

## Air Quality Revision of EU Rules





European Commission Clean Air & Urban Policy Unit *"The Commission will draw on the lessons learnt from the evaluation of the current air quality legislation.*"

It will also propose to strengthen provisions on monitoring, modelling and air quality plans to help local authorities achieve cleaner air.

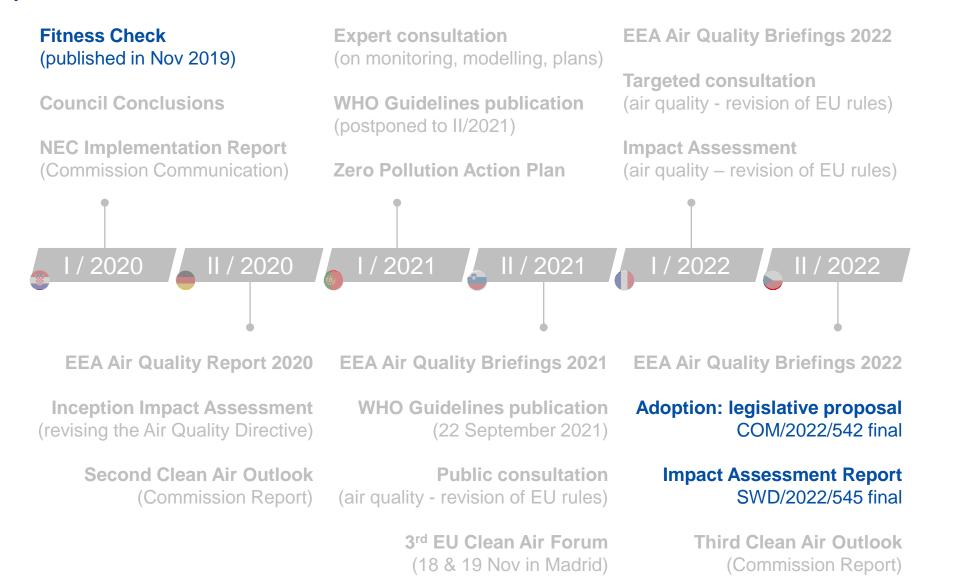
The Commission will notably propose to revise air quality standards to align them more closely with the World Health Organization recommendations."



Communication on the European Green Deal (COM/2019/640 final)

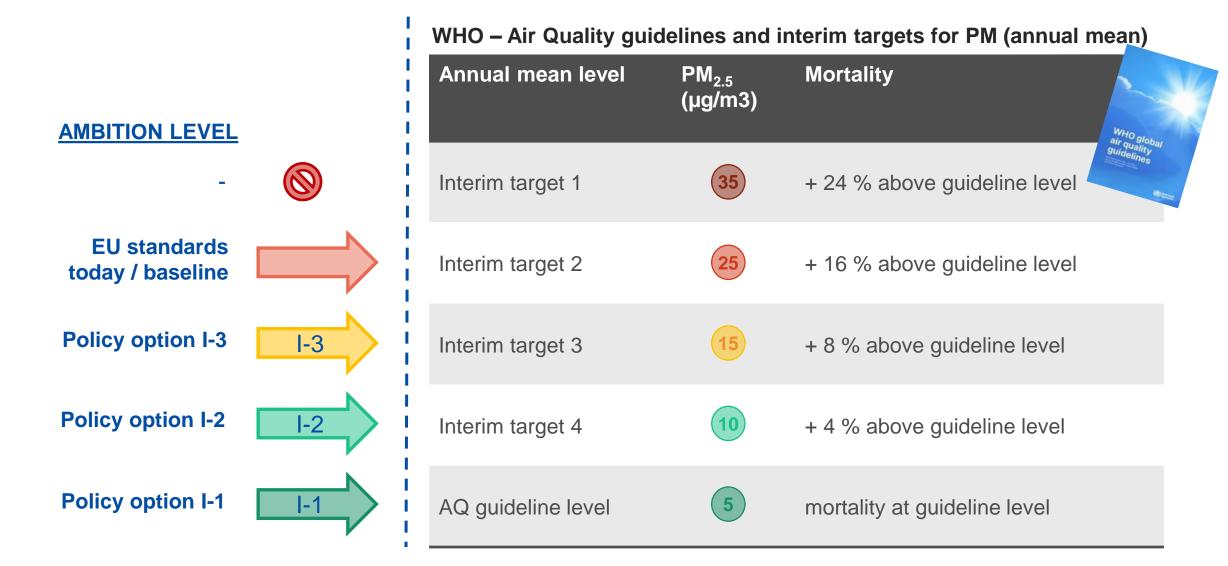


### **EU Clean Air Policy Milestones**





### Different policy options (example: for PM<sub>2.5</sub>)



### Comparing policy options

All three options analysed would render **significant health and environment benefits**, which outweigh the implementation costs by 2030 – albeit to varying degrees.

