

The EU perspective on how to address Air Quality in the coming years

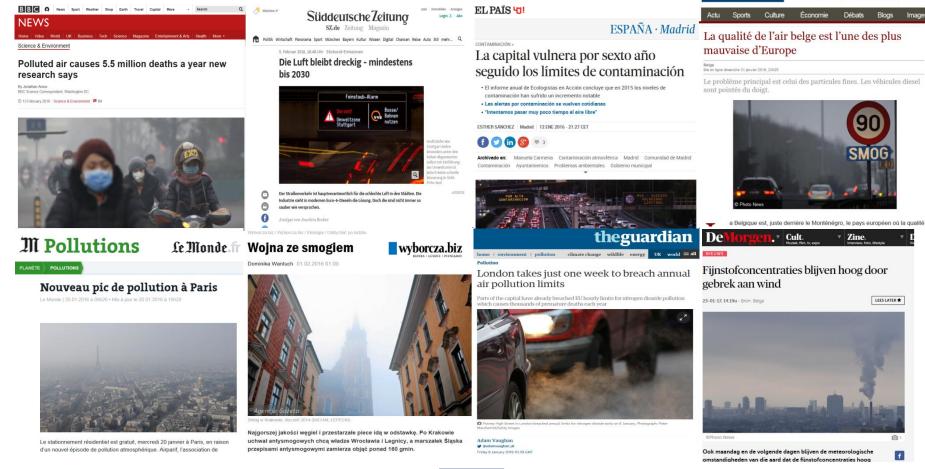
1st midterm conference LIFE IP PREPAIR

Milan, 11 July 2019

Guido de Wilt European Commission DG Environment, Clean Air



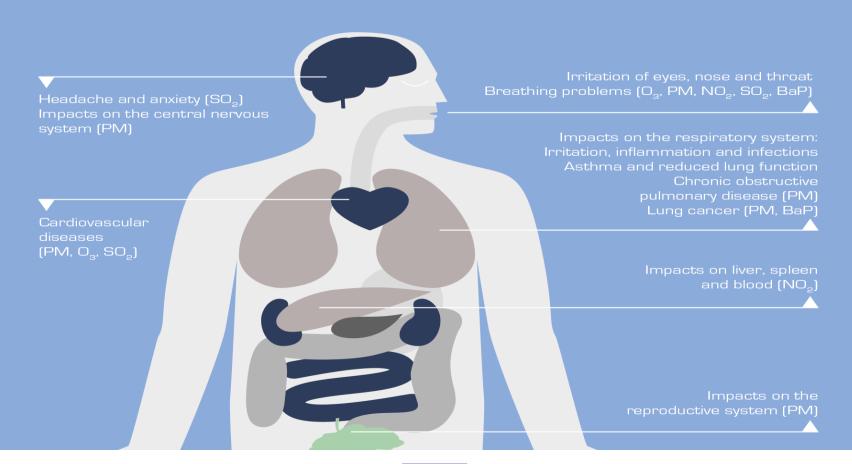
Increased awareness of air quality urgencies



LE SOIR



Air pollution affects human health & well-being



Source(s): EEA



Air pollution in Europe - Overview

Europe's air quality is improving; between 2000 and 2016 emissions of NH₃ decreased by 9%, and of SO₂ emission even by 76% ... yet still there are

Health impacts: 391.000 premature deaths each year due to PM_{2.5}

69.000 premature deaths each year due to NO₂

16.400 premature deaths each year due to O₃

17% of all lung cancer deaths are due to air pollution

Economic impacts: More than € 24 billion per year in 'direct costs'

