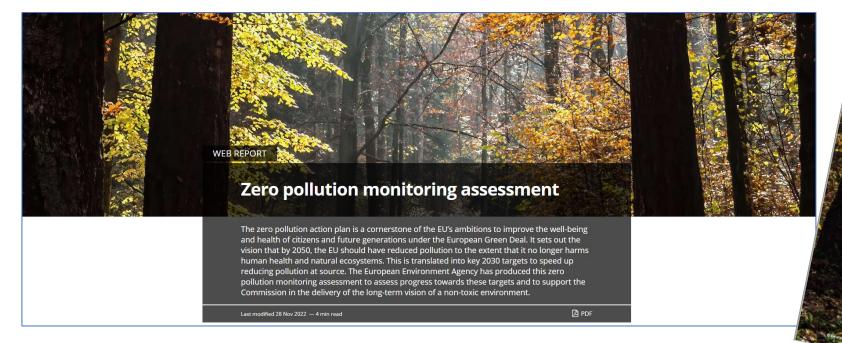
Zero Pollution Monitoring Assessment 2022 Pollution and Health

Zero Pollution Stakeholder Conference / 14 December 2022



Overview of the EEA Zero Pollution Monitoring Assessment

Web report: <u>https://www.eea.europa.eu/publications/zero-pollution</u>



Zero pollution monitoring assessment Summary For policymakers - PDF **European Environment Agency**



Structure of the report

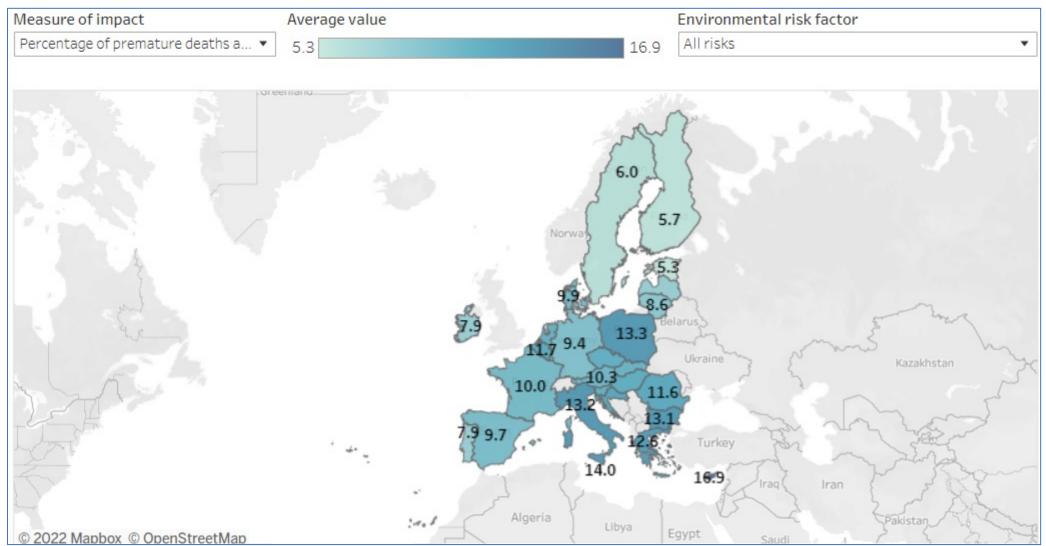
Chapters of the zero pollution monitoring assessment 2022:

- Production and consumption chapter and associated signals
- Ecosystems chapter and associated signals
- Health chapter and associated signals
- Zero pollution cross-cutting stories



Sections of the **health** assessment: Air pollution and health Noise pollution and health Water pollution and health Chemicals and health Soil pollution and health Health signals

