



**SUSTAINABLE  
PLACES 2025**

8-10 October 2025

*Milano*



# BUILDING RENOVATION WORKSHOP

**Scaling Impact**  
Pathways for Sustainable Building Renovation in Europe

**DAY 2 | Room 3 | 11:00 – 12:30**



[www.sustainableplaces.eu](http://www.sustainableplaces.eu)

# Agenda

- 11:00 - 11:05 Welcome
- 11:05 - 11:35 Project Pitches
- 11:35 - 12:10 Interactive Panel Discussion
- 12:10 - 12:25 Results from the discussion
- 12:25 - 12:30 Wrap-Up & Next Step

## ▶ Project Pitch IAQS

# Indoor Air Quality Society

Two cities & their indoor air

Improving Cardiovascular Health for Disadvantaged Communities



# Indoor Air Quality Society

- **IAQS brings together, industry, academia and regulators in an international collaborative network.**
- We are a partnership of international experts with a long record of research, publication and advocacy in IAQ.
  - Inform,
  - Educate,
  - Enable and support debate,
  - Influence policy-makers and governmental bodies.
- IAQS is a non-profit organization based in Belgium.



# Collaboration



# Project 1: Breathe Healthy Air Together



Pollutants and pathogens in indoor air have a **significant negative effect on human health**. Often with the poorest parts of society suffering the most.



There is a significant **gap in the knowledge and understanding** of the quality of air we breathe in our everyday environments by user groups, and the implications of this.

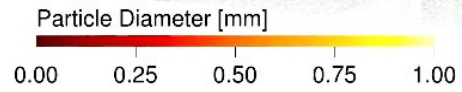
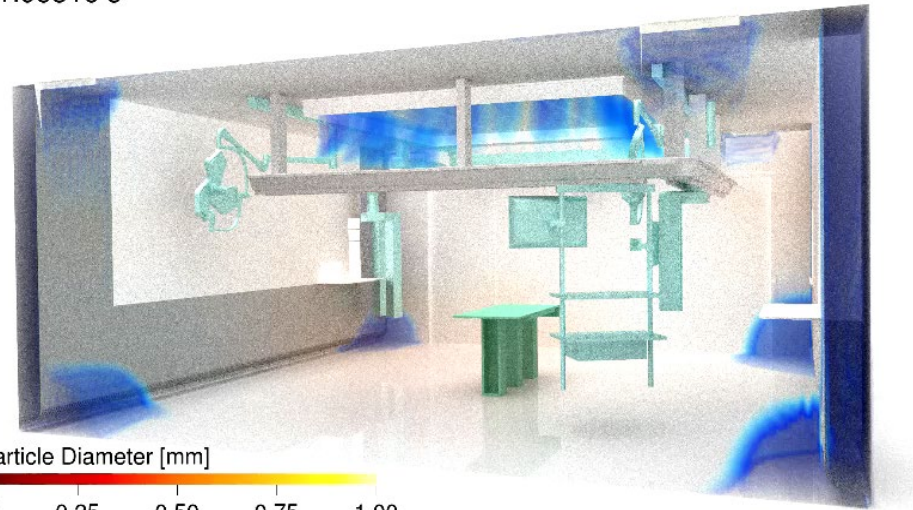


The Indoor Air Quality Society (IAQS) is proud to propose the **first major, live, comparative study of indoor air quality** across two major European metropolitan areas.

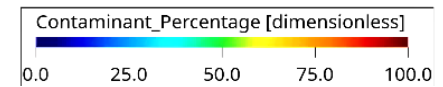
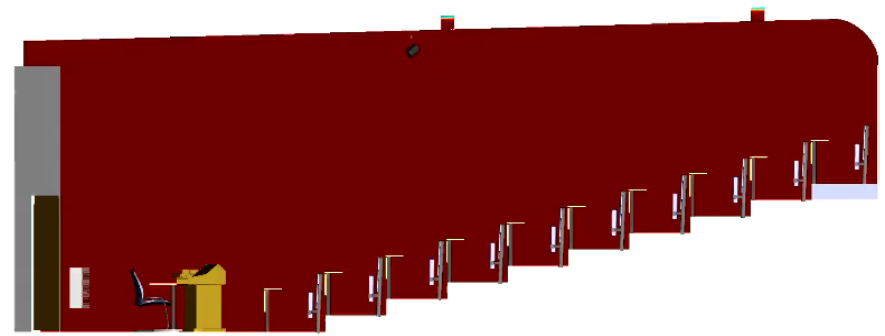


The project will **measure air quality across a range of indicators in key locations** such as healthcare facilities, schools and work-places.

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Assessment of the decontamination curves in the lecture hall of a university – the fully saturated environment is progressively flushed by clean air coming through two ceiling slots.



