

The state of air quality in Europe

Webinar on health-relevant air quality data informing policy and the public



The European Environment Agency



Independent EU agency

We provide knowledge on the environment to policy makers and the public

Based on information from our 32 member countries and 6 cooperating countries

Members:

EU 27 together with Iceland, Liechtenstein, Norway, Switzerland and Turkey

Cooperating countries:

Albania, Bosnia and Herzegovina, Kosovo*, Montenegro, North Macedonia and Serbia

* This designation is without prejudice to positions on status and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence.

Air quality and under the Sustainable Development Goals



Air quality in Europe — 2020 report

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Western Balkan Countries

20 years of cooperation with the EEA
Key developments, achievements and the way ahead



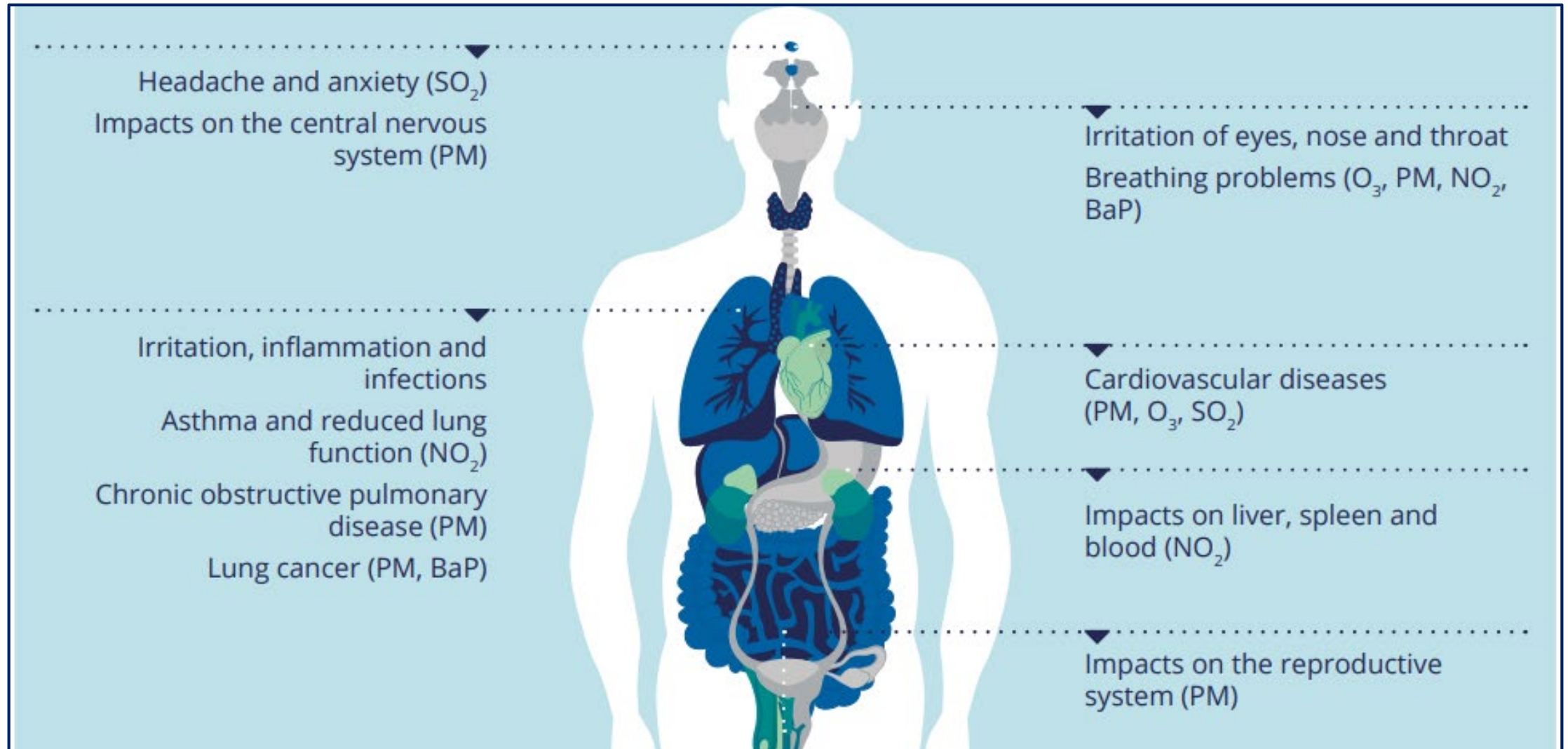
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Sharing Environmental Information:

