSTRY	TRANSPORT	Road	Railways	Domestic aviation	Domestic navigation	Consumption in pipeline transport, etc.	HOUSEHOLDS, SERVICES, ETC.	Households	Agriculture	Services, etc.
EU-27	939.9	240.4	274.8	259.0	5.2	4.3	4.0	2.3	424.7	261.8	29.8	133.2
Share	100 %	26 %	29 %	28 %	1 %	0 %	0 %	0 %	45 %	28 %	3 %	14 %
BE	33.2	10.6	8.5	8.2	0.2	0.0	0.1	0.0	14.1	8.6	0.9	4.6
BG	10.1	2.8	3.4	3.3	0.0	0.0	0.0	0.1	3.9	2.4	0.2	1.3
CZ	25.4	7.0	6.9	6.6	0.2	0.1	0.0	0.0	11.5	7.9	0.6	3.0
DK	13.7	2.5	4.0	3.8	0.1	0.0	0.1	0.0	7.3	4.5	0.7	2.1
DE	199.4	55.9	52.3	49.8	1.4	0.3	0.4	0.5	91.2	58.8	3.6	28.8
EE	2.8	0.4	0.8	0.8	0.0	0.0	0.0	0.0	1.6	1.0	0.1	0.5
IE	11.0	2.2	3.7	3.5	0.0	0.0	0.1	0.0	5.1	3.1	0.3	1.8
EL	14.9	2.6	5.5	4.8	0.0	0.2	0.6	0.0	6.8	4.3	0.3	2.2
ES	78.6	20.1	30.4	27.3	0.3	1.7	0.9	0.2	28.1	14.7	3.1	10.3
FR	139.4	27.2	42.7	40.1	0.8	1.2	0.5	0.1	69.5	42.2	4.6	22.8
HR	6.9	1.2	2.1	2.1	0.0	0.0	0.0	0.0	3.5	2.4	0.3	0.8
IT	113.2	25.3	35.3	32.9	0.5	0.6	0.5	0.7	52.6	32.0	3.0	17.6
CY	1.6	0.2	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.3
LV	4.0	0.9	1.1	1.0	0.0	0.0	0.0	0.0	2.0	1.2	0.2	0.6
LT	5.7	1.1	2.1	2.1	0.1	0.0	0.0	0.0	2.4	1.6	0.1	0.7
LU	3.4	0.6	1.8	1.8	0.0	0.0	0.0	0.0	1.1	0.5	0.0	0.6
HU	18.8	4.7	4.9	4.7	0.1	0.0	0.0	0.0	9.2	6.4	0.7	2.1
MT	0.5	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.1
NL	43.3	13.2	9.2	8.8	0.2	0.0	0.2	0.0	20.9	10.1	4.1	6.6
AT	26.4	7.6	8.0	7.5	0.2	0.0	0.0	0.3	10.8	7.7	0.5	2.6
PL	74.2	16.3	23.5	22.8	0.4	0.0	0.0	0.3	34.4	22.1	3.7	8.5
PT	15.8	4.5	5.5	5.2	0.0	0.1	0.1	0.0	5.8	3.0	0.5	2.2
RO	25.3	6.9	6.9	6.5	0.2	0.0	0.1	0.0	11.5	8.8	0.6	2.2
SI	4.8	1.3	1.8	1.8	0.0	0.0	0.0	0.0	1.7	1.2	0.1	0.4
SK	10.5	3.4	2.6	2.5	0.0	0.0	0.0	0.1	4.5	3.0	0.1	1.4
FI	24.8	10.8	4.0	3.8	0.1	0.0	0.1	0.0	10.0	6.0	0.8	3.3
SE	32.2	11.1	6.9	6.4	0.2	0.1	0.1	0.0	14.2	7.9	0.6	5.7
IS	3.0	1.3	0.3	0.3	0.0	0.0	0.0	0.0	1.3	0.5	0.3	0.5
NO	20.2	6.7	5.0	3.3	0.1	0.3	1.2	0.1	8.5	4.7	0.6	3.2
CH												
BA	4.3	0.7	1.4	1.4	0.0	0.0	0.0	0.0	2.2	1.8	0.1	0.4
ME	0.8	0.1	0.3	0.3	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.1
MD	2.8	0.2	0.7	0.7	0.0	0.0	0.0	0.0	1.8	1.3	0.2	0.3
MK	2.0	0.5	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.5	0.0	0.2
AL	2.0	0.4	0.7	0.6	0.0	0.0	0.0	0.0	0.9	0.5	0.1	0.2
RS	9.3	2.1	2.5	2.5	0.0	0.0	0.0	0.0	4.6	3.6	0.1	1.0
TR	109.8	36.8	30.1	28.4	0.2	0.9	0.4	0.2	42.9	26.4	5.1	11.4
UA												
UK												

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

3.1.5



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

### 3.1.6 Final consumption of motor gasoline, diesel, biofuels & biogas for transport

#### 2021 – BY FUEL (KTOE)

	TOTAL FINAL CONSUMPTION OF MOTOR GASOLINE AND DIESEL OIL FOR TRANSPORT (*)	Motor gasoline	Gas / Diesel oil	BIOFUELS	Biogasoline	Biodiesel	Biogas	Other liquid biofuels (**)
EU-27	238 425.9	62 505.3	175 920.6	16 746.3	3 022.6	13 604.6	117.5	1.6
BE	7 453.4	1 824.9	5 628.5	772.1	160.0	612.1		
BG	2 673.8	501.3	2 172.4	167.5	20.8	146.8		
CZ	6 120.7	1 585.9	4 534.8	380.2	55.5	305.8	18.9	
DK	3 640.5	1 206.2	2 434.3	258.5	81.8	174.8	1.9	
DE	47 157.8	14 795.5	32 362.3	2 887.5	734.7	2 151.2		1.6
EE	751.8	199.7	552.2	57.5	4.2	41.4	11.8	
IE	3 503.5	612.7	2 890.8	178.4	20.3	158.1		
EL	4 638.5	2 010.9	2 627.6	216.5	67.9	148.7		
ES	26 205.7	5 276.5	20 929.1	1 401.3	112.1	1 289.2		
FR	37 420.6	8 253.2	29 167.5	2 891.8	710.2	2 181.6		
HR	1 958.8	460.6	1 498.2	91.2	0.8	90.4		
IT	29 037.5	7 364.9	21 672.6	1 415.5	27.1	1 388.4	0.0	
CY	635.1	323.1	312.0	24.4		24.4		
LV	980.6	166.0	814.5	46.8	11.7	35.0		
LT	1 887.5	237.3	1 650.2	126.8	16.5	110.3		
LU	1 617.8	317.4	1 300.5	138.3	17.9	120.4		0.0
HU	4 456.1	1 388.3	3 067.8	285.0	87.0	197.9		
MT	205.6	76.9	128.7	10.9		10.9		
NL	8 162.1	3 588.9	4 573.1	589.4	233.2	356.1		
AT	7 027.6	1 364.5	5 663.1	458.7	49.3	409.1	0.4	
PL	19 792.1	4 674.0	15 118.2	1 119.7	208.0	911.7		
PT	4 872.7	995.7	3 877.0	340.2	17.1	323.1		
RO	6 126.6	1 316.6	4 809.9	495.8	120.9	374.8		
SI	1 654.9	365.8	1 289.0	103.3	8.6	94.7		
SK	2 306.3	513.1	1 793.2	161.5	26.1	135.4		
FI	3 215.0	1 177.6	2 037.4	676.2	113.5	557.4	5.3	
SE	4 923.3	1 907.7	3 015.6	1 451.4	117.3	1 255.0	79.2	
IS	282.9	89.1	193.8	28.7	16.5	12.2		
NO	4 035.1	639.7	3 395.3	397.8	66.7	302.1	29.0	
CH								
BA	1 298.7	175.1	1 123.6	0.0				
ME	283.6	40.6	243.0	0.0				
MD	700.3	194.2	506.1	0.0				
MK	688.1	89.3	598.8	0.1		0.1		
AL	562.2	74.3	487.9	106.8		106.8		
RS	2 363.0	471.7	1 891.3	0.0				
TR	25 185.8	3 022.0	22 163.8	120.0	61.1	58.9		
UA								
UK								

NB: (\*) Without bio components

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

# Biofuels production

## 2021 – BY FUEL (KTOE)

3.1.7

	TOTAL	Biogasoline	Biodiesel	Bio jet kerosene	Other liquid biofuels (*)
EU-27	15 960.3	2 417.6	12 845.9	91.6	605.2
BE	431.5	249.1	181.9		0.5
BG	190.5	14.2	176.3		
CZ	269.4	53.0	216.3		
DK	4.1				4.1
DE	3 497.0	369.6	3 062.3		65.2
EE					
IE	67.9	3.2	64.7		
EL	160.1	13.9	146.1		
ES	1 889.2	282.0	1 607.2		
FR	1 935.4	552.0	1 379.5		3.9
HR	0.3		0.3		
IT	1 348.2	10.0	1 093.2		245.0
CY					
LV	65.3		65.3		
LT	152.1	14.3	137.9		
LU					
HU	492.6	332.3	160.3		
MT					
NL	1 832.1		1 811.2		20.9
AT	422.4	151.1	271.2		0.0
PL	1 036.9	162.7	872.1		2.1
PT	285.1		285.1		
RO	236.4	32.7	203.8		
SI					
SK	176.5	65.7	110.8		
FI	743.2		605.8	91.6	45.8
SE	724.2	111.7	394.7		217.8
IS					
NO	77.3		77.3		
CH					
BA					
ME					
MD					
MK					
AL					
RS					
TR	132.9	60.7	58.9		13.4
UA					
UK					

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

Source: Eurostat, May 2023

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

	1990	1995	2000	2005	2010	2015	2020	2021
EU-27	4 921.1	4 625.8	4 537.0	4 638.0	4 281.1	3 920.9	3 359.7	3 541.5
BE	149.0	156.5	153.6	149.0	137.9	123.4	110.9	115.5
BG	99.7	73.1	57.7	63.0	60.0	61.0	48.5	54.5
CZ	201.4	160.5	152.9	151.0	142.1	130.2	114.1	119.4
DK	73.3	81.5	74.4	70.4	67.1	52.3	43.8	45.1
DE	1 263.4	1 135.7	1 059.8	1 008.2	956.9	921.4	744.7	778.7
EE	40.4	20.1	17.5	19.3	21.2	18.1	11.5	12.7
IE	56.7	61.2	71.5	74.0	65.4	64.3	60.2	63.4
EL	106.5	112.2	129.2	139.4	121.8	98.9	76.8	80.0
ES	292.5	333.7	392.9	450.4	367.4	348.3	278.7	297.2
FR	548.2	542.6	560.4	566.3	523.0	472.2	400.6	423.2
HR	32.0	22.9	25.9	30.1	28.5	25.0	24.1	24.7
IT	525.8	541.5	568.0	602.7	532.3	455.4	388.8	422.6
CY	6.4	7.9	9.2	10.2	10.4	9.2	8.9	9.3
LV	26.3	12.7	10.3	11.2	12.2	11.1	10.7	11.0
LT	48.6	22.6	19.6	22.6	20.9	20.4	20.4	20.5
LU	13.1	10.7	10.6	14.3	13.5	11.7	10.7	11.3
HU	95.5	78.2	76.1	77.8	67.3	62.8	63.3	64.6
MT	2.8	3.0	3.1	3.3	3.3	2.5	2.3	2.4
NL	227.3	239.6	229.9	226.1	225.0	205.9	171.5	175.0
AT	79.9	81.3	82.3	94.6	86.8	81.0	75.0	78.8
PL	475.5	447.9	395.3	402.2	409.3	385.8	373.3	402.4
PT	61.1	71.1	84.6	89.0	72.4	71.5	59.7	58.5
RO	257.9	189.4	142.7	151.7	127.2	117.8	112.2	115.7
SI	18.8	18.9	18.8	20.7	19.9	17.0	16.0	16.1
SK	73.9	53.3	49.1	50.9	45.9	41.1	37.3	41.3
FI	72.3	72.8	71.3	71.1	77.3	57.0	48.7	48.7
SE	72.8	74.8	70.3	68.5	66.5	55.8	47.2	48.8
IS	3.9	3.8	4.6	4.5	5.3	5.5	4.8	5.1
NO	52.0	52.3	56.0	55.9	56.5	56.3	50.1	49.7
CH	58.4	57.8	58.8	59.8	59.7	54.0	46.0	47.6