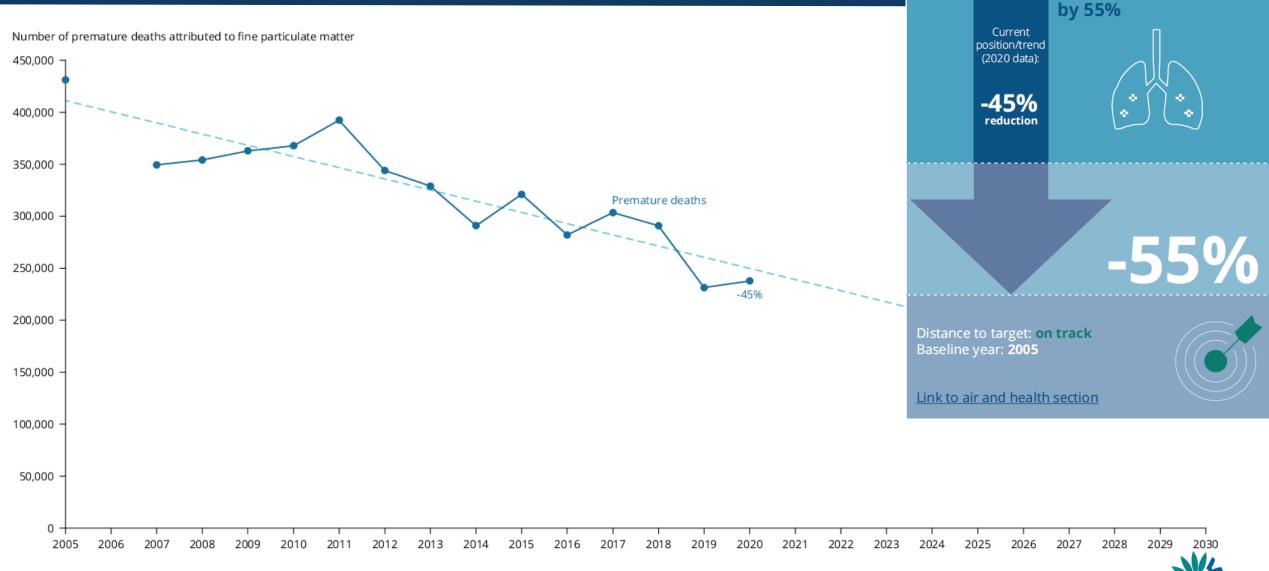
Health – Burden of Disease for environmental risk factors (2019)



Percentage of premature death attributable to environmental risk factors in EU-27 countries



