

# Wearable Personalized Ventilation

A novel way to breathe clean air and to reduce cross-infection  
with insignificant energy use

DTU Byg

## The Device

Headset

Clean PV  
air

Nozzle

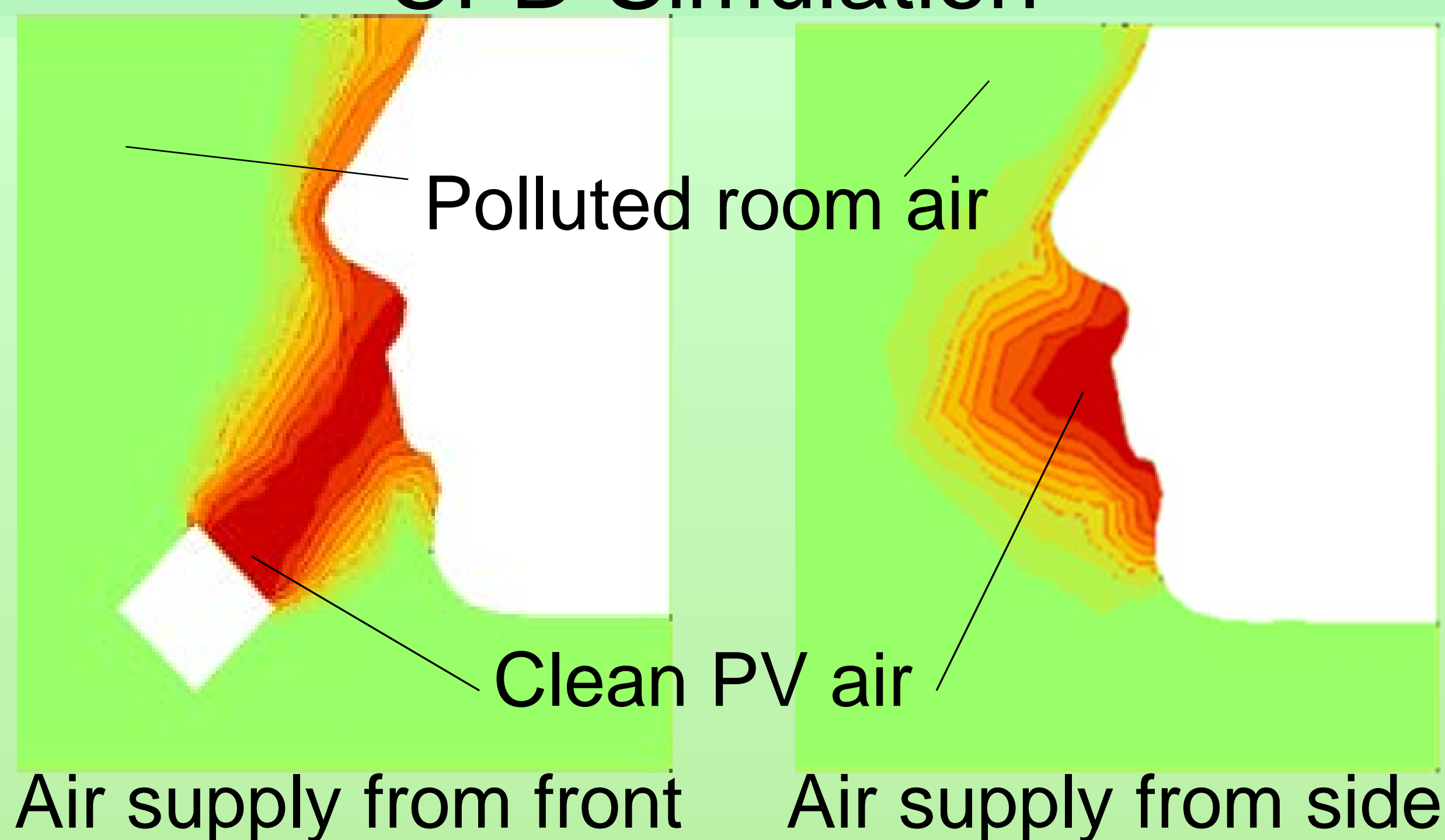
Air supply  
tube



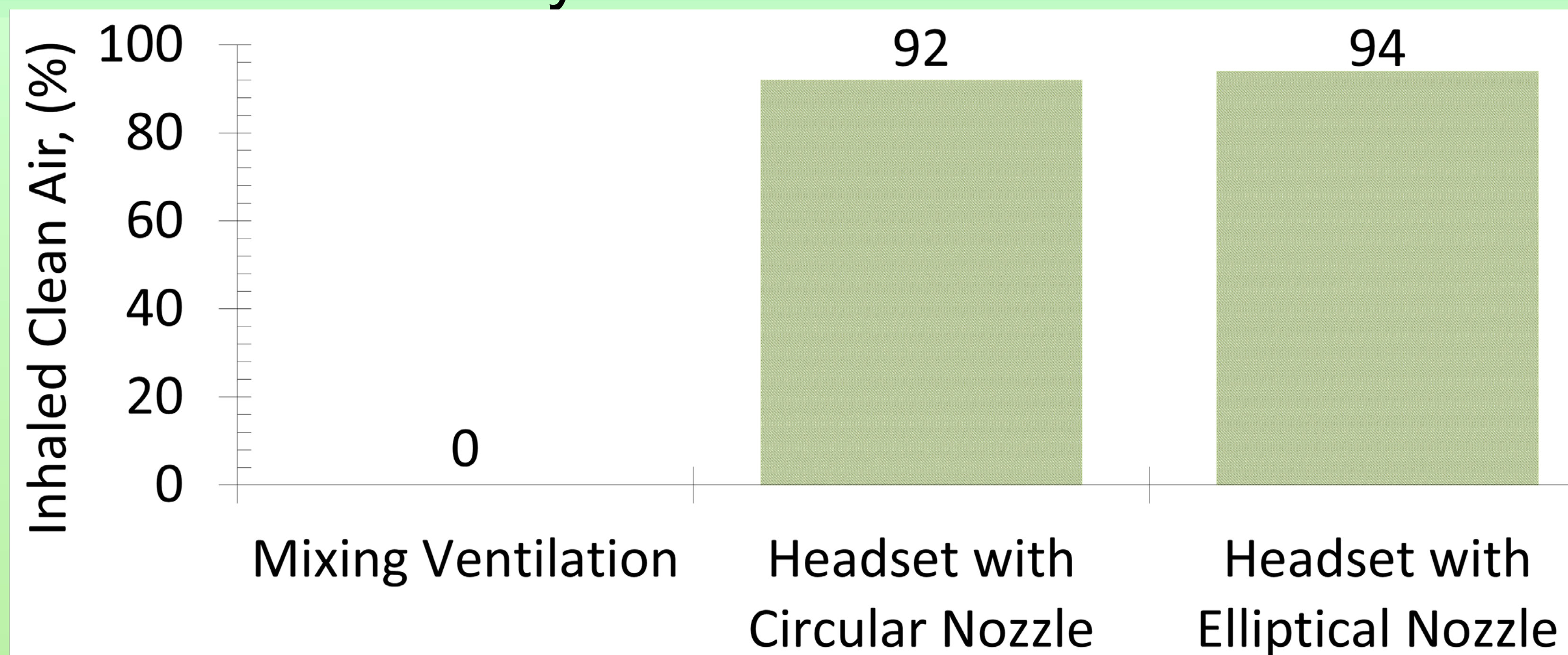
- Nozzle incorporated around/within the microphone of a headset or a stand-alone design;
- Adjustable positioning of the nozzle (from front, side, below);
- Supply flow rate up to 0.5 L/s;
- Air supplied through a tube connected to a small box equipped with pump, filter, UVGI and attached to the body;
- The headset may be plugged to the workstation.

## Performance

CFD Simulation



Physical Measurements



## Application

Office, Call center, Banks



Public Transport Vehicles



Health Care Facilities