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

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

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

## GHG emissions from transport 3.2.2

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

### INCLUDING INTERNATIONAL BUNKERS (\*)

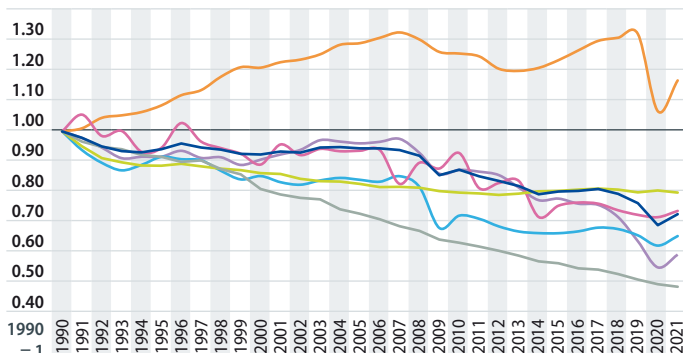
	1990	1995	2000	2005	2010	2015	2020	2021
<b>EU-27</b>	<b>828.7</b>	<b>893.2</b>	<b>1 011.4</b>	<b>1 097.2</b>	<b>1 069.6</b>	<b>1 030.9</b>	<b>897.3</b>	<b>980.9</b>
BE	37.5	38.9	46.0	55.7	56.0	50.4	45.9	54.2
BG	7.4	6.1	5.9	8.7	8.8	10.0	9.9	10.7
CZ	11.9	11.0	12.7	18.3	17.8	18.4	18.1	19.3
DK	15.6	18.9	18.8	18.4	17.8	17.5	14.6	14.9
DE	183.6	198.3	207.8	191.5	186.7	194.5	163.5	169.7
EE	3.2	1.9	2.1	2.7	3.1	3.4	3.2	3.4
IE	6.3	7.8	13.1	16.0	14.3	14.8	12.0	12.8
EL	25.3	31.0	33.2	33.9	34.0	25.9	22.2	25.4
ES	75.1	87.7	115.6	140.6	132.3	123.0	101.1	117.5
FR	139.2	150.3	164.6	166.8	157.8	157.0	121.6	136.1
HR	4.5	3.7	4.8	5.9	6.3	6.3	6.0	6.6
IT	110.8	124.0	135.9	143.6	133.0	121.3	94.6	114.0
CY	2.1	2.6	3.3	3.9	3.8	3.5	3.1	3.4
LV	4.8	2.7	2.3	4.2	4.5	4.3	4.0	4.2
LT	6.5	3.7	3.6	4.8	5.0	5.6	6.9	6.9
LU	3.0	4.0	5.9	8.5	7.8	7.1	6.3	6.8
HU	9.5	8.1	9.9	13.0	12.5	12.8	12.9	14.4
MT	1.5	2.3	3.1	2.9	5.6	5.9	7.9	7.2
NL	67.7	73.1	85.7	97.2	90.1	82.0	69.6	69.0
AT	14.9	17.3	20.6	27.0	24.7	24.9	22.3	23.2
PL	22.7	25.0	30.7	38.2	51.5	50.5	65.4	71.9
PT	13.8	17.0	23.4	23.8	23.3	21.6	18.6	20.1
RO	13.2	9.2	10.3	13.0	14.8	16.6	18.6	19.9
SI	2.8	4.0	3.7	4.5	5.4	5.6	5.0	5.5
SK	6.9	5.6	5.8	7.8	7.6	7.5	7.1	7.6
FI	15.0	13.3	15.2	15.8	15.0	13.7	12.3	11.7
SE	23.8	25.5	27.3	30.4	30.2	26.8	24.6	24.5
IS	0.9	0.9	1.2	1.3	1.3	1.7	1.2	1.4
NO	12.9	13.8	15.7	16.5	17.0	17.2	13.6	13.9
CH	17.8	18.0	20.7	19.4	20.6	20.3	15.6	16.1

**NB:** (\*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries.

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

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	3801.2	3632.5	1442.1	1232.9	107.3	101.8	729.1	151.9	12.2	102.2	30.2	45.5	387.0
1995	3586.2	3441.4	1318.7	1125.3	110.3	83.2	645.5	131.0	11.7	98.9	34.4	55.0	314.5
2000	3539.2	3419.9	1304.5	1125.9	116.8	61.8	586.7	116.9	12.9	87.2	32.4	48.9	288.3
2005	3665.1	3559.6	1383.8	1196.8	124.0	63.0	556.5	105.2	11.5	84.6	30.8	45.4	279.0
2010	3405.8	3316.8	1254.2	1083.2	115.8	55.3	480.7	93.3	11.1	76.3	27.2	36.4	236.4
2015	3075.3	2992.6	1114.0	968.5	105.9	39.6	429.0	85.6	8.6	64.0	23.6	35.5	211.7
2020	2556.4	2493.0	778.1	652.3	93.2	32.7	412.8	69.7	8.4	67.0	22.5	34.9	210.4
2021	2732.5	2671.3	840.4	717.0	92.8	30.6	439.5	79.6	9.5	71.8	23.8	36.8	218.0

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



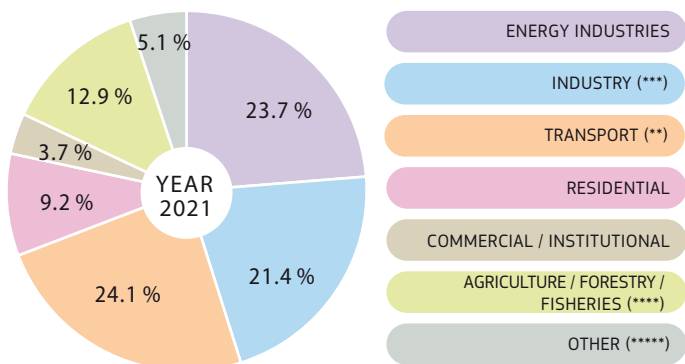
- NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.  
 (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.  
 (\*\*\*)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



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

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

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries				Agriculture	Waste					
726.6	712.7	172.2	449.7	90.8	22.1	168.7	444.7	484.6	184.2			6.4	4921.1 1990
790.5	676.6	149.2	438.1	89.4	10.0	144.9	426.9	419.0	188.0			5.7	4625.8 1995
883.3	636.9	144.0	408.1	84.8	8.5	119.3	409.5	409.3	174.0			5.1	4537.0 2000
943.5	665.0	154.4	426.8	83.9	10.8	105.4	424.7	389.2	154.3			4.6	4638.0 2005
918.0	656.1	163.3	413.0	79.8	7.8	88.9	358.1	376.3	137.0			3.9	4281.1 2010
901.8	541.0	130.5	335.2	75.4	6.9	82.7	339.9	384.3	118.2			3.4	3920.9 2015
776.3	519.7	122.1	319.4	78.2	6.1	63.4	306.8	382.0	111.4			3.1	3359.7 2020
851.9	532.5	129.9	324.7	77.9	6.9	61.2	317.9	378.4	109.3			3.3	3541.5 2021



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

## 3.2.3

## GHG emissions (\*) EU-27

### BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	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	77.2	73.8	29.3	25.1	2.2	2.1	14.8	3.1	0.2	2.1	0.6	0.9	7.9
1991	77.9	74.7	29.3	25.2	2.1	2.0	14.3	2.9	0.3	2.0	0.7	1.0	7.3
1992	78.0	74.7	29.2	25.2	2.2	1.8	14.0	2.8	0.3	1.8	0.7	1.0	7.4
1993	78.0	74.7	28.6	24.5	2.3	1.8	13.7	2.7	0.2	1.8	0.7	1.1	7.2
1994	77.5	74.3	28.8	24.6	2.4	1.8	13.7	2.8	0.2	1.9	0.7	1.1	6.9
1995	77.5	74.4	28.5	24.3	2.4	1.8	14.0	2.8	0.3	2.1	0.7	1.2	6.8
1996	78.0	75.0	28.5	24.5	2.4	1.6	13.5	2.6	0.3	2.1	0.7	1.2	6.7
1997	77.7	74.6	28.2	24.1	2.5	1.7	13.5	2.7	0.3	2.0	0.8	1.2	6.6
1998	78.0	75.0	28.5	24.4	2.5	1.6	13.1	2.6	0.3	1.9	0.7	1.1	6.5
1999	78.3	75.3	28.1	24.2	2.5	1.4	13.0	2.4	0.3	1.9	0.7	1.1	6.5
2000	78.0	75.4	28.8	24.8	2.6	1.4	12.9	2.6	0.3	1.9	0.7	1.1	6.4
2001	78.6	76.1	29.0	25.2	2.6	1.3	12.5	2.4	0.3	1.9	0.7	1.1	6.2
2002	78.8	76.3	29.6	25.7	2.6	1.3	12.4	2.3	0.3	1.8	0.7	1.1	6.2
2003	79.1	76.6	30.1	26.3	2.5	1.3	12.3	2.2	0.3	1.8	0.7	1.1	6.2
2004	78.9	76.6	29.9	25.9	2.6	1.3	12.1	2.3	0.3	1.8	0.7	1.0	6.1
2005	79.0	76.7	29.8	25.8	2.7	1.4	12.0	2.3	0.2	1.8	0.7	1.0	6.0
2006	79.1	76.9	30.0	25.9	2.7	1.4	11.8	2.3	0.2	1.8	0.7	0.9	5.9
2007	78.8	76.7	30.5	26.4	2.7	1.4	12.1	2.5	0.3	1.8	0.6	0.9	6.1
2008	79.0	76.9	29.6	25.6	2.7	1.3	11.9	2.3	0.2	1.8	0.6	0.9	6.0
2009	79.3	77.2	29.5	25.6	2.8	1.1	10.7	1.8	0.2	1.7	0.6	0.8	5.5
2010	79.6	77.5	29.3	25.3	2.7	1.3	11.2	2.2	0.3	1.8	0.6	0.9	5.5
2011	79.2	77.0	29.9	25.8	2.7	1.3	11.2	2.2	0.2	1.8	0.6	0.8	5.5
2012	79.2	77.0	30.0	26.2	2.7	1.1	11.0	2.1	0.2	1.8	0.6	0.8	5.4
2013	78.9	76.7	29.1	25.4	2.7	1.0	10.8	2.0	0.2	1.7	0.6	0.9	5.3
2014	77.9	75.8	28.6	24.8	2.7	1.1	10.8	2.1	0.2	1.7	0.6	0.9	5.4
2015	78.4	76.3	28.4	24.7	2.7	1.0	10.9	2.2	0.2	1.6	0.6	0.9	5.4
2016	78.4	76.4	27.7	24.0	2.7	1.0	11.0	2.1	0.2	1.7	0.6	0.9	5.5
2017	78.4	76.4	27.4	23.8	2.6	1.0	11.1	2.1	0.2	1.7	0.6	0.9	5.6
2018	78.2	76.3	26.4	22.7	2.6	1.1	11.4	2.1	0.2	1.8	0.6	0.9	5.7
2019	77.8	75.9	24.3	20.6	2.7	1.1	11.5	2.1	0.2	1.8	0.7	1.0	5.8
2020	76.1	74.2	23.2	19.4	2.8	1.0	12.3	2.1	0.2	2.0	0.7	1.0	6.3
2021	77.2	75.4	23.7	20.2	2.6	0.9	12.4	2.2	0.3	2.0	0.7	1.0	6.2

**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>. Indirect emissions from electricity use are not included in the GHG emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

## GHG emissions (\*) EU-27

### BY SECTOR (SHARES %)

3.2.3

TRANSPORT (**)	OTHER SECTORS				OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE				Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
	Commercial / Institutional	Residential	Agriculture / Forestry / Fisheries				Agriculture	Waste	Other				
14.8	14.5	3.5	9.1	1.8	0.4	3.4	9.0	9.8	3.7		0.1	100	1990
15.2	15.5	3.7	10.0	1.9	0.4	3.2	8.5	9.5	3.9		0.1	100	1991
16.3	15.0	3.4	9.7	1.9	0.3	3.2	8.5	9.3	4.1		0.1	100	1992
16.7	15.5	3.5	10.1	2.0	0.3	3.3	8.5	9.3	4.1		0.1	100	1993
16.9	14.6	3.2	9.4	2.0	0.2	3.2	9.0	9.2	4.1		0.1	100	1994
17.1	14.6	3.2	9.5	1.9	0.2	3.1	9.2	9.1	4.1		0.1	100	1995
17.3	15.5	3.5	10.1	2.0	0.2	3.0	9.0	8.9	3.9		0.1	100	1996
17.8	14.8	3.2	9.7	1.9	0.2	3.1	9.3	9.0	3.9		0.1	100	1997
18.7	14.6	3.3	9.4	1.9	0.2	3.0	9.0	9.0	3.9		0.1	100	1998
19.5	14.5	3.3	9.3	1.9	0.2	3.0	8.7	9.1	3.9		0.1	100	1999
19.5	14.0	3.2	9.0	1.9	0.2	2.6	9.0	9.0	3.8		0.1	100	2000
19.6	14.8	3.4	9.5	1.8	0.2	2.5	8.7	8.9	3.7		0.1	100	2001
19.8	14.3	3.3	9.2	1.8	0.2	2.5	8.7	8.8	3.7		0.1	100	2002
19.7	14.4	3.3	9.3	1.8	0.2	2.5	8.8	8.5	3.5		0.1	100	2003
20.2	14.2	3.3	9.1	1.8	0.2	2.3	9.1	8.4	3.4		0.1	100	2004
20.3	14.3	3.3	9.2	1.8	0.2	2.3	9.2	8.4	3.3		0.1	100	2005
20.6	14.3	3.5	9.1	1.7	0.2	2.2	9.2	8.3	3.2		0.1	100	2006
21.0	12.8	3.1	8.0	1.7	0.2	2.1	9.5	8.4	3.2		0.1	100	2007
21.1	14.1	3.5	8.8	1.8	0.2	2.1	9.1	8.6	3.2		0.1	100	2008
22.0	14.8	3.7	9.3	1.9	0.2	2.1	8.2	9.1	3.3		0.1	100	2009
21.4	15.3	3.8	9.6	1.9	0.2	2.1	8.4	8.8	3.2		0.1	100	2010
21.8	13.9	3.4	8.7	1.9	0.2	2.1	8.6	9.0	3.2		0.1	100	2011
21.5	14.4	3.4	9.1	1.9	0.2	2.1	8.4	9.2	3.2		0.1	100	2012
21.8	14.8	3.6	9.4	1.9	0.2	2.2	8.5	9.4	3.1		0.1	100	2013
22.8	13.4	3.2	8.2	2.0	0.2	2.2	9.0	9.9	3.1		0.1	100	2014
23.0	13.8	3.3	8.5	1.9	0.2	2.1	8.7	9.8	3.0		0.1	100	2015
23.6	13.9	3.3	8.7	1.9	0.2	2.0	8.7	9.8	2.9		0.1	100	2016
24.0	13.8	3.3	8.5	1.9	0.2	2.0	8.8	9.8	2.9		0.1	100	2017
24.7	13.7	3.3	8.5	2.0	0.1	1.9	8.8	9.9	2.9		0.1	100	2018
25.9	14.0	3.4	8.6	2.1	0.2	1.8	8.9	10.2	3.0		0.1	100	2019
23.1	15.5	3.6	9.5	2.3	0.2	1.9	9.1	11.4	3.3		0.1	100	2020
24.1	15.0	3.7	9.2	2.2	0.2	1.7	9.0	10.7	3.1		0.1	100	2021

