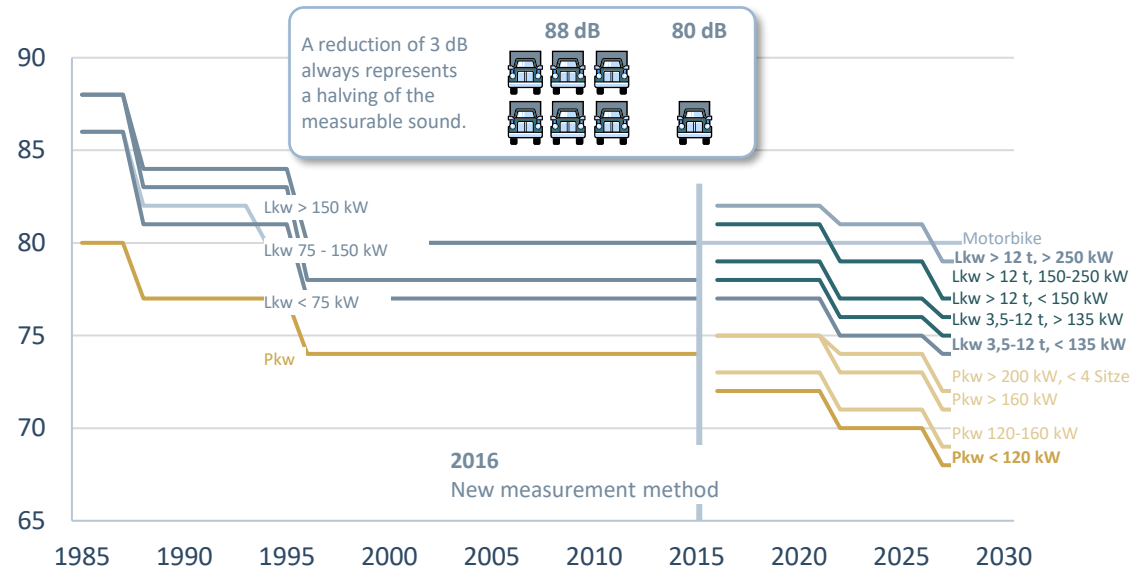


# Compendium 5.0 Pollutants section

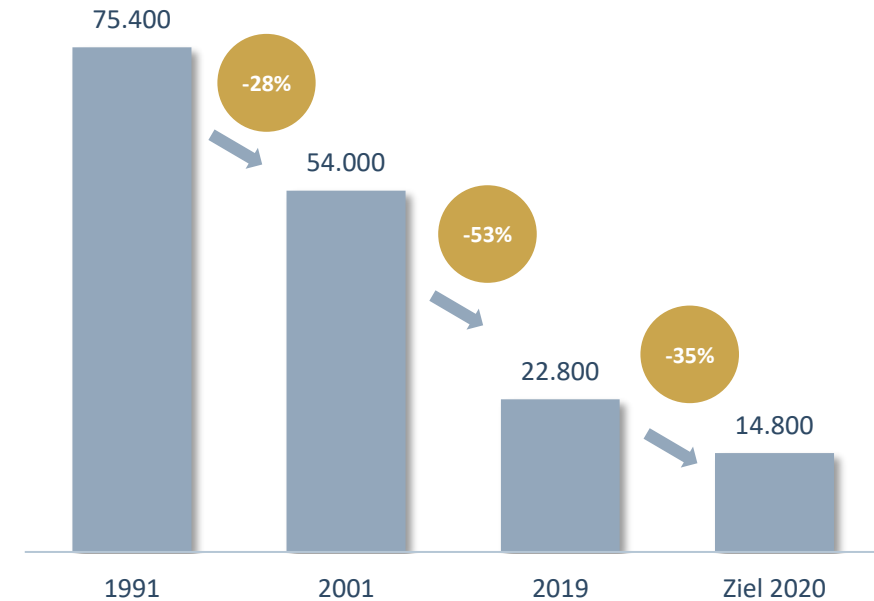


# Progress on noise and safety targets

**Noise targets: Noise emissions are to be reduced by up to 75 percent.**  
EU vehicle noise limits in dB (A)



**Road safety: target hardly achievable**  
Persons killed in road traffic in the EU 28 countries

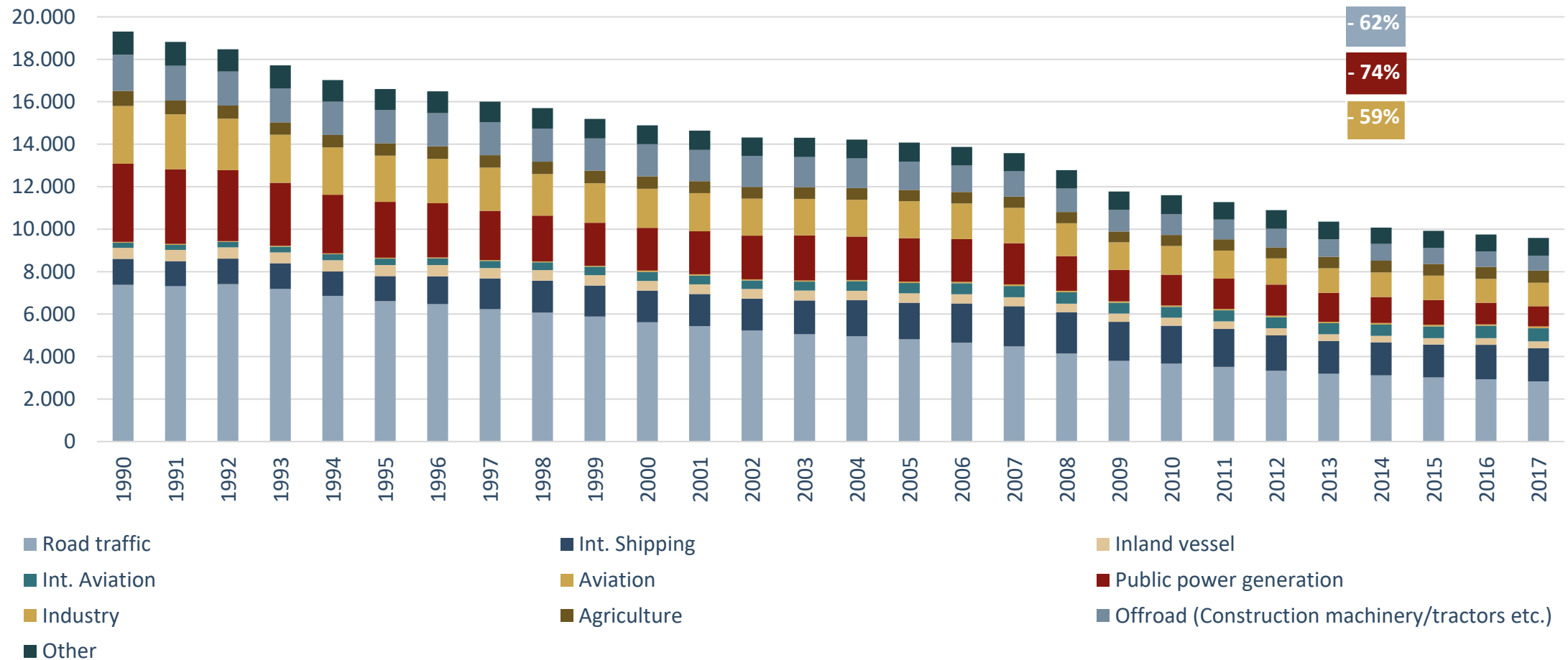


- ▶ Since 1990, there has been significant progress and ambitious targets set by the EU in terms of noise emissions and safety.
- ▶ Additional sound insulation and safety features add weight and changes to the bodywork.
- ▶ The additional targets cause a measurable increase in consumption of the new vehicles.

Sources: EU, Eurostat

# Nitrogen oxide emissions down 46 percent

Data of the EU 28\* in gigagrams, No<sub>x</sub> emissions converted to NO<sub>2</sub>