Highlights of the EEA cooperation
with the Eastern Partnership region

2016 - 2020

Impacts of air pollutants on human health

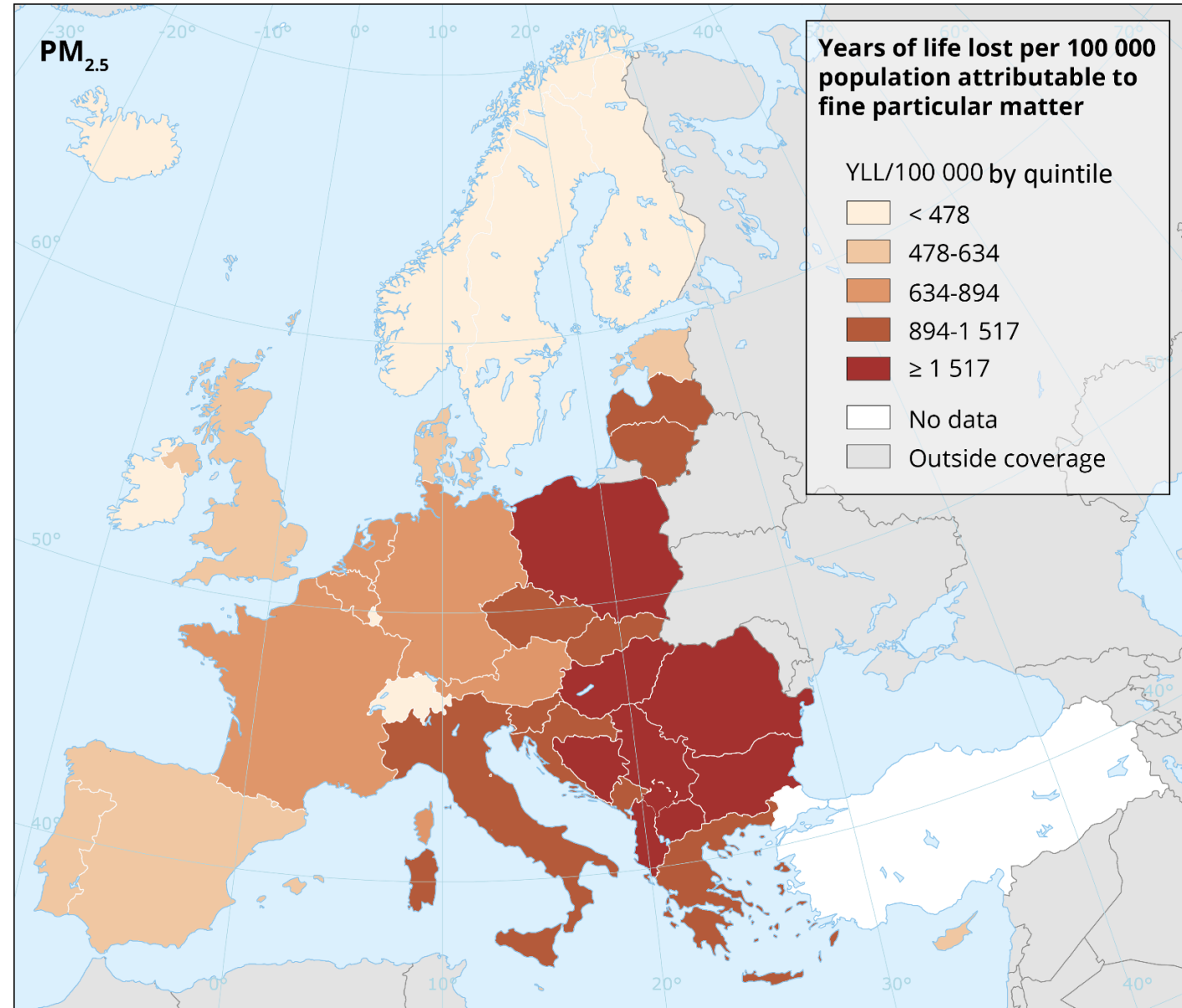


Health impacts of air pollution in Europe

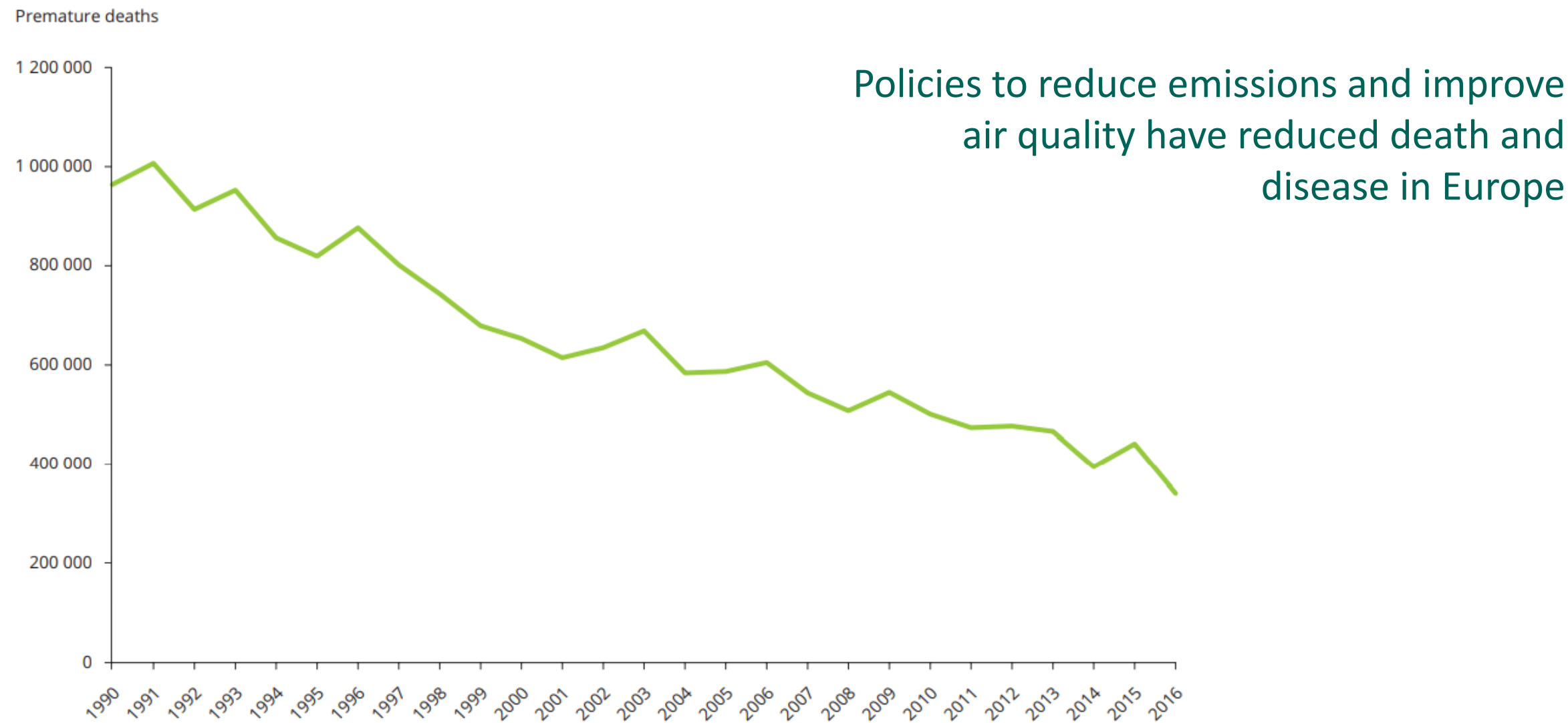
400 000 premature deaths per year in Europe in 2018