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

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 (\*) 2021 – BY SECTOR (MILLION TONNES CO<sub>2</sub> EQUIVALENT)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
EU-27	2732.5	2671.3	840.4	717.0	92.8	30.6	439.5	79.6	9.5	71.8	23.8	36.8	218.0
BE	86.7	86.0	18.2	12.9	5.1	0.2	14.0	1.3	0.4	4.2	0.6	2.5	5.1
BG	40.9	39.2	22.1	21.4	0.7	0.0	4.6	0.1	0.2	1.6	0.1	0.3	2.2
CZ	89.0	86.4	41.1	39.3	0.5	1.3	12.9	2.1	0.3	3.3	0.8	1.2	5.2
DK	29.7	29.5	8.3	6.5	0.9	0.9	3.8	0.1		0.2	0.1	0.9	2.5
DE	660.6	656.8	240.5	211.5	20.0	8.9	126.1	38.0	0.1		0.0	0.2	87.8
EE	10.5	10.5	7.0	5.4		1.5	0.4	0.0	0.0	0.0	0.1	0.1	0.2
IE	36.3	36.2	10.2	9.8	0.3	0.1	4.6	0.0	1.3	0.4	0.0	1.1	1.8
EL	56.1	55.7	25.5	20.2	5.3	0.0	4.8	0.1	0.7	0.6	0.1	0.6	2.7
ES	224.4	220.6	41.2	31.3	9.1	0.9	46.7	6.6	1.9	9.3	4.4	5.2	19.4
FR	296.5	293.8	39.4	32.3	4.9	2.2	44.3	4.2	0.9	10.8	2.5	8.3	17.6
HR	16.6	16.1	3.8	2.8	0.7	0.2	2.4	0.1	0.0	0.2	0.1	0.2	1.7
IT	337.8	332.1	86.4	65.1	16.7	4.7	53.9	9.7	1.0	11.4	5.3	4.1	22.4
CY	6.7	6.7	3.1	3.1		0.0	0.5		0.0	0.0	0.0	0.1	0.5
LV	7.3	7.2	1.4	1.4		0.1	0.7	0.0	0.0	0.0	0.0	0.1	0.5
LT	12.5	12.0	2.8	1.5	1.2	0.0	1.3			0.3	0.0	0.2	0.7
LU	9.9	9.9	0.2	0.2			1.2	0.3	0.0	0.1	0.0	0.0	0.7
HU	46.5	44.6	11.5	9.7	1.5	0.3	5.2	0.1	0.2	0.4	0.4	0.9	3.2
MT	1.9	1.9	0.8	0.8			0.1						0.1
NL	144.7	143.2	47.4	35.4	9.5	2.5	27.8	4.4	0.2	14.6	0.9	3.5	4.2
AT	53.4	53.0	8.9	5.7	2.8	0.4	10.9	1.8	0.3	1.6	1.8	0.8	4.6
PL	338.6	315.6	160.2	152.2	4.4	3.6	30.1	4.1	1.1	6.9	1.5	4.2	12.4
PT	39.0	37.9	8.2	6.4	1.8		7.3	0.1		1.2	1.0	0.7	4.3
RO	77.2	67.7	18.9	15.7	1.9	1.2	14.5	0.9	0.4	3.0	0.3	0.9	8.9
SI	12.8	12.4	4.2	4.2		0.0	1.7	0.2	0.1	0.1	0.2	0.1	1.0
SK	27.5	27.0	7.0	4.4	1.5	1.1	7.0	3.2	0.1	0.5	0.3	0.3	2.6
FI	35.2	35.1	13.4	11.9	1.2	0.3	6.4	0.9	0.1	0.7	2.3	0.1	2.3
SE	34.2	34.1	9.0	5.9	2.8	0.3	6.3	1.3	0.1	0.4	0.7	0.3	3.4
IS	2.2	2.0	0.0	0.0			0.1	0.0	0.0			0.0	0.0
NO	34.3	32.1	13.3	1.5	0.7	11.0	2.9	0.1	0.2	0.2	0.1	0.3	2.0
CH	36.5	36.3	3.2	2.9	0.3	0.0	4.6	0.3	0.1	0.6	0.1	0.7	2.7

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

## GHG emissions (\*) 2021 – BY SECTOR 3.2.4

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

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
851.9	532.5	129.9	324.7	77.9	6.9	61.2	317.9	378.4	109.3		3.3	3 541.5	EU-27
28.4	25.3	5.9	16.6	2.9	0.1	0.7	18.2	9.4	1.3			115.5	BE
10.4	2.1	0.4	1.2	0.5	0.0	1.8	4.5	6.1	2.8		0.1	54.5	BG
19.3	12.8	2.6	9.0	1.2	0.3	2.6	16.2	7.8	5.7		0.7	119.4	CZ
13.5	3.7	0.8	1.6	1.4	0.2	0.2	1.9	12.1	1.2		0.2	45.1	DK
165.9	123.4	33.5	83.5	6.3	1.0	3.8	57.2	56.3	4.5			778.7	DE
2.5	0.7	0.3	0.2	0.2		0.0	0.3	1.6	0.3			12.7	EE
12.3	9.1	1.5	6.9	0.7		0.1	3.2	23.0	0.9			63.4	IE
19.3	6.0	0.6	4.8	0.6	0.0	0.5	10.0	8.0	5.9			80.0	EL
93.8	38.5	9.9	16.1	12.4	0.4	3.7	24.1	34.4	14.3			297.2	ES
132.5	75.5	21.5	42.6	11.4	2.1	2.7	41.4	66.2	18.1		1.0	423.2	FR
6.6	3.4	0.7	2.0	0.8		0.4	3.6	2.7	1.9			24.7	HR
108.3	83.2	25.0	50.4	7.8	0.3	5.7	31.9	32.7	20.2			422.6	IT
2.6	0.5	0.1	0.3	0.1	0.0		1.3	0.6	0.7		0.0	9.3	CY
3.5	1.6	0.5	0.6	0.5	0.0	0.1	0.9	2.3	0.6		0.0	11.0	LV
6.3	1.6	0.3	1.0	0.3	0.0	0.5	2.8	4.3	0.9		0.0	20.5	LT
6.8	1.7	0.7	1.0	0.0	0.0	0.0	0.6	0.7	0.1			11.3	LU
14.4	13.4	2.9	8.9	1.6	0.1	2.0	7.1	7.2	3.7			64.6	HU
0.9	0.2	0.1	0.0	0.0	0.0		0.2	0.1	0.2			2.4	MT
32.8	35.0	6.8	17.5	10.6	0.2	1.5	8.3	18.0	3.5		0.5	175.0	NL
23.2	10.1	1.6	7.5	1.0	0.0	0.3	17.0	7.2	1.2			78.8	AT
70.8	54.4	7.7	35.2	11.4		23.1	24.6	34.0	4.7		0.5	402.4	PL
17.9	4.4	1.0	2.1	1.4	0.1	1.0	7.1	7.3	5.0		0.2	58.5	PT
19.8	13.4	2.1	9.7	1.7	1.1	9.4	12.8	19.2	6.5			115.7	RO
5.2	1.3	0.3	0.8	0.2	0.0	0.4	1.1	1.8	0.4			16.1	SI
7.6	5.3	1.5	3.5	0.4	0.1	0.5	9.5	2.4	1.9		0.0	41.3	SK
10.8	3.7	1.2	1.1	1.4	0.8	0.1	5.3	6.3	1.8		0.1	48.7	FI
16.4	2.4	0.7	0.6	1.1		0.1	7.0	6.7	1.0			48.8	SE
1.3	0.6	0.0	0.0	0.6	0.0	0.2	2.0	0.6	0.3			5.1	IS
12.8	3.1	1.1	0.6	1.4	0.1	2.1	9.0	4.7	1.4		0.3	49.7	NO
16.1	12.2	3.7	7.9	0.6	0.1	0.2	3.9	5.9	1.1	0.0	0.1	47.6	CH

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

## 3.2.4

## GHG emissions (\*) 2021

### BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
EU-27	77.2	75.4	23.7	20.2	2.6	0.9	12.4	2.2	0.3	2.0	0.7	1.0	6.2
BE	75.0	74.5	15.7	11.2	4.4	0.1	12.1	1.1	0.4	3.6	0.5	2.1	4.4
BG	75.1	71.9	40.6	39.2	1.3	0.0	8.4	0.2	0.5	2.9	0.2	0.6	4.0
CZ	74.6	72.4	34.4	32.9	0.4	1.1	10.8	1.8	0.2	2.7	0.7	1.0	4.4
DK	65.9	65.5	18.4	14.4	2.1	2.0	8.4	0.2		0.5	0.1	2.1	5.6
DE	84.8	84.4	30.9	27.2	2.6	1.1	16.2	4.9	0.0		0.0	0.0	11.3
EE	82.8	82.6	54.9	42.7		12.2	3.1	0.0	0.0	0.1	0.4	0.6	1.9
IE	57.2	57.1	16.0	15.4	0.5	0.1	7.3	0.0	2.1	0.6	0.0	1.7	2.9
EL	70.1	69.6	31.8	25.2	6.6	0.0	6.0	0.1	0.8	0.8	0.1	0.8	3.4
ES	75.5	74.2	13.9	10.5	3.0	0.3	15.7	2.2	0.6	3.1	1.5	1.7	6.5
FR	70.1	69.4	9.3	7.6	1.2	0.5	10.5	1.0	0.2	2.5	0.6	2.0	4.2
HR	67.0	65.2	15.2	11.2	3.0	1.0	9.8	0.2	0.1	0.9	0.5	1.0	7.0
IT	79.9	78.6	20.5	15.4	3.9	1.1	12.7	2.3	0.2	2.7	1.3	1.0	5.3
CY	72.4	72.4	33.2	33.2		0.0	5.7		0.0	0.1	0.0	0.7	4.9
LV	66.3	65.3	13.1	12.6		0.5	6.0	0.0	0.0	0.3	0.1	0.9	4.8
LT	60.8	58.5	13.6	7.5	5.9	0.2	6.2			1.4	0.2	1.2	3.5
LU	88.0	87.7	2.0	2.0			10.6	2.7	0.4	1.1	0.0	0.1	6.2
HU	72.0	69.0	17.8	15.0	2.3	0.4	8.1	0.2	0.3	0.6	0.6	1.4	5.0
MT	78.0	78.0	32.4	32.4			2.3						2.3
NL	82.7	81.8	27.1	20.2	5.4	1.4	15.9	2.5	0.1	8.4	0.5	2.0	2.4
AT	67.8	67.3	11.2	7.3	3.5	0.5	13.9	2.3	0.4	2.0	2.3	1.0	5.9
PL	84.2	78.4	39.8	37.8	1.1	0.9	7.5	1.0	0.3	1.7	0.4	1.0	3.1
PT	66.6	64.8	14.0	11.0	3.0		12.5	0.1		2.1	1.8	1.2	7.3
RO	66.7	58.6	16.3	13.6	1.7	1.1	12.5	0.8	0.4	2.6	0.3	0.8	7.7
SI	79.2	77.0	26.0	26.0		0.0	10.7	1.3	0.9	0.5	1.5	0.6	6.0
SK	66.5	65.3	16.9	10.6	3.7	2.6	17.0	7.7	0.3	1.2	0.8	0.8	6.4
FI	72.2	72.0	27.5	24.4	2.4	0.7	13.2	1.8	0.2	1.5	4.8	0.2	4.7
SE	70.0	69.9	18.4	12.0	5.7	0.7	12.9	2.7	0.2	0.9	1.5	0.5	7.0
IS	43.0	39.4	0.1	0.1			1.5	0.0	0.2			0.4	0.9
NO	69.0	64.7	26.7	3.0	1.5	22.2	5.7	0.1	0.4	0.3	0.2	0.6	4.0
CH	76.7	76.2	6.8	6.2	0.6	0.0	9.7	0.5	0.2	1.3	0.3	1.5	5.8

