



How does indoor air quality impact the

HEALTH, PRODUCTIVITY AND COGNITIVE PERFORMANCE

of office workers around the world?

STUDY FACTORS

The COGfx Study 3 took a global approach to explore the role of buildings in public health, examining the indoor environment and its effect on office workers in urban commercial buildings across the globe.





302 PARTICIPANTS



URBAN COMMERCIAL BUILDINGS



CITIES



] YEAR



Through COGfx Study 3, researchers examined the associations between cognitive function and ventilation, which affects indoor concentrations of carbon dioxide ($\mathbf{CO_2}$) and fine particulate matter (known as $\mathbf{PM_{2.5}}$). This included occupants' ability to think, reason and respond.



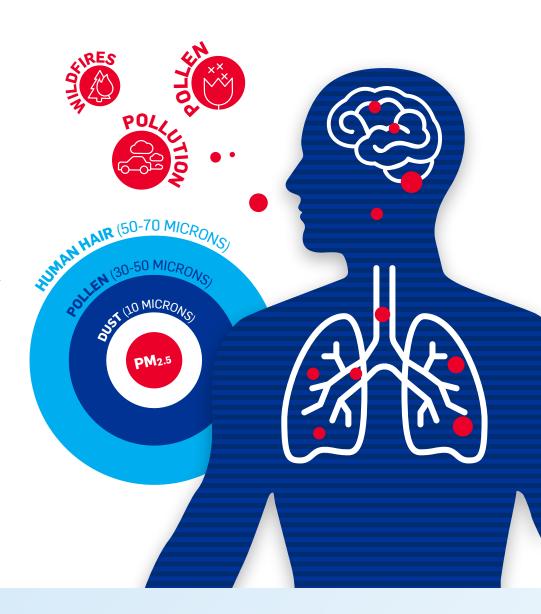
Ventilation refers to the rate

of air exchange in buildings. Ventilation rates can impact the concentration of CO₂ and other pollutants.



${ m PM}_{ m 2.5}$ ${ m PM}_{ m 2.5}$ refers to tiny particles in

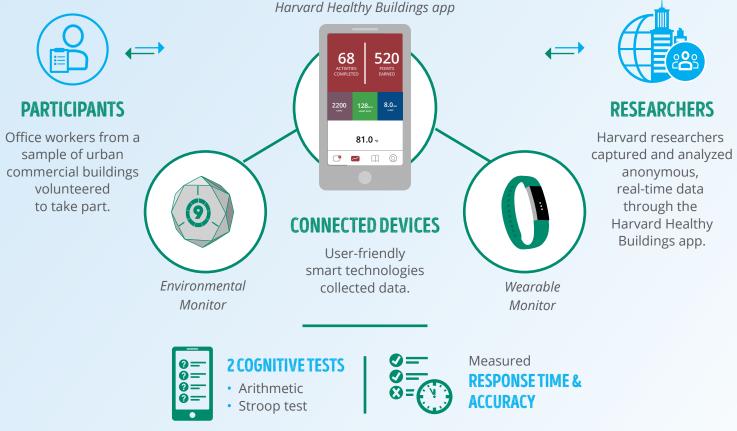
the air. They can can travel deep into your respiratory tract, impacting your health and cognitive function.



REAL-TIME DATA

Using real-time environmental sensors in the urban commercial buildings and a mobile app that

was custom developed for this study, researchers collected data and administered momentary assessments of cognitive function, health and satisfaction within the indoor environment.



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The COGfx Studies were led by researchers at the Harvard T.H. Chan School of Public Health.