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# EEA activities and priorities on transport emissions

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# **EEA** transport team and work areas











What we work on currently	Who?
CO <sub>2</sub> monitoring and reporting on new passenger cars	Cinzia Pastorello
CO <sub>2</sub> monitoring and reporting from new vans, TERM indicators	Diana Vedlugaitė
CO <sub>2</sub> monitoring and reporting from heavy duty vehicles (new reporting obligations)	Rasa Narkevičiūtė
Reporting under the Fuel Quality Directive, aspects of GHG emissions from aviation & shipping	Stephanie Schilling
TERM Report, SOER parts on transport sector & mobility system, transport taxonomy under the sustainable finance initiative	Andreas Unterstaller





### European

### Energy and Climate Change Mitigation:

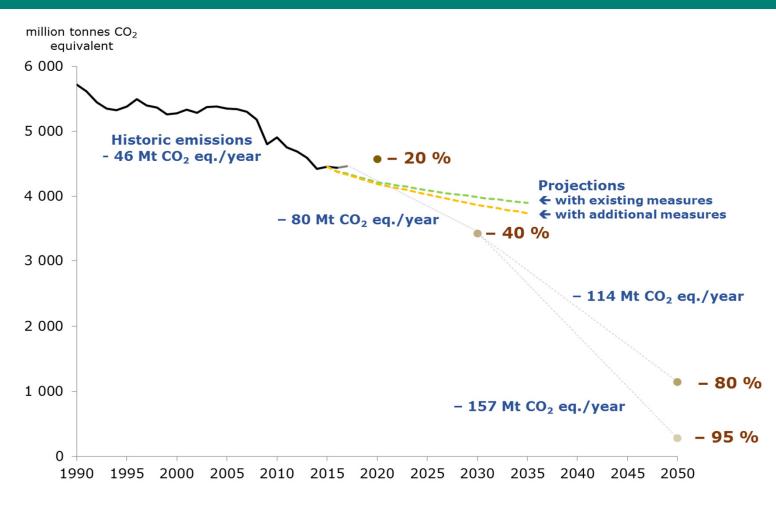
- 2030 C&E framework, 2050 low-carbon strategy
- Effort Sharing Regulation
- EU Energy Union (renewables, energy efficiency)
- CO<sub>2</sub> from cars, vans, heavy duty vehicles
- Fuel Quality Directive

### Transport and environment:

- Air pollution from cars (Euro standards, RDE requirements)
- Air pollution from shipping (Emission Control Areas)
- Noise, road vehicle emission standards
- Urban agenda
- Biodiversity fragmentation



A need for systemic approaches and transition thinking

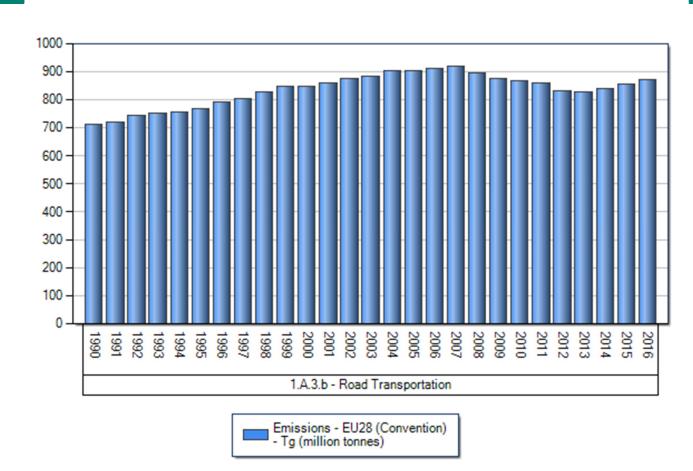


Source: Trends and Projections report, EEA 2018



### **Transport**

- 21% of total EU GHG emissions
- GHG emissions from transport increasing – road, aviation
- Average CO<sub>2</sub> emissions from new cars increased in 2017
- Total CO<sub>2</sub> from road transport has increased in each of the past 3 years
- Ambitious measures on transport needed (national energy and climate plans reported in 2018)

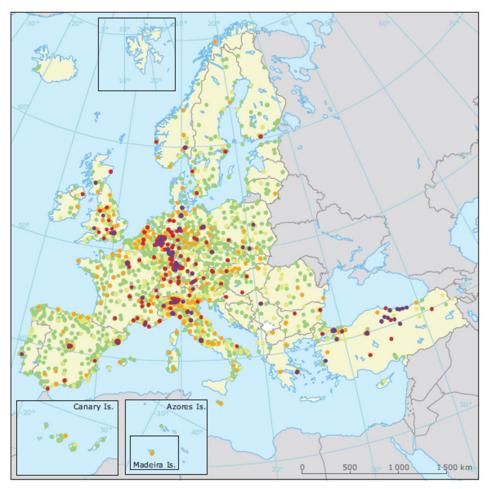


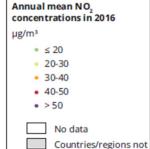
Source: EU GHG inventory 2018



### **Transport – air pollution**

- More than 400 000 Europeans die prematurely each year due to PM<sub>2.5</sub> and NO<sub>2</sub> exposure
- No<sub>x</sub> emissions from road transport are slowly falling, but wide-spread exceedences of the EU air quality limit value persist across Europe