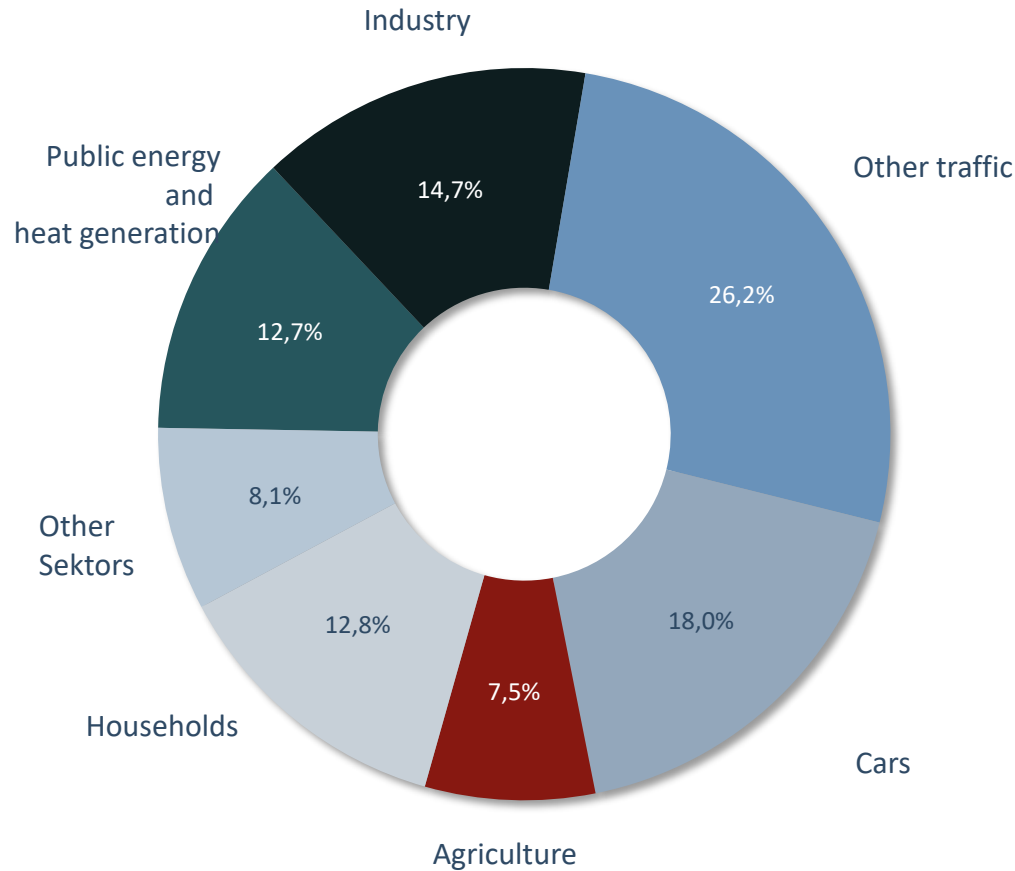


Source: emep, 2020

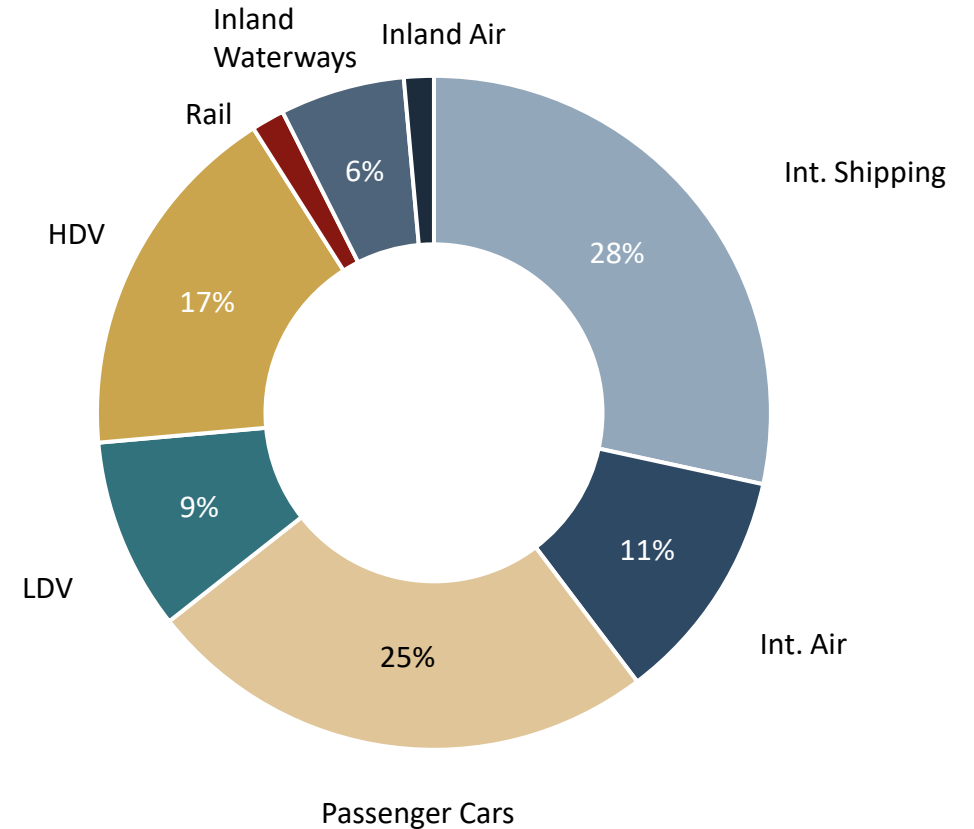
# Nitrogen oxide emissions in the EU 28

Data for 2017, in percent of  $\text{NO}_x$  emissions converted to  $\text{NO}_2$