Estimates of premature deaths attributable to specific pollutants in 2018

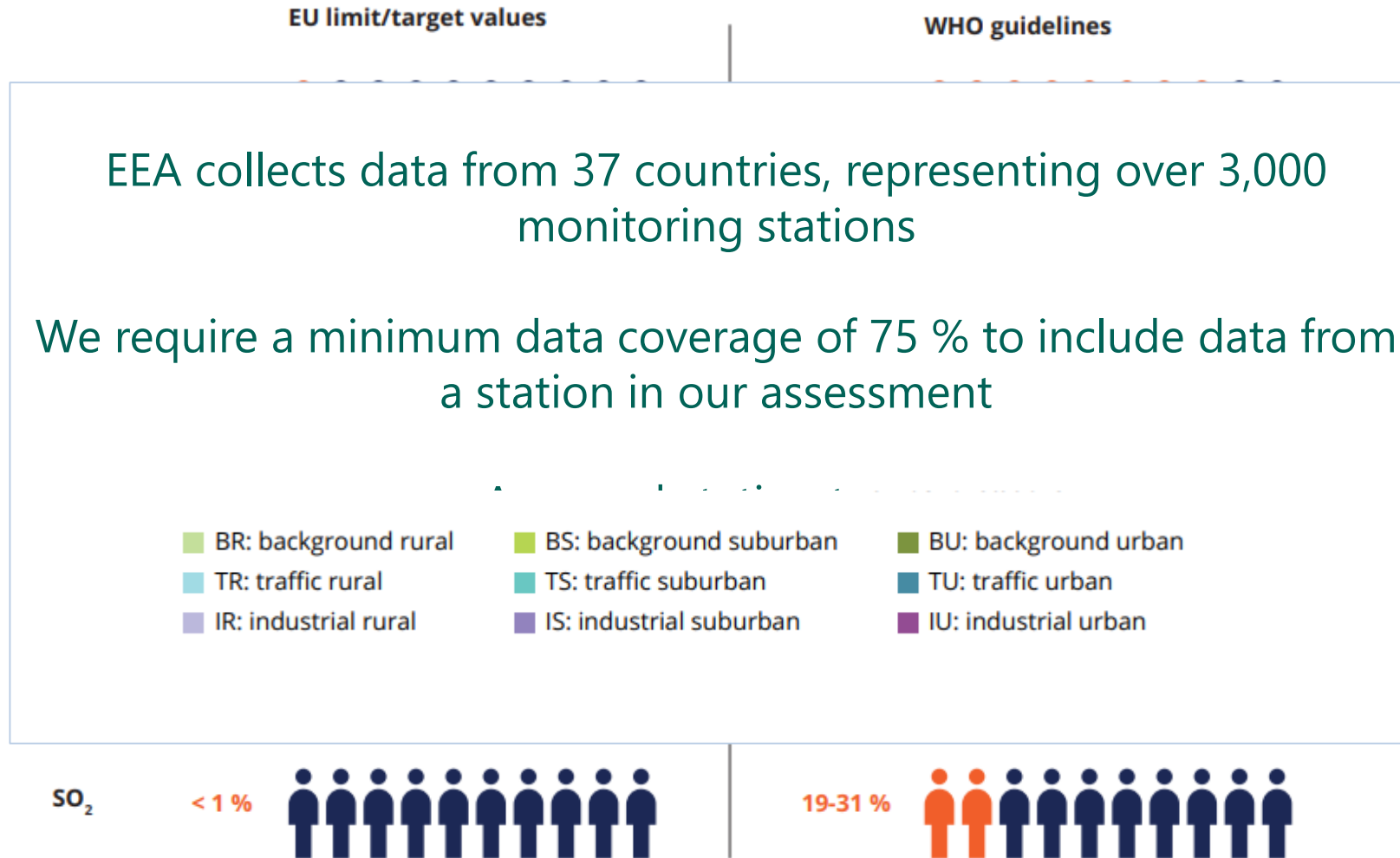
Fine particulate matter, PM _{2.5}		
EU-28	379,000	
41 European countries	417,000	
Nitrogen dioxide		
EU-28	54,000	
41 European countries	55,000	
Ozone		
EU-28	19,400	
41 European countries	20,600	



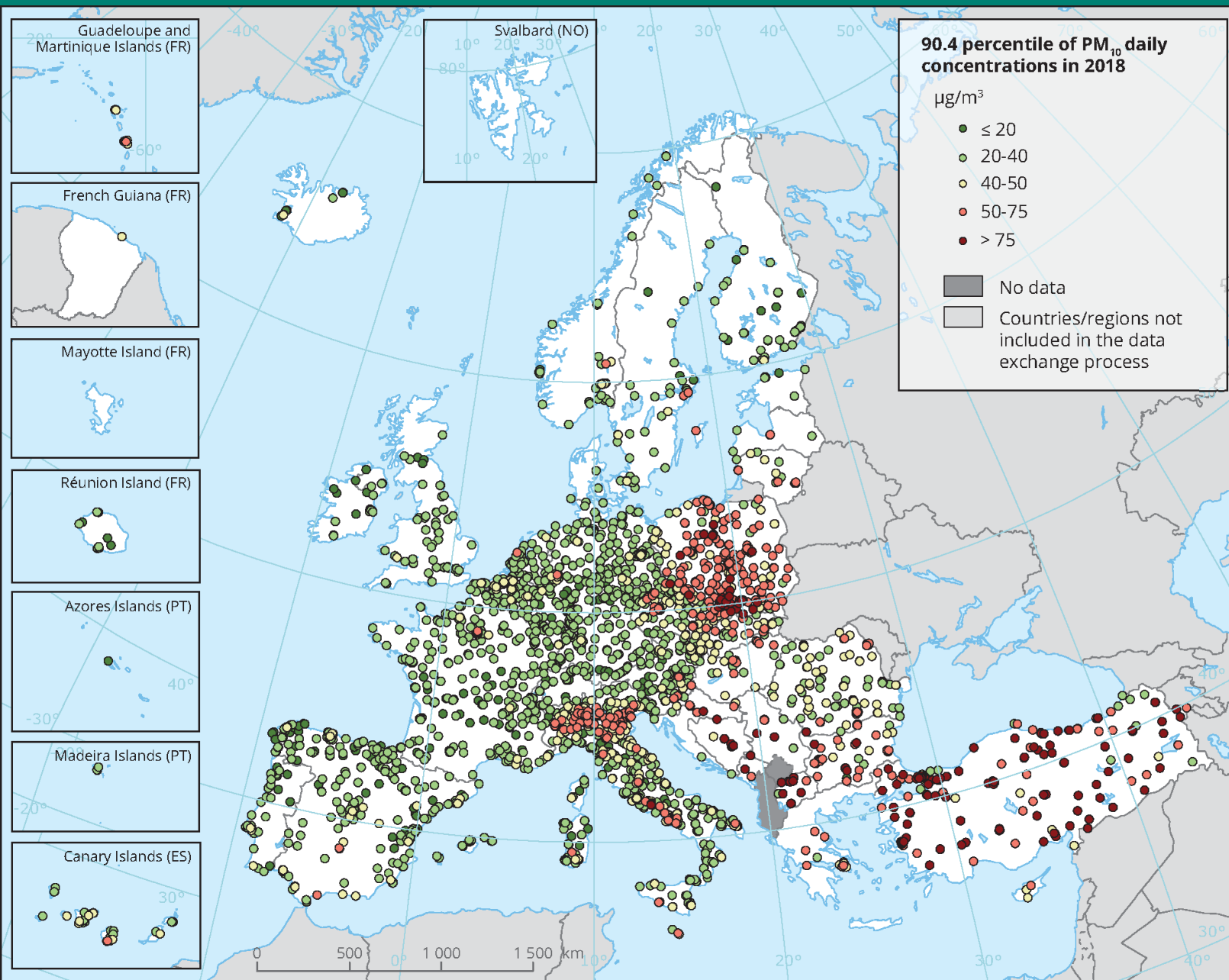
Premature deaths due to exposure to PM_{2.5} in Europe, 1990-2016