Environmental impacts: Eutrophication limits exceeded in 72% of ecosystem

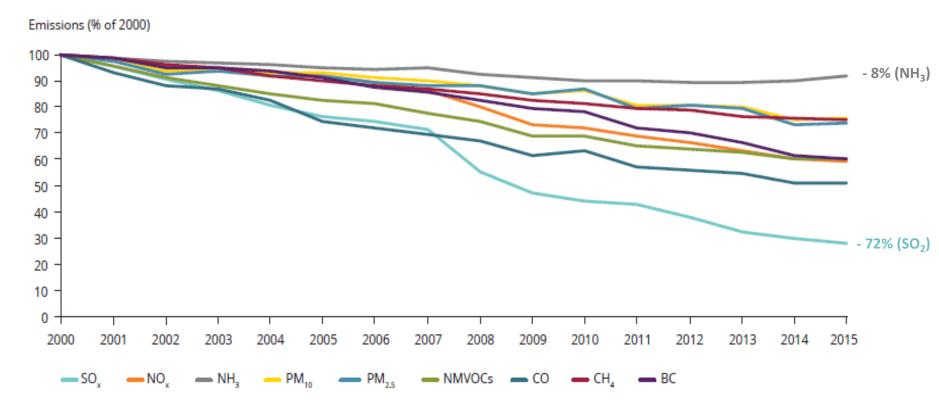
area in the EU, and in 78% of Natura 2000 area





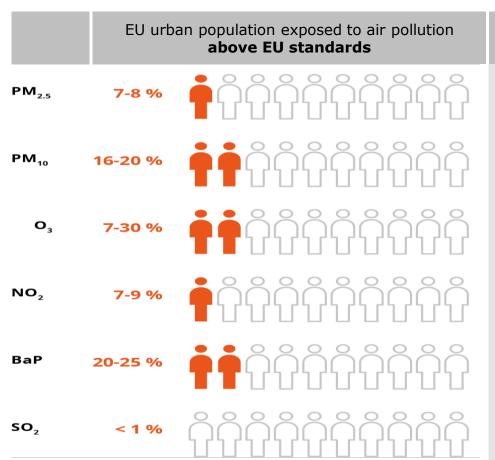
National Emissions Ceilings Directive

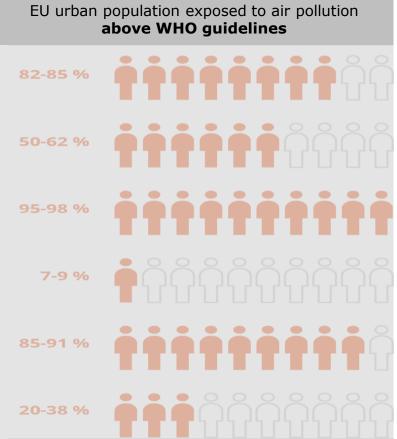
Development in EU-28 emissions, 2000-2015 (as % of 2000 levels)





Air pollution is a health challenge

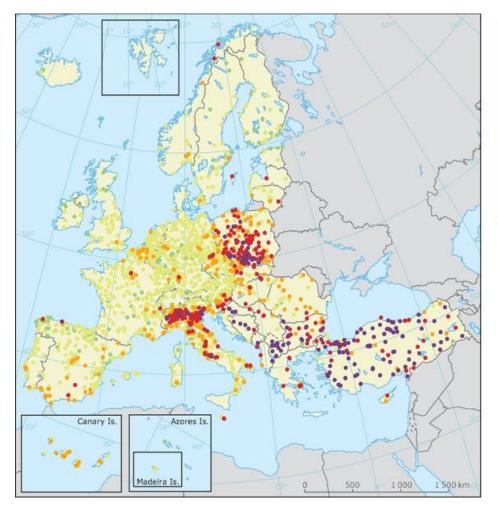


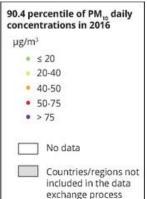




PM₁₀ (2016)

PM₁₀ exceedances are often linked to fuel combustion (i.e. energy, heating, transport)

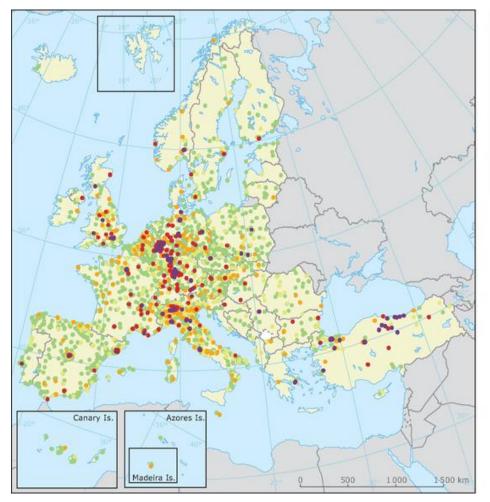


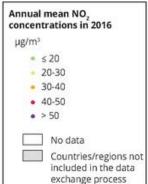




NO₂ (2016)

NO2 exceedances are often linked to traffic, in more than 130 cities in EU.