Air Quality – Trends in Premature Deaths to 2020



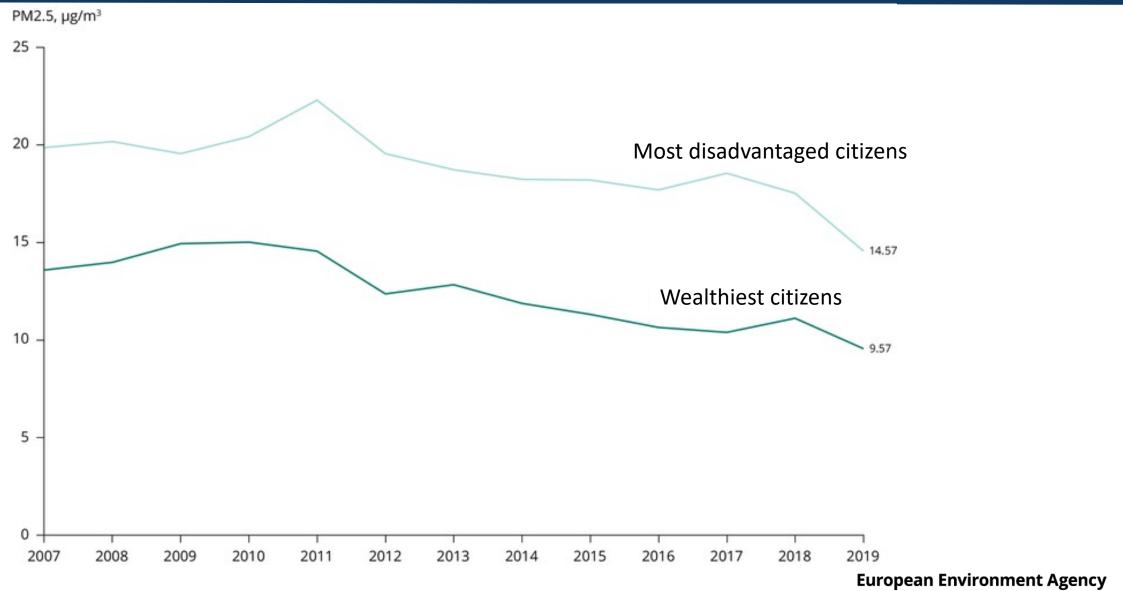
European Environment Agency

Reduce the health

impacts (premature deaths) of air pollution

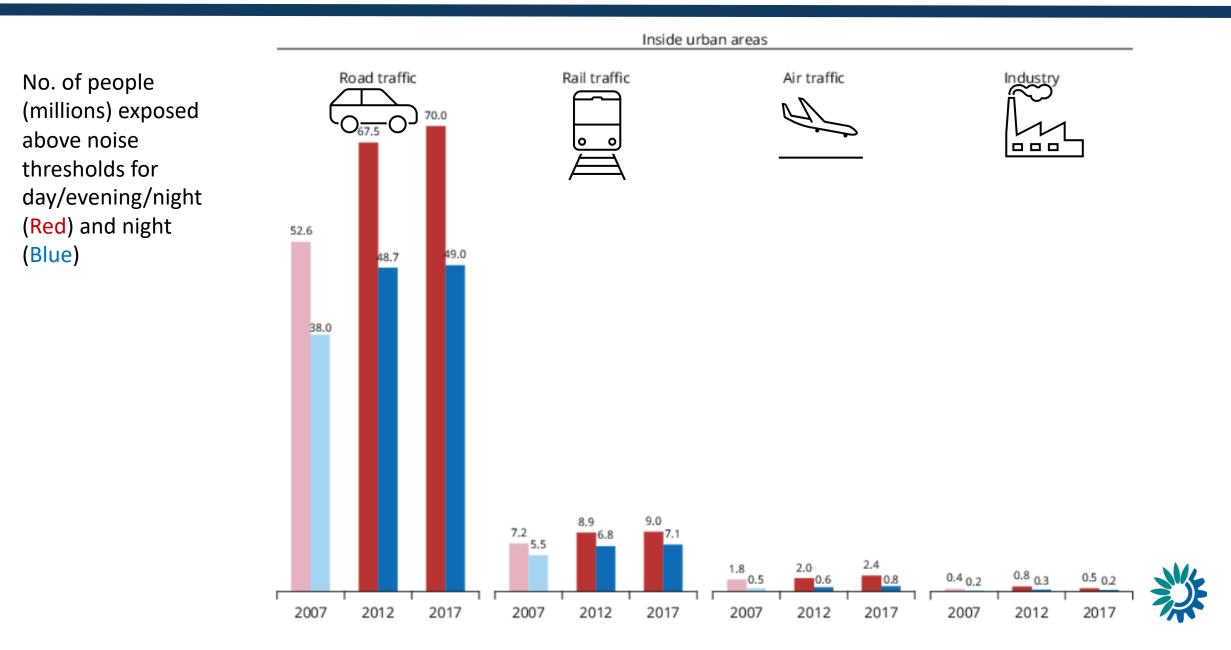
TARGET 1

Zero Pollution – air and health – Inequality in exposure

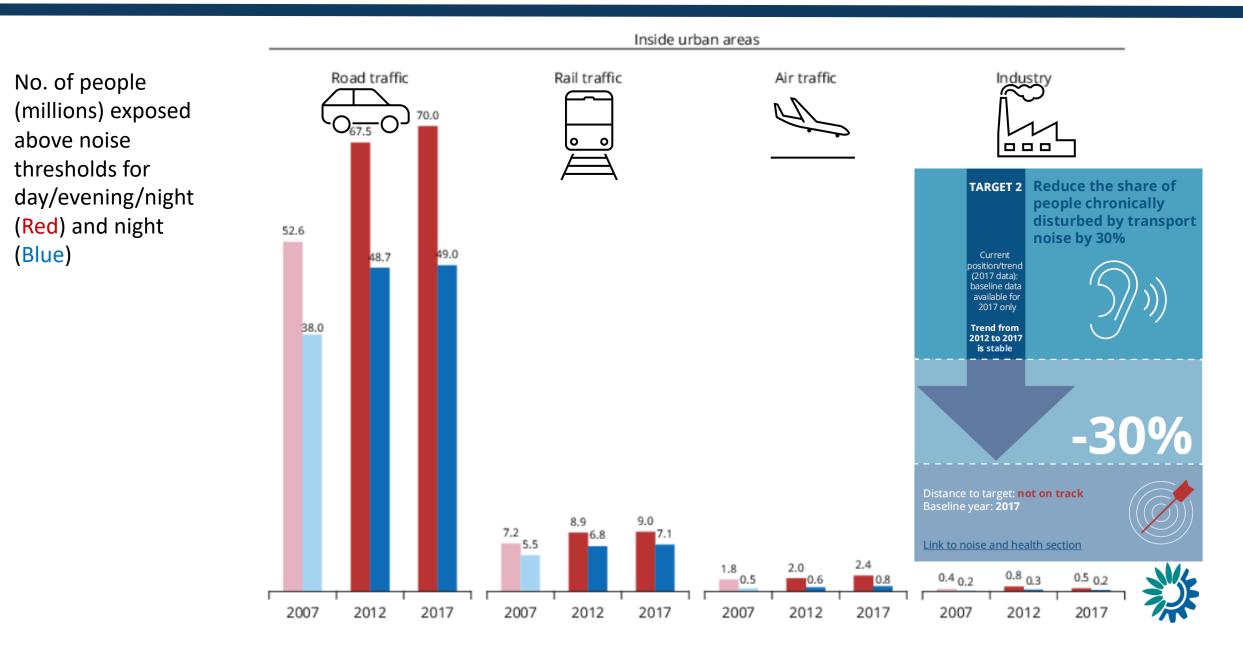




Noise – trends in noise levels

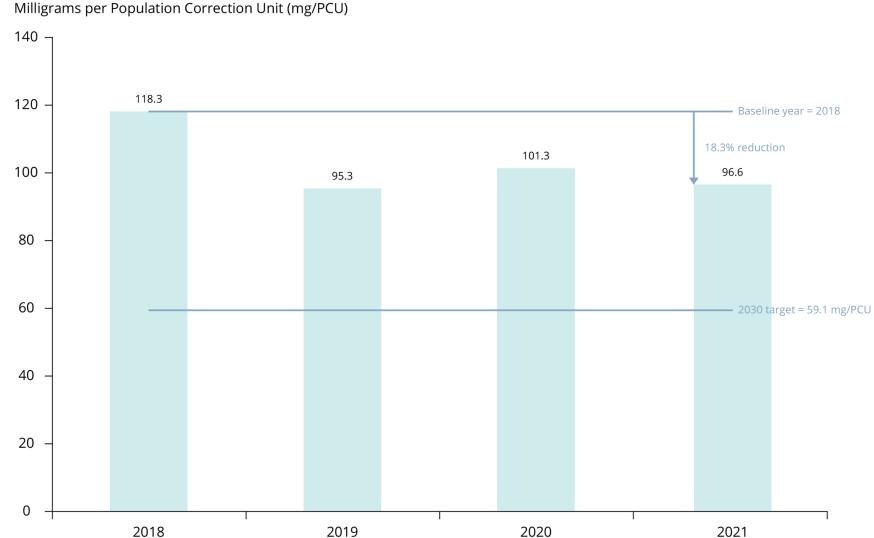


Noise – trends in noise levels



Zero Pollution – chemicals – Sales of antimicrobials

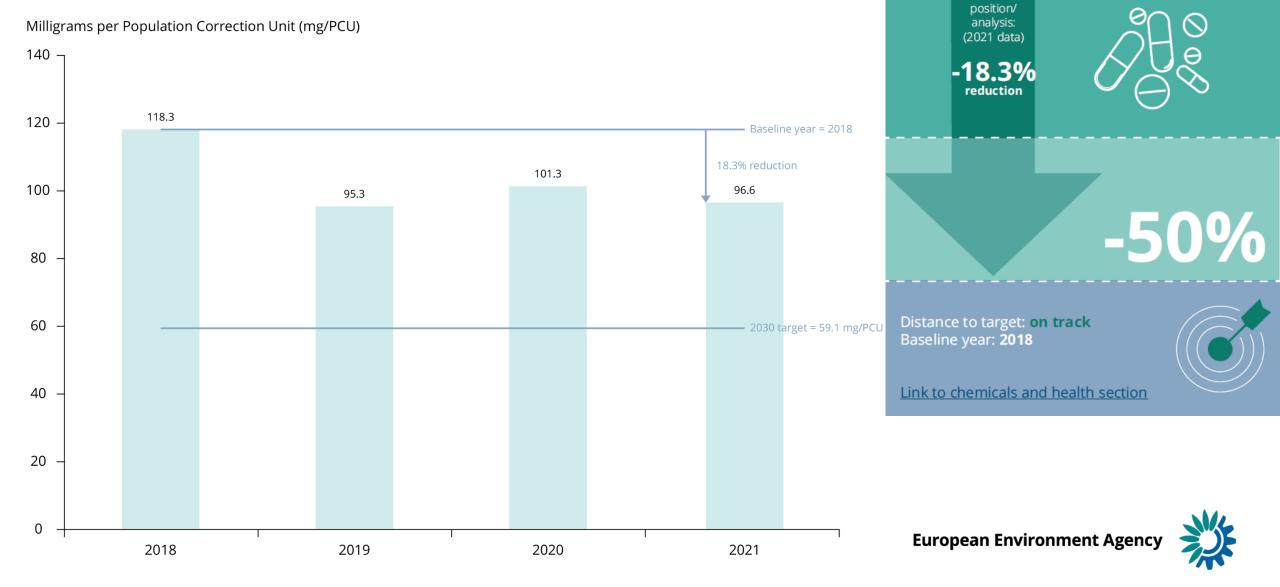
EU Sales of antimicrobials