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

## GHG emissions (\*) 2021

### 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 <sub>2</sub>	TOTAL EMISSIONS	
24.1	15.0	3.7	9.2	2.2	0.2	1.7	9.0	10.7	3.1		0.1	100	EU-27
24.6	21.9	5.1	14.3	2.5	0.1	0.6	15.7	8.1	1.1			100	BE
19.1	3.9	0.8	2.2	0.9	0.0	3.2	8.3	11.2	5.2		0.1	100	BG
16.2	10.8	2.2	7.6	1.0	0.3	2.2	13.5	6.6	4.8		0.5	100	CZ
29.9	8.3	1.7	3.4	3.1	0.5	0.4	4.1	26.8	2.7		0.5	100	DK
21.3	15.8	4.3	10.7	0.8	0.1	0.5	7.3	7.2	0.6			100	DE
19.5	5.1	2.0	1.4	1.7		0.2	2.3	12.4	2.5			100	EE
19.4	14.3	2.4	10.9	1.1		0.2	5.1	36.2	1.5			100	IE
24.1	7.6	0.8	6.0	0.8	0.0	0.6	12.5	10.1	7.3			100	EL
31.6	12.9	3.3	5.4	4.2	0.1	1.3	8.1	11.6	4.8			100	ES
31.3	17.9	5.1	10.1	2.7	0.5	0.6	9.8	15.6	4.3		0.2	100	FR
26.5	13.6	2.7	7.9	3.0		1.8	14.5	10.9	7.6			100	HR
25.6	19.7	5.9	11.9	1.8	0.1	1.4	7.5	7.7	4.8			100	IT
28.1	5.2	1.0	3.2	0.9	0.2		13.7	6.7	7.1		0.1	100	CY
31.6	14.4	4.4	5.3	4.8	0.2	1.0	7.9	20.5	5.1		0.1	100	LV
30.8	7.7	1.5	5.0	1.2	0.1	2.4	13.5	21.1	4.4		0.2	100	LT
60.3	14.8	5.8	8.8	0.2	0.0	0.3	5.0	6.2	0.8			100	LU
22.3	20.7	4.5	13.7	2.4	0.2	3.0	11.1	11.1	5.8			100	HU
36.8	6.4	3.8	1.7	1.0	0.1		9.9	3.7	8.4			100	MT
18.8	20.0	3.9	10.0	6.1	0.1	0.9	4.7	10.3	2.0		0.3	100	NL
29.4	12.8	2.0	9.6	1.2	0.0	0.4	21.5	9.2	1.5			100	AT
17.6	13.5	1.9	8.8	2.8		5.7	6.1	8.5	1.2		0.1	100	PL
30.6	7.5	1.7	3.5	2.3	0.1	1.8	12.2	12.4	8.6		0.3	100	PT
17.1	11.6	1.8	8.3	1.5	1.0	8.2	11.1	16.6	5.6			100	RO
32.4	7.8	1.6	4.8	1.4	0.0	2.2	6.9	11.2	2.7			100	SI
18.4	12.9	3.5	8.4	0.9	0.2	1.2	23.0	5.9	4.6		0.1	100	SK
22.2	7.5	2.4	2.2	2.9	1.6	0.2	11.0	12.9	3.7		0.1	100	FI
33.7	5.0	1.3	1.3	2.3		0.1	14.3	13.7	2.0			100	SE
25.9	11.9	0.0	0.1	11.8	0.1	3.5	39.5	12.2	5.3			100	IS
25.8	6.3	2.3	1.2	2.8	0.2	4.2	18.1	9.5	2.9		0.5	100	NO
33.8	25.7	7.8	16.7	1.2	0.2	0.5	8.3	12.4	2.4	0.0	0.2	100	CH

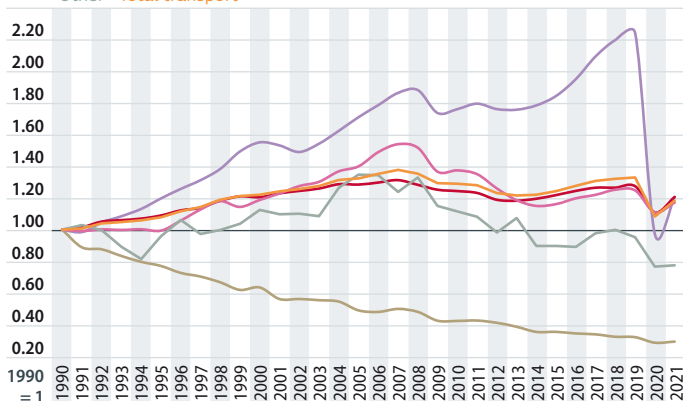
**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.  
 (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

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

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORTATION (****)	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
1990	65.9	11.8	54.1	620.0	12.8	123.8	21.7	102.1	6.1	828.7	5 023.2
1995	78.9	13.2	65.7	675.5	9.9	123.1	20.5	102.6	5.8	893.2	4 728.5
2000	102.3	17.3	85.0	747.0	8.1	147.1	19.0	128.1	6.8	1 011.4	4 665.1
2005	112.8	16.7	96.1	796.5	6.3	173.4	19.7	153.7	8.2	1 097.2	4 791.7
2010	116.2	15.8	100.4	771.0	5.4	170.2	18.6	151.6	6.7	1 069.6	4 432.7
2015	121.7	13.2	108.5	755.4	4.5	143.9	14.7	129.2	5.4	1 030.9	4 050.1
2020	64.0	7.9	56.1	687.6	3.7	137.4	16.4	121.0	4.6	897.3	3 480.7
2021	79.6	9.8	69.8	747.9	3.8	145.1	16.0	129.1	4.7	980.9	3 670.5

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



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

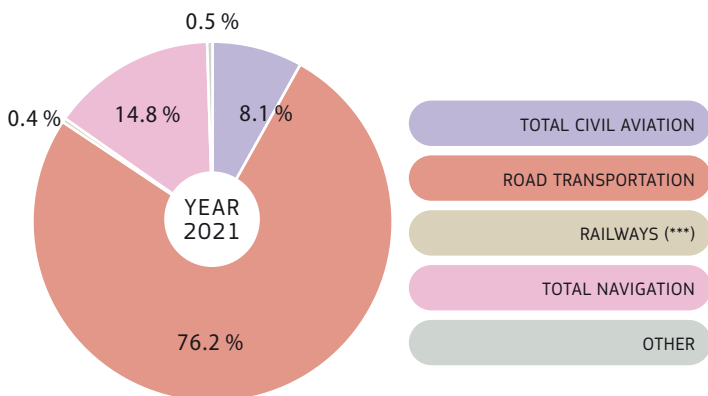


## GHG emissions from transport 3.2.5

### EU-27 – BY MODE (SHARES %)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORT (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.0	1.4	6.5	74.8	1.5	14.9	2.6	12.3	0.7	16.5	100
1995	8.8	1.5	7.4	75.6	1.1	13.8	2.3	11.5	0.6	18.9	100
2000	10.1	1.7	8.4	73.9	0.8	14.5	1.9	12.7	0.7	21.7	100
2005	10.3	1.5	8.8	72.6	0.6	15.8	1.8	14.0	0.7	22.9	100
2010	10.9	1.5	9.4	72.1	0.5	15.9	1.7	14.2	0.6	24.1	100
2015	11.8	1.3	10.5	73.3	0.4	14.0	1.4	12.5	0.5	25.5	100
2020	7.1	0.9	6.3	76.6	0.4	15.3	1.8	13.5	0.5	25.8	100
2021	8.1	1.0	7.1	76.2	0.4	14.8	1.6	13.2	0.5	26.7	100



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

## 3.2.6 GHG emissions from transport – 2021

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

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
EU-27	79.6	9.8	69.8	747.9	3.8	145.1	16.0	129.1	4.7	980.9	3 670.5
BE	4.6	0.0	4.6	23.0	0.1	26.1	0.4	25.7	0.4	54.2	141.3
BG	0.5	0.0	0.5	9.7	0.0	0.3	0.0	0.3	0.1	10.7	54.7
CZ	0.4	0.0	0.4	18.6	0.2	0.0	0.0		0.0	19.3	119.4
DK	1.4	0.1	1.3	11.4	0.2	1.9	0.5	1.4		14.9	46.5
DE	19.0	0.7	18.3	143.7	0.9	5.3	1.5	3.8	0.8	169.7	782.5
EE	0.1	0.0	0.1	2.3	0.0	1.0	0.0	0.9		3.4	13.7
IE	1.3	0.0	1.3	10.3	0.1	0.9	0.4	0.5	0.2	12.8	64.0
EL	2.9	0.3	2.5	14.5		8.0	1.9	6.1		25.4	86.1
ES	10.5	2.2	8.3	80.2	0.1	26.6	2.8	23.7	0.1	117.5	320.9
FR	12.2	3.8	8.4	118.4	0.3	4.9	1.3	3.6	0.2	136.1	426.8
HR	0.3	0.0	0.3	6.0	0.0	0.2	0.2	0.1		6.6	24.8
IT	6.7	1.7	5.0	96.0	0.1	10.3	4.6	5.7	0.9	114.0	428.3
CY	0.6	0.0	0.6	2.0		0.8	0.0	0.8		3.4	10.1
LV	0.2	0.0	0.2	3.1	0.1	0.8	0.0	0.7		4.2	11.7
LT	0.2	0.0	0.2	5.9	0.2	0.6	0.0	0.6	0.0	6.9	21.1
LU	1.9	0.0	1.9	4.9	0.0	0.0	0.0	0.0		6.8	11.3
HU	0.4	0.0	0.4	13.8	0.1	0.0	0.0		0.1	14.4	64.6
MT	0.2	0.0	0.2	0.6		6.4	0.1	6.3		7.2	8.7
NL	7.4	0.0	7.3	24.5	0.1	36.9	0.8	36.1	0.1	69.0	211.1
AT	1.3	0.0	1.2	21.4	0.1	0.1	0.0	0.1	0.4	23.2	78.8
PL	2.5	0.1	2.5	67.2	0.3	1.1	0.0	1.1	0.7	71.9	403.5
PT	2.4	0.3	2.0	15.3	0.0	2.4	0.2	2.2		20.1	60.7
RO	0.4	0.1	0.2	18.8	0.4	0.3	0.2	0.1	0.0	19.9	115.8
SI	0.0	0.0	0.0	5.2	0.0	0.3	0.0	0.3	0.0	5.5	16.4
SK	0.1	0.0	0.1	7.3	0.1	0.0	0.0	0.0	0.1	7.6	41.4
FI	0.9	0.1	0.8	9.5	0.1	1.2	0.4	0.9		11.7	49.6
SE	1.2	0.2	1.0	14.2	0.0	8.7	0.6	8.1	0.4	24.5	56.9
IS	0.4	0.0	0.4	0.9		0.1	0.0	0.1	0.0	1.4	5.2
NO	1.3	0.8	0.5	8.7	0.0	3.8	2.8	1.1		13.9	50.8
CH	2.4	0.1	2.3	13.5	0.0	0.1	0.1	0.0	0.0	16.1	47.6

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

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

# GHG emissions from transport 3.2.6

## 2021 – BY MODE (SHARES %)

### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
EU-27	8.1	1.0	7.1	76.2	0.4	14.8	1.6	13.2	0.5	26.7	100
BE	8.5	0.0	8.4	42.4	0.1	48.2	0.7	47.5	0.8	38.4	100
BG	4.8	0.1	4.6	91.2	0.3	2.5	0.0	2.5	1.2	19.5	100
CZ	2.0	0.1	2.0	96.5	1.2	0.1	0.1		0.2	16.2	100
DK	9.1	0.6	8.5	76.6	1.3	13.0	3.7	9.3		31.9	100
DE	11.2	0.4	10.8	84.7	0.5	3.1	0.9	2.2	0.5	21.7	100
EE	4.0	0.2	3.8	66.4	1.4	28.2	0.5	27.7		25.0	100
IE	10.5	0.2	10.3	80.4	0.9	7.1	2.9	4.1	1.2	20.1	100
EL	11.2	1.3	10.0	57.1		31.6	7.6	24.0		29.5	100
ES	8.9	1.9	7.1	68.2	0.1	22.6	2.4	20.2	0.1	36.6	100
FR	9.0	2.8	6.2	87.0	0.3	3.6	1.0	2.6	0.2	31.9	100
HR	4.9	0.3	4.5	91.0	0.8	3.4	2.3	1.1		26.7	100
IT	5.9	1.5	4.4	84.2	0.1	9.0	4.0	5.0	0.8	26.6	100
CY	16.4	0.0	16.3	59.9		23.8	0.1	23.7		33.8	100
LV	5.8	0.1	5.7	74.3	2.0	17.8	0.2	17.6		35.9	100
LT	2.7	0.0	2.7	85.3	2.4	8.8	0.2	8.7	0.6	32.8	100
LU	27.7	0.0	27.7	72.2	0.1	0.0	0.0	0.0		60.3	100
HU	2.7	0.0	2.6	96.0	0.8	0.1	0.1		0.4	22.3	100
MT	3.5	0.0	3.5	7.8		88.7	1.0	87.8		82.6	100
NL	10.7	0.0	10.7	35.6	0.1	53.5	1.1	52.4	0.1	32.7	100
AT	5.4	0.1	5.3	92.1	0.4	0.4	0.2	0.3	1.6	29.5	100
PL	3.5	0.1	3.4	93.5	0.4	1.6	0.0	1.5	1.0	17.8	100
PT	11.7	1.7	10.0	76.3	0.1	11.8	1.0	10.8		33.1	100
RO	2.0	0.7	1.3	94.4	2.2	1.3	0.8	0.5	0.1	17.2	100
SI	0.5	0.0	0.5	93.9	0.4	5.1	0.0	5.1	0.0	33.6	100
SK	0.9	0.0	0.9	96.0	1.2	0.3	0.1	0.2	1.6	18.4	100
FI	7.8	0.7	7.1	81.0	0.6	10.7	3.1	7.6		23.6	100
SE	4.9	0.8	4.1	57.9	0.2	35.6	2.6	32.9	1.6	43.1	100
IS	30.3	1.5	28.8	59.7		9.8	1.2	8.6	0.2	27.7	100
NO	9.6	5.9	3.8	62.4	0.3	27.6	19.9	7.7		27.3	100
CH	14.9	0.4	14.5	84.1	0.2	0.8	0.7	0.1	0.0	33.8	100

