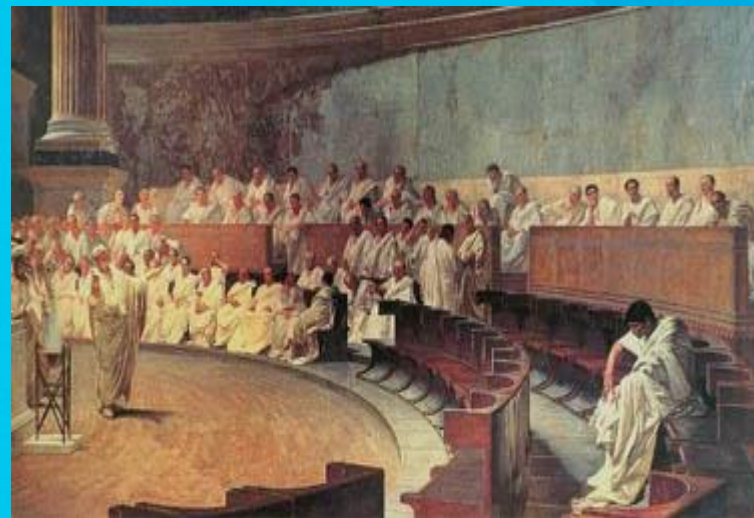


The legal framework of air quality

Gábor Bendik
Clean Air Action Group

ROMAN LAW (2000 years ago):

„Aerem corrumpere non licet”



HUNGARIAN LAW (Governmental Decree No. 306/2010.)

„Tilos a légszennyezés...”



Both mean the same: „Air pollution is prohibited”

EU regulation 1.

The Ambient Air Quality Directive (Directive 2008/50/EC)

- Sets up a limit value system
- Air quality zones in each country
- Air quality plan in case of violation
- Basic rules for monitoring
- Basic rules for the implementation (not too effective)
- Currently under legislative review (this week – European Parliament voting)

Current air quality threshold limits and the proposals

Parameter	Time Interval	Directive 2008/50/EC	2022 Proposal
PM _{2.5}	Annual mean	25 µg/m ³	10 µg/m ³
	24-hour mean	NA	25 µg/m ³ not to be exceeded on more than 18 days/year
PM ₁₀	Annual mean	40 µg/m ³	20 µg/m ³
	24-hour mean	50 µg/m ³ not to be exceeded on more than 35 days/year	45 µg/m ³ not to be exceeded on more than 18 days/year
NO ₂	Annual mean	40 µg/m ³	20 µg/m ³
	1-hour mean	200 µg/m ³ not to be exceeded on more than 18 hours/year	200 µg/m ³ not to be exceeded on more than 18 hours/year
	24-hour mean	NA	50 µg/m ³ not to be exceeded on more than 18 days/year
O ₃	8-hour mean	120 µg/m ³ not to be exceeded on more than 25 days/year	120 µg/m ³ not to be exceeded on more than 18 days/year

WHO air quality guidelines

Pollutant	Averaging Time	2005 AQGs	2021 AQGs
PM _{2.5} , µg/m ³	Annual	10	5
	24-hour ^a	25	15
PM ₁₀ , µg/m ³	Annual	20	15
	24-hour ^a	50	45
O ₃ , µg/m ³	Peak season ^b	-	60
	8-hour ^a	100	100
NO ₂ , µg/m ³	Annual	40	10
	24-hour ^a	-	25
SO ₂ , µg/m ³	24-hour ^a	20	40
CO, mg/m ³	24-hour ^a	-	4

EU regulation 2.

National Emission Ceilings Directive (2016/2284/EU)

- Sets emission reduction commitments for five main air pollutants by 2030
- Interim targets by 2020
- Strict reporting (inventories)
- Policies and measures
- Flexibilities