Zero Pollution – chemicals – Sales of antimicrobials

EU Sales of antimicrobials



Reduce the sale of

antimicrobials for

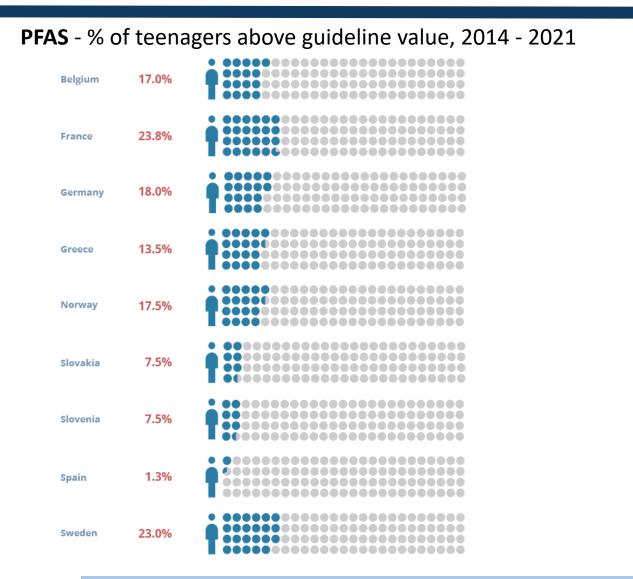
farmed animals and in

aquaculture by 50%

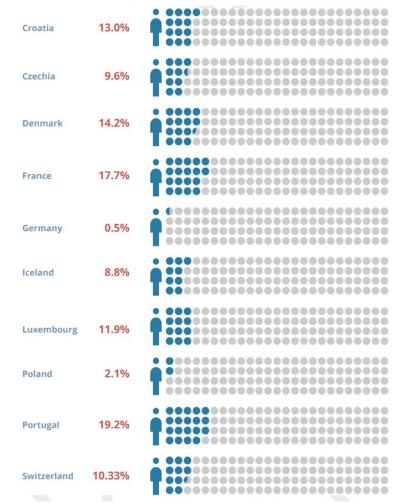
TARGET 4

Current

Chemicals – human biomonitoring results



Bisphenol S - % of adults above guideline value, 2014 - 2021

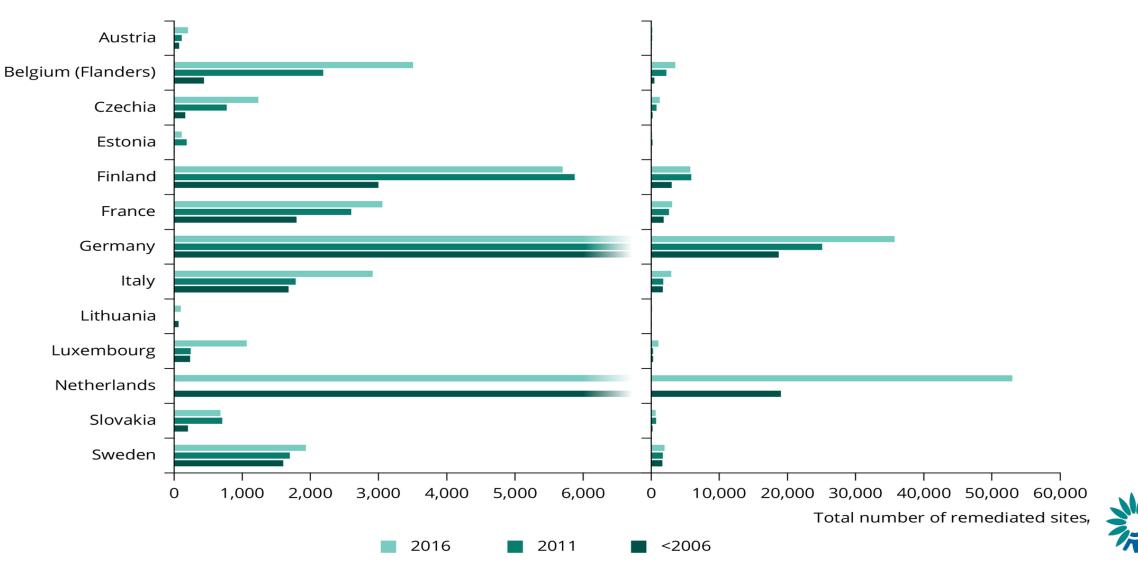


Phthalates - 17% of European children and adolescents are at risk from combined exposure to mixtures of phthalates



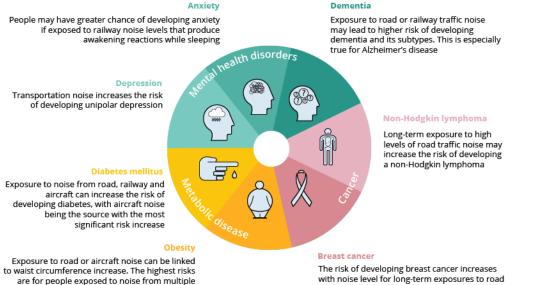
Soil – addressing contaminated sites