EU-28 urban exposure to harmful levels of air pollution in 2018



PM₁₀ concentrations over Europe in 2018



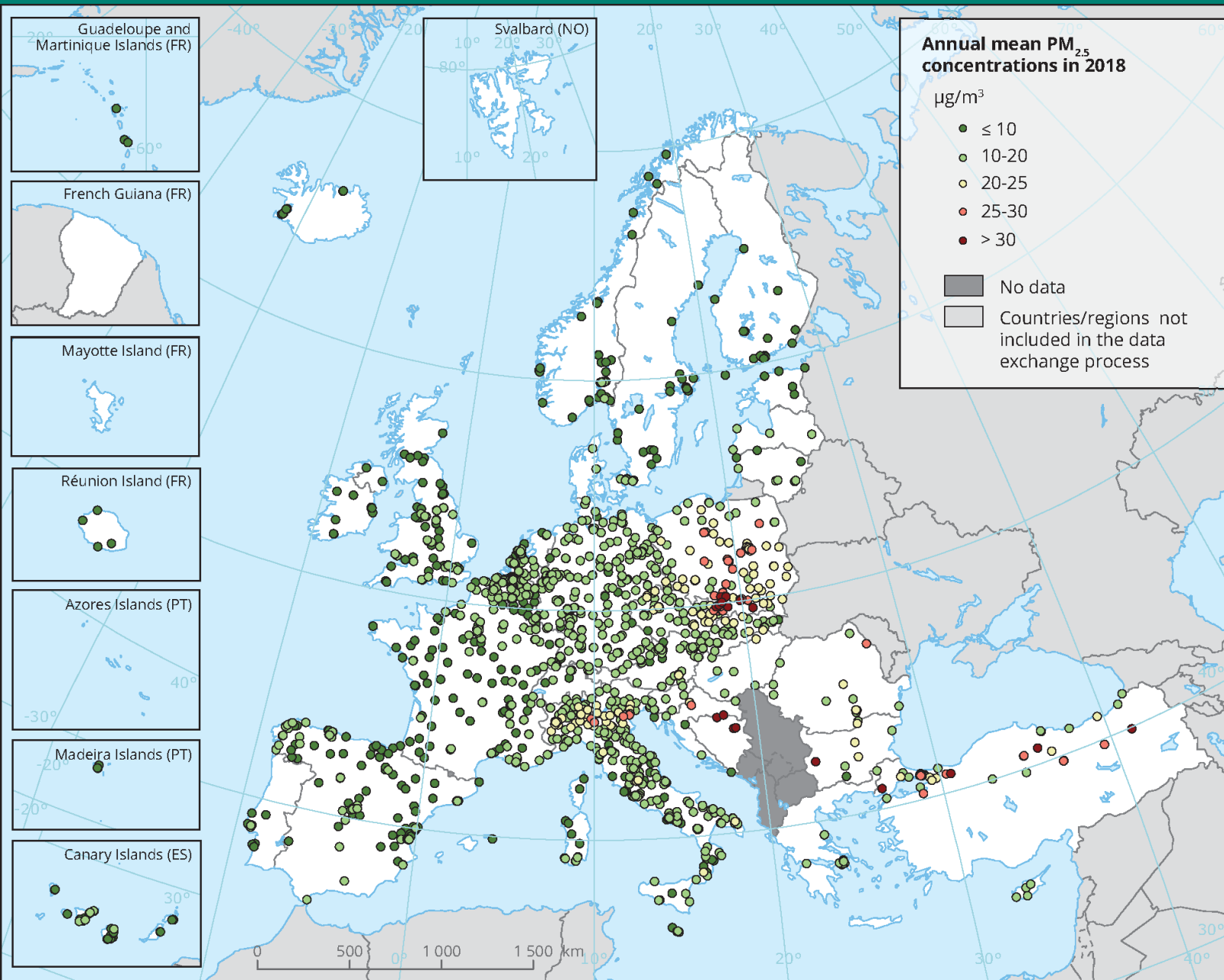
PM₁₀ – EU daily limit value 50 µg/m³

20 EU Member States and 6 other reporting countries reported PM₁₀ concentrations above the daily limit value

Representing 19 % of reporting stations

Of these, 97 % were urban or suburban stations

PM_{2.5} concentrations over Europe in 2018



PM_{2.5} annual limit value 25 µg/m³

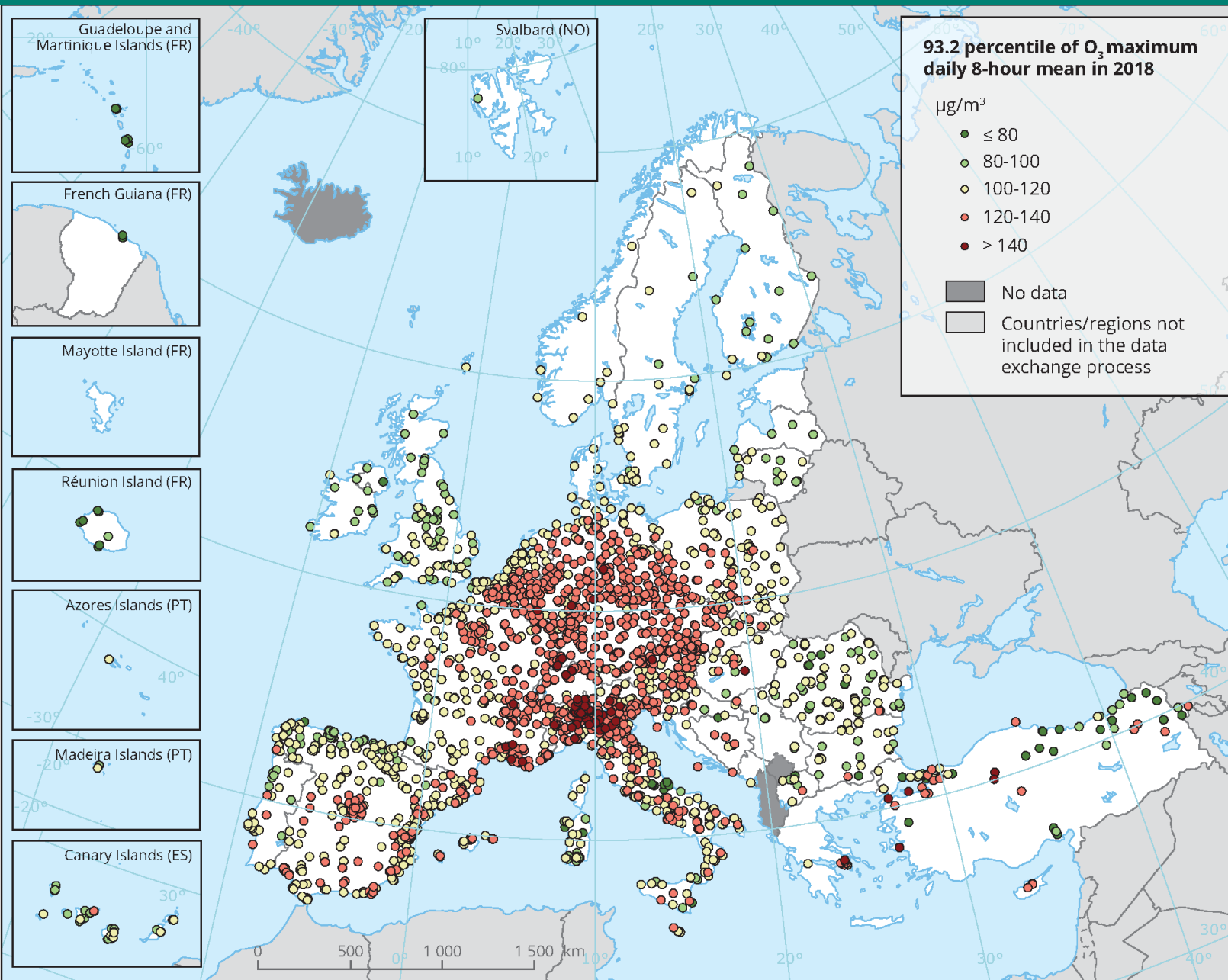
6 EU Member States and 2 other reporting countries above the annual limit value