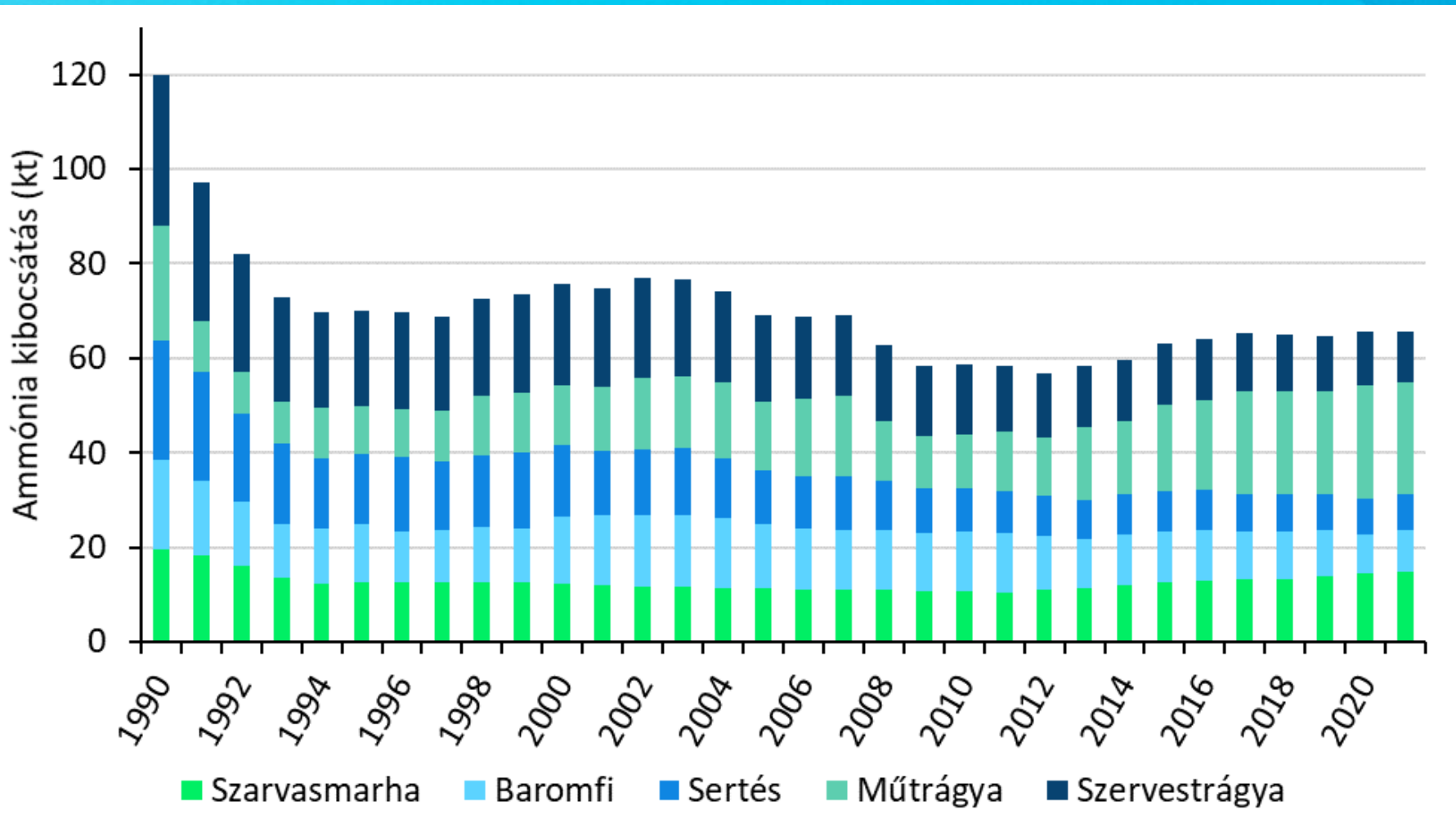
Pollutants covered by EU National Emission Ceilings legislation and 2030 targets