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

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

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

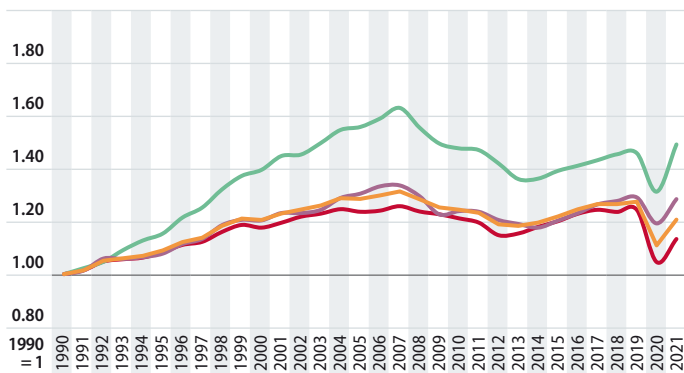
### 3.2.7 GHG emissions from road transport

#### EU-27 – BY TRANSPORT MEAN

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

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	620.0	388.9	59.1	163.1	8.6	0.4	828.7	5 023.2
1995	675.5	421.4	68.1	175.8	10.0	0.2	893.2	4 728.5
2000	747.0	457.2	82.4	196.2	11.0	0.1	1 011.4	4 665.1
2005	796.5	480.5	92.0	212.7	11.0	0.2	1 097.2	4 791.7
2010	771.0	470.8	87.2	202.0	10.9	0.1	1 069.6	4 432.7
2015	755.4	466.6	82.2	196.1	10.4	0.1	1 030.9	4 050.1
2020	687.6	406.6	77.5	194.4	9.0	0.1	897.3	3 480.7
2021	747.9	440.5	88.1	209.4	9.8	0.1	980.9	3 670.5

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



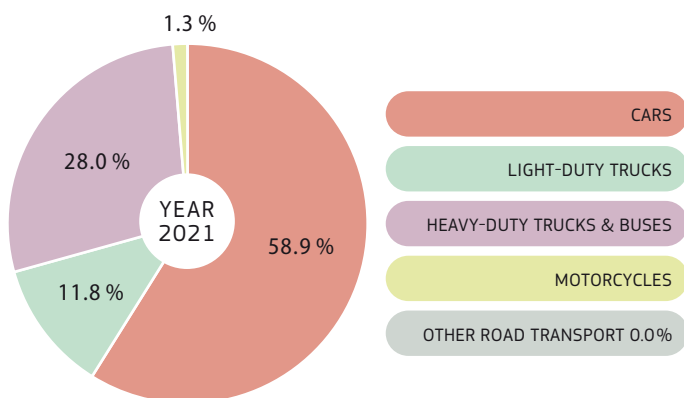
**NB:** (\*) Including international bunkers (international traffic departing from the EU).  
 (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

## GHG emissions from road transport 3.2.7

### EU-27 – BY TRANSPORT MEAN

(SHARES %)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	74.8	46.9	7.1	19.7	1.0	0.0	16.5	100
1995	75.6	47.2	7.6	19.7	1.1	0.0	18.9	100
2000	73.9	45.2	8.1	19.4	1.1	0.0	21.7	100
2005	72.6	43.8	8.4	19.4	1.0	0.0	22.9	100
2010	72.1	44.0	8.2	18.9	1.0	0.0	24.1	100
2015	73.3	45.3	8.0	19.0	1.0	0.0	25.5	100
2020	76.6	45.3	8.6	21.7	1.0	0.0	25.8	100
2021	76.2	44.9	9.0	21.3	1.0	0.0	26.7	100



**NB:** (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

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

## 3.2.8

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

(MILLION TONNES)

	1990	1995	2000	2005	2010	2015	2020	2021
<b>EU-27</b>	<b>3 933.7</b>	<b>3 712.9</b>	<b>3 697.3</b>	<b>3 842.8</b>	<b>3 544.2</b>	<b>3 213.1</b>	<b>2 697.4</b>	<b>2 886.3</b>
BE	123.4	128.8	131.4	129.2	118.8	105.5	94.7	100.2
BG	77.4	58.9	45.7	51.2	48.4	48.7	37.0	42.8
CZ	166.9	133.7	129.0	127.8	119.4	106.7	92.7	97.7
DK	56.3	64.6	57.5	54.8	52.1	38.0	29.5	31.1
DE	1 066.8	954.8	918.4	888.5	855.4	822.6	660.9	696.9
EE	37.0	18.1	15.5	17.2	19.1	16.0	9.3	10.5
IE	34.0	37.0	47.1	50.6	44.1	41.2	36.3	38.9
EL	85.9	89.6	105.5	116.5	99.9	77.8	56.9	60.1
ES	235.2	272.7	319.6	379.9	295.5	285.3	220.0	238.5
FR	407.1	403.6	428.5	441.2	403.0	359.1	299.3	324.8
HR	23.5	17.1	19.9	23.6	21.3	18.2	17.0	17.7
IT	443.2	455.2	478.5	510.8	445.3	371.5	307.1	342.2
CY	5.4	6.7	7.9	8.8	8.9	7.7	7.2	7.6
LV	19.9	9.2	7.2	8.0	8.9	7.6	7.2	7.5
LT	36.2	15.2	11.9	14.0	14.0	13.3	13.7	14.1
LU	12.2	9.7	9.7	13.4	12.5	10.7	9.7	10.3
HU	73.9	62.2	59.2	61.2	52.8	47.3	47.6	48.9
MT	2.6	2.8	2.8	2.9	2.9	2.0	1.8	1.9
NL	168.2	181.5	182.4	189.2	193.0	175.6	143.7	147.7
AT	63.0	65.4	67.9	81.1	74.1	68.5	63.2	67.2
PL	377.6	363.8	318.7	324.2	336.2	315.1	304.4	333.3
PT	46.9	56.3	67.8	72.1	55.7	55.5	43.4	42.1
RO	177.3	126.3	93.8	102.2	86.6	78.7	74.2	77.4
SI	15.1	15.4	15.1	17.0	16.5	13.7	12.9	13.1
SK	61.6	44.3	41.3	43.0	38.6	34.7	31.2	35.3
FI	58.1	59.1	58.2	58.4	65.8	46.2	38.7	38.8
SE	58.8	60.9	56.9	55.8	55.2	45.6	37.6	39.5
IS	2.4	2.7	3.3	3.4	4.0	4.2	3.6	3.9
NO	35.7	39.0	43.0	44.2	47.0	47.1	41.7	41.4
CH	47.6	47.4	48.5	49.4	49.4	43.8	36.4	38.2

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

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

(MILLION TONNES)

## INCLUDING INTERNATIONAL BUNKERS (\*)

	1990	1995	2000	2005	2010	2015	2020	2021
<b>EU-27</b>	<b>815.1</b>	<b>877.5</b>	<b>996.7</b>	<b>1 085.4</b>	<b>1 059.0</b>	<b>1 020.4</b>	<b>887.5</b>	<b>969.5</b>
BE	37.0	38.5	45.6	55.3	55.5	49.9	45.5	53.7
BG	7.2	6.0	5.8	8.6	8.7	9.9	9.8	10.6
CZ	11.7	10.8	12.4	18.1	17.6	18.2	17.9	19.1
DK	15.3	18.7	18.6	18.3	17.7	17.3	14.4	14.7
DE	180.3	195.6	205.6	190.0	185.2	192.7	161.8	167.9
EE	3.1	1.9	2.0	2.6	3.0	3.3	3.2	3.4
IE	6.2	7.6	12.9	15.7	14.1	14.7	11.8	12.7
EL	24.7	30.1	32.4	33.1	33.4	25.5	21.8	24.9
ES	74.1	85.8	114.1	139.2	131.0	121.8	100.0	116.3
FR	137.1	147.9	162.5	164.9	156.3	155.4	120.3	134.7
HR	4.4	3.6	4.6	5.8	6.2	6.3	6.0	6.6
IT	108.9	121.3	133.4	141.9	131.6	120.1	93.6	112.8
CY	2.1	2.5	3.2	3.8	3.8	3.4	3.1	3.4
LV	4.7	2.6	2.3	4.1	4.4	4.2	3.9	4.1
LT	6.4	3.7	3.5	4.7	4.9	5.5	6.8	6.8
LU	3.0	3.9	5.8	8.5	7.8	7.0	6.2	6.7
HU	9.3	8.0	9.8	12.8	12.4	12.7	12.8	14.2
MT	1.5	2.3	3.1	2.9	5.5	5.9	7.8	7.1
NL	67.1	72.4	84.8	96.4	89.3	81.2	68.8	68.2
AT	14.7	17.0	20.4	26.8	24.5	24.7	22.0	23.0
PL	22.2	24.3	29.7	37.6	50.9	49.9	64.7	70.4
PT	13.6	16.6	23.0	23.5	23.1	21.4	18.4	19.9
RO	12.9	8.9	10.0	12.8	14.6	16.3	18.4	19.6
SI	2.7	3.9	3.6	4.5	5.4	5.6	4.9	5.5
SK	6.8	5.5	5.7	7.7	7.5	7.4	7.1	7.5
FI	14.7	13.0	15.0	15.6	14.9	13.6	12.2	11.6
SE	23.4	25.1	27.0	30.1	29.9	26.5	24.2	24.1
IS	0.9	0.9	1.1	1.3	1.3	1.7	1.2	1.4
NO	12.7	13.6	15.4	16.3	16.7	16.8	13.3	13.6
CH	17.5	17.7	20.4	19.2	20.5	20.1	15.5	16.0

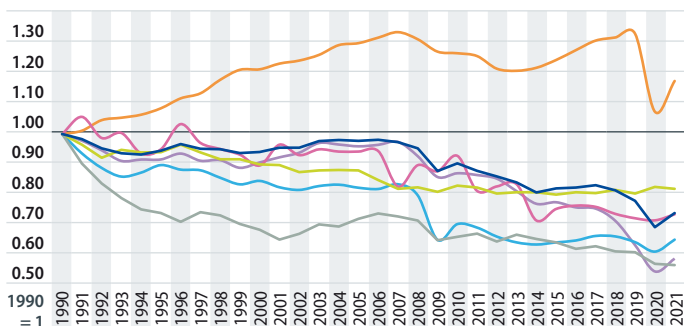
**NB:** (\*) The activity data used in GHG inventories to report international maritime emissions (emissions from bunker fuels) are not fully consistent with the energy statistics on bunker fuels for some years and countries.

## 3.2.10

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

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	3599.2	3576.0	1434.7	1227.0	106.9	100.8	723.4	151.2	12.2	101.8	29.8	45.2	383.2
1995	3408.7	3387.4	1311.5	1119.3	109.8	82.4	640.3	130.4	11.6	98.4	33.9	54.7	311.2
2000	3390.2	3369.4	1297.0	1119.5	116.3	61.3	581.1	116.4	12.8	86.7	31.8	48.6	284.9
2005	3529.7	3508.8	1375.1	1188.9	123.5	62.6	550.1	104.6	11.4	84.0	30.2	45.0	274.9
2010	3284.1	3262.9	1244.6	1074.6	115.3	54.7	475.3	92.9	11.0	75.8	26.5	36.1	233.0
2015	2965.1	2942.9	1104.5	959.8	105.5	39.1	423.6	85.1	8.6	63.4	22.9	34.9	208.7
2020	2465.0	2446.0	769.7	644.6	92.8	32.3	407.3	69.4	8.3	66.3	21.8	34.2	207.2
2021	2638.7	2620.9	831.6	708.9	92.5	30.3	433.7	79.2	9.4	71.1	23.1	36.1	214.7

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



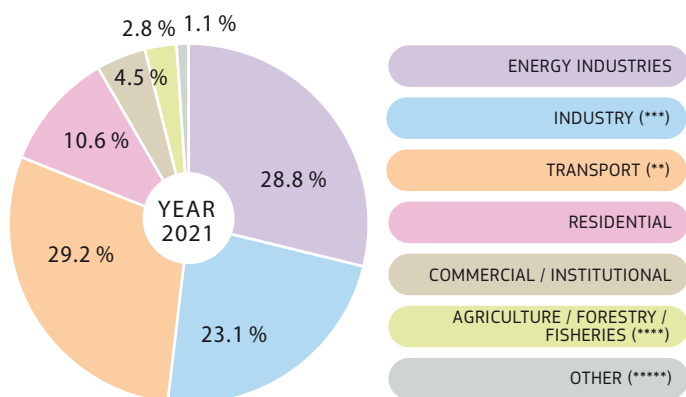
- NB: (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.  
 (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.  
 (\*\*\*)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



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

3.2.10

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE-WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
714.1	682.3	169.6	426.1	86.6	21.5	23.2	310.0	14.2	3.8		6.4	3933.7	1990
776.1	649.8	147.8	417.3	84.7	9.8	21.2	285.0	9.9	3.6		5.7	3712.9	1995
870.1	612.8	142.8	389.7	80.3	8.4	20.8	288.9	10.2	2.9		5.1	3697.3	2000
933.2	639.8	153.1	407.5	79.3	10.6	20.9	296.1	9.2	3.2		4.6	3842.8	2005
908.9	626.5	161.7	390.3	74.5	7.7	21.2	244.3	8.8	3.1		3.9	3544.2	2010
892.5	515.5	129.2	315.9	70.4	6.8	22.3	232.3	9.8	2.5		3.4	3213.1	2015
767.9	495.0	120.8	301.5	72.7	6.0	19.0	216.5	10.1	2.7		3.1	2697.4	2020
841.9	506.7	128.5	305.9	72.4	6.9	17.8	231.7	9.8	2.7		3.3	2886.3	2021