Number of remediated contaminated sites



Emerging health risks from noise exposure

transport sources



with noise level for long-term exposures to road traffic and railway noise



Emerging health risks from noise exposure

disease

with disorders



People may have greater chance of developing anxiety if exposed to railway noise levels that produce awakening reactions while sleeping

Depression

Transportation noise increases the risk of developing unipolar depression

Diabetes mellitus

Exposure to noise from road, railway and aircraft can increase the risk of developing diabetes, with aircraft noise being the source with the most significant risk increase

Obesity

Exposure to road or aircraft noise can be linked to waist circumference increase. The highest risks are for people exposed to noise from multiple transport sources

Solo

Dementia

Exposure to road or railway traffic noise may lead to higher risk of developing dementia and its subtypes. This is especially true for Alzheimer's disease

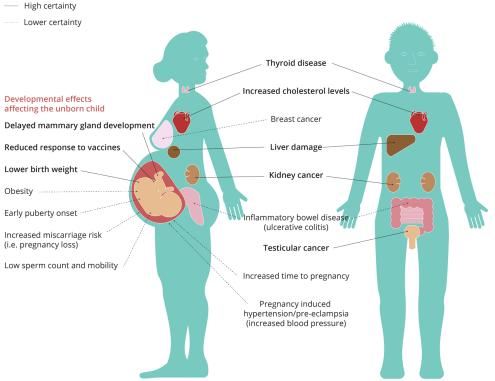
Non-Hodgkin lymphoma

Long-term exposure to high levels of road traffic noise may increase the risk of developing a non-Hodgkin lymphoma