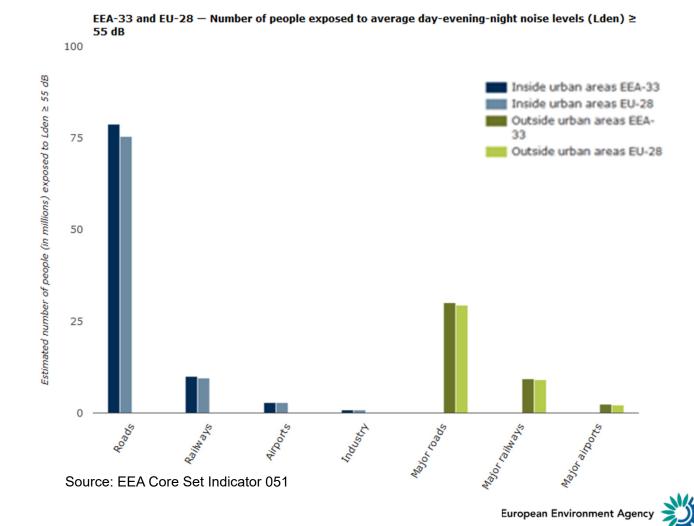
included in the data exchange process

Source: Air Quality in Europe 2018 report

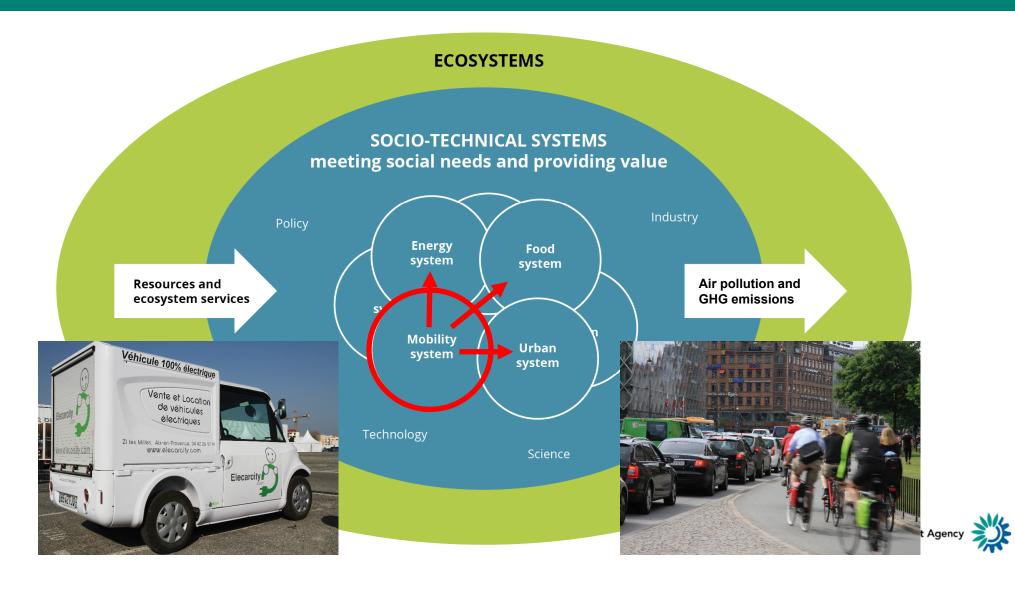


### Transport – noise

- Road traffic is the most widespread source of environmental noise, with more than 100 million people affected by harmful levels in the EEA-33 member countries.
- Around 14 000 people European's die prematurely each year due to environmental noise exposure



# A systemic approach to transport assessment



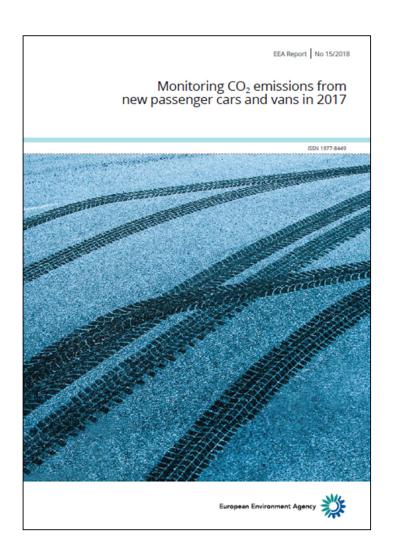
# EEA transport and environment reporting mechanism (TERM)