		Baseline	Policy Option I-3	Policy Option I-2	Policy Option I-1	Key criteria:
Air Quality standard	PM <sub>2.5</sub>	25 µg/m3	15 µg/m3	10 µg/m3	5 µg/m3	
	NO <sub>2</sub>	40 µg/m3	30 µg/m3	20 µg/m3	10 µg/m3	A 1 1 1 11/
Exposed > WHO levels	PM <sub>2.5</sub>	333 million	267 million	243 million	226 million	Achievability
	NO <sub>2</sub>	52 million	46 million	44 million	42 million	
Is the standard a	achievable	For >99% of PM <sub>2.5</sub>	For 99% of PM <sub>2.5</sub>	<b>For 94%</b> of PM <sub>2.5</sub>	For 29% of PM <sub>2.5</sub>	
with available m		sampling points	sampling points	sampling points	sampling points	<ul> <li>Mitigation costs</li> </ul>
Key economic i	mpacts					<b>..</b>
Mitigation costs	Central	0	€3.3 bn	<b>(€5.6 bn</b> )	€7.0 bn	
	If corrected	0	€1.0 bn	€5.1 bn	€7.0 bn	<ul> <li>Gross benefits</li> </ul>
	for 'border					
	cell effect' (b)					
Gross benefits	Low <sup>(c)</sup>	0	€32.4 bn	€41.8 bn	€45.0 bn	Benefit vs Cost
	High <sup>(d)</sup>	0	€93.8 bn	€i21.4 bn	€130.8 bp	
Net	Low <sup>(c)</sup>	0	€29.0 bn	€36.2 bn	£37.9 bn	
benefits	High <sup>(d)</sup>	0	€90.4 bn	€115.7 br	€123.6 bn	<ul> <li>Health impact</li> </ul>
Benefit-cost	Low <sup>(c)</sup>	-	10:1	7.5:1	6:1	nearth impact
ratio	High <sup>(d)</sup>	-	28:1	21:1	19:1	
Net GDP impact		+ /- 0%	+ 0.26 %	+ 0.38 %	+ 0.44 %	
Key health impa	icts <sup>(e)</sup>					
Annual prema-	Due to PM <sub>2.5</sub>	56 100	38% less	49% less	53% less	
ture mortality	Due to NO <sub>2</sub>	4 050	12% less	16% less	20% less	



### What does our proposal improve?

#### **Environment & health**

- Zero pollution objective at the latest by 2050
- Intermediate 2030 EU air quality standards
- Update of **other air quality metrics**, including more refined average exposure obligations
- Regular review mechanism

#### **Governance & enforcement**

- Air quality plans to be more effective in ending and preventing exceedances of EU standards
- **Improved enforceability**: new provisions on access to justice, compensation and penalties
- More transboundary cooperation on air quality

#### Monitoring & assessment

- Refined approach to air quality monitoring, increased use of air quality modelling
- Additional information on representativeness of sampling points, better inform air quality action
  - Monitoring **pollutants of emerging concern** (e.g. ultrafine particles, black carbon, ammonia)

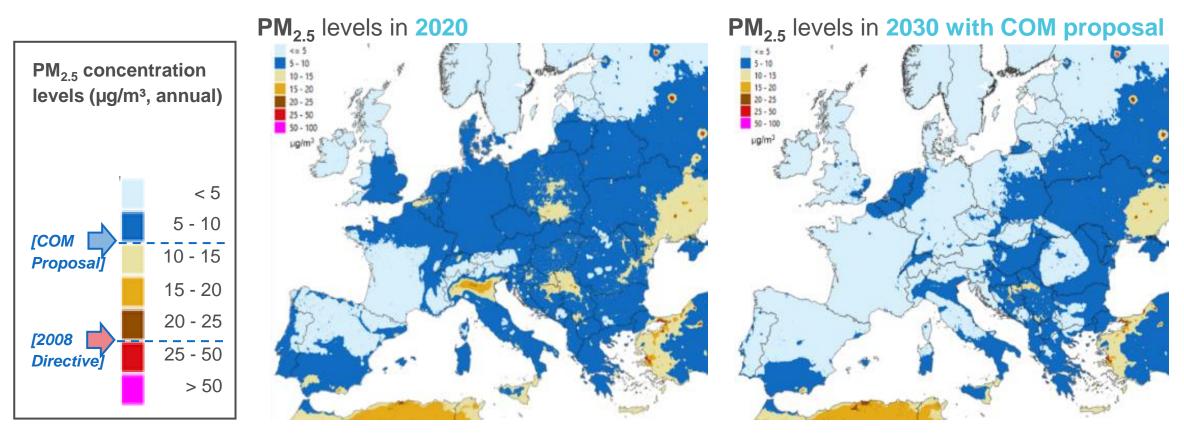
#### **Information & communication**

- More up-to-date air quality information
- Requirements for air quality indices to provide hourly reporting of available air quality data
  - Informing the public about possible health
     impacts and provide recommendations



### What will the proposal achieve?

First and foremost, the air quality will improve across the European Union.



Based on GAINS/EMEP/uEMEP. Note that these maps show the total concentration levels, and include also contributions from natural sources of wind blown dust and sea salt.

### What will the proposal achieve?

- Health benefits: Reduces annual mortality (premature deaths) linked to air pollution by more than 75% (and by 50% more than without this policy)<sup>(1)</sup>
  - also reduces related morbidity (illnesses) by 50% more than without this policy.
- **Social benefits:** Stricter limit values particularly protect sensitive populations and vulnerable groups; Directive requires additional health impact information.
- Environmental benefits: Decreases in eutrophication (-22%) and acidification (-63%) of ecosystems; less crop losses and damage to forests.
- Economic benefits: Benefits far outweigh the costs, with annual total gross benefits estimated at €42 bn (and up to €121 bn depending on the valuation method) in 2030, compared to measures that costs less than €6 bn annually.

European Commission

<sup>(1)</sup>Note that these estimates refer only to health impacts above the WHO Air Quality Guideline levels. However, air pollution below these levels can also impact human health.

### **EU Clean Air Policy Milestones**



#### Contact us: env-air@ec.europa.eu

Have your say:

https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12677-Revision-of-EU-Ambient-Air-Quality-legislation

# Thank you