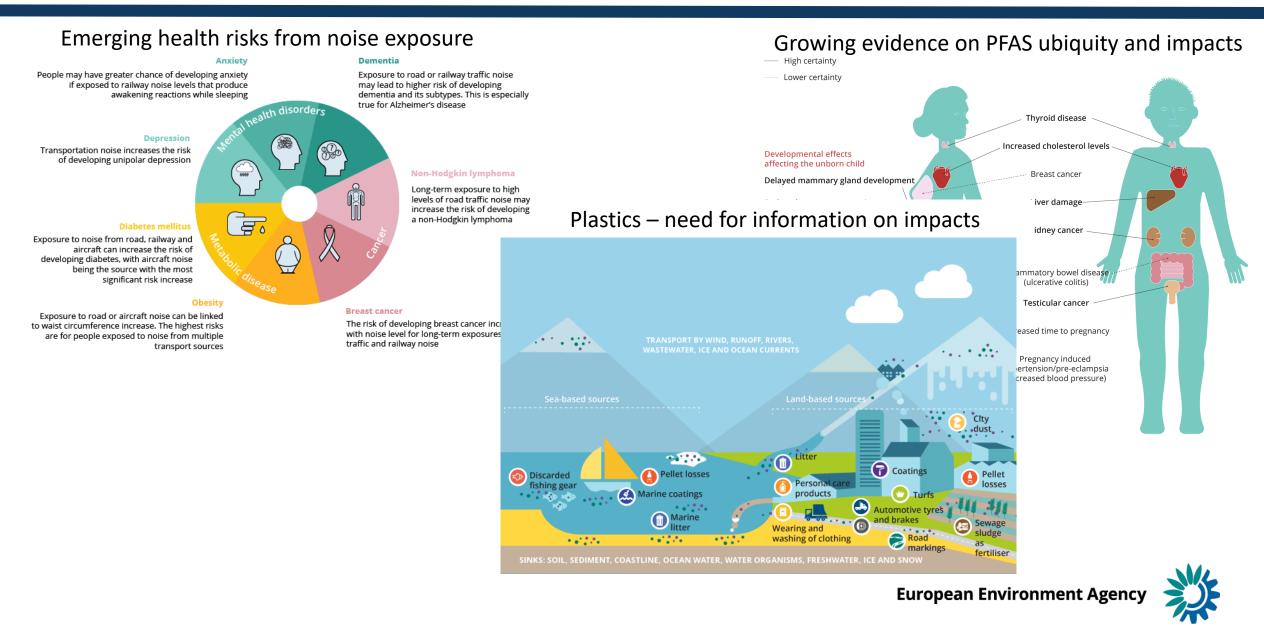
Breast cancer

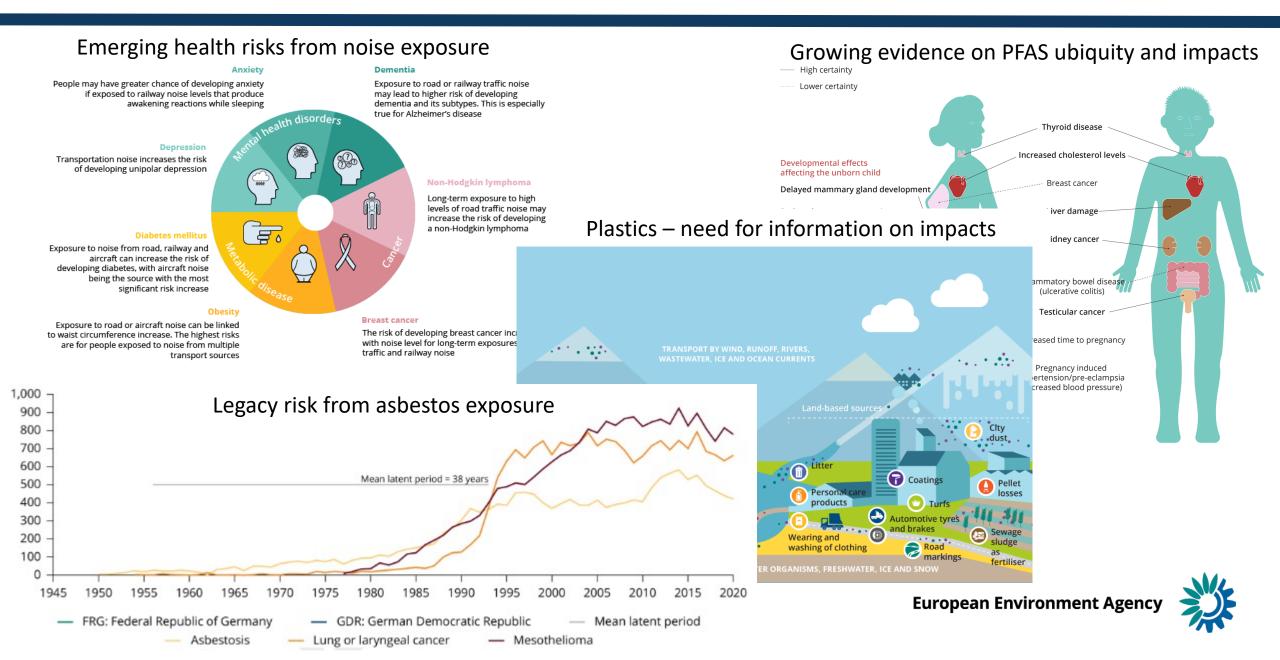
The risk of developing breast cancer increases with noise level for long-term exposures to road traffic and railway noise