EU Clean Air Policy Framework (1)



Air Quality Directives

Maximum concentrations of air polluting substances

CONCENTRATIONS

EMISSIONS



National Emission Ceilings Directive

National emission totals (SO₂, NO_x, VOC, PM _{2.5}, NH₃)

Source-specific emission standards

- IED Directive
- MCP Directive
- Eco-design Directive
- Energy efficiency
- Euro and fuel standards



EU Clean Air Policy Framework (2)

The international context

 UN ECE Convention on Long-Range Transboundary Air Pollution (CLRTAP) and its Protocols (e.g. Gothenburg Protocol for 2010 and 2020)

The main European Union air policy instruments

- Ambient Air Quality Directives (AAQD): Maximum concentrations to be attained across the EU (SO2, NO2, PM10, benzene, lead, CO, O3, arsenic, cadmium, nickel, PM2.5 and BaP) (fitness check; SHM 15 January 2019)
- National Emission Ceilings Directive (NECD): National emission inventories and caps to limit transboundary pollution (SO2, NOx, NMVOC, PM2.5 and NH3)
- **Source-specific performance standards**: Euro and fuel standards, Industrial Emissions Directive, Medium Combustion Plants Directive, Ecodesign standards, etc.

The main Member States air policy instruments

- Air Quality Plans & Programmes (AAQD), National Air Pollution Control Programmes (by April 2019, NECD)
- National Emission Inventories, Projections, and Measures (NECD)
- Fiscal measures, urban mobility measures, market surveillance, ...



Fitness Check – Ambient Air Quality Directives

Purpose: Evidence-based analysis of whether EU actions are fit for purpose, and identify excessive regulatory burdens, overlaps, gaps, inconsistencies and/or obsolete measures

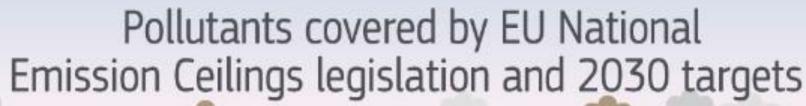
Scope: EU Ambient Air Quality Directives, i.e. 2008/50/EC and 2004/107/EC

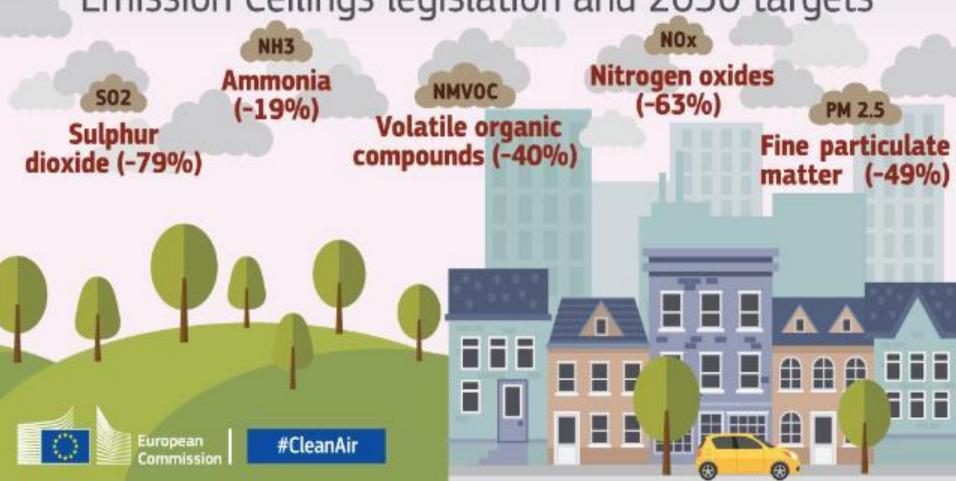
Focus: A fitness checks is a retrospective exercise: period 2008 to 2018