Emissions by sector<sup>1)</sup>



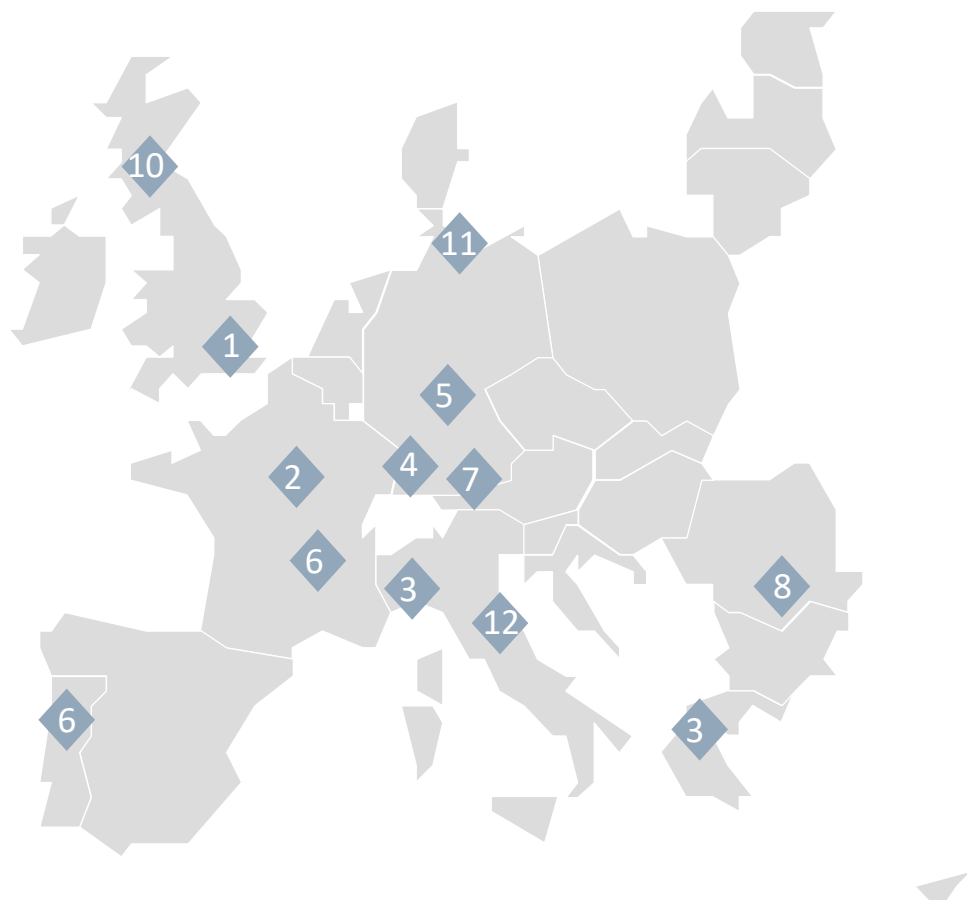
Transport sector by mode of transport



Source: emep, 2020

# NO<sub>2</sub>: A European Problem

The 12 EU cities with the highest NO<sub>2</sub>-immissions in 2018



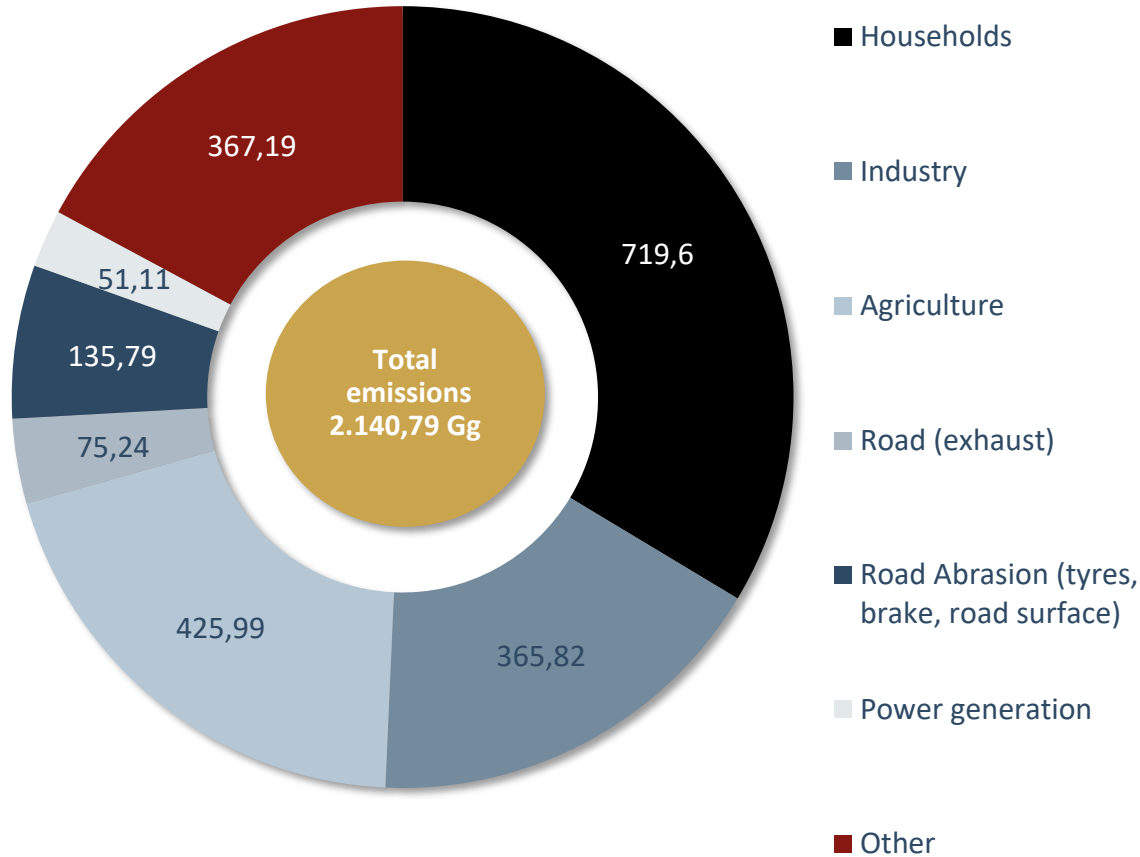
	City	2018 in µg/m <sup>3</sup>	2010 in µg/m <sup>3</sup>	2006 in µg/m <sup>3</sup>
1	London	84,7	98,3	110,6