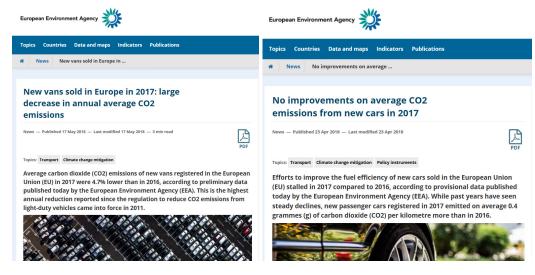




# Monitoring CO<sub>2</sub> emissions from new vehicles



### CO<sub>2</sub> emissions from new cars and vans, preparing for HDVs

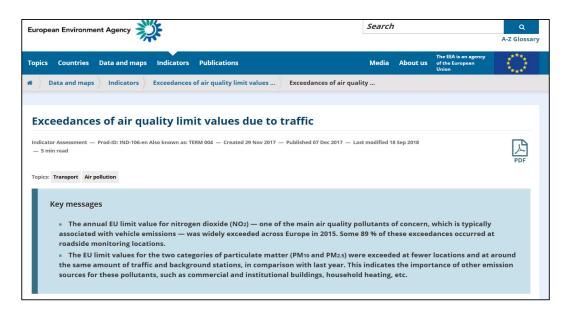


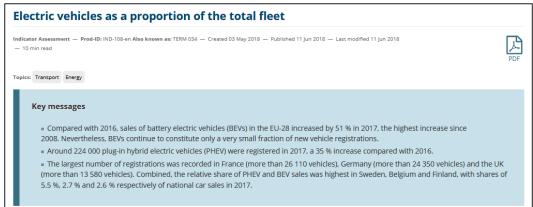
### Tax breaks and incentives make Europeans buy cleaner cars

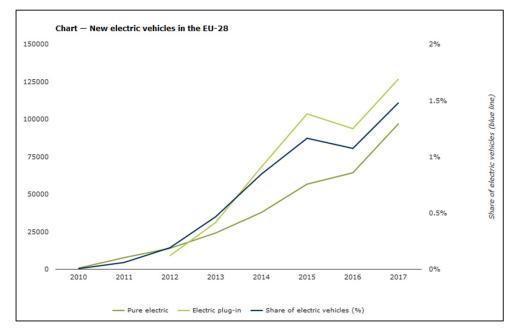




### **Indicators**









# **Fuel quality monitoring**



### **Fuel Quality Directive**

Data — Prod-ID: DAT-176-en — Created 19 May 2017 — Published 03 Jul 2018 — Last modified 03 Jul 2018 — 1 min read

Topics: Air pollution Transport Energy

By 31st of August each year the Member States must submit a summary of fuel quality monitoring data collected during the period January to December of the previous calendar year, in accordance with Article 8(1) of Directive 98/70/EC as amended by Directive 2009/30/EC. The delivery process is managed by EEA.

European data Metadata

### Fuel Quality Directive Data v1

- Fuel\_Quality\_Directive\_v1\_mdb (ZIP archive)
  1.32 MB Download file
- Fuel\_Quality\_Directive\_v1\_xlsx (Microsoft Excel (Office 2010))
   3.08 MB Download file
- Fuel\_Quality\_Directive\_v1\_csv (ZIP archive) 803.54 KB Download file

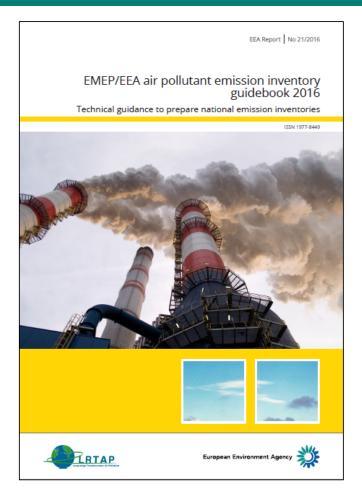


### Support to countries – emission inventory reporting tools



### Background

The development of COPERT is coordinated by the European Environment Agency (EEA), in the framework of the activities of the European Topic Centre for Air Pollution and Climate Change Mitigation. The European Commission's Joint Research Centre manages the scientific development of the model. COPERT has been developed for official road transport emission inventory preparation in EEA member countries. However, it is applicable to all relevant research, scientific and academic applications.





# Four reflection points – looking forward

- Continued alignment between COPERT and HBEFA as far as practicable
- Improving knowledge on real-world driving emissions from hybrids and noncombustion PM emissions for EVs
- Timeliness of information
- Innovation: Adapting to, and using, new sources of information, including 'nonofficial' sources





# Thank you

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