[www.iaqsociety.org](http://www.iaqsociety.org)



# Educate, Inform and Improve



Inform and educate policy makers from the data and the improve to change policy for the better, particularly for underserved communities



Increase knowledge and awareness of own working environments



Comprehensive objective data in their own facilities of the beneficial application of these technologies



Positive effect on general health and for companies' staff morale and productivity.



Positive contribution to ESG, reduction in energy costs and supporting journey to Net Zero

## Project 2: Improving Cardiovascular Health for Disadvantaged Communities

### Goals:

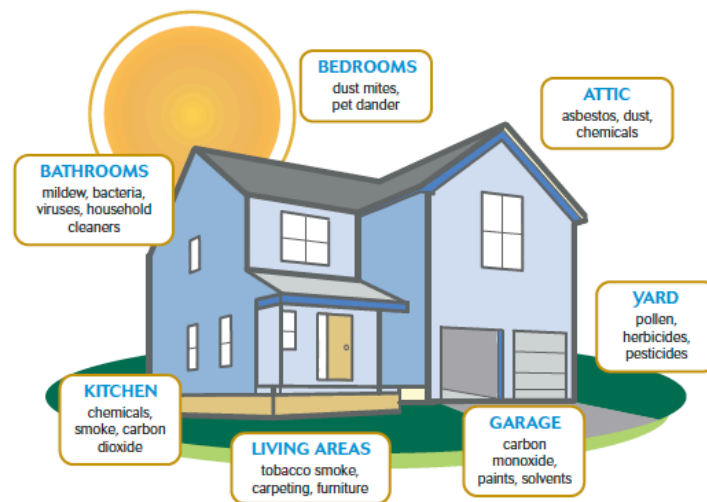
- Identify the relationship between **indoor air quality and heart disease**.
- Determine whether **SES or air pollution** is a stronger predictor of CVD risk.



Use **cardiac CT calcium scores** to quantify risk and correlate with air pollution levels

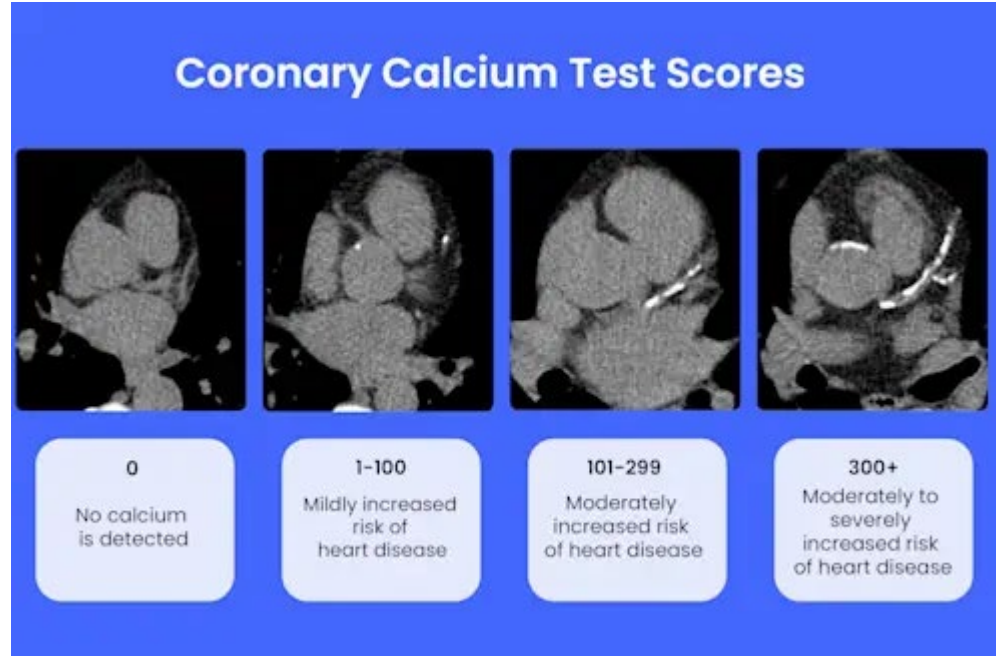
Philips Foundation/Cardiology  
Centers of the Netherlands/UvA

# Outdoor air: for cardiac disease, the danger is fine dust Indoor air pollution is very different from outdoor air pollution!



- Air pollution caused 8.8 million extra deaths i
- The World Health Organization (WHO) estimates smoking kills about 7 million people a year globally

# Target group: cardiac patients that undergo a CT Scan



Quantitative outcome: Calcium score

# Goals & Objectives

**Measure IAQ & Outdoor Pollution:** Deploy air quality sensors in patients' homes.

**Assess Cardiovascular Risk:** Collect & analyse **CT calcium score**.

**Analyse Socioeconomic Influence:** Compare **location, and health outcomes**.

**Develop Data-Driven Insights:** Support public health policies to improve outcomes.