Criteria: Relevance, Coherence, Effectiveness, Efficiency, EU Value Added

Goal: To inform further reflections on whether the EU Ambient Air Quality
Directives provide the appropriate legislative framework - and identify
learning points to guide future action





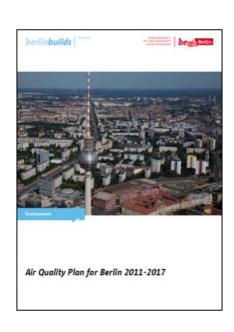




Improving air quality in cities

The Ambient Air Quality Directive requires Member States / Regions / Cities to have air quality plans to keep exceedance as short as possible

- General information and details on measuring stations
- Nature and assessment of pollution (incl. trends)
- Techniques used for air quality assessments
- Origin of pollution (incl. source apportionment)
- Details of measures and estimate of improvement of air quality planned, and the expected time required.





Improving air quality in cities

Some **good practices** for cleaner air in cities (there are many more):



Reliable, affordable and clean

public transport such as electric

buses and trams and new Euro VI

or retrofitted buses



City or district heating, using heat from existing industry or renewable energy sources



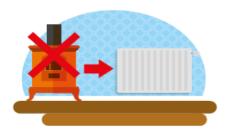
Traffic restrictions such as low-emission zones, reduced speed limits and congestion charges



More energy-efficient buildings



Extensive and safe **cycling networks**, abundant bike-parking facilities with easy access to public transport



omoting substitution of old, dirty stoves and oilers with clean models, and banning dirty fuels for household heating/cooking



Improving air quality

Synergies with **energy** policies ... e.g. by promoting of renewable energy, and by reducing use of coal by replacing it with cleaner fuels;

Synergies with **agriculture** policies ... e.g. by focusing on better livestock and manure management practices, and using low-emission fertilisers;

Synergies with **transport** policies ... e.g. by reducing emissions from vehicles, by setting fuel quality standards, by encouraging sustainable mobility options;

Synergies with **urban** policies ... e.g. by investing in cleaner transport options, and traffic access conditions that encourage use of low emission vehicles.



EU air quality funding opportunities

- Cohesion policy (i.e. European Regional Development Fund + Cohesion Fund) -specific allocations for air quality; € 1.8 billion is available for 2014-2020 -in addition, further indirect contributions can benefit air quality, e.g. from low-carbon economy (€ 45 billion), environmental protection and resource efficiency (€ 63 billion) and network infrastructure (€ 58 billion) budgets
- Connecting Europe Facility offers a further € 29 billion for indirect benefits,
 e.g. IWT, railways, intermodality, clean fuel infrastructure
- LIFE funding offers a further € 300 million, including for LIFE Integrated
 Projects (e.g. for air quality plans), LIFE pilot/demonstration projects or LIFE preparatory projects (e.g. air quality sensors)
- **EFSI funding** offers a total of € 500 billion, of which 30% have a possible air quality link (e.g. investing in energy and transport, or social infrastructure); in addition **Horizon 2020** indirectly benefits emissions reduction and air quality.



EU air quality implementation support

Environmental Implementation Review

- Country specific analysis, and targeted EIR dialogues
- Additional tools and funds to improve Peer-2-Peer exchange: http://ec.europa.eu/environment/eir/p2p/index_en.htm



Clean Air Dialogues & Clean Air Forum

- So far, dialogues with 7 Member States: IE, LU, HU, SK, ES, CZ, IT
- First Forum in Nov 2017 (measures in cities, by agriculture, 'clean tech')
- Second Forum in Nov 2019 (energy, agriculture, funding)

Bringing together Member States, regions and cities

- EU Urban Agenda to facilitate cooperation
- Urban Innovative Actions





Some concluding reflections

COM(2018)330 emphasizes urgent need to improve air quality through **full implementation** of air quality standards – for now, compliance gaps remain.

With the on-going Fitness Check we are seeking to understand what works well, and what could work better: whether the Directives are fit for purpose.

Reducing air pollution effectively requires **close cooperation** between different societal actors and across governance levels (EU, national, regional, local).

The European Commission will continue to **support Member States and neighbouring countries** – such as via the Clean Air Dialogues, or via funding opportunities, best practice and advice options.



Feedback/questions

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Thank you!