Representing 4 % of reporting stations

Primarily urban and sub-urban stations

Estonia, Finland, Iceland and Ireland below the WHO air quality guideline of 10 µg/m³ per calendar year

Ozone concentrations over Europe in 2018



O₃ target value for the maximum daily 8-hour mean 120 µg/m³

20 EU Member States and 5 other reporting countries had stations above the target value

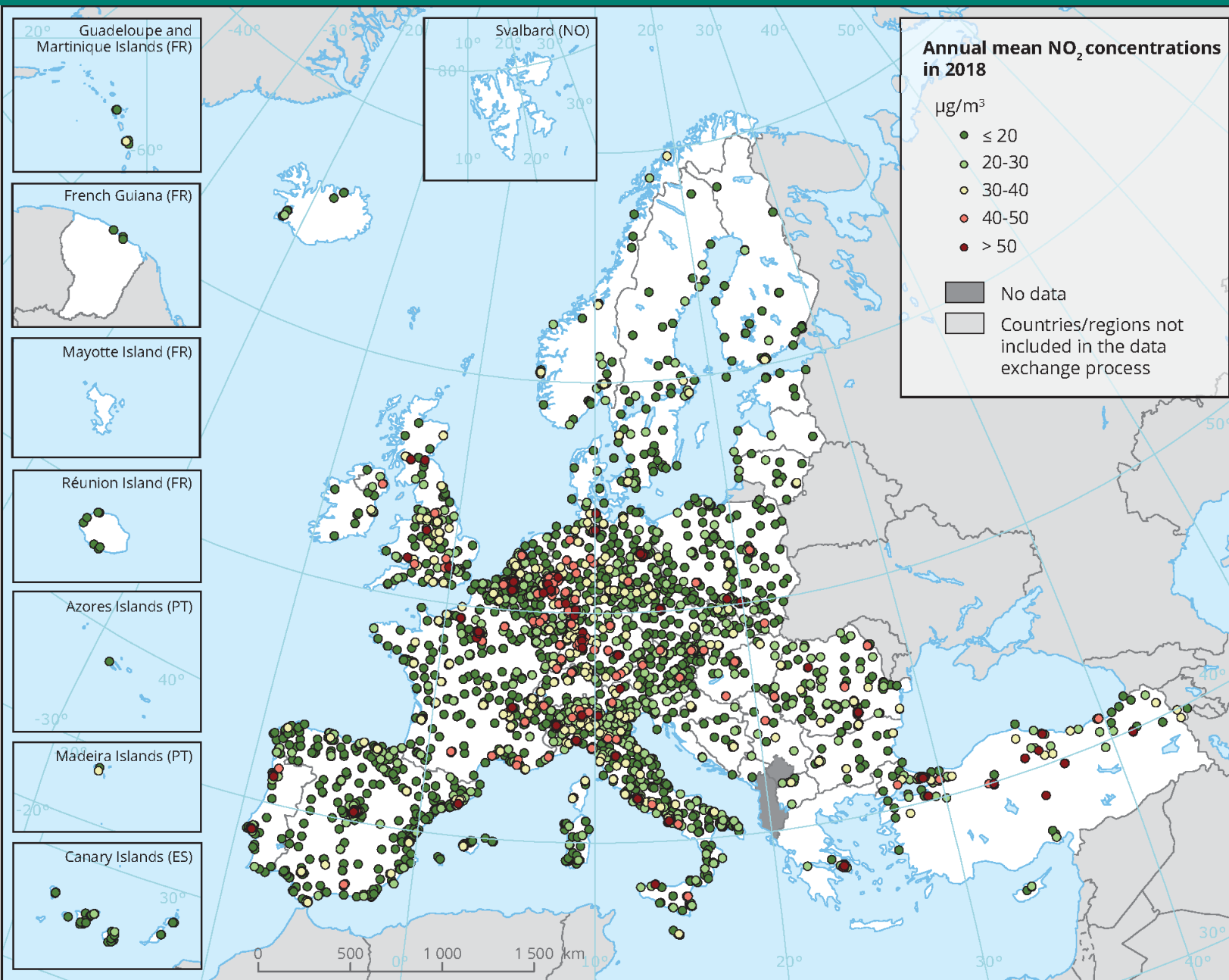
Representing 41 % of reporting stations

Mainly background stations

