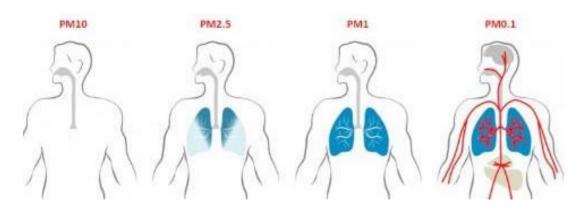
Joint Projects



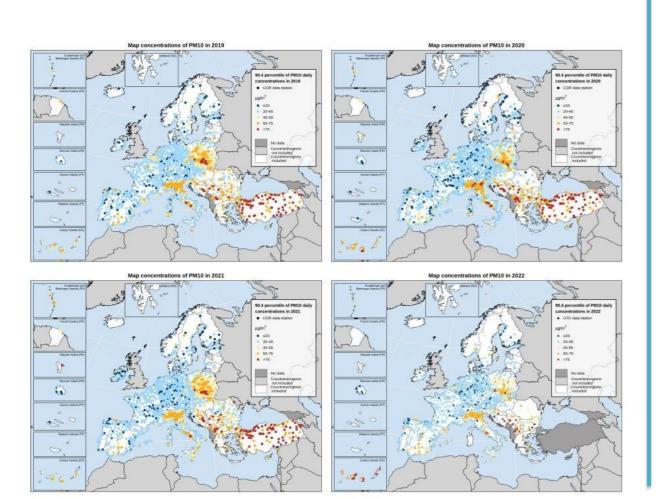
Maaike Vollebregt & Volker Smit | Helen Parkhurst & Gustav Heinemann Schule | Almere (NL) & Mülheim an der Ruhr (DE)

Comparing particulate matter in The Netherlands and Germany

More than 8 million people worldwide die prematurely because of poor air quality, according to the WHO. In Europe this concerns 440,000 people. With this project we try to make young people more aware of the air in their environment. After all, our air makes the earth habitable. Without air there is no life for us, while the current air quality can make us sick this very moment.



Particles larger than 10 μm get stuck in your upper respiratory tract. Particles with a size of 2.5 to 10 μm remain in the mucous membranes of the airways. Particles smaller than 2.5 μm can penetrate deep into the lungs and can enter the bloodstream through the alveoli.





During the project, mixed Dutch and German student teams developed research questions about traffic, population density and health issues in the Netherlands and Germany. They applied and programmed a measuring method to be used with a Senserion sps30 sensor to measure particulate matter. Experts from the fields of science, health, environmental protection as well as politics were involved in the evaluation. They presented their results with a scientific poster at the University of Wageningen and on the provincial house Flevoland to the commissioner of the Dutch king.