Growing evidence on PFAS ubiquity and impacts



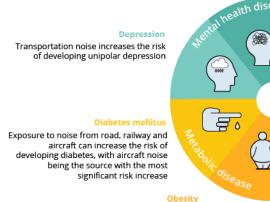




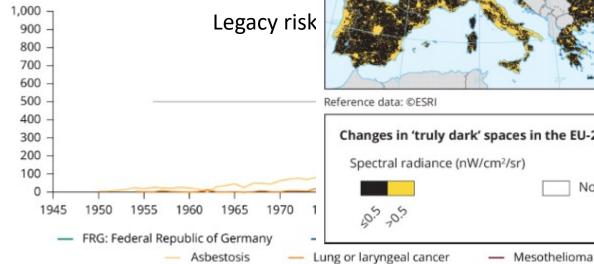


Emerging health risks fro Map 1. Changes in 'truly dark' spaces in the EU-27 between 2014-2015 and pacts

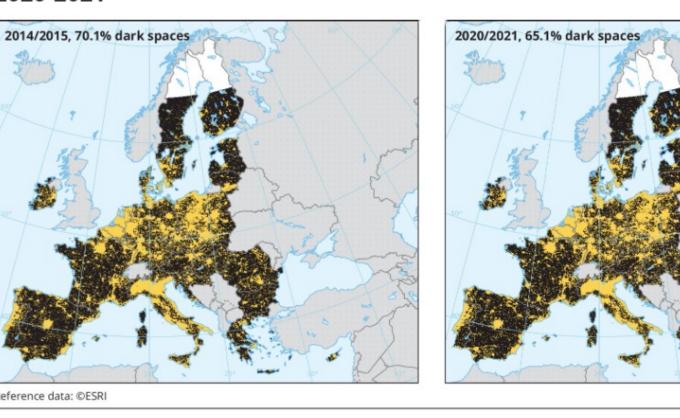
People may have greater chance of developing anxiety if exposed to railway noise levels that produce awakening reactions while sleeping



Exposure to road or aircraft noise can be linked to waist circumference increase. The highest risks are for people exposed to noise from multiple transport sources



2020-2021



Outside coverage

1,500 km

1,000

500

Changes in 'truly dark' spaces in the EU-27 between 2014-2015 and 2020-2021

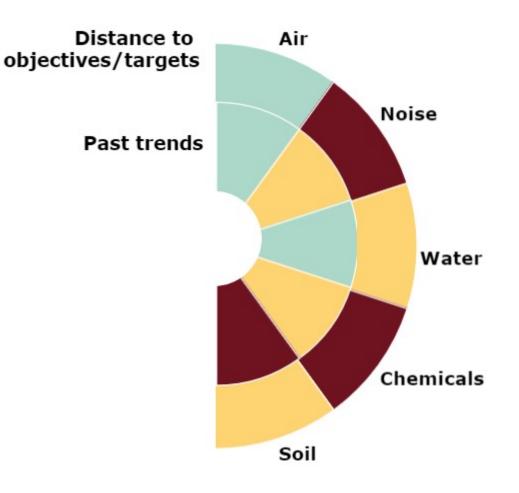
No data

Conclusions?

So, where are we on the road to zero pollution impacts on health?

- Progress good in some areas
- No progress in other areas
- Some legacy issues still concerning lead, asbestos
- Knowledge gaps remain e.g. soil
- Compelling evidence on chemical risks
- Inequity remains an issue to be tackled

Summary: Zero pollution and health analysis





Zero Pollution Stakeholder Conference/14 December 2022

Thank you