Only 13 % of stations fulfilled the EU long-term objective of 120 µg/m³

2018 was the 3rd warmest year on record in Europe – driving ozone formation

NO₂ concentrations over Europe in 2018



NO₂ EU annual limit value 40 µg/m³

16 EU Member States and 3 other reporting countries above the EU annual limit value

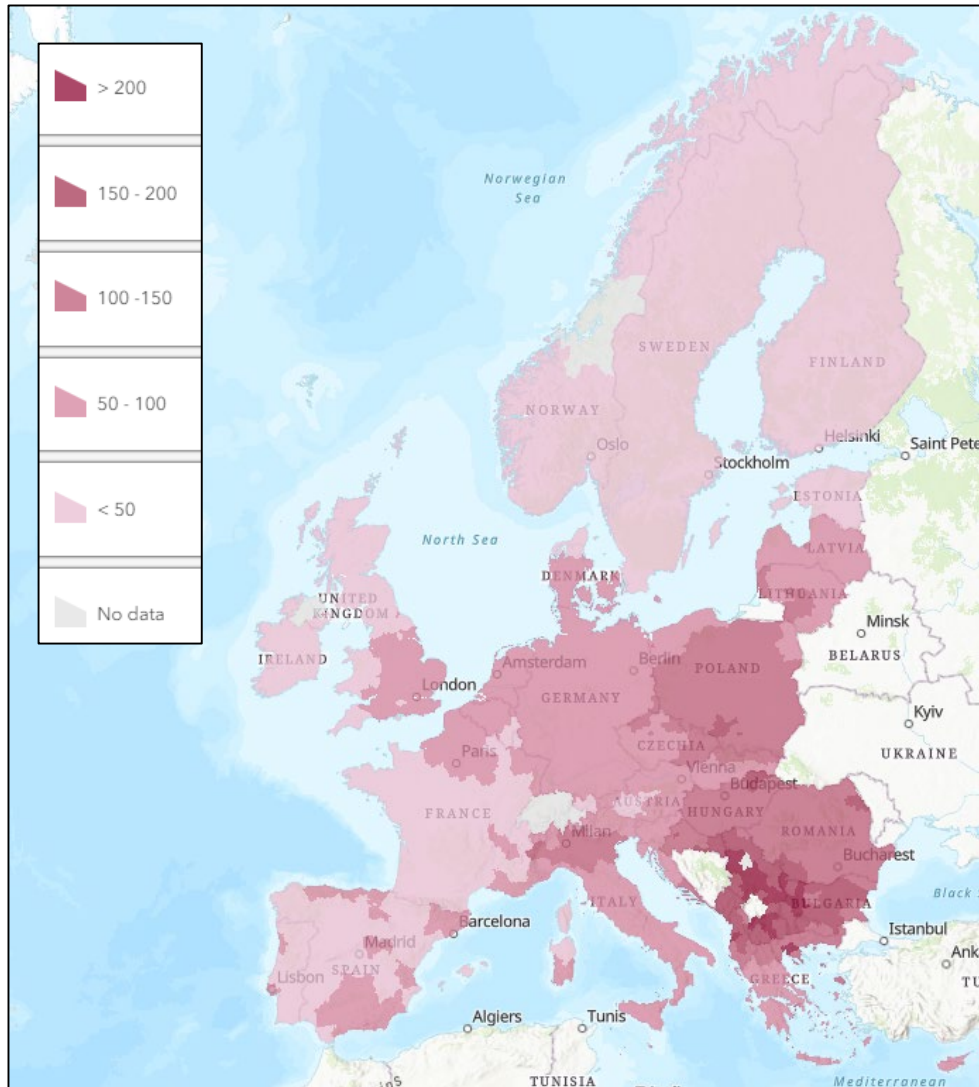
Representing 8 % of reporting stations

95 % of exceedances were seen at traffic stations

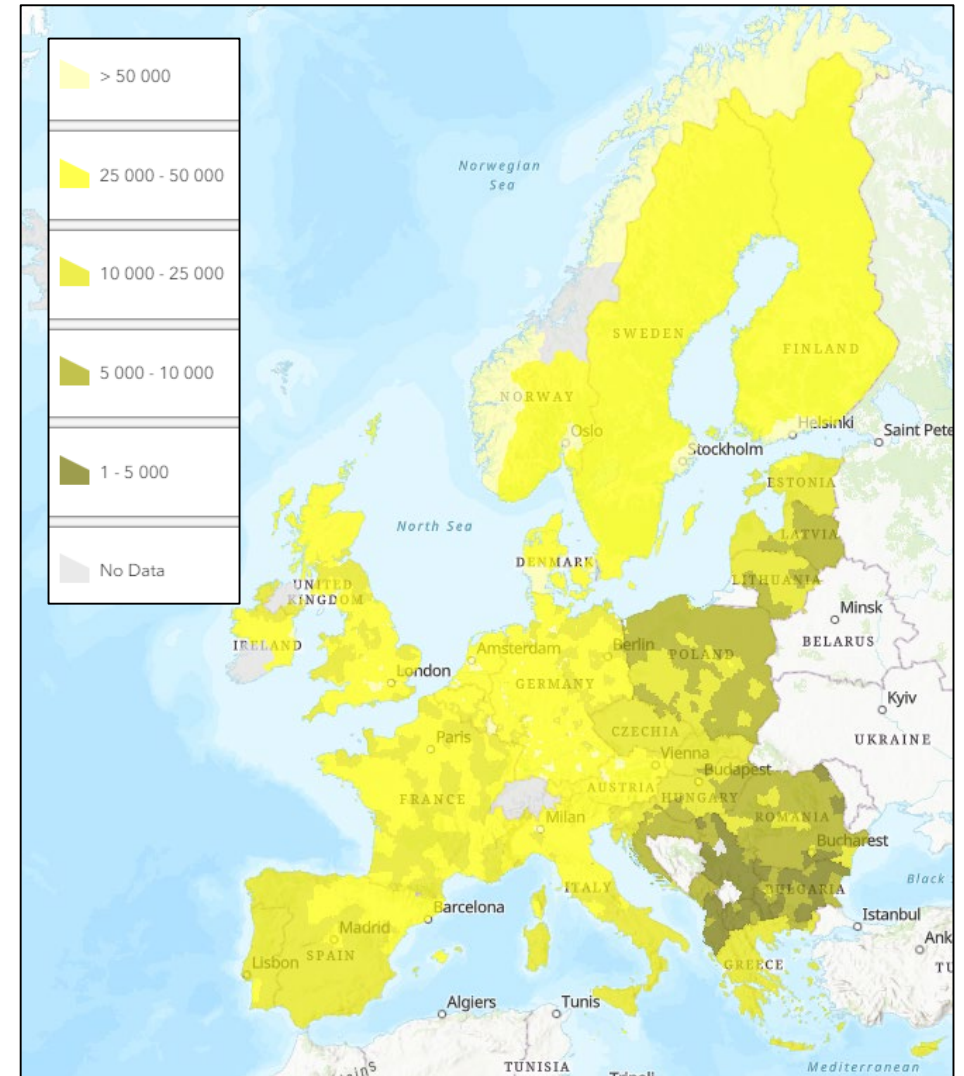
NO₂ is an urban air quality issue linked to vehicular traffic