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

## 3.2.10

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

## BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES	Public electricity and heat production	Petroleum refining	Other energy industries	MANUFACTURING AND CONSTRUCTION	Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other
1990	91.5	90.9	36.5	31.2	2.7	2.6	18.4	3.8	0.3	2.6	0.8	1.1	9.7
1991	92.1	91.6	36.3	31.2	2.6	2.4	17.7	3.6	0.3	2.5	0.8	1.3	9.1
1992	92.3	91.7	36.2	31.3	2.7	2.2	17.3	3.5	0.3	2.3	0.8	1.3	9.1
1993	92.4	91.8	35.5	30.4	2.8	2.2	16.9	3.3	0.3	2.2	0.8	1.3	9.0
1994	91.9	91.4	35.8	30.6	2.9	2.3	17.0	3.5	0.3	2.4	0.9	1.4	8.5
1995	91.8	91.2	35.3	30.1	3.0	2.2	17.2	3.5	0.3	2.7	0.9	1.5	8.4
1996	92.2	91.7	35.3	30.2	3.0	2.0	16.6	3.2	0.3	2.5	0.9	1.5	8.3
1997	91.9	91.3	34.9	29.8	3.0	2.0	16.7	3.3	0.3	2.5	0.9	1.4	8.1
1998	91.9	91.3	35.1	30.0	3.1	1.9	16.0	3.2	0.3	2.3	0.9	1.4	8.0
1999	92.0	91.5	34.5	29.7	3.1	1.7	15.8	3.0	0.3	2.4	0.9	1.4	7.9
2000	91.7	91.1	35.1	30.3	3.1	1.7	15.7	3.1	0.3	2.3	0.9	1.3	7.7
2001	92.1	91.6	35.2	30.5	3.1	1.6	15.2	2.9	0.4	2.3	0.8	1.3	7.5
2002	92.1	91.6	35.8	31.1	3.1	1.6	14.9	2.8	0.3	2.2	0.8	1.3	7.5
2003	92.1	91.5	36.2	31.6	3.0	1.6	14.7	2.7	0.3	2.2	0.8	1.3	7.4
2004	91.8	91.3	35.9	31.2	3.2	1.6	14.5	2.7	0.3	2.2	0.8	1.2	7.2
2005	91.9	91.3	35.8	30.9	3.2	1.6	14.3	2.7	0.3	2.2	0.8	1.2	7.2
2006	91.7	91.1	35.8	31.0	3.2	1.7	14.0	2.7	0.3	2.1	0.8	1.1	7.0
2007	91.6	91.0	36.5	31.6	3.3	1.6	14.4	2.9	0.3	2.2	0.8	1.0	7.2
2008	91.9	91.3	35.4	30.6	3.3	1.6	14.2	2.8	0.3	2.2	0.7	1.0	7.2
2009	93.1	92.5	35.6	30.9	3.4	1.4	12.9	2.1	0.3	2.1	0.8	1.0	6.6
2010	92.7	92.1	35.1	30.3	3.3	1.5	13.4	2.6	0.3	2.1	0.7	1.0	6.6
2011	92.5	91.8	35.9	31.0	3.3	1.6	13.4	2.7	0.3	2.2	0.7	1.0	6.6
2012	92.7	92.1	36.1	31.6	3.2	1.3	13.2	2.6	0.3	2.2	0.7	1.0	6.5
2013	92.6	91.9	35.2	30.6	3.3	1.3	13.0	2.5	0.3	2.1	0.7	1.0	6.4
2014	92.1	91.4	34.7	30.1	3.3	1.3	13.1	2.5	0.3	2.0	0.7	1.1	6.5
2015	92.3	91.6	34.4	29.9	3.3	1.2	13.2	2.6	0.3	2.0	0.7	1.1	6.5
2016	92.2	91.6	33.5	29.0	3.3	1.2	13.3	2.5	0.3	2.0	0.7	1.1	6.7
2017	92.1	91.4	33.0	28.6	3.2	1.2	13.4	2.5	0.3	2.1	0.7	1.1	6.7
2018	92.0	91.3	31.8	27.4	3.1	1.3	13.7	2.6	0.3	2.2	0.7	1.1	6.8
2019	91.8	91.1	29.4	24.8	3.3	1.3	13.9	2.6	0.3	2.1	0.8	1.2	6.9
2020	91.4	90.7	28.5	23.9	3.4	1.2	15.1	2.6	0.3	2.5	0.8	1.3	7.7
2021	91.4	90.8	28.8	24.6	3.2	1.0	15.0	2.7	0.3	2.5	0.8	1.3	7.4

**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>. Indirect emissions from electricity use are not included in the CO<sub>2</sub> emissions from fuel combustion by manufacturing and construction, transport and other sectors (commercial/institutional, residential and agriculture/forestry/fisheries).

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

3.2.10

TRANSPORT (**)	OTHER SECTORS	Commercial / institutional	Residential	Agriculture / forestry / fisheries	OTHER (NOT ELSE- WHERE SPECIFIED)	FUGITIVE EMISSIONS FROM FUELS	INDUSTRIAL PROCESSES & PRODUCT USE	Agriculture	Waste	Other	Indirect CO <sub>2</sub>	TOTAL EMISSIONS	
18.2	17.3	4.3	10.8	2.2	0.5	0.6	7.9	0.4	0.1		0.2	100	1990
18.7	18.5	4.5	11.8	2.2	0.5	0.6	7.3	0.3	0.1		0.2	100	1991
20.0	17.9	4.2	11.5	2.2	0.4	0.6	7.2	0.3	0.1		0.2	100	1992
20.5	18.6	4.3	12.0	2.3	0.3	0.6	7.1	0.3	0.1		0.2	100	1993
20.8	17.5	4.0	11.2	2.3	0.3	0.6	7.6	0.3	0.1		0.2	100	1994
20.9	17.5	4.0	11.2	2.3	0.3	0.6	7.7	0.3	0.1		0.2	100	1995
21.0	18.5	4.3	11.9	2.3	0.2	0.5	7.3	0.3	0.1		0.1	100	1996
21.7	17.7	4.0	11.5	2.3	0.3	0.6	7.6	0.3	0.1		0.1	100	1997
22.6	17.4	4.0	11.2	2.2	0.3	0.6	7.6	0.3	0.1		0.1	100	1998
23.6	17.3	4.1	11.0	2.2	0.2	0.6	7.5	0.3	0.1		0.1	100	1999
23.5	16.6	3.9	10.5	2.2	0.2	0.6	7.8	0.3	0.1		0.1	100	2000
23.5	17.4	4.2	11.1	2.1	0.2	0.5	7.4	0.3	0.1		0.1	100	2001
23.8	16.8	4.0	10.8	2.1	0.2	0.5	7.4	0.3	0.1		0.1	100	2002
23.6	16.8	3.9	10.8	2.1	0.2	0.6	7.5	0.3	0.1		0.1	100	2003
24.1	16.6	4.0	10.6	2.1	0.3	0.5	7.7	0.2	0.1		0.1	100	2004
24.3	16.7	4.0	10.6	2.1	0.3	0.5	7.7	0.2	0.1		0.1	100	2005
24.5	16.5	4.2	10.4	2.0	0.2	0.6	7.8	0.2	0.1		0.1	100	2006
25.1	14.7	3.7	9.1	1.9	0.2	0.6	8.0	0.2	0.1		0.1	100	2007
25.2	16.2	4.2	10.1	2.0	0.2	0.6	7.6	0.2	0.1		0.1	100	2008
26.5	17.2	4.4	10.7	2.1	0.2	0.6	6.5	0.3	0.1		0.1	100	2009
25.6	17.7	4.6	11.0	2.1	0.2	0.6	6.9	0.2	0.1		0.1	100	2010
26.2	16.1	4.0	9.9	2.1	0.2	0.6	7.1	0.3	0.1		0.1	100	2011
25.8	16.7	4.1	10.4	2.1	0.2	0.6	6.8	0.3	0.1		0.1	100	2012
26.3	17.2	4.3	10.7	2.2	0.2	0.7	6.9	0.3	0.1		0.1	100	2013
27.7	15.6	3.9	9.5	2.3	0.2	0.7	7.4	0.3	0.1		0.1	100	2014
27.8	16.0	4.0	9.8	2.2	0.2	0.7	7.2	0.3	0.1		0.1	100	2015
28.4	16.2	4.0	10.0	2.2	0.2	0.7	7.2	0.3	0.1		0.1	100	2016
28.9	16.0	4.0	9.8	2.2	0.2	0.7	7.4	0.3	0.1		0.1	100	2017
29.7	15.9	4.0	9.7	2.2	0.2	0.7	7.5	0.3	0.1		0.1	100	2018
31.3	16.3	4.1	9.9	2.3	0.2	0.7	7.7	0.3	0.1		0.1	100	2019
28.5	18.4	4.5	11.2	2.7	0.2	0.7	8.0	0.4	0.1		0.1	100	2020
29.2	17.6	4.5	10.6	2.5	0.2	0.6	8.0	0.3	0.1		0.1	100	2021

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

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

## 3.2.11

# CO<sub>2</sub> emissions (\*) 2021

## BY SECTOR (MILLION TONNES)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
EU-27	2638.7	2620.9	831.6	708.9	92.5	30.3	433.7	79.2	9.4	71.1	23.1	36.1	214.7
BE	84.9	84.8	18.0	12.8	5.1	0.2	13.8	1.3	0.4	4.1	0.6	2.5	5.0
BG	39.0	38.4	22.0	21.2	0.7	0.0	4.5	0.1	0.2	1.6	0.1	0.3	2.2
CZ	84.7	84.6	40.8	39.1	0.5	1.3	12.8	2.1	0.3	3.3	0.8	1.2	5.2
DK	29.0	28.9	8.1	6.3	0.9	0.9	3.7	0.1		0.2	0.1	0.9	2.5
DE	649.6	647.8	236.0	207.3	20.0	8.6	125.0	37.8	0.1		0.0	0.1	86.9
EE	10.4	10.4	6.9	5.4		1.5	0.4	0.0	0.0	0.0	0.1	0.1	0.2
IE	35.7	35.7	10.1	9.7	0.3	0.1	4.6	0.0	1.3	0.4	0.0	1.1	1.8
EL	55.0	55.0	25.4	20.1	5.3	0.0	4.8	0.1	0.7	0.6	0.1	0.6	2.6
ES	220.3	216.8	40.8	30.8	9.0	0.9	45.4	6.5	1.9	8.9	4.2	4.9	19.0
FR	290.2	288.4	39.1	32.0	4.9	2.2	43.7	4.2	0.9	10.7	2.4	8.2	17.2
HR	15.8	15.5	3.7	2.7	0.7	0.2	2.4	0.1	0.0	0.2	0.1	0.2	1.7
IT	326.4	324.6	86.0	64.8	16.5	4.7	52.8	9.6	1.0	11.3	5.3	3.8	21.8
CY	6.7	6.7	3.1	3.1			0.5		0.0	0.0	0.0	0.1	0.4
LV	6.8	6.8	1.4	1.3		0.1	0.6	0.0	0.0	0.0	0.0	0.1	0.5
LT	11.8	11.6	2.7	1.5	1.2	0.0	1.3			0.3	0.0	0.2	0.7
LU	9.8	9.8	0.2	0.2			1.2	0.3	0.0	0.1	0.0	0.0	0.7
HU	43.8	43.7	11.4	9.6	1.5	0.3	5.2	0.1	0.2	0.4	0.4	0.9	3.2
MT	1.8	1.8	0.8	0.8			0.1						0.1
NL	141.6	140.5	47.0	35.0	9.5	2.4	27.7	4.4	0.2	14.6	0.9	3.5	4.1
AT	52.2	52.1	8.7	5.6	2.7	0.4	10.8	1.8	0.3	1.6	1.8	0.8	4.5
PL	312.3	308.0	159.5	151.6	4.4	3.6	29.8	4.1	1.1	6.8	1.4	4.1	12.2
PT	38.0	37.1	8.1	6.3	1.8		7.2	0.1		1.2	1.0	0.7	4.2
RO	66.5	65.8	18.8	15.7	1.9	1.2	14.4	0.9	0.4	3.0	0.3	0.9	8.8
SI	12.3	12.1	4.2	4.2		0.0	1.7	0.2	0.1	0.1	0.2	0.1	0.9
SK	26.5	26.5	6.9	4.3	1.5	1.1	7.0	3.2	0.1	0.5	0.3	0.3	2.6
FI	34.3	34.3	13.1	11.6	1.2	0.3	6.2	0.9	0.1	0.7	2.2	0.1	2.2
SE	33.4	33.4	8.7	5.6	2.8	0.3	6.2	1.3	0.1	0.4	0.7	0.3	3.3
IS	2.2	2.0	0.0	0.0			0.1	0.0	0.0			0.0	0.0
NO	33.0	31.4	13.1	1.4	0.7	10.9	2.8	0.1	0.2	0.2	0.1	0.3	1.9
CH	35.9	35.9	3.2	2.9	0.3		4.6	0.3	0.1	0.6	0.1	0.7	2.7