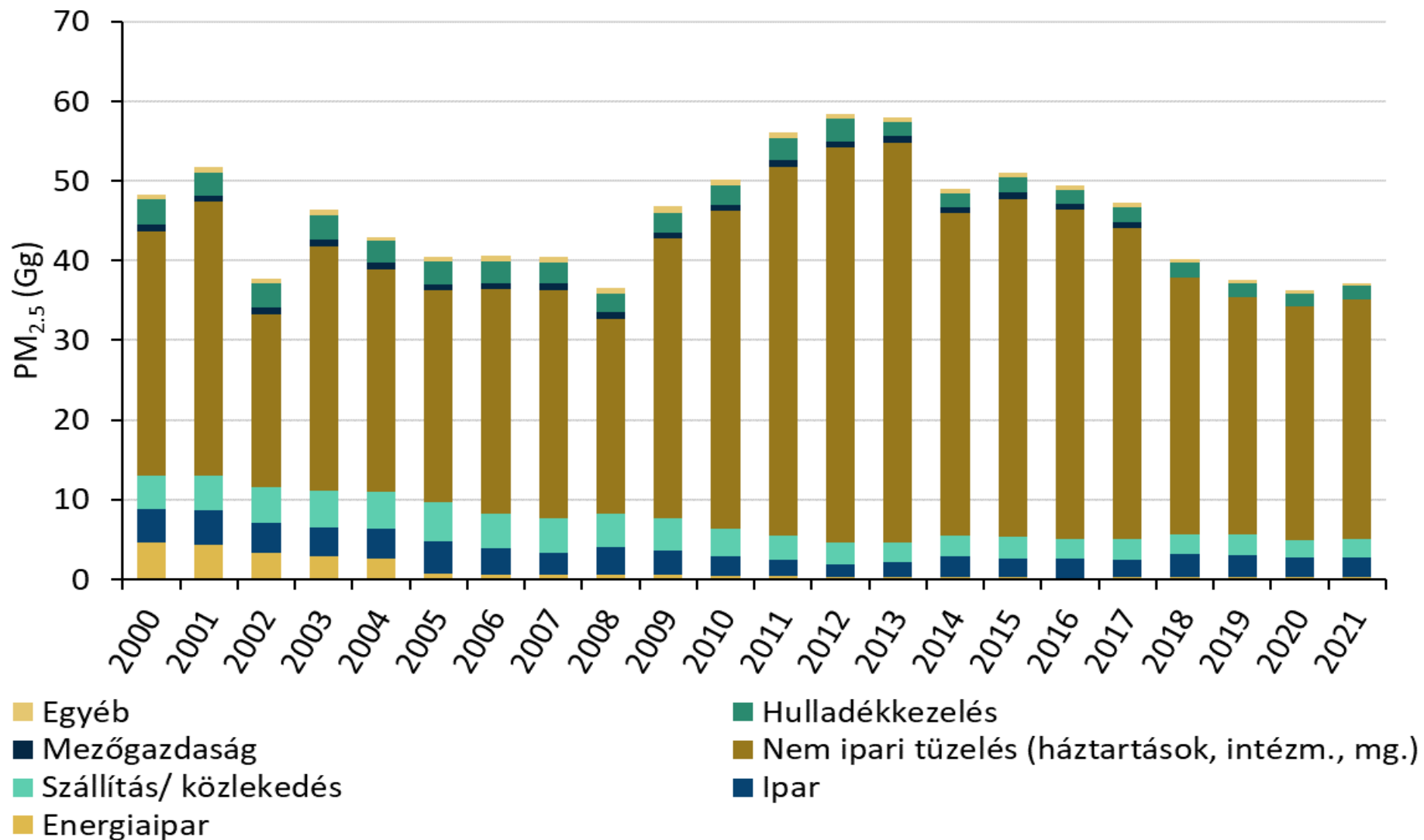
European Commission

#CleanAir

Ammonia emission, Hungary



PM2.5 emission, Hungary

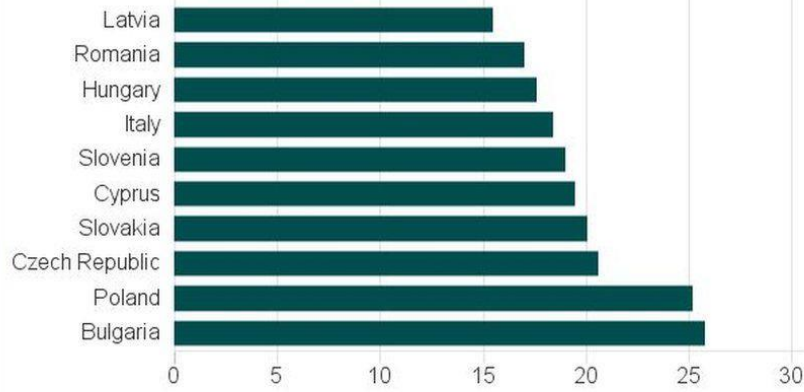


Hungarian air regulation (basically the transposition of the Directives)

1. Act No. III of 1995 on the protection of the environment
2. Gov. Decree No. 306/2010. on the protection of air
 - Air quality limit values (according to the AAQD)
 - Information and alarm thresholds – Smog alarm system
 - Emission limits for industrial facilities
 - General rules for the prohibition of stench emissions (e.g for animal farms)
 - Procedural rules and sanctions

Ten worst European countries for air pollution in Europe

■ PM2.5 average concentration

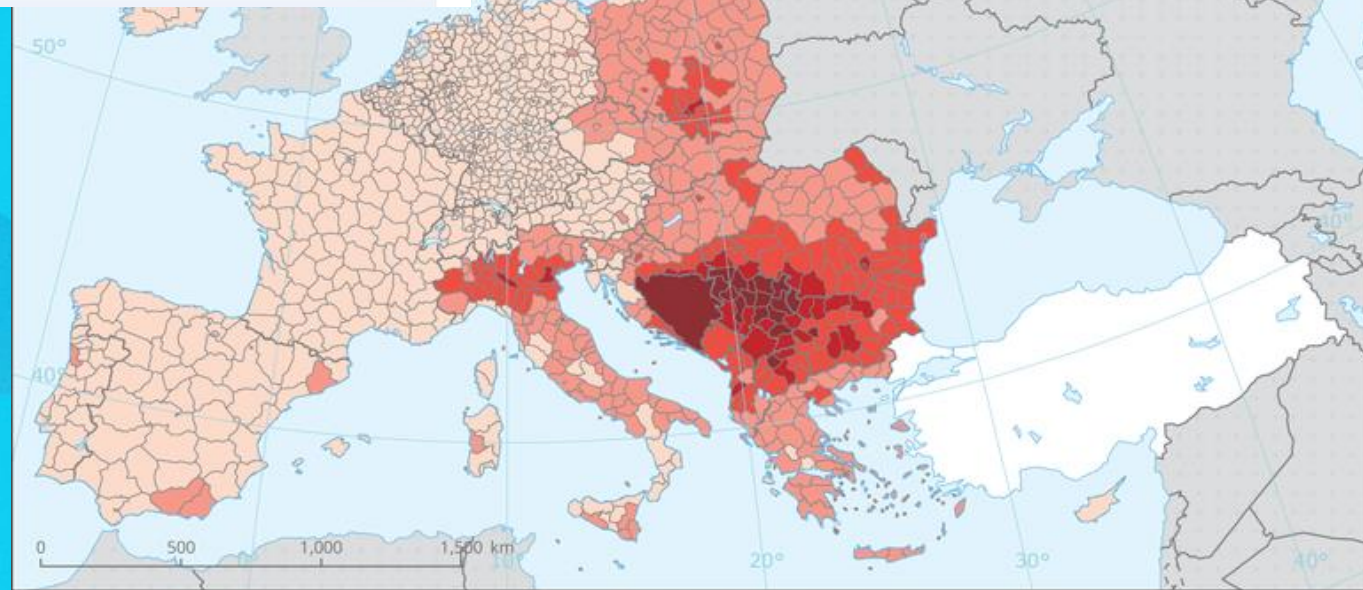
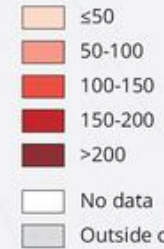