Unequal exposure to air quality across Europe

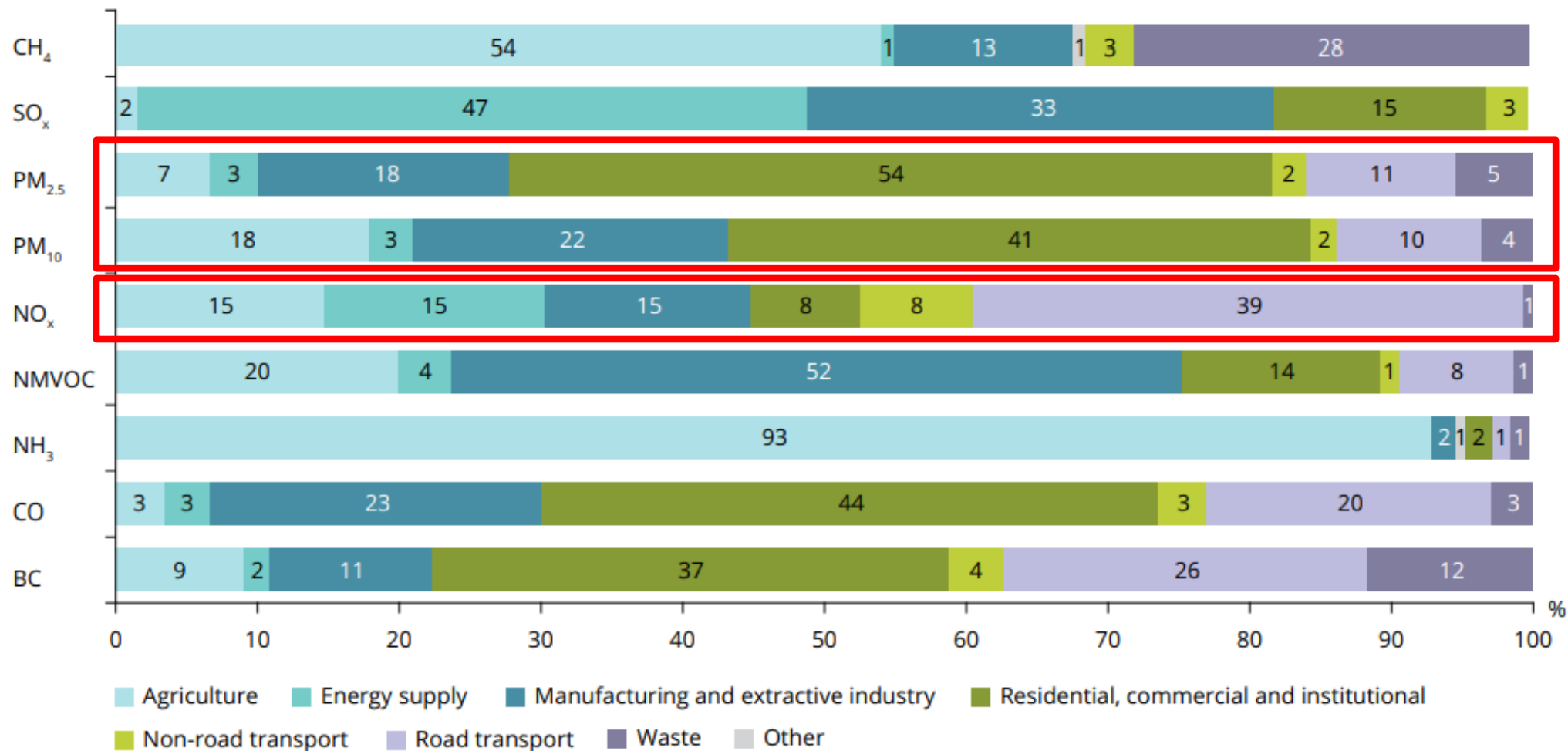
Premature deaths per 100,000 inhabitants
attributable to PM_{2.5} (2018)



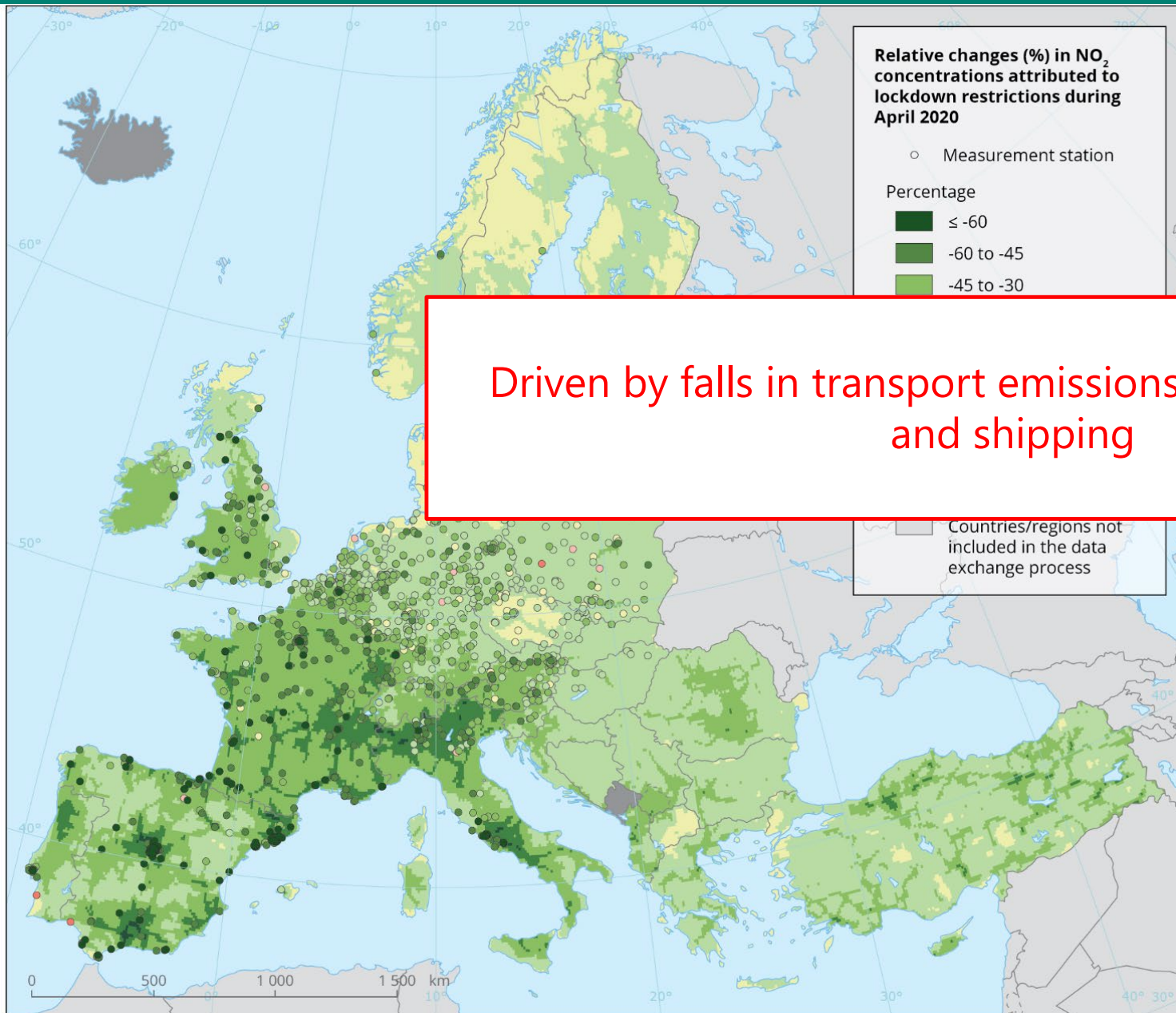
GDP per capita in Euro (2017, 2018)



Main contributing sectors in 2018



Air pollution and COVID-19: impact of lockdown measures



Differences across countries, cities and within cities

NO₂ concentrations

Up to 70 % ↓ at traffic stations in Spain

background

PM₁₀ concentrations

- Smaller reductions in PM₁₀
- Up to 35 % ↓ at traffic stations
- Around 20 % ↓ in background concentrations



Western Balkan Countries

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European Environment Agency



EEA cooperation with the Western Balkan Countries

EEA Western Balkan countries

Rotating representation on the EEA Management Board

Memorandum of Understanding with each country

2-year project kicked off in February 2020

Budget €1.3 million

Thematic support in 7 key areas:

- Air quality
- Water
- Biodiversity
- Waste
- Environmental Information Systems
- Copernicus programme
- Knowledge to action