2	Paris	80,2	95,5	91,1
3	Athens	70,9	83,2	85,7
4	Stuttgart	70,8	99,9	121,3
5	Darmstadt	66,6	n.a.	n.a.
6	Lyon	66,3	89,8	n.a.
7	Munic	66,2	98,7	97,5
8	Bukarest	62,8	65,2	126,4
9	Porto	62,4	n.a.	n.a.
10	Glasgow	60,6	84,0	68,4
11	Kiel	60,3	n.a.	n.a.
12	Florence	60,1	101,8	71,6

Source: EEA – Air Quality Statistics, 2020

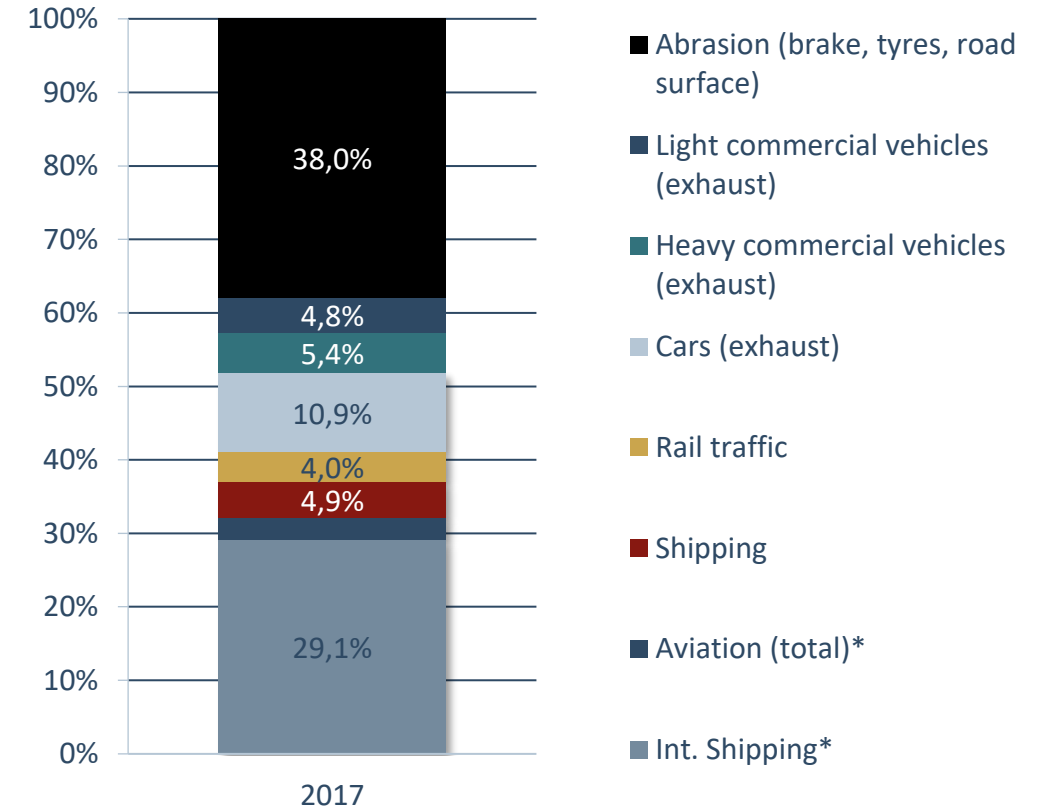
# Particulate matter emissions in the EU 28