EEA. PM2.5 is measured in micrograms per cubic metre of air

BBC

Premature deaths attributable to PM_{2.5} at NUTS3 level for European countries in 2020, adjusted for population

Number of premature deaths per 100,000 inhabitants



Reference data: ©ESRI

Administrative boundaries: © EuroGeographics, © FAO (UN), © TurkStat. Source: European Commission – Eurostat/GISCO

Premature deaths per 100,000 inhabitants, PM2.5 (2020)

Infringement procedures against Hungary

- PM10

Budapest and the Sajó Valley – 2005

Pécs – 2011

- NO₂

- Judgement of the European Court of Justice – Feb. 2021

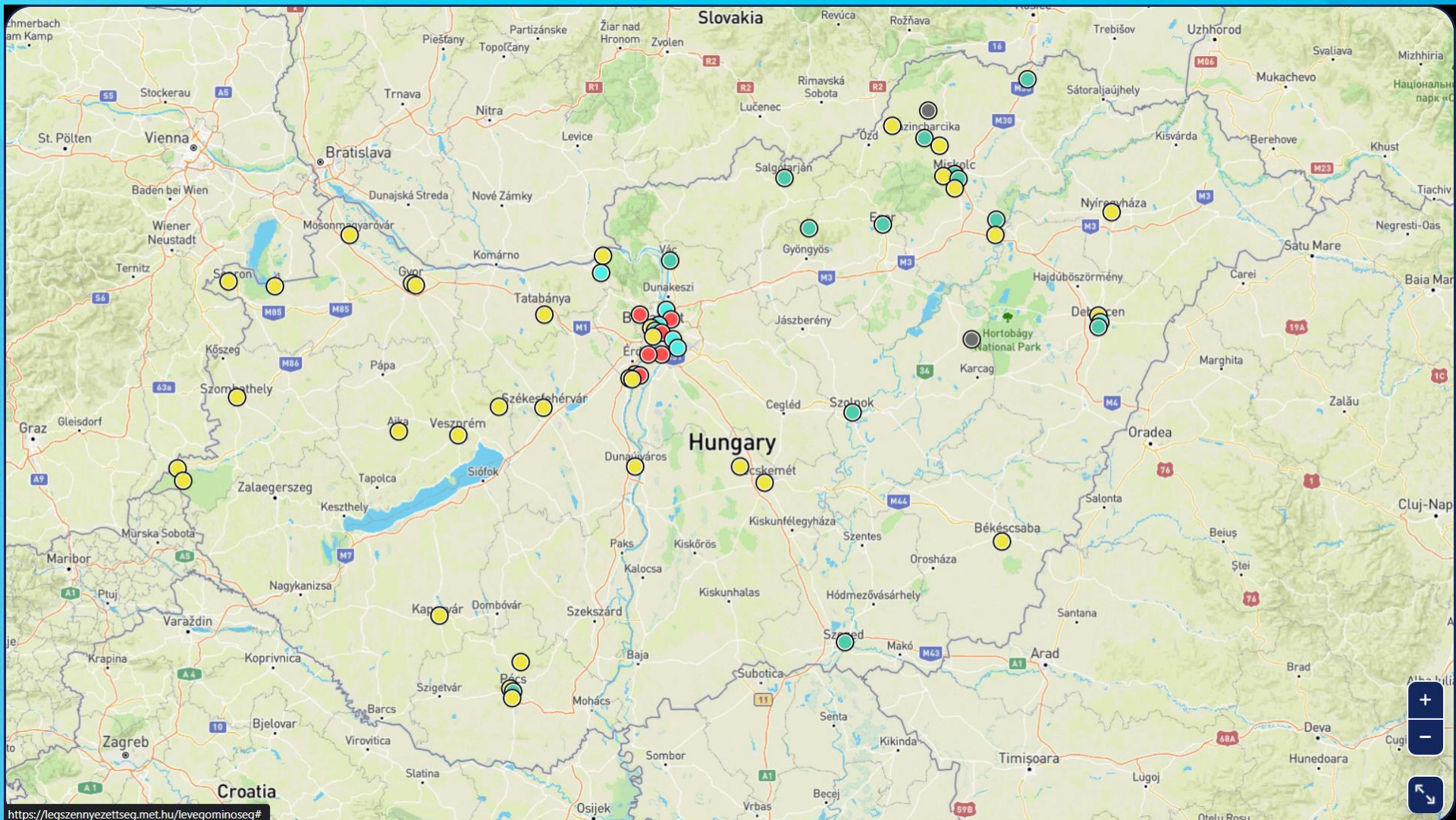
(Case C-637/18)

