

'AirBubble' offers respite from Warsaw pollution

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The Polish capital was selected for the inaugural edition of the AirBubble as the city is in particular need of clean air.

At a new playground in central Warsaw, algae feast on pollutants and carbon dioxide to provide a bubble of clean oxygen in a city ranked as

one of the most polluted capitals in the EU.

"There is untapped value in bringing the bio-intelligence of natural systems into cities," said Marco Poletto, co-founder of the ecoLogicStudio urban design firm behind the project.

He suggests "turning buildings into living machines that produce energy, store CO2 and clean the air," according to a statement.

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According to data released by the European Environment Agency (EEA) last month, Warsaw ranks 269th for air quality on a list of 323 European cities.

The list was created based on the average level over the past two years of fine particulate matter (PM2.5), the air pollutant with the highest impact on health.

The EEA blames [air pollution](#)—caused in large part by the burning of coal—for an estimated 50,000 premature deaths per year in the country of 38 million people.

The bubble is outfitted with dozens of glass cylinders containing algae immersed in water that feast on air being pumped in from below.



The algae inside the tubes feast on pollutants and carbon dioxide to provide a bubble of clean oxygen.

The green organisms consume polluting molecules and [carbon dioxide](#) before releasing clean oxygen out the top of the bioreactors.

The small circular playground is located next to the riverside Copernicus Science Centre, which stations an employee there to answer any questions and make sure no one gets hurt.

On a recent warm afternoon, children of various ages monkeyed around in the bubble: shrieking, laughing, they hopped on rubber bubbles and swung from rope.

"This is fun," shouted eight-year-old Ania, while jumping.

Her mother, Malgorzata Wrona, also applauded the eco-friendly concept.

"It's pretty cool. Especially in a big city right? Because you know: pollution and smog and everything," the 42-year-old English teacher told AFP.

"This gives the kids, at least, a chance to breathe some fresh air."



The AirBubble will be in place until November for now, but could possibly become a permanent fixture.

She said that where they live, in the western [city](#) of Wroclaw, many people still heat their homes with coal, so the air quality is "terrible".

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