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

# CO<sub>2</sub> emissions (\*) 2021

## 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 <sub>2</sub>	TOTAL EMISSIONS	
841.9	506.7	128.5	305.9	72.4	6.9	17.8	231.7	9.8	2.7		3.3	2886.3	EU-27
28.1	24.7	5.8	16.2	2.6	0.1	0.1	14.9	0.2	0.3			100.2	BE
10.3	1.7	0.4	0.8	0.5	0.0	0.6	3.7	0.1	0.0		0.1	42.8	BG
19.1	11.6	2.6	7.8	1.2	0.3	0.1	11.9	0.3	0.1		0.7	97.7	CZ
13.3	3.5	0.8	1.4	1.4	0.2	0.1	1.5	0.3	0.0		0.2	31.1	DK
164.2	121.7	33.3	82.3	6.1	1.0	1.8	44.7	2.6				696.9	DE
2.5	0.6	0.3	0.2	0.2		0.0	0.1	0.0	0.0			10.5	EE
12.2	8.8	1.5	6.7	0.6		0.0	2.4	0.7	0.0			38.9	IE
19.0	5.7	0.6	4.5	0.6	0.0	0.0	5.1	0.0	0.0			60.1	EL
92.8	37.4	9.8	15.3	12.3	0.4	3.5	17.9	0.4				238.5	ES
131.1	72.4	21.4	40.5	10.5	2.1	1.8	30.0	2.0	1.7		1.0	324.8	FR
6.5	2.9	0.7	1.5	0.7		0.3	1.8	0.1				17.7	HR
107.2	78.3	24.6	46.7	7.1	0.3	1.8	15.2	0.5	0.1			342.2	IT
2.6	0.5	0.1	0.3	0.1	0.0		0.9	0.0			0.0	7.6	CY
3.4	1.3	0.4	0.4	0.5	0.0	0.0	0.6	0.1	0.0		0.0	7.5	LV
6.2	1.4	0.3	0.8	0.2	0.0	0.2	2.1	0.1	0.0		0.0	14.1	LT
6.7	1.7	0.6	1.0	0.0	0.0	0.0	0.5	0.0				10.3	LU
14.2	12.8	2.9	8.3	1.6	0.1	0.1	4.9	0.2	0.0			48.9	HU
0.9	0.2	0.1	0.0	0.0	0.0		0.0		0.0			1.9	MT
32.5	33.1	6.8	17.1	9.3	0.2	1.1	5.5	0.1			0.5	147.7	NL
22.9	9.6	1.6	7.2	0.9	0.0	0.1	14.9	0.1	0.0			67.2	AT
69.3	49.3	7.6	31.5	10.2		4.3	18.9	1.4	0.3		0.5	333.3	PL
17.7	4.0	1.0	1.7	1.3	0.1	0.9	3.8	0.0	0.0		0.2	42.1	PT
19.5	11.9	2.0	8.3	1.6	1.1	0.8	10.7	0.2	0.0			77.4	RO
5.2	1.1	0.3	0.6	0.2	0.0	0.1	0.8	0.0	0.0			13.1	SI
7.5	5.0	1.5	3.2	0.3	0.1	0.0	8.7	0.1	0.0		0.0	35.3	SK
10.7	3.4	1.2	0.8	1.4	0.8	0.1	4.2	0.2			0.1	38.8	FI
16.2	2.3	0.6	0.5	1.1		0.0	5.9	0.1	0.1			39.5	SE
1.3	0.6	0.0	0.0	0.6	0.0	0.2	1.8	0.0	0.0			3.9	IS
12.6	2.8	1.1	0.3	1.4	0.1	1.6	7.9	0.1	0.2		0.3	41.4	NO
15.9	12.1	3.7	7.9	0.6	0.1	0.0	2.1	0.0	0.0	0.0	0.1	38.2	CH

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

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

## 3.2.11

# CO<sub>2</sub> emissions (\*) 2021

## BY SECTOR (SHARES %)

	TOTAL ENERGY	FUEL COMBUSTION	ENERGY INDUSTRIES				MANUFACTURING AND CONSTRUCTION						
			Public electricity and heat production	Petroleum refining	Other energy industries		Iron and steel	Non-ferrous metals	Chemicals	Pulp, paper and print	Food, beverages and tobacco	Other	
EU-27	91.4	90.8	28.8	24.6	3.2	1.0	15.0	2.7	0.3	2.5	0.8	1.3	7.4
BE	84.7	84.6	18.0	12.8	5.1	0.2	13.8	1.2	0.4	4.1	0.6	2.5	5.0
BG	91.1	89.8	51.3	49.6	1.7	0.0	10.6	0.3	0.6	3.6	0.3	0.7	5.1
CZ	86.7	86.6	41.8	40.0	0.5	1.3	13.1	2.2	0.3	3.3	0.8	1.2	5.3
DK	93.3	93.0	26.1	20.2	3.0	2.9	12.0	0.3		0.7	0.2	2.9	7.9
DE	93.2	92.9	33.9	29.8	2.9	1.2	17.9	5.4	0.0		0.0	0.0	12.5
EE	98.8	98.8	65.9	51.2		14.7	3.7	0.0	0.0	0.1	0.5	0.8	2.3
IE	91.8	91.8	25.9	24.9	0.8	0.2	11.8	0.0	3.4	1.0	0.0	2.8	4.6
EL	91.5	91.5	42.3	33.5	8.8	0.0	8.0	0.2	1.1	1.1	0.1	1.0	4.4
ES	92.3	90.9	17.1	12.9	3.8	0.4	19.0	2.7	0.8	3.7	1.8	2.1	8.0
FR	89.3	88.8	12.0	9.9	1.5	0.7	13.4	1.3	0.3	3.3	0.8	2.5	5.3
HR	89.1	87.5	21.0	15.4	4.2	1.3	13.7	0.3	0.2	1.3	0.7	1.4	9.8
IT	95.4	94.9	25.1	18.9	4.8	1.4	15.4	2.8	0.3	3.3	1.6	1.1	6.4
CY	88.0	88.0	40.6	40.6			6.9		0.0	0.1	0.0	0.8	5.9
LV	90.7	90.7	18.6	17.9		0.7	8.1	0.0	0.0	0.4	0.1	1.2	6.3
LT	84.0	82.5	19.3	10.3	8.6	0.3	8.9			2.0	0.2	1.7	5.1
LU	94.9	94.9	2.1	2.1			11.4	3.0	0.5	1.2	0.0	0.1	6.5
HU	89.5	89.2	23.3	19.7	3.1	0.5	10.5	0.3	0.3	0.8	0.8	1.8	6.5
MT	99.7	99.7	41.6	41.6			2.9						2.9
NL	95.9	95.1	31.8	23.7	6.4	1.7	18.8	3.0	0.1	9.9	0.6	2.4	2.8
AT	77.6	77.4	13.0	8.4	4.1	0.5	16.0	2.6	0.4	2.4	2.7	1.2	6.7
PL	93.7	92.4	47.9	45.5	1.3	1.1	8.9	1.2	0.3	2.1	0.4	1.2	3.7
PT	90.3	88.1	19.2	15.0	4.2		17.0	0.2		2.8	2.3	1.7	10.0
RO	85.9	84.9	24.3	20.2	2.5	1.6	18.6	1.1	0.5	3.9	0.4	1.2	11.4
SI	93.6	92.8	31.9	31.9		0.0	13.1	1.6	1.1	0.6	1.9	0.7	7.2
SK	75.1	75.0	19.7	12.3	4.3	3.1	19.8	9.0	0.3	1.3	0.8	0.9	7.4
FI	88.4	88.3	33.8	29.9	3.0	0.8	16.1	2.3	0.2	1.9	5.7	0.3	5.8
SE	84.5	84.5	22.1	14.2	7.0	0.8	15.6	3.4	0.3	1.1	1.7	0.7	8.5
IS	54.9	50.5	0.1	0.1			1.9	0.0	0.2			0.6	1.0
NO	79.6	75.8	31.7	3.5	1.8	26.4	6.8	0.2	0.5	0.4	0.3	0.8	4.7
CH	94.0	94.0	8.4	7.6	0.7		11.9	0.7	0.3	1.6	0.4	1.9	7.1

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

# CO<sub>2</sub> emissions (\*) 2021

## 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 <sub>2</sub>	TOTAL EMISSIONS	
29.2	17.6	4.5	10.6	2.5	0.2	0.6	8.0	0.3	0.1		0.1	100	EU-27
28.1	24.6	5.8	16.2	2.6	0.1	0.1	14.8	0.2	0.3			100	BE
24.0	3.9	0.9	2.0	1.1	0.0	1.3	8.6	0.1	0.0		0.2	100	BG
19.6	11.9	2.6	8.0	1.2	0.3	0.1	12.2	0.3	0.1		0.7	100	CZ
42.9	11.3	2.4	4.6	4.3	0.7	0.4	4.9	0.9	0.1		0.8	100	DK
23.6	17.5	4.8	11.8	0.9	0.1	0.3	6.4	0.4				100	DE
23.2	5.9	2.4	1.6	2.0		0.0	1.0	0.3	0.0			100	EE
31.3	22.8	3.8	17.4	1.6		0.0	6.3	1.8	0.1			100	IE
31.6	9.5	1.0	7.6	0.9	0.1	0.0	8.4	0.1	0.0			100	EL
38.9	15.7	4.1	6.4	5.1	0.2	1.5	7.5	0.2				100	ES
40.4	22.3	6.6	12.5	3.2	0.7	0.5	9.2	0.6	0.5		0.3	100	FR
36.7	16.1	3.7	8.6	3.9		1.6	10.4	0.6				100	HR
31.3	22.9	7.2	13.6	2.1	0.1	0.5	4.4	0.1	0.0			100	IT
34.1	6.2	1.2	3.9	1.1	0.3		11.9	0.0			0.1	100	CY
45.7	18.0	5.9	5.8	6.3	0.3	0.0	8.0	1.1	0.0		0.2	100	LV
44.4	9.7	2.1	5.9	1.7	0.2	1.5	14.9	0.8	0.0		0.3	100	LT
65.4	16.1	6.3	9.6	0.2	0.0	0.0	4.9	0.1				100	LU
29.0	26.1	5.9	17.0	3.2	0.2	0.3	10.0	0.5	0.1			100	HU
46.9	8.1	4.8	2.1	1.2	0.2		0.3		0.0			100	MT
22.0	22.4	4.6	11.6	6.3	0.1	0.8	3.7	0.1			0.3	100	NL
34.1	14.3	2.3	10.7	1.3	0.0	0.1	22.2	0.2	0.0			100	AT
20.8	14.8	2.3	9.4	3.1		1.3	5.7	0.4	0.1		0.1	100	PL
42.1	9.5	2.3	4.1	3.1	0.2	2.2	9.1	0.1	0.1		0.4	100	PT
25.2	15.4	2.6	10.8	2.0	1.4	1.0	13.9	0.2	0.0			100	RO
39.5	8.2	1.9	4.7	1.6	0.0	0.9	6.0	0.2	0.1			100	SI
21.3	14.1	4.1	9.0	1.0	0.2	0.0	24.6	0.2	0.0		0.1	100	SK
27.6	8.7	3.0	2.2	3.6	2.0	0.2	10.9	0.5			0.1	100	FI
41.0	5.8	1.6	1.3	2.8		0.0	14.9	0.3	0.3			100	SE
33.3	15.2	0.0	0.1	15.0	0.1	4.5	44.7	0.2	0.2			100	IS
30.3	6.8	2.7	0.8	3.3	0.3	3.8	19.0	0.3	0.4		0.6		NO
41.7	31.7	9.6	20.6	1.5	0.3	0.1	5.5	0.1	0.0	0.0	0.3	100	CH

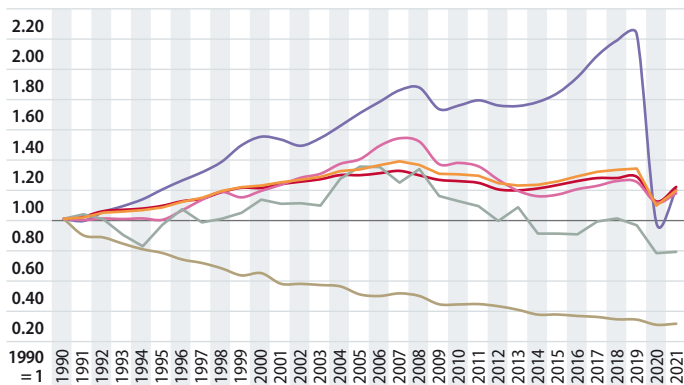
**NB:** (\*) Excluding LULUCF (land use, land-use change and forestry) emissions and international maritime, including international aviation and indirect CO<sub>2</sub>.  
 (\*\*) Excluding international maritime (international traffic departing from the EU), including international aviation.