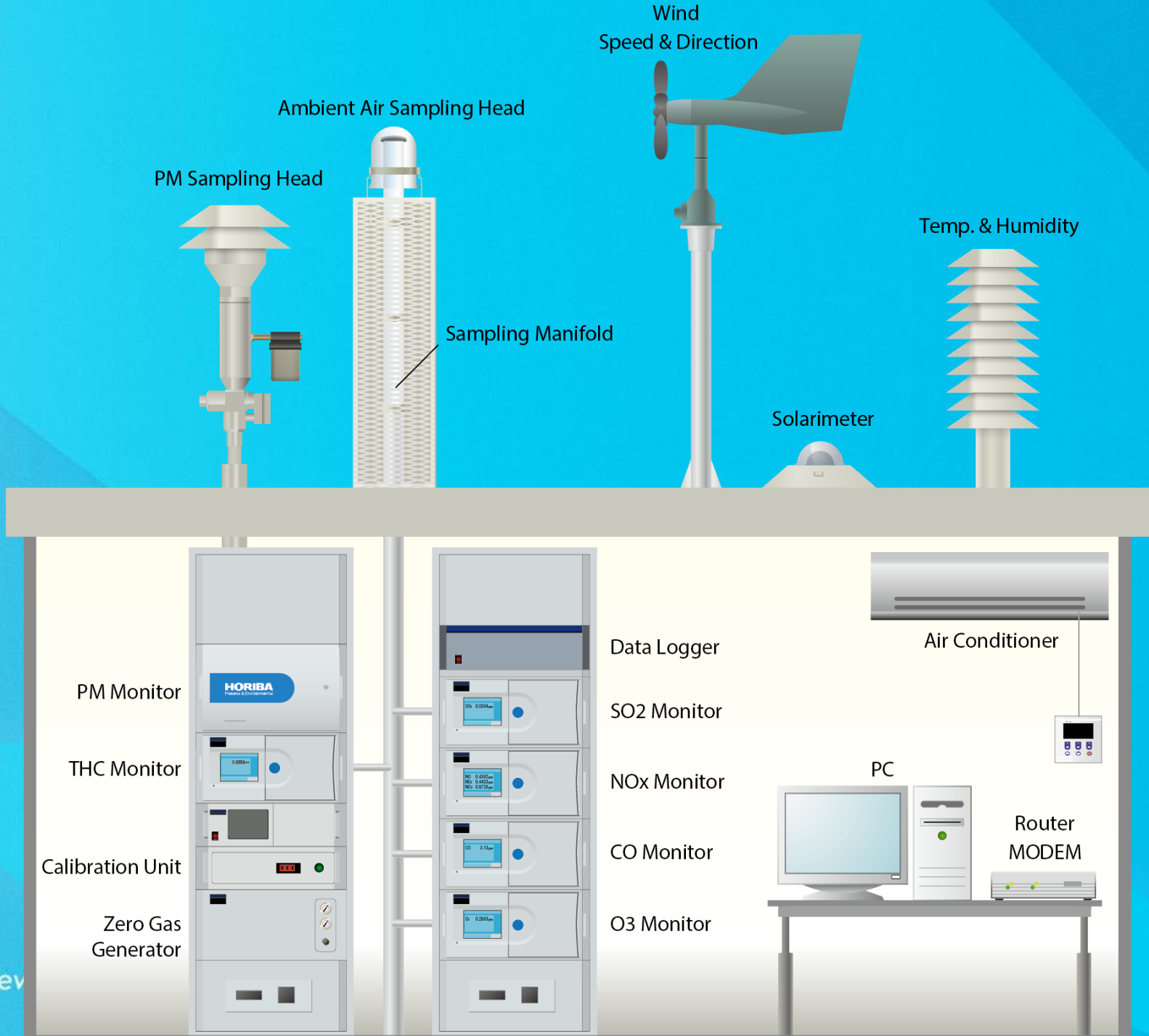
systematically and persistently exceeding the daily limit value for concentrations of PM10

