



CLEAN SKIES – PARTICIPATING IN OSTRAVA'S AIR POLLUTION SOLUTION

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MAIN PROBLEMS

Benzo(a)pyrene

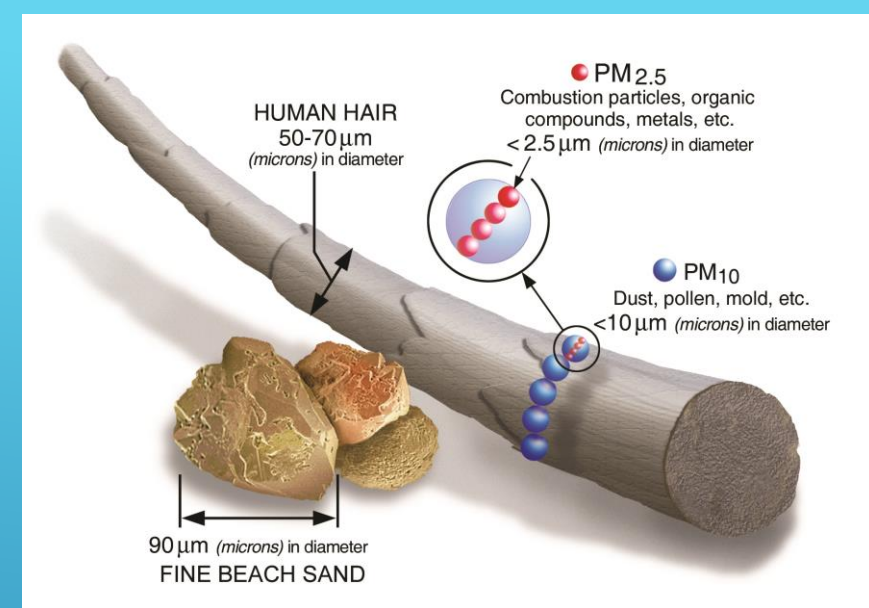


- ▶ Polycyclic aromatic hydrocarbon
- ▶ Result of incomplete combustion at temperatures between 300 °C (572 °F) and 600 °C (1,112 °F)
- ▶ Residential wood burning, coal tar, automobile exhaust fumes (especially from diesel engines), combustion of organic material (including cigarette smoke), charbroiled food
- ▶ Mutagenic, highly carcinogenic
- ▶ Binds with PM


MAIN PROBLEMS

Particulate Matter (PM)


- ▶ Atmospheric aerosole particles
- ▶ Microscopic ($10\ \mu\text{m}$ or less) solid or liquid matter suspended in the atmosphere of Earth
- ▶ Natural sources: volcanoes, dust storms, forest and grassland fires, living vegetation, and sea spray
- ▶ Anthropogenic sources: burning of fossil fuels in vehicles, power plants and industrial processes
- ▶ Permanent DNA mutations, heart attacks, respiratory disease, and premature death



HEALTH ISSUES

- ▶ Cardiovascular system diseases
 - ▶ Respiratory problems
 - ▶ Shorten life expectancy
 - ▶ Higher infant mortality
 - ▶ Cancer
 - ▶ Lower fertility
 - ▶ Kidney and liver diseases
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SOURCES OF POLLUTION

- ▶ Industrial sources – Mittal Steel
 - ▶ Local furnace
 - ▶ Traffic
 - ▶ Emissions from Poland
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OUR ACTIVITIES




DEMONSTRATION – SILENCE WILL NOT SOLVE THE SMOG

- ▶ After month of smog situation
- ▶ Specific demands toward the city and district – handed to city mayor
- ▶ Environment biggest priority, transparency




SMOG PARTY

- ▶ 70 „friends“ of Clean Skies
 - ▶ The end of smog season
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DISCUSSIONS

- ▶ Low emission zones
- ▶ Antifossil Law
- ▶ Emission Lowering National Plan
- ▶ Czech-Poland Air

CONFERENCES


- ▶ WHO in Ostrava
 - ▶ Visegrad Manifesto on Air Quality
 - ▶ City Adaptation on Climate Changes
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SMOG ALARM

- ▶ Notification
- ▶ Map
- ▶ Information



ERASMUS+ PROJECT – CLEAN AIR

- ▶ Environmental Education for Elementary Schools
 - ▶ Causes of Air Pollution
 - ▶ Health effects of Air Pollution
 - ▶ Possible solutions
 - ▶ Change of behaviour
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