Data for 2017, in gigagrams particulate matter (PM10)

Emissions by sector



Transport sector by mode of transport

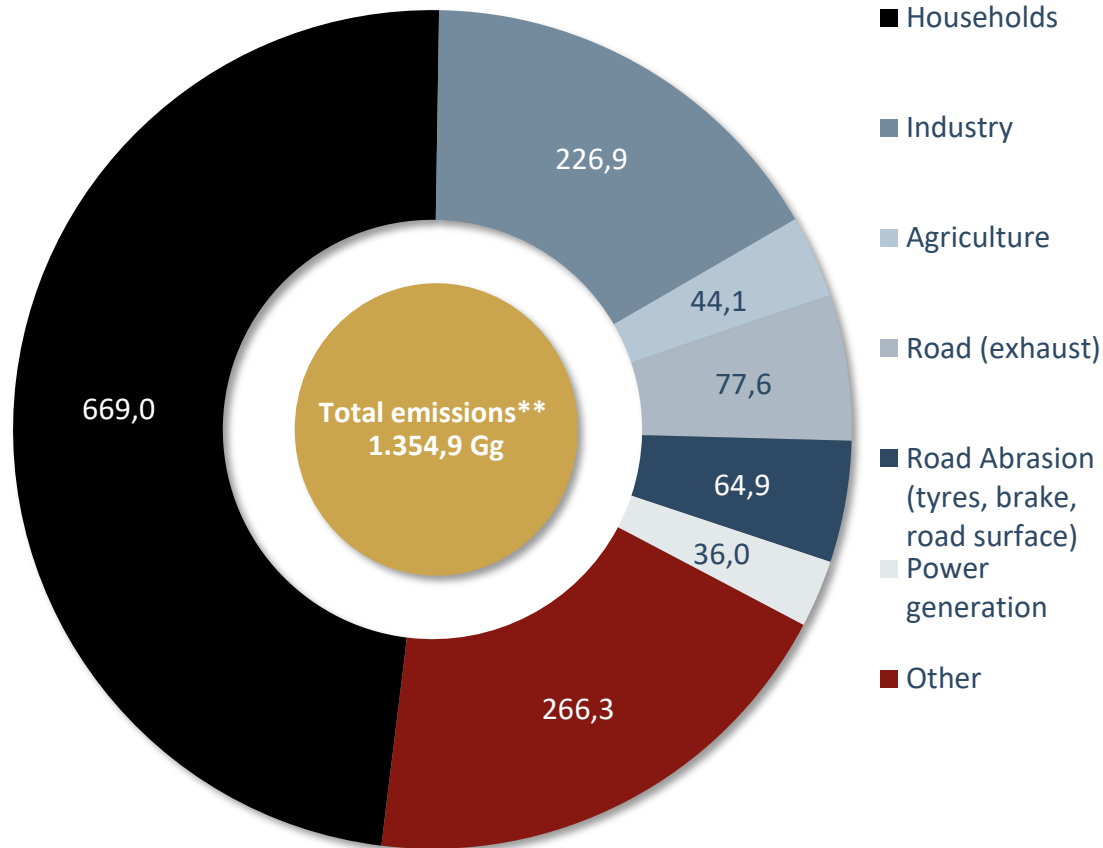


Source: emep, 2020

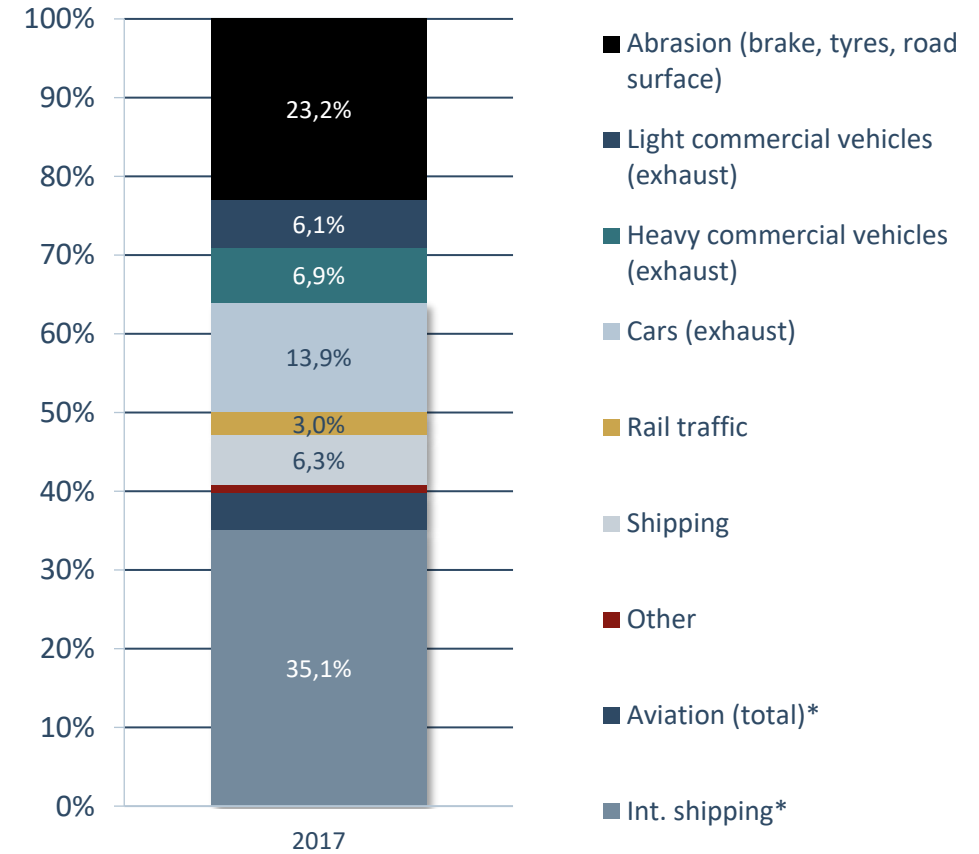
# Particulate matter emissions in the EU 28

Data for 2017, in gigagrams particulate matter (PM 2,5)