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

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION			ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION			OTHER TRANSPORTATION (****)	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
	Civil aviation (domestic) (*)	International bunkers – Aviation				Navigation (domestic) (*)	International bunkers – Maritime transport				
1990	65.4	11.7	53.7	609.1	12.2	122.4	21.4	101.0	6.0	815.1	4 034.7
1995	78.3	13.1	65.2	662.5	9.4	121.5	20.1	101.4	5.7	877.5	3 814.3
2000	101.5	17.2	84.3	735.4	7.7	145.4	18.7	126.7	6.8	996.7	3 824.0
2005	111.9	16.6	95.3	787.9	6.0	171.5	19.3	152.2	8.1	1 085.4	3 994.9
2010	115.2	15.7	99.6	763.5	5.2	168.4	18.3	150.1	6.7	1 059.0	3 694.3
2015	120.7	13.0	107.7	747.7	4.3	142.3	14.5	127.8	5.4	1 020.4	3 340.9
2020	63.5	7.9	55.7	680.1	3.5	135.7	16.1	119.6	4.6	887.5	2 817.0
2021	78.3	9.7	68.5	739.8	3.6	143.3	15.7	127.6	4.7	969.5	3 013.9

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



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

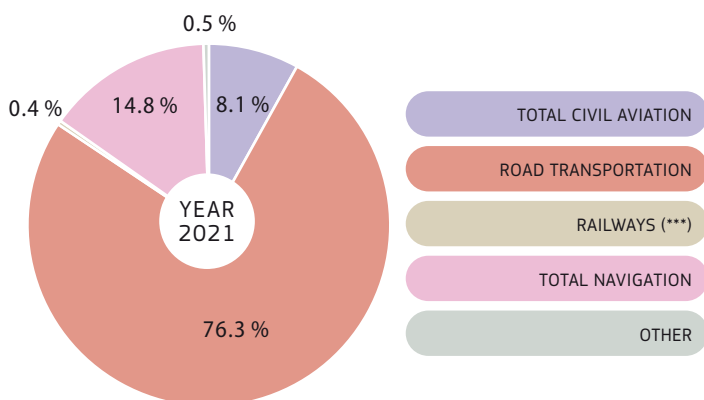


## CO<sub>2</sub> emissions from transport 3.2.12

### EU-27 – BY MODE (SHARES %)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS (***)	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORTATION (****)	TOTAL TRANSPORT (*****)	TOTAL EMISSIONS (**)
1990	8.0	1.4	6.6	74.7	1.5	15.0	2.6	12.4	0.7	20.2	100
1995	8.9	1.5	7.4	75.5	1.1	13.8	2.3	11.6	0.7	23.0	100
2000	10.2	1.7	8.5	73.8	0.8	14.6	1.9	12.7	0.7	26.1	100
2005	10.3	1.5	8.8	72.6	0.6	15.8	1.8	14.0	0.7	27.2	100
2010	10.9	1.5	9.4	72.1	0.5	15.9	1.7	14.2	0.6	28.7	100
2015	11.8	1.3	10.6	73.3	0.4	13.9	1.4	12.5	0.5	30.5	100
2020	7.2	0.9	6.3	76.6	0.4	15.3	1.8	13.5	0.5	31.5	100
2021	8.1	1.0	7.1	76.3	0.4	14.8	1.6	13.2	0.5	32.2	100



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

### 3.2.13 CO<sub>2</sub> emissions from transport 2021 – BY MODE (MILLION TONNES)

#### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT	TOTAL EMISSIONS (**)
EU-27	78.3	9.7	68.5	739.8	3.6	143.3	15.7	127.6	4.7	969.5	3 013.9
BE	4.6	0.0	4.5	22.7	0.1	25.9	0.4	25.6	0.4	53.7	125.8
BG	0.5	0.0	0.5	9.6	0.0	0.3	0.0	0.3	0.1	10.6	43.1
CZ	0.4	0.0	0.4	18.4	0.2	0.0	0.0		0.0	19.1	97.7
DK	1.3	0.1	1.3	11.3	0.2	1.9	0.5	1.4		14.7	32.5
DE	18.9	0.7	18.1	142.1	0.9	5.2	1.4	3.8	0.8	167.9	700.7
EE	0.1	0.0	0.1	2.3	0.0	1.0	0.0	0.9		3.4	11.5
IE	1.3	0.0	1.3	10.2	0.1	0.9	0.4	0.5	0.2	12.7	39.4
EL	2.8	0.3	2.5	14.3		7.8	1.8	5.9		24.9	66.0
ES	10.4	2.2	8.3	79.3	0.1	26.3	2.8	23.5	0.1	116.3	262.0
FR	12.1	3.8	8.4	117.1	0.3	4.8	1.3	3.5	0.2	134.7	328.3
HR	0.3	0.0	0.3	6.0	0.0	0.2	0.1	0.1		6.6	17.8
IT	6.7	1.7	5.0	95.0	0.1	10.2	4.5	5.6	0.9	112.8	347.8
CY	0.6	0.0	0.6	2.0		0.8	0.0	0.8		3.4	8.4
LV	0.2	0.0	0.2	3.1	0.1	0.7	0.0	0.7		4.1	8.2
LT	0.2	0.0	0.2	5.8	0.2	0.6	0.0	0.6	0.0	6.8	14.6
LU	1.9	0.0	1.9	4.9	0.0	0.0	0.0	0.0		6.7	10.3
HU	0.4	0.0	0.4	13.7	0.1	0.0	0.0		0.1	14.2	48.9
MT	0.2	0.0	0.2	0.6		6.3	0.1	6.2		7.1	8.1
NL	7.3	0.0	7.3	24.3	0.1	36.5	0.8	35.7	0.1	68.2	183.4
AT	1.3	0.0	1.2	21.2	0.1	0.1	0.0	0.1	0.4	23.0	67.3
PL	1.8	0.1	1.8	66.5	0.3	1.1	0.0	1.1	0.7	70.4	334.4
PT	2.3	0.3	2.0	15.2	0.0	2.4	0.2	2.1		19.9	44.2
RO	0.4	0.1	0.2	18.6	0.4	0.3	0.2	0.1	0.0	19.6	77.5
SI	0.0	0.0	0.0	5.1	0.0	0.3	0.0	0.3	0.0	5.5	13.4
SK	0.1	0.0	0.1	7.2	0.1	0.0	0.0	0.0	0.1	7.5	35.3
FI	0.9	0.1	0.8	9.4	0.1	1.2	0.4	0.9		11.6	39.7
SE	1.2	0.2	1.0	14.0	0.0	8.5	0.6	7.9	0.4	24.1	47.5
IS	0.4	0.0	0.4	0.9		0.1	0.0	0.1	0.0	1.4	4.0
NO	1.3	0.8	0.5	8.5	0.0	3.6	2.6	1.0		13.6	42.4
CH	2.4	0.1	2.3	13.4	0.0	0.1	0.1	0.0	0.0	16.0	38.2

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

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

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

## 2021 – BY MODE (SHARES %)

### INCLUDING INTERNATIONAL BUNKERS

	TOTAL CIVIL AVIATION	Civil aviation (domestic) (*)	International bunkers – Aviation	ROAD TRANSPORTATION	RAILWAYS	TOTAL NAVIGATION	Navigation (domestic) (*)	International bunkers – Maritime transport	OTHER TRANSPORTATION	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
EU-27	8.1	1.0	7.1	76.3	0.4	14.8	1.6	13.2	0.5	32.2	100
BE	8.5	0.0	8.5	42.3	0.1	48.3	0.7	47.6	0.8	42.7	100
BG	4.8	0.1	4.6	91.2	0.3	2.5	0.0	2.5	1.2	24.5	100
CZ	2.0	0.1	2.0	96.5	1.2	0.1	0.1		0.2	19.6	100
DK	9.1	0.6	8.6	76.6	1.3	13.0	3.7	9.3		45.3	100
DE	11.2	0.4	10.8	84.7	0.5	3.1	0.9	2.2	0.5	24.0	100
EE	4.0	0.2	3.8	66.5	1.3	28.3	0.5	27.7		29.5	100
IE	10.5	0.2	10.4	80.4	0.8	7.1	2.9	4.2	1.2	32.3	100
EL	11.4	1.3	10.1	57.5		31.1	7.4	23.8		37.8	100
ES	9.0	1.9	7.1	68.2	0.1	22.6	2.4	20.2	0.1	44.4	100
FR	9.0	2.8	6.2	87.0	0.3	3.6	1.0	2.6	0.2	41.0	100
HR	4.9	0.3	4.5	91.0	0.7	3.4	2.3	1.1		36.9	100
IT	5.9	1.5	4.4	84.2	0.1	9.0	4.0	5.0	0.8	32.4	100
CY	16.4	0.0	16.4	59.9		23.7	0.1	23.6		40.4	100
LV	5.9	0.1	5.8	75.6	1.9	16.6	0.2	16.4		50.2	100
LT	2.7	0.0	2.7	85.5	2.2	8.9	0.2	8.7	0.6	46.6	100
LU	27.7	0.0	27.7	72.1	0.1	0.0	0.0	0.0		65.4	100
HU	2.7	0.0	2.6	96.1	0.7	0.1	0.1		0.4	29.0	100
MT	3.5	0.0	3.5	7.8		88.7	1.0	87.8		87.8	100
NL	10.7	0.0	10.7	35.6	0.1	53.5	1.1	52.3	0.1	37.2	100
AT	5.4	0.1	5.3	92.1	0.4	0.4	0.2	0.3	1.7	34.1	100
PL	2.6	0.1	2.5	94.4	0.4	1.6	0.0	1.6	1.0	21.1	100
PT	11.7	1.7	10.0	76.3	0.1	11.8	1.0	10.8		45.0	100
RO	2.0	0.7	1.3	94.5	2.1	1.3	0.8	0.5	0.1	25.3	100
SI	0.5	0.0	0.5	93.9	0.4	5.1	0.0	5.1	0.0	40.8	100
SK	0.9	0.0	0.9	96.1	1.1	0.3	0.1	0.2	1.6	21.3	100
FI	7.8	0.7	7.1	81.0	0.6	10.6	3.1	7.6		29.2	100
SE	4.9	0.8	4.1	58.0	0.2	35.4	2.5	32.9	1.6	50.9	100
IS	30.3	1.5	28.9	59.7		9.8	1.2	8.6	0.2	35.3	100
NO	9.8	6.0	3.8	63.0	0.3	26.9	19.6	7.3		31.9	
CH	14.9	0.4	14.5	84.1	0.2	0.8	0.7	0.1	0.0	41.7	100

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

(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

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

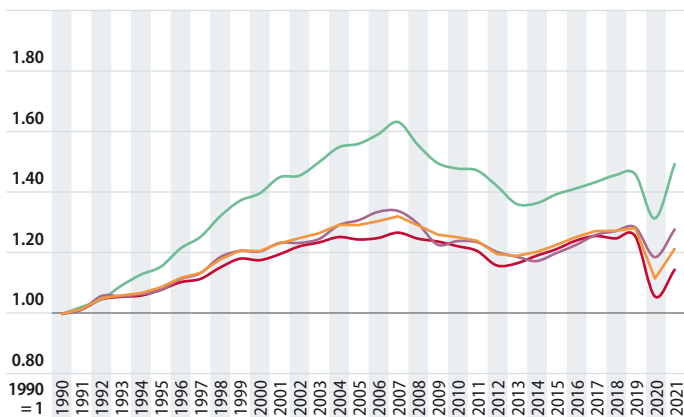
## 3.2.14

CO<sub>2</sub> emissions from road transport – EU-27

BY TRANSPORT MEAN (MILLION TONNES)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (*)	TOTAL EMISSIONS (**)
1990	609.1	380.7	58.4	161.5	8.1	0.4	815.1	4034.7
1995	662.5	411.1	67.6	174.2	9.4	0.2	877.5	3814.3
2000	735.4	448.4	81.7	194.8	10.4	0.1	996.7	3824.0
2005	787.9	474.4	91.3	211.5	10.5	0.2	1085.4	3994.9
2010	763.5	466.1	86.5	200.3	10.5	0.1	1059.0	3694.3
2015	747.7	462.1	81.5	193.9	10.0	0.1	1020.4	3340.9
2020	680.1	402.7	76.9	191.8	8.7	0.1	887.5	2817.0
2021	739.8	436.3	87.4	206.5	9.5	0.1	969.5	3013.9

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



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

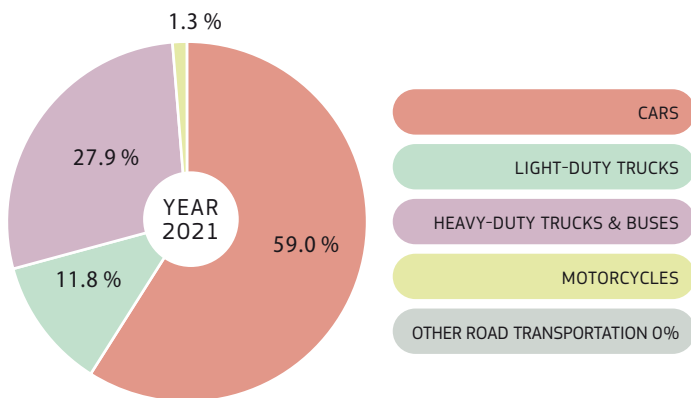
(\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).

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

3.2.14

## BY TRANSPORT MEAN (SHARES %)

	ROAD TRANSPORTATION	Cars	Light-duty trucks	Heavy-duty trucks and buses	Motorcycles	Other road transportation	TOTAL TRANSPORT (***)	TOTAL EMISSIONS (**)
1990	74.7	46.7	7.2	19.8	1.0	0.0	20.2	100
1995	75.5	46.9	7.7	19.9	1.1	0.0	23.0	100
2000	73.8	45.0	8.2	19.5	1.0	0.0	26.1	100
2005	72.6	43.7	8.4	19.5	1.0	0.0	27.2	100
2010	72.1	44.0	8.2	18.9	1.0	0.0	28.7	100
2015	73.3	45.3	8.0	19.0	1.0	0.0	30.5	100
2020	76.6	45.4	8.7	21.6	1.0	0.0	31.5	100
2021	76.3	45.0	9.0	21.3	1.0	0.0	32.2	100



**NB:** (\*\*) Including international bunkers and indirect CO<sub>2</sub> but excluding LULUCF (land use, land-use change and forestry).  
 (\*\*\*) Total transport share in total emissions.

## 3.2.15

## Oil spills at sea

## NUMBER OF OIL SPILLS, TOTAL AMOUNT SPILT

PERIOD		Number of 7 to 700 tonnes	Number of over 700 tonnes	Tonnes of oil spilt
2022		4	3	15 000
2021		5	1	10 000
2020		4	0	1 000
2015		6	2	7 000
2010		5	4	12 000
2005		22	3	15 000
2000		21	4	14 000
1990-1999	average	28.1	7.7	113 400
1980-1989	per	36.0	9.4	117 500
1970-1979	year	54.3	24.5	319 500

## SELECTED MAJOR OIL SPILLS – World outside Europe

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

## SELECTED MAJOR OIL SPILLS – Europe

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

## NOTES

## NOTES



## NOTES

## NOTES

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