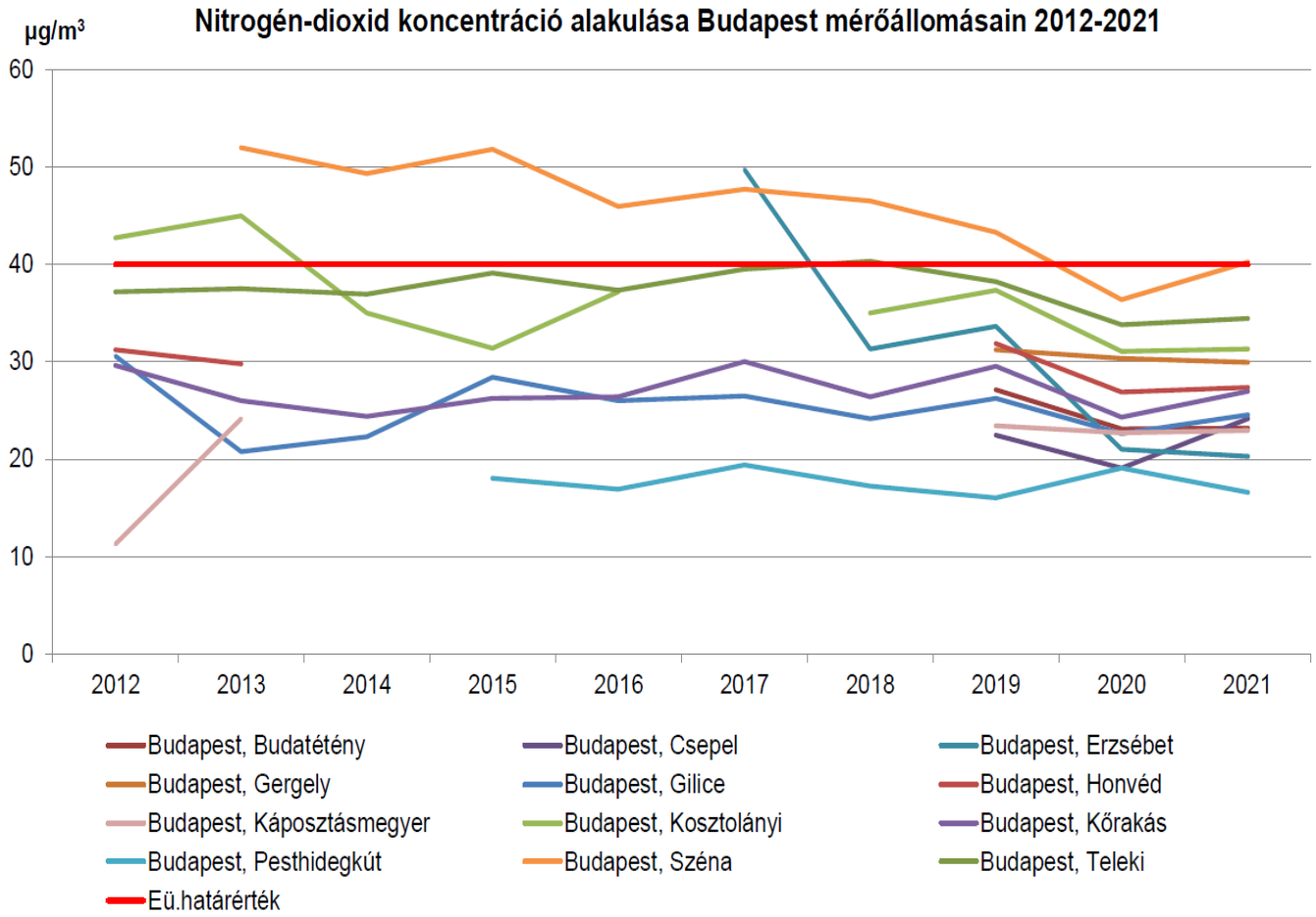
failing to adopt appropriate measures to ensure compliance

- Next step: Sanctions

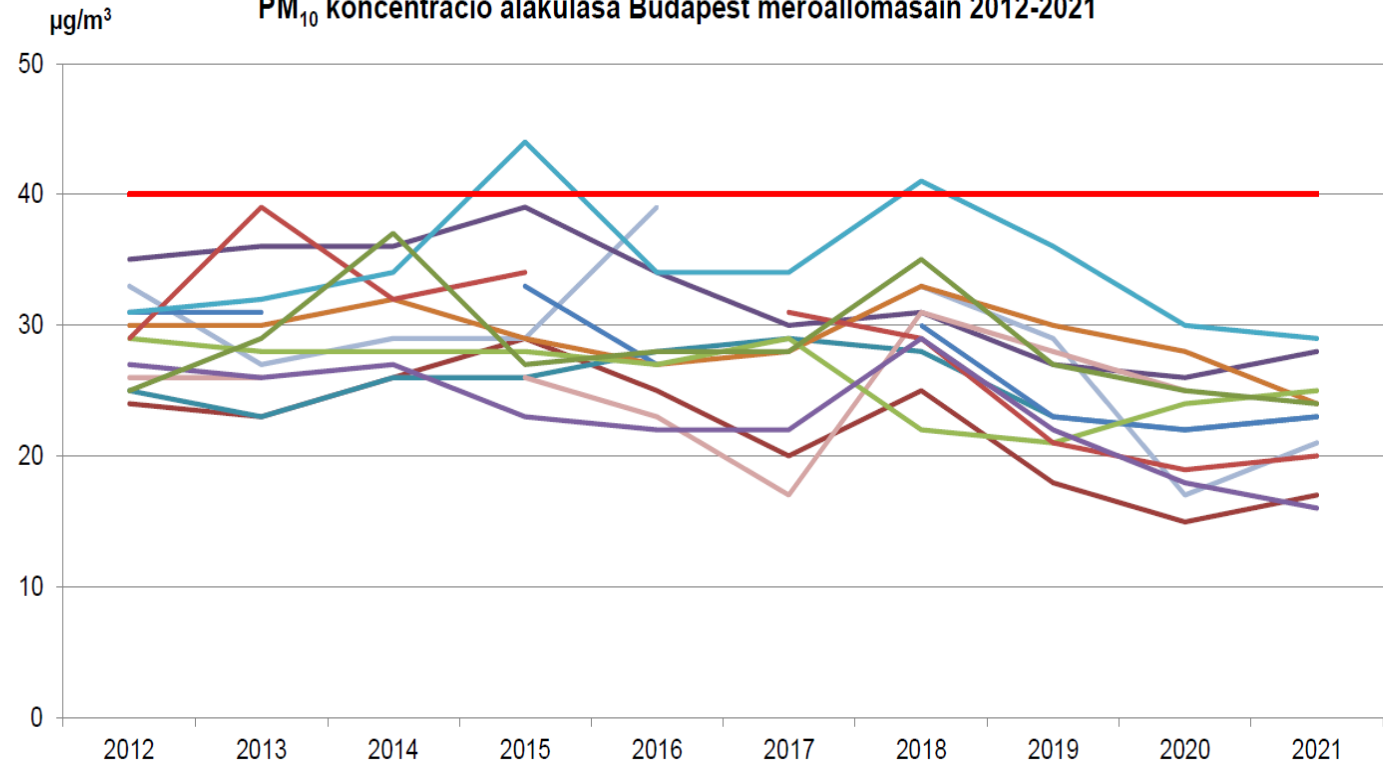
60 installed and 2 automatic monitoring stations + manual measurements







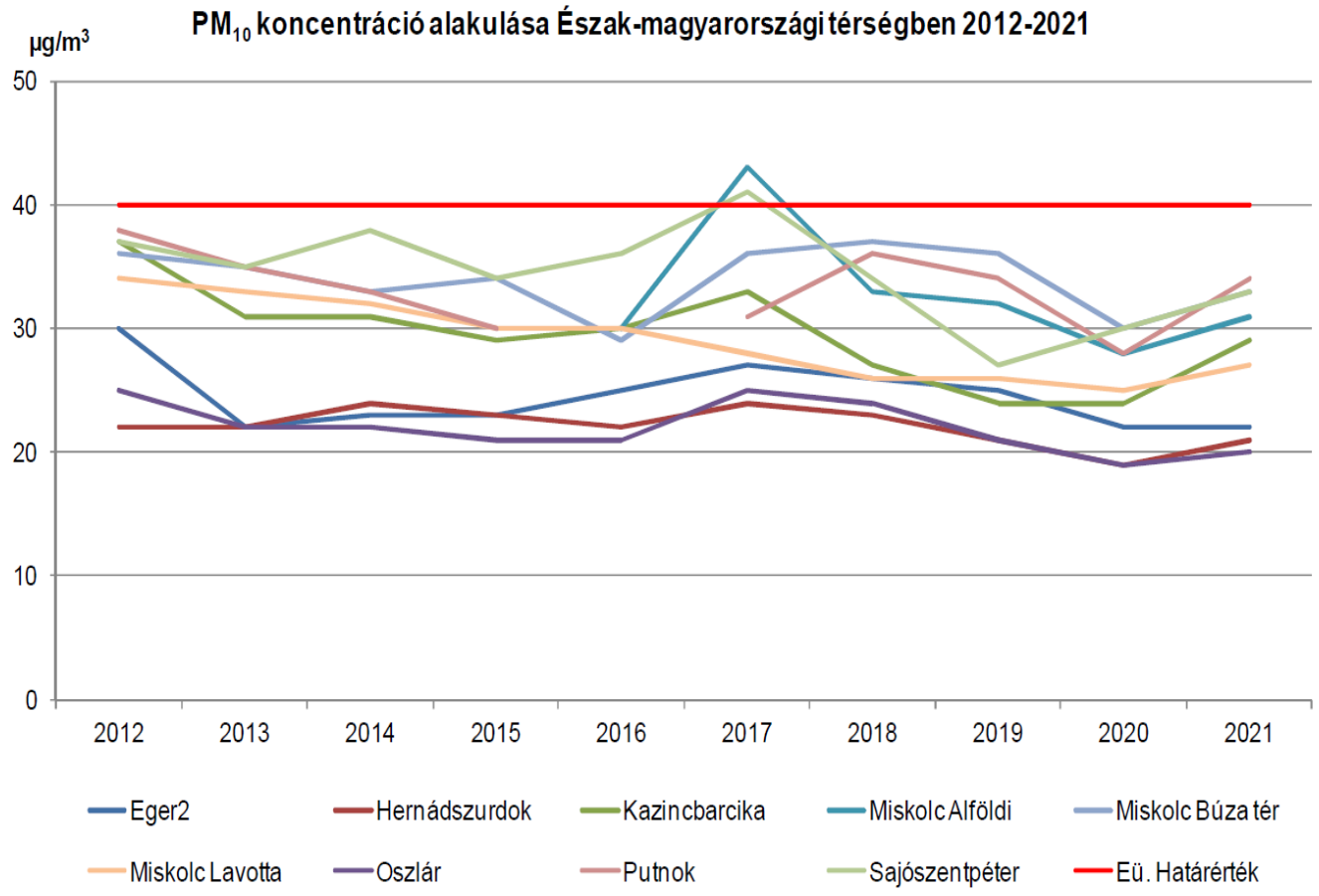
PM₁₀ koncentráció alakulása Budapest mérőállomásain 2012-2021