Emissions by sector



Transport sector by mode of transport

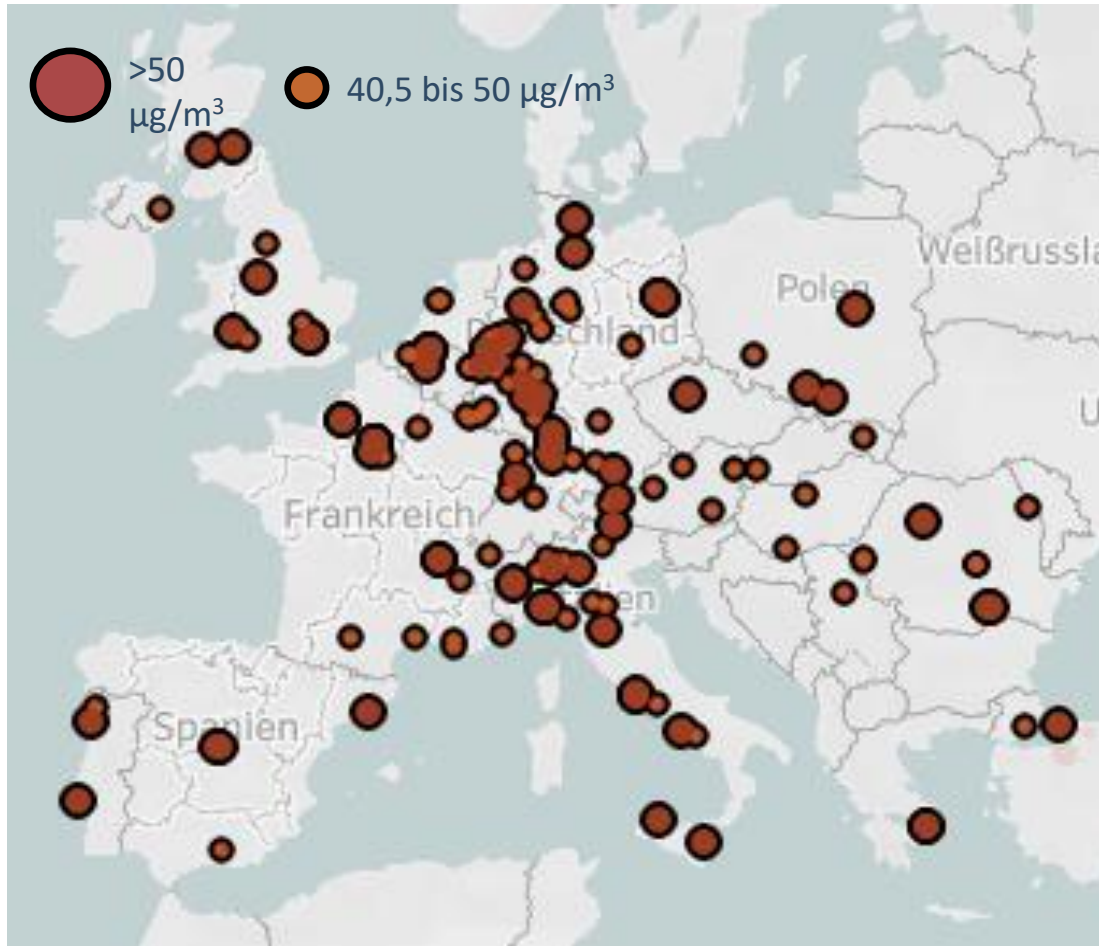


Source: emep, 2020

# Air quality in Europe – large regional differences

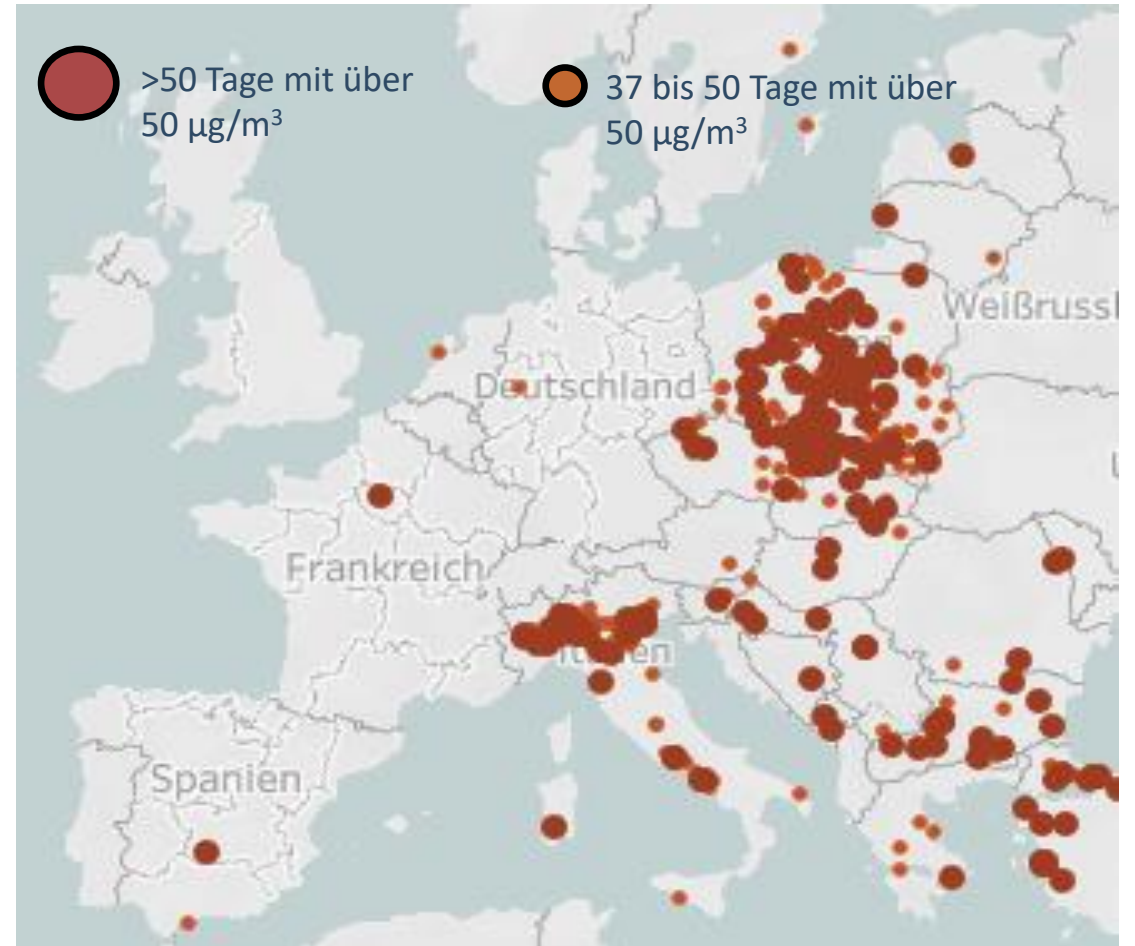
## NO<sub>2</sub>: Progress is not yet sufficient

Measuring stations with exceedance of the permissible annual mean value



## PM10: No longer a problem in Western Europe

Measuring stations with too many exceedance days



Source: EEA, 2020, Data status 2018