



BRAVE

Bioaerosol Risk Assessment
interVention Engineering



CLEAN AIR IS FUNDAMENTAL TO GOOD HEALTH.

We breathe in 3000 gallons of air per day. It should be as clean as the water we drink, but it often contains tiny, invisible particles that can make us sick with asthma, the flu, and heart disease. BRAVE is a clean air system that supports healthier indoor environments and disease prevention.

BRAVE PLATFORM

BIOSENSING

Advanced detection and continuous sensing of airborne biological targets.

RISK MODELING

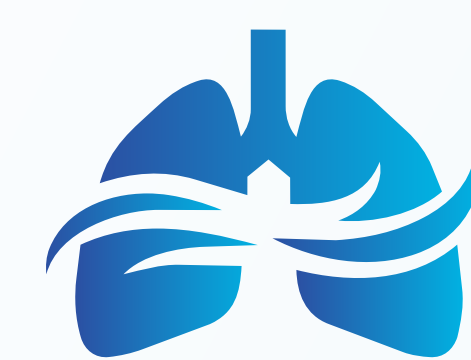
Converts sensor data into clear, actionable intelligence.

INTERVENTIONS

Automated and guided actions to improve air quality.

BROAD APPLICATIONS

BRAVE is a flexible AI-enabled intelligence platform designed for use in any environment where people share air:



Allergy, Asthma, and Chronic Respiratory Health Management

For people who experience chronic respiratory conditions, BRAVE enables real-time awareness of allergens, fungal spores, and other airborne irritants, supporting targeted filtration, airflow control, and behavioral guidance.



Health Screening

At smaller scale, BRAVE could be used for non-invasive screening of individuals for illness, for example at airports.



Clinical and Research Diagnostics

The biosensing technology underlying BRAVE can support clinical research and diagnostic workflows by providing new insight into airborne exposures, respiratory stress, and environment-health interactions.



Safe Havens During Environmental Disasters

During wildfires, smoke events, dust storms, or other environmental extremes, BRAVE can help designate, verify, and manage clean-air safe havens.



Transportation Environments

Aircraft, trains, ships, transit hubs, and large venues benefit from BRAVE's ability to provide real-time awareness in dense, mixed-occupancy spaces.



Data Platform for Research and Innovation

By generating unprecedented data sets linking environment, behavior, and health over time, BRAVE turns everyday environments into living laboratories. These data enable future research, standards development, and innovation across health, infrastructure, and resilience domains.

BRAVE: Cleaner Air. Better Health.