Support on air quality e-reporting delivered in 2020

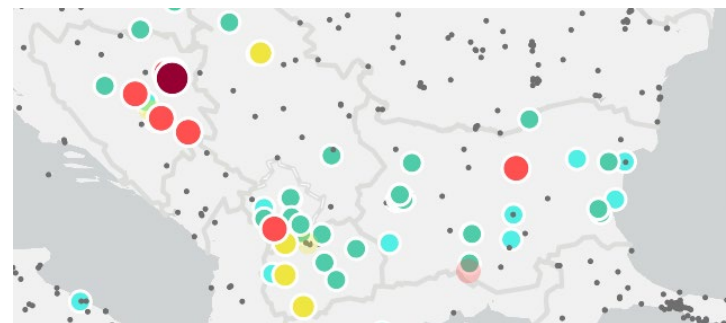


Raven 2 installed in Albania, Bosnia and Herzegovina, Kosovo*, Montenegro and Serbia

North Macedonia using Enviro software

All six countries reporting air quality data to EEA

Submission of real time data from Bosnia and Herzegovina, North Macedonia, Kosovo* and Serbia for inclusion in the [European Air Quality Index](#)





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EEA cooperation with the Eastern Partnership Region

Shared Environmental Information System



ARMENIA



AZERBAIJAN



BELARUS



GEORGIA



MOLDOVA



UKRAINE

AREAS OF WORK



Data



Indicators and Assessments



UN SEEA



Access to Environmental Information



Communication and Visibility



Air



Biodiversity



Water



Land



Waste

SEIS II East

2016-2020

Funded by the European Neighbourhood Instrument



This project is funded by the European Union.



ENI SEIS II East – support on air quality

Objective: **increase the use and public accessibility of air quality data** in the six Eastern Partnership countries

- Two regional capacity building events
- Follow up country visits
- Hands-on training on e-reporting

Outputs:

- [Country fact sheets on air quality monitoring and reporting](#)
- Graphic user interphase for RAVEN+ application
- Inclusion of real time data in the [European Air Quality Index](#) for Georgia and Ukraine



This project is funded by the European Union.



Этот проект финансируется
Европейским Союзом

European Environment Agency



Информационная справка – Грузия

2018-2020 годы



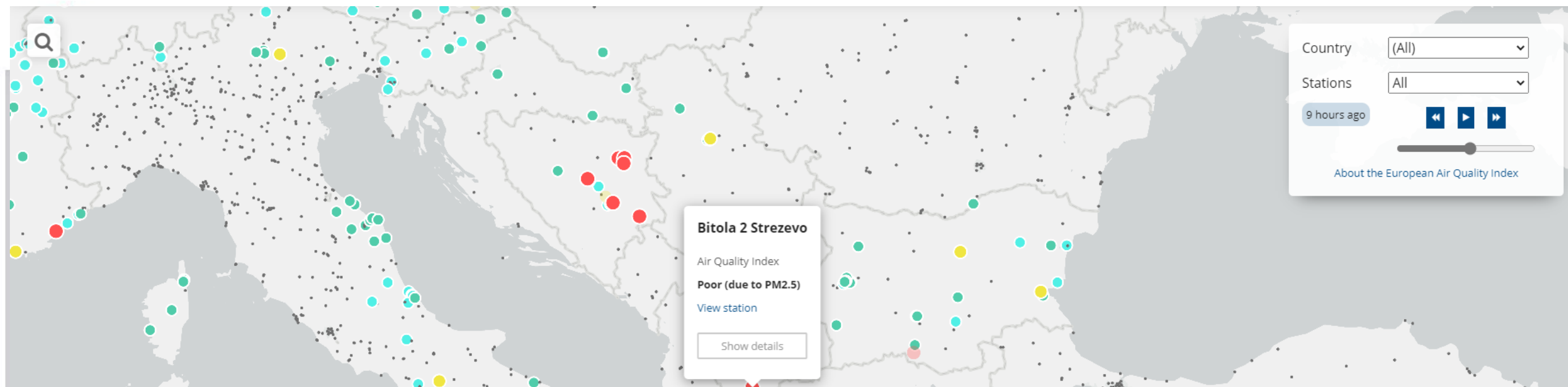
Введение

Справка подготовлена Европейским агентством по окружающей среде в рамках посвященного качеству воздуха компонента проекта ENI SEIS II East, профинансированного ЕС. Цель компонента состоит в расширении использования и доступности для широкой общественности результатов мониторинга качества воздуха в странах Восточного региона ЕИД. Целью этого документа является характеристика существующего положения в области мониторинга качества воздуха и управления соответствующими данными.

Справка подготовлена группой специалистов из Европейского агентства по окружающей среде (ЕАОС), Норвежского института исследований воздуха, 4sfera и специалистов из Грузии.

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Bitola 2 Strezevo (MK0038A)

Air Quality Index Poor (due to PM2.5)
Date 2020-12-14 03:00 UTC+1
Country North Macedonia
Location Битола
Classification Traffic
Area Urban

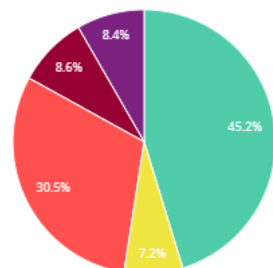
General population

Consider reducing intense activities outdoors, if you experience symptoms such as sore eyes, a cough or sore throat.

Sensitive population

Consider reducing physical activities, particularly outdoors, if you experience symptoms.

Accumulated past 365 days



Global

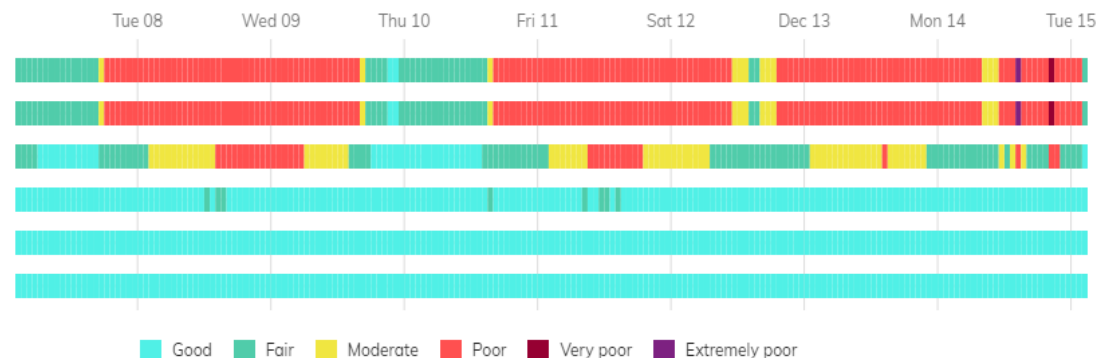
PM2.5

PM10

NO2

O3

SO2



[Country fact sheet North Macedonia](#) [Organization website](#)

Thanks for your attention!!

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[EEA 2020 air quality in Europe report](#)

www.eea.europa.eu/air