- Budapest, Budatétény
- Budapest, Csepel
- Budapest, Erzsébet
- Budapest, Gergely u.
- Budapest, Gilice
- Budapest, Honvéd
- Budapest, Káposztásmegyer
- Budapest, Kőrakás
- Budapest, Kosztolányi
- Budapest, Pesthidegkút
- Budapest, Széna
- Budapest, Teleki
- Eü. Határérték

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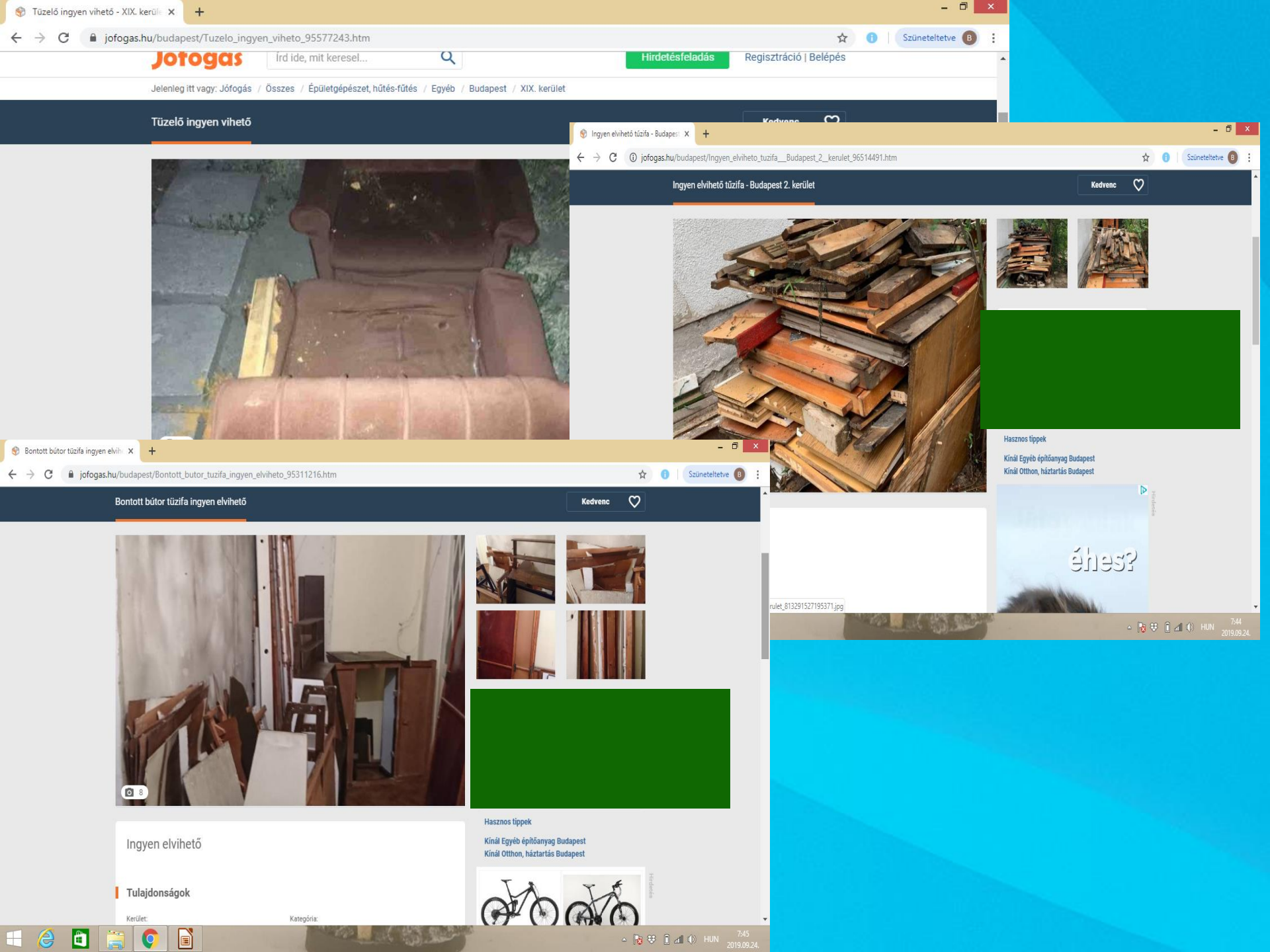
INTER SPAR











Thank you for